

PHOTOMETRICS REPORT  
**LOGIC** MR16 Downlight S



**ILUMINARC**®

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## Testing Process

### Total Illuminance Measurements

Illuminance is measured using the Viso Systems LabSpion<sup>®</sup>, which takes multiple measurements across a light beam to calculate the total delivered lumens, beam, and field of a product. These values can be described as the empirical output of the product as it projects from the lens or lenses. All photometric data contained in this report are obtained from the actual illuminance of the tested Chauvet light source and are never theoretical values derived from calculations.

### Testing Lab Equipment and Process

The Chauvet headquarters in Sunrise, Florida has a climate- and light-controlled photometric testing laboratory where Chauvet products are analyzed and photometric data are measured using the Viso Systems LabSpion<sup>®</sup> light measurement solution.

This system includes a spectrometer sensor, which measures the precise light and color output of the fixture, and a two-axis goniometer, which rotates the product to allow for multi-angle and multi-directional measurement. The Viso Light Inspector software then collects and summarizes the data. From the data gathered, the software can also measure the beam and field angles, accurate color temperature, color quality, and illuminance at multiple distances. The custom-built, Chauvet-specific template presents this information in the photometric and chromaticity reports that follow.

IES (Illuminating Engineering Society) files, an industry-standard file format, are also generated from each test for easy distribution of photometric data.

Several light meters are also used for specific products or to recheck for precision. Accuracy is verified using one or more of the devices listed below:

- Sekonic SpectroMaster C-700-U
- EXTECH HD450 Datalogging Heavy Duty Light Meter
- Asensetek Essence Lighting Passport

To ensure accurate measurements in every photometric or chromaticity test, Chauvet routinely calibrates the LabSpion<sup>®</sup> system every six months as recommended by Viso Systems.

**LOGIC** MR16 Downlight S

# Photometrics & Chromaticity Reports

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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Standard Optics - RGBW - Full Power

## Report Summary

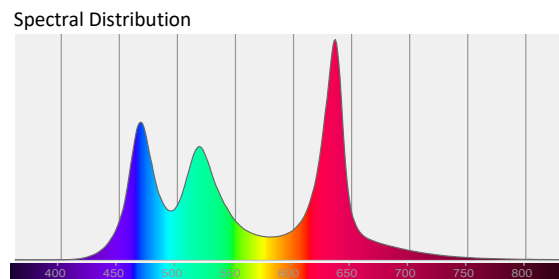
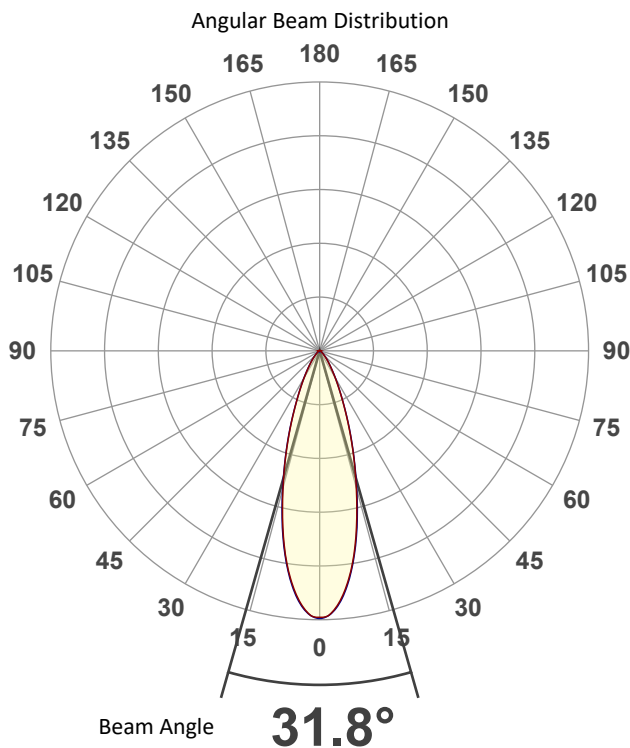
### Measurements

Fixture Output: 294 lm  
Fixture Peak: 729 cd  
Fixture Efficacy: 14 lm/W  
Intensity @ 5m: 29 lux  
Color Temperature: 5514 K  
CRI: 45.7      CRI R9 Value: -148.5  
CQS: 62.0  
TLCI: 26  
TM-30 Rf: 61.4  
TM-30 Rg: 105.3  
Beam Angle (50%): 31.8°  
Field Angle (10%): 63°  
Cutoff Angle (3%): 89.6°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 23.13 W  
Current: 0.193 A  
Power Factor: 0.89



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.332  
Y: 0.341

Light Quality  
CRI: 45.7

Color Temperature  
5514 K

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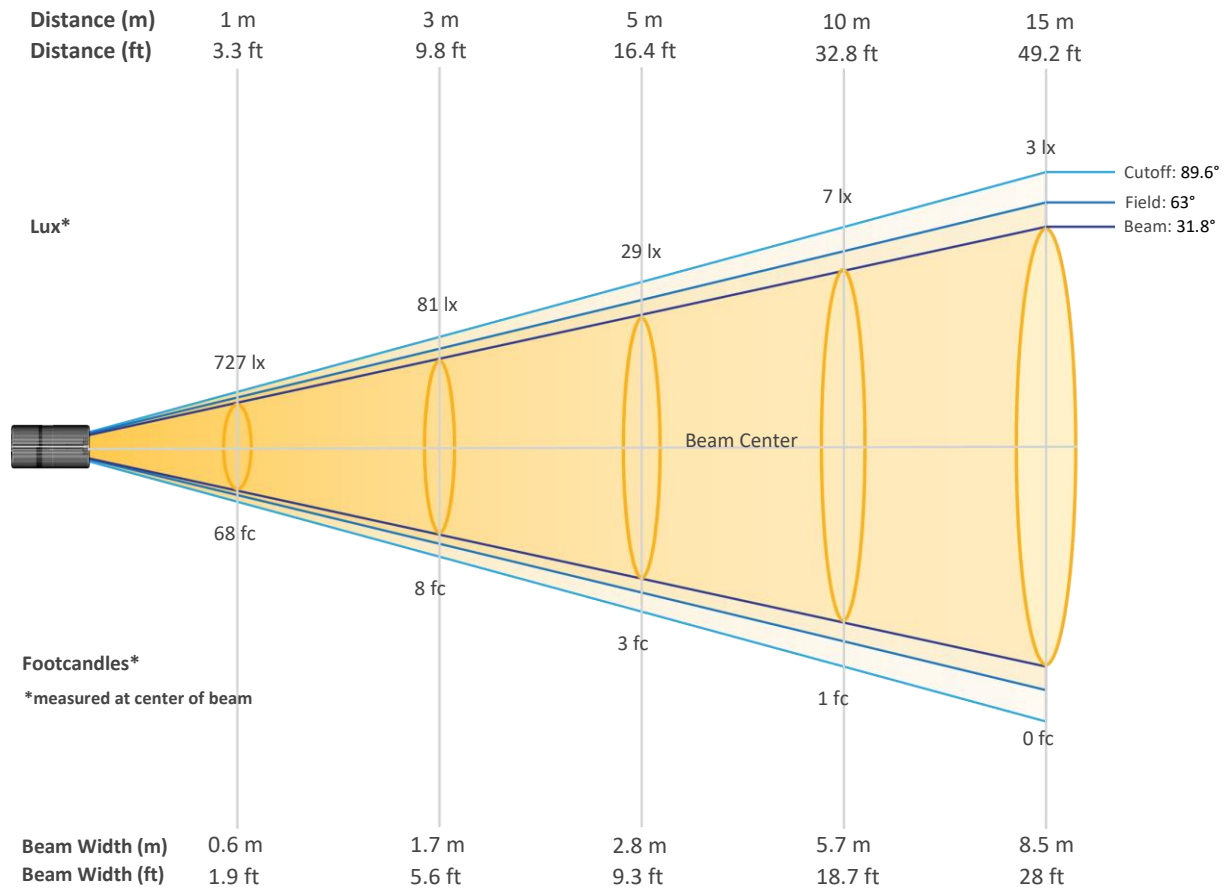
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Standard Optics - RGBW - Full Power

## Beam Details



### Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	727	182	81	45	29	20	15	11	9	7
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	6	5	4	4	3	3	3	2	2	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	68	17	8	4	3	2	1	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	1	0	0	0	0	0	0	0	0	0

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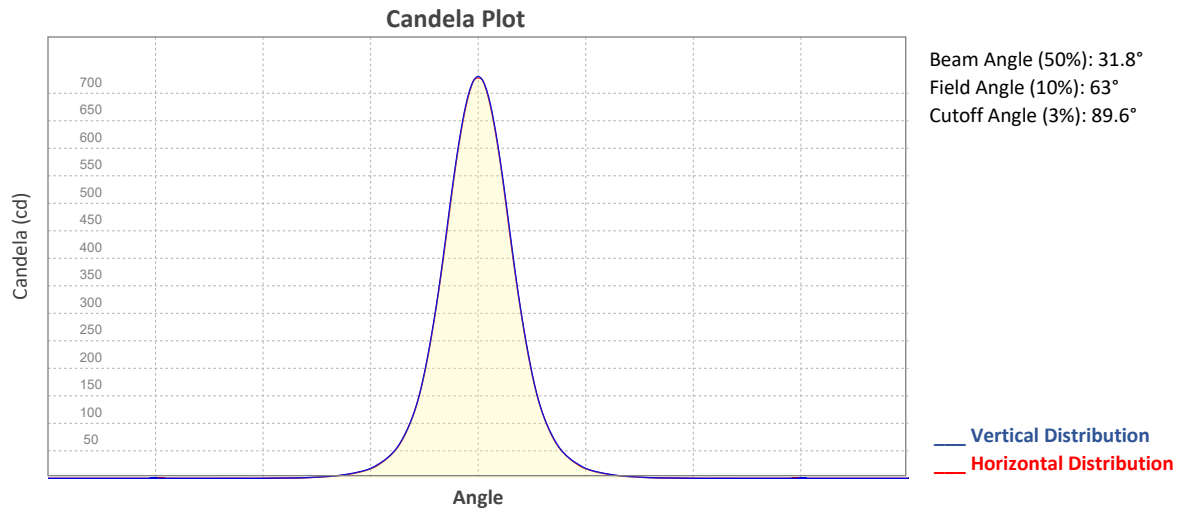
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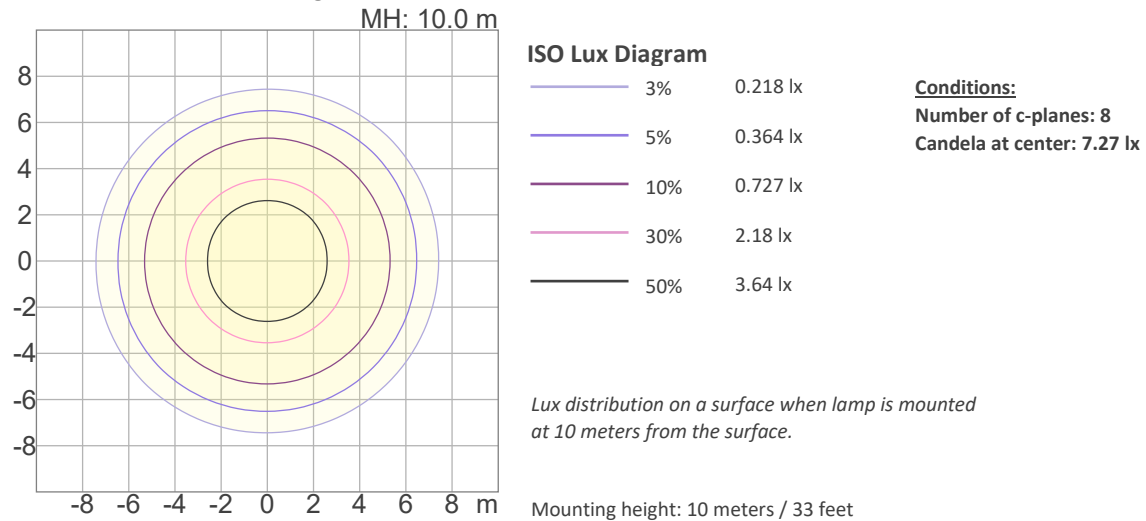
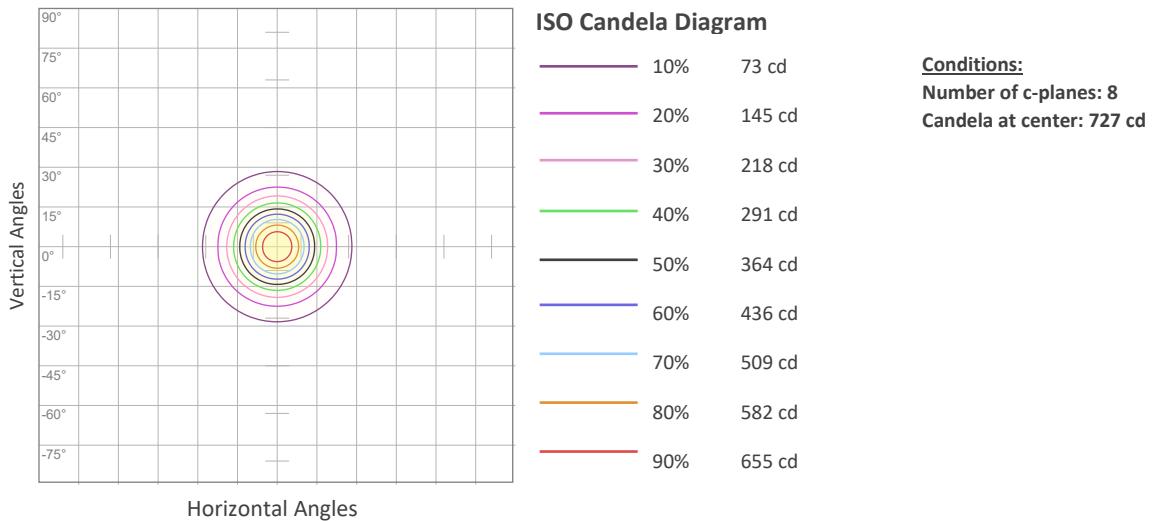
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Standard Optics - RGBW - Full Power



## ISO Diagrams



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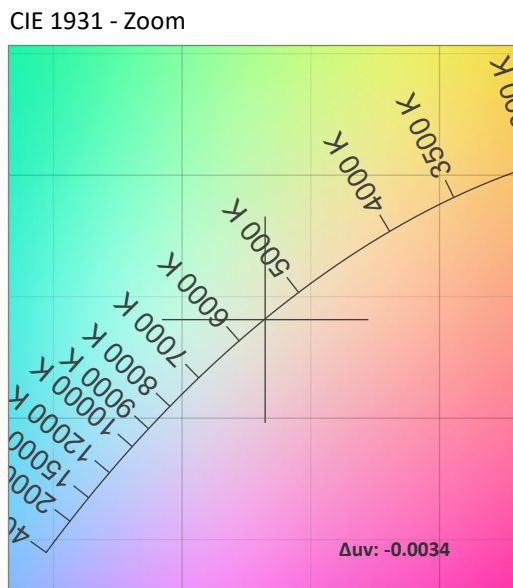
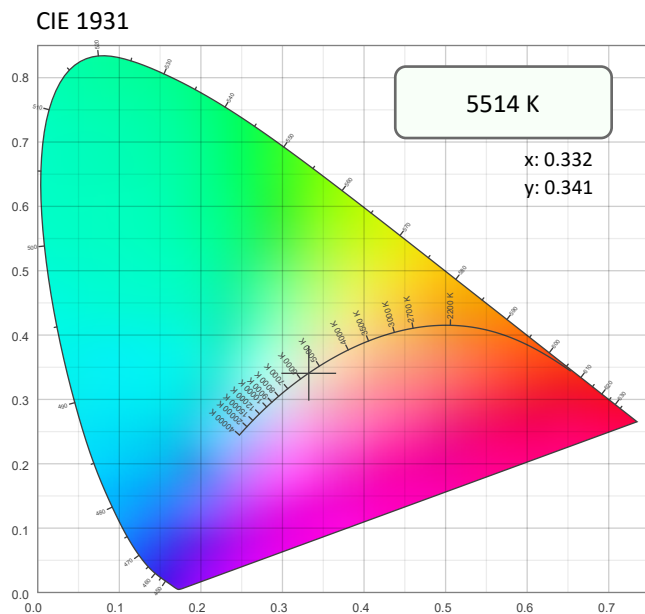
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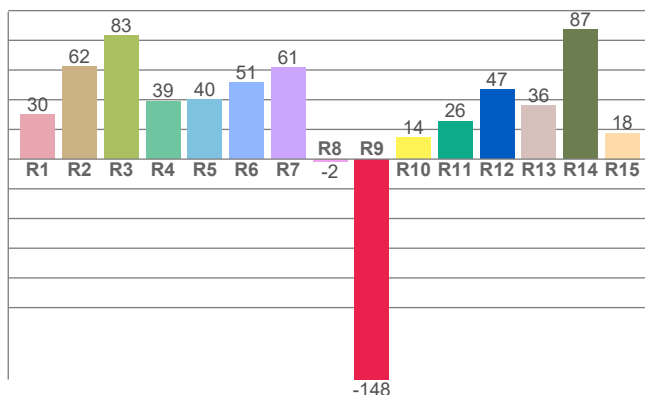
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Standard Optics - RGBW - Full Power

## Chromaticity



CRI: 45.7 (R1-R8)

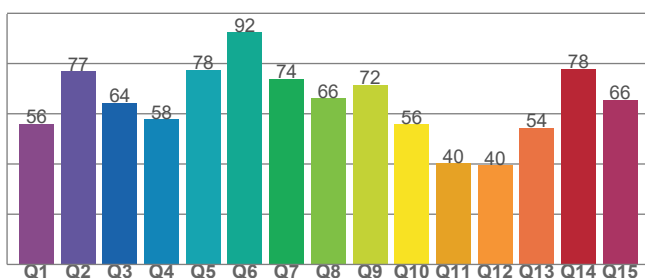


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5514 K	0.332	0.341

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
-0.0034	0.341	0.207

CQS: 62.0



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
45.7	-148.5	62.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
26	61.4	105.3

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# Photometric & Chromaticity Report

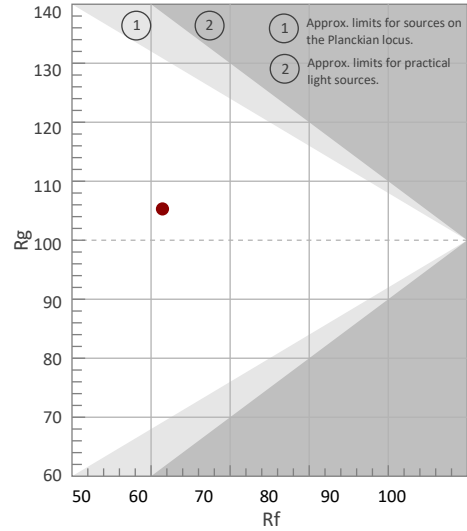
Logic MR16 Downlight S: Standard Optics - RGBW - Full

## TM-30 Details

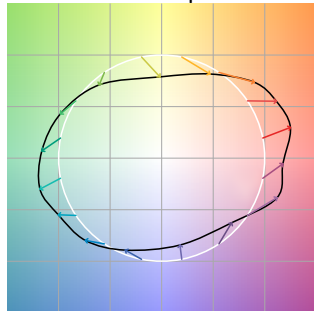
**Rf 61.4**  
Fidelity Index (Rg)

**Rg 105.3**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	46	28%	5%
2	56	23%	-16%
3	39	11%	-34%
4	50	-11%	-30%
5	62	-22%	-14%
6	79	-7%	11%
7	68	5%	19%
8	63	15%	16%
9	73	22%	6%
10	68	14%	-10%
11	66	7%	-17%
12	73	-6%	-17%
13	75	-14%	1%
14	60	-10%	22%
15	57	14%	30%
16	59	16%	18%



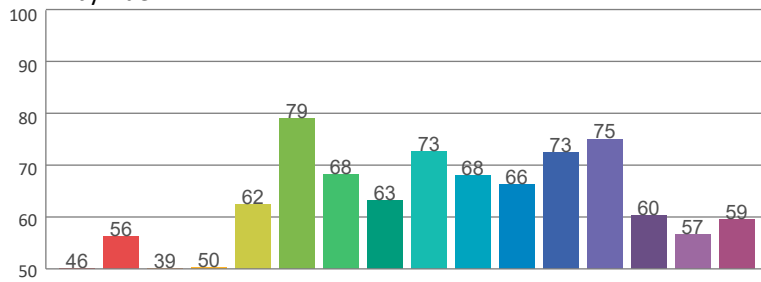
Color Vector Graphic



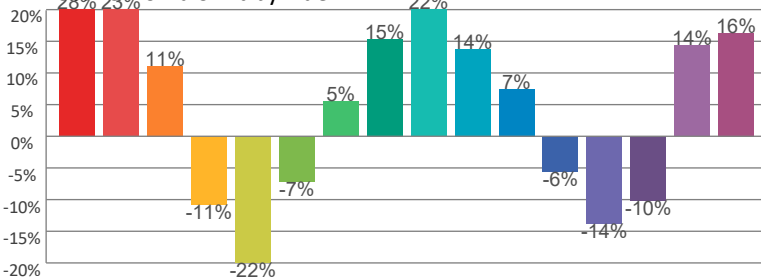
Color Distortion Graphic



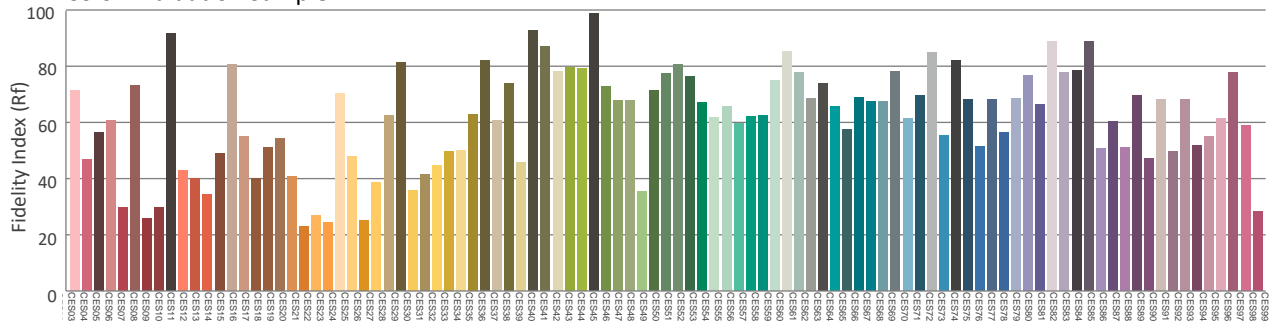
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - RGBW - Full Power

## Report Summary

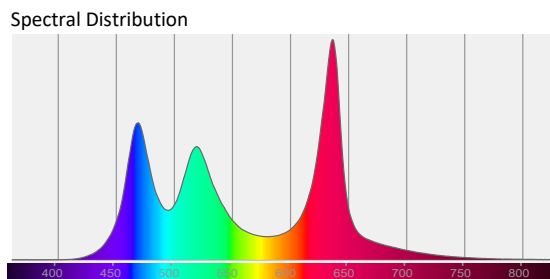
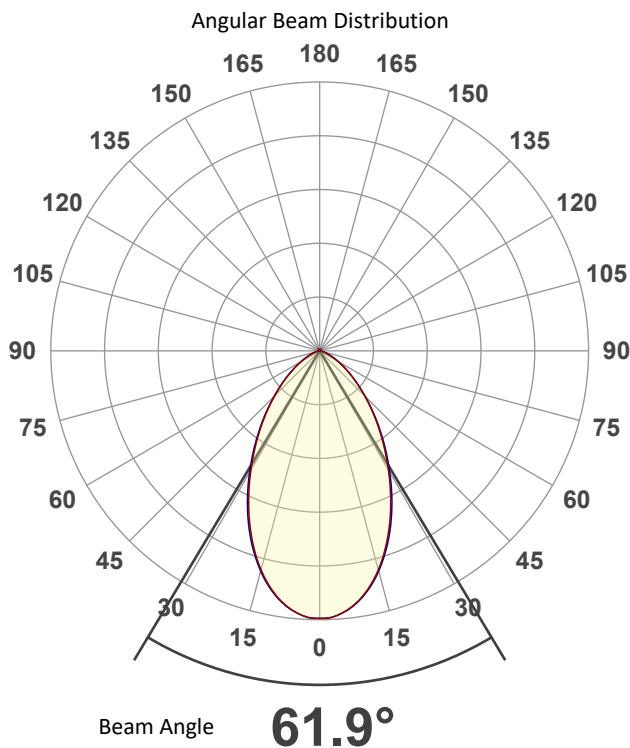
### Measurements

Fixture Output: 256 lm  
Fixture Peak: 206 cd  
Fixture Efficacy: 12 lm/W  
Intensity @ 5m: 8 lux  
Color Temperature: 5501 K  
CRI: 46.3      CRI R9 Value: -148.0  
CQS: 62.1  
TLCI: 26  
TM-30 Rf: 61.6  
TM-30 Rg: 105.1  
Beam Angle (50%): 61.9°  
Field Angle (10%): 114.9°  
Cutoff Angle (3%): 142.4°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 23.09 W  
Current: 0.192 A  
Power Factor: 0.89



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.333  
Y: 0.342

Light Quality  
CRI: 46.3

Color Temperature  
5501 K

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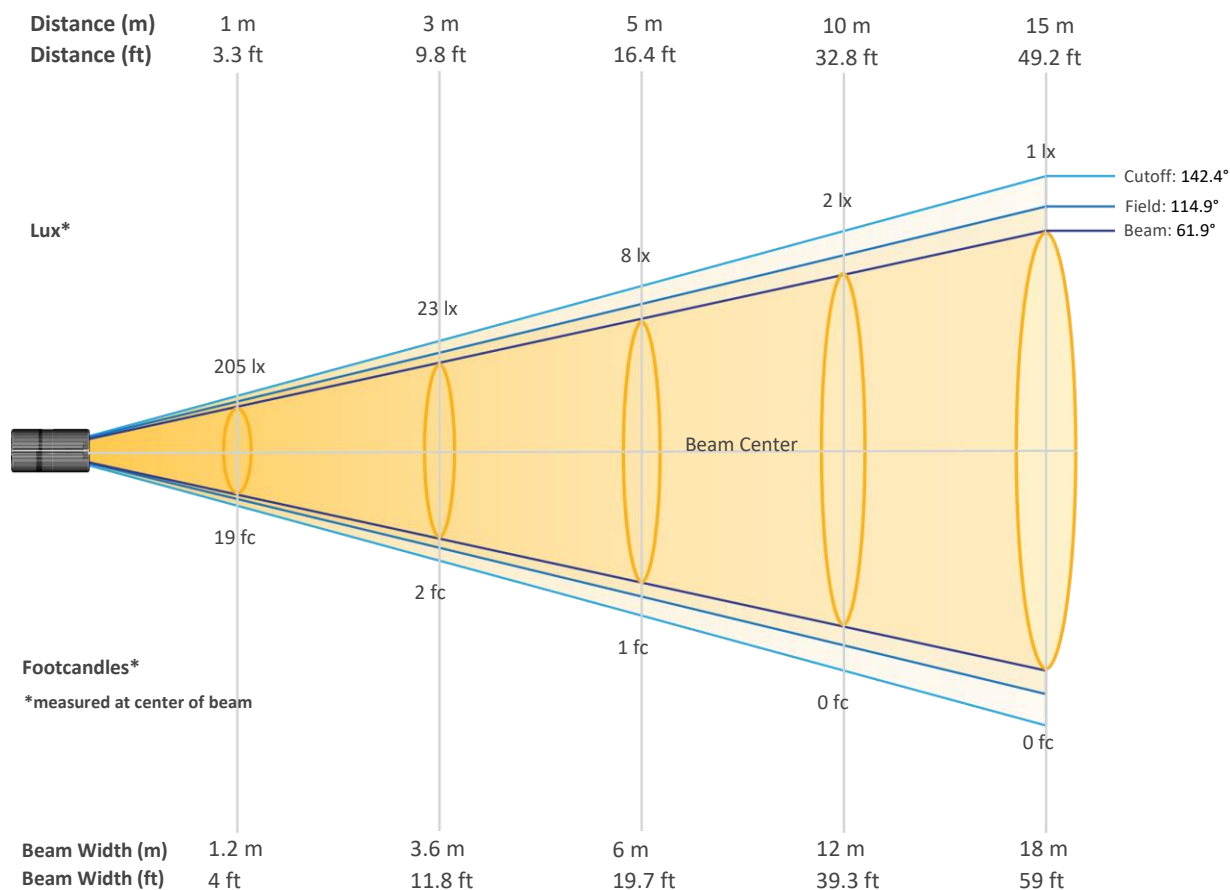
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - RGBW - Full Power

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	205	51	23	13	8	6	4	3	3	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	1	1	1	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	19	5	2	1	1	1	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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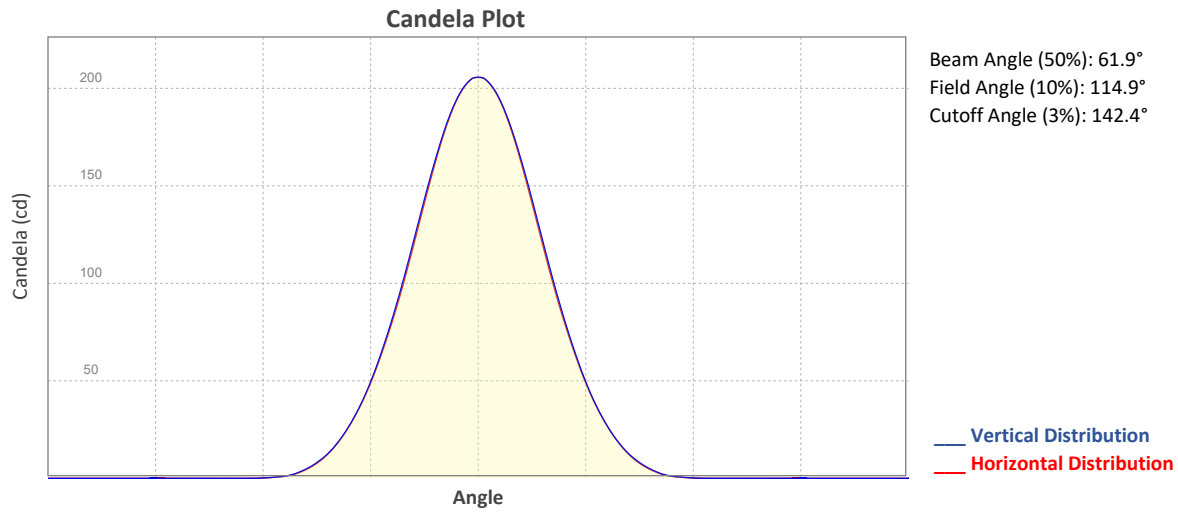
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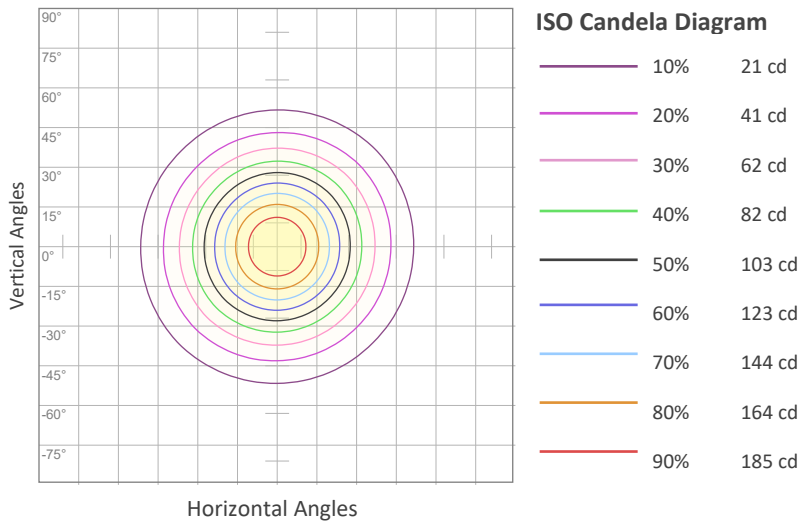
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# Photometric & Chromaticity Report

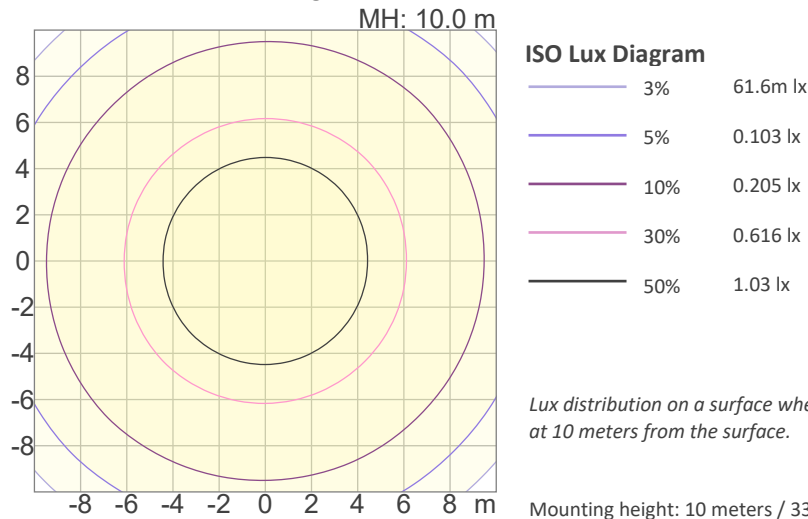
Logic MR16 Downlight S: Medium Filter Lens - RGBW - Full Power



## ISO Diagrams



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 205 cd



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 2.05 lx

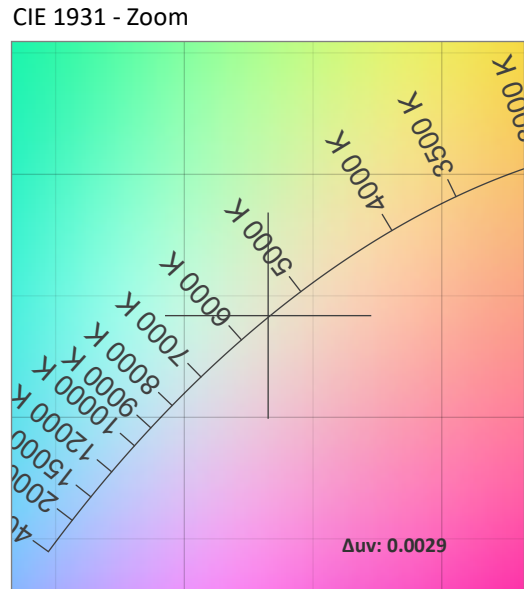
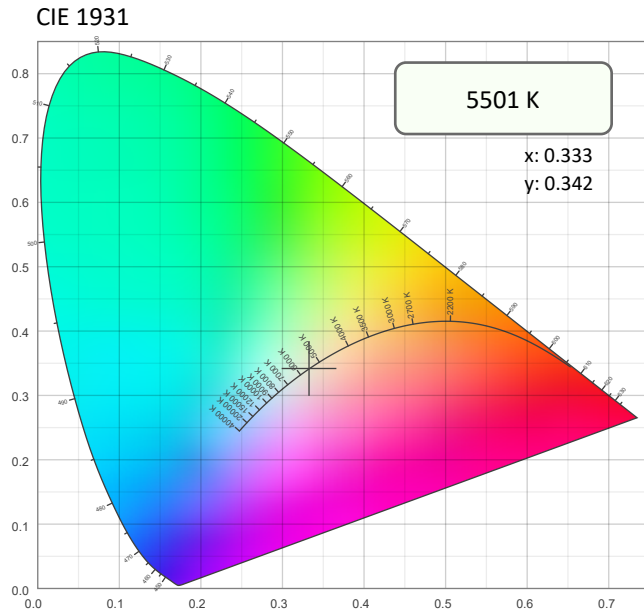
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Mounting height: 10 meters / 33 feet

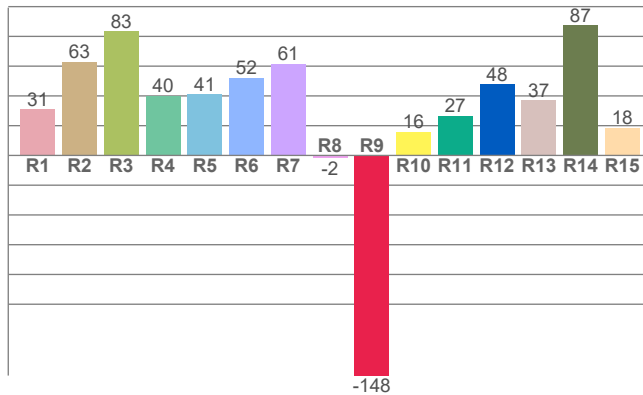
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - RGBW - Full Power

## Chromaticity



CRI: 46.3 (R1-R8)



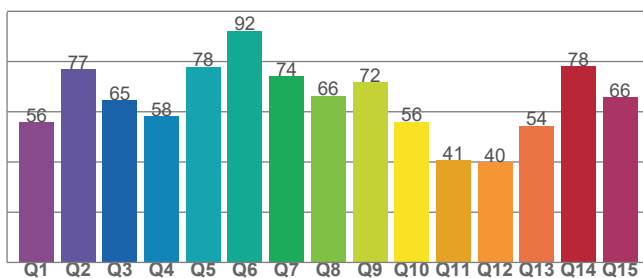
## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5501 K	0.333	0.342

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0029	0.342	0.207

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
46.3	-148.0	62.1

CQS: 62.1



Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
26	61.6	105.1

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# Photometric & Chromaticity Report

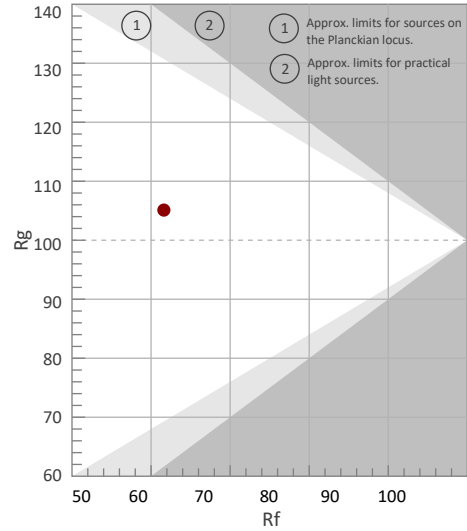
Logic MR16 Downlight S: Medium Filter Lens - RGBW - Full Power

## TM-30 Details

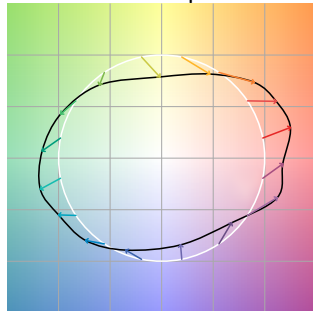
**Rf 61.6**  
Fidelity Index (Rg)

**Rg 105.1**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	46	28%	5%
2	57	23%	-16%
3	39	11%	-34%
4	50	-11%	-30%
5	62	-22%	-14%
6	79	-7%	11%
7	69	5%	19%
8	64	15%	16%
9	73	21%	7%
10	68	14%	-10%
11	67	7%	-17%
12	73	-6%	-17%
13	75	-14%	2%
14	61	-10%	21%
15	57	14%	30%
16	60	16%	17%



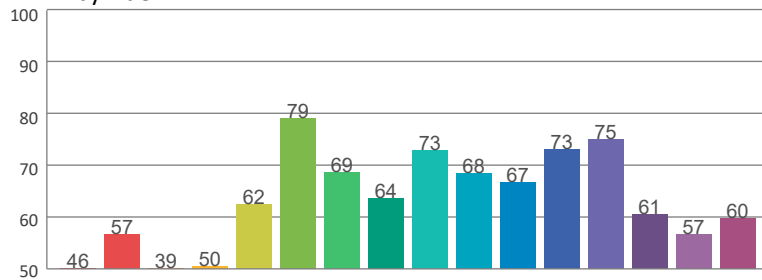
Color Vector Graphic



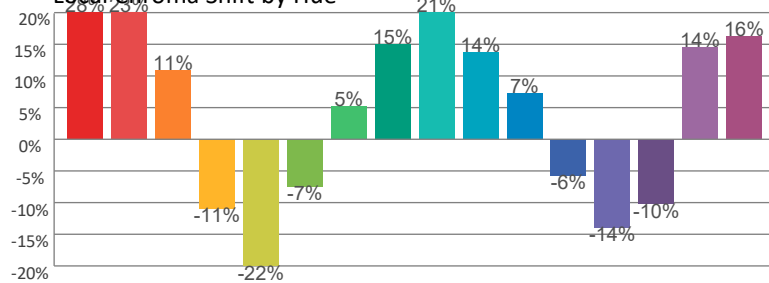
Color Distortion Graphic



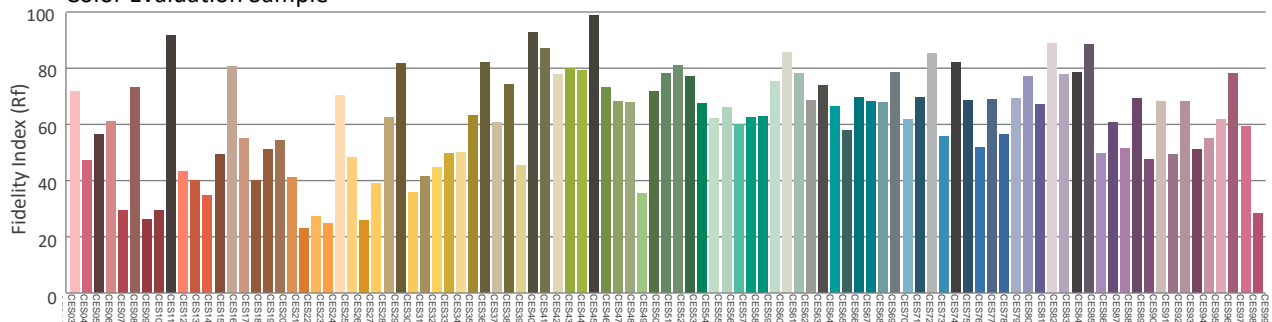
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - Red Only

## Report Summary

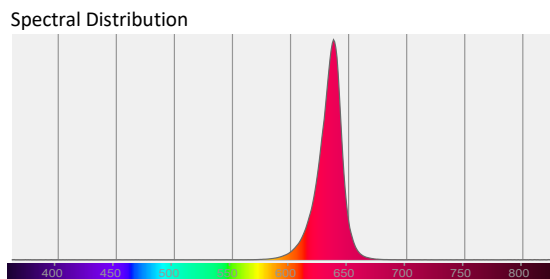
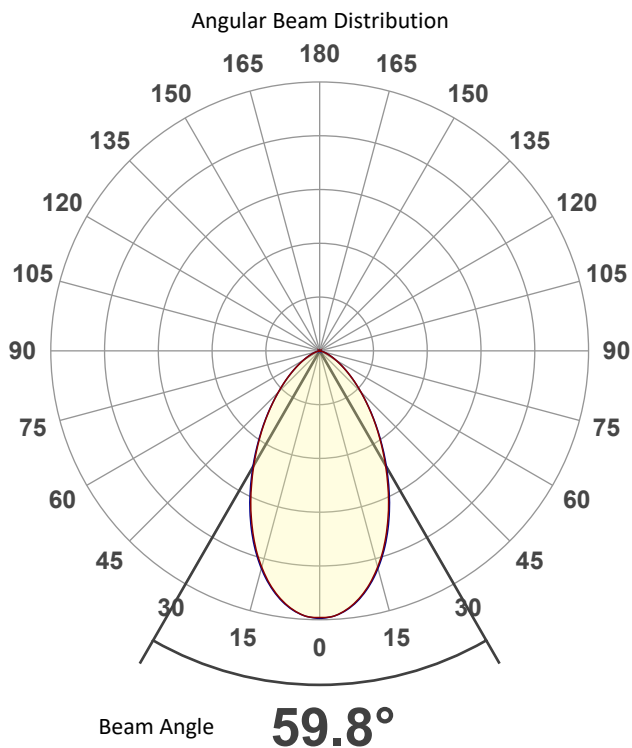
### Measurements

Fixture Output: 63.7 lm  
Fixture Peak: 53.8 cd  
Fixture Efficacy: 5 lm/W  
Intensity @ 5m: 2 lux  
Color Temperature: 0 K  
CRI: 0.0      CRI R9 Value: 0.0  
CQS: 0.0  
TLCl: n/a  
TM-30 Rf: 0.0  
TM-30 Rg: 0.0  
Beam Angle (50%): 59.8°  
Field Angle (10%): 112.1°  
Cutoff Angle (3%): 139.7°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 16.97 W  
Current: 0.141 A  
Power Factor: 0.81



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.700  
Y: 0.300

Light Quality  
CRI: 0.0

Color Temperature  
0 K

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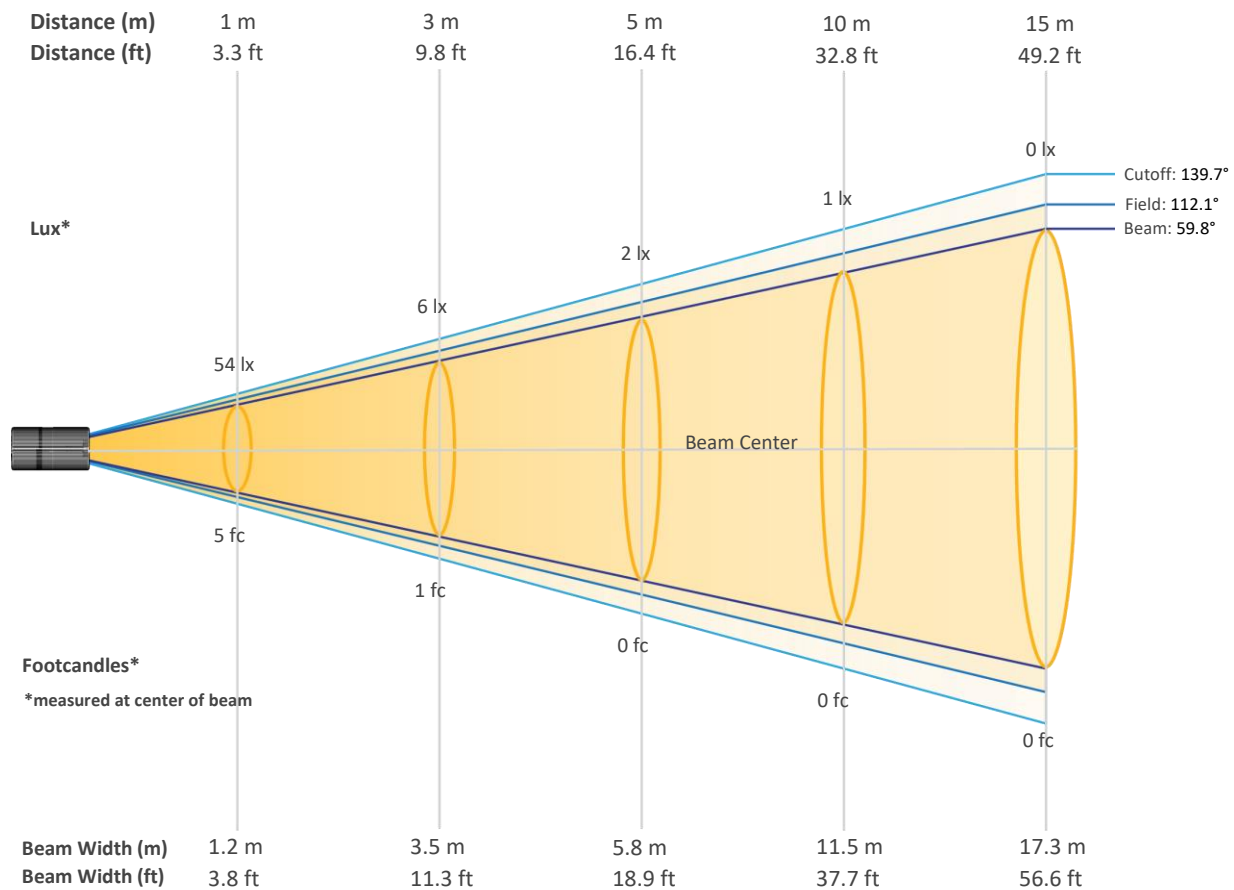
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - Red Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	54	13	6	3	2	1	1	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	0	0	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	5	1	1	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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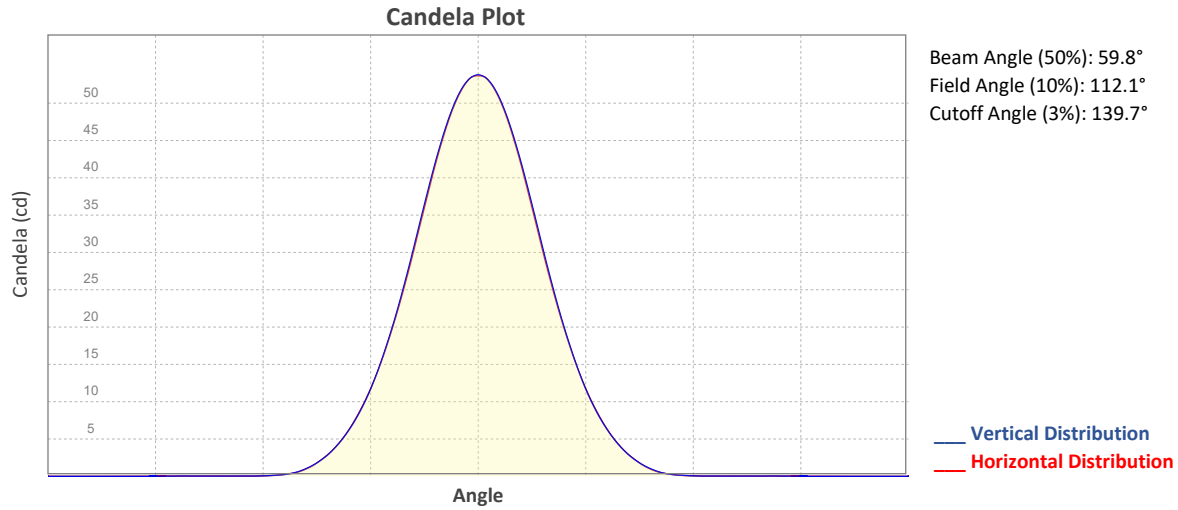
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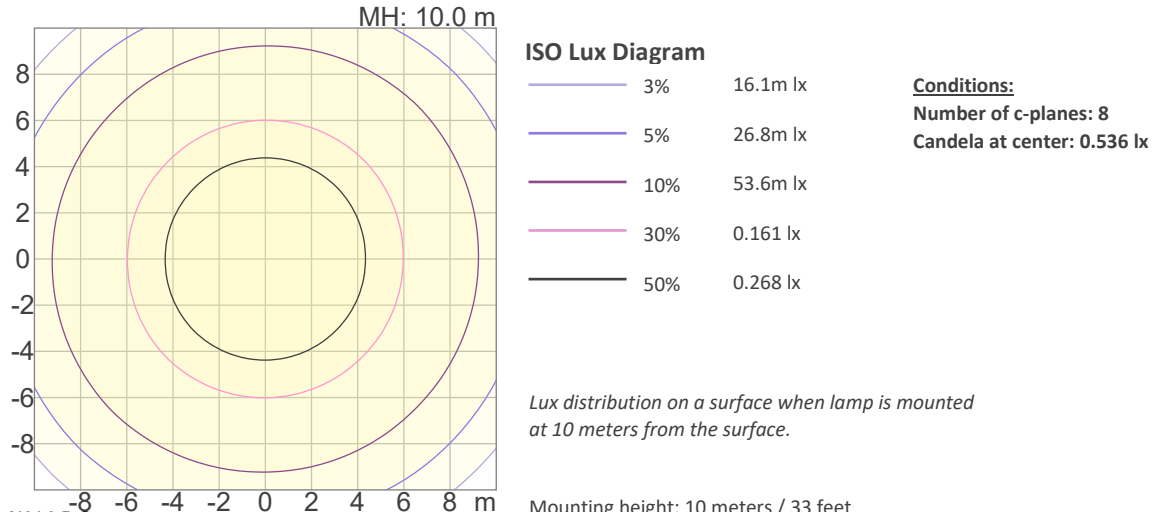
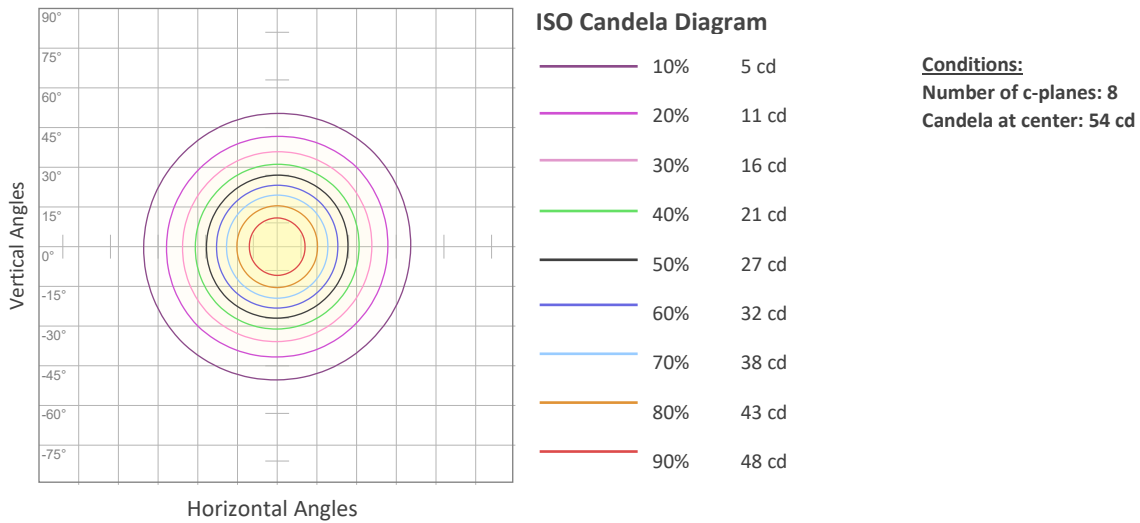


# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - Red Only



## ISO Diagrams



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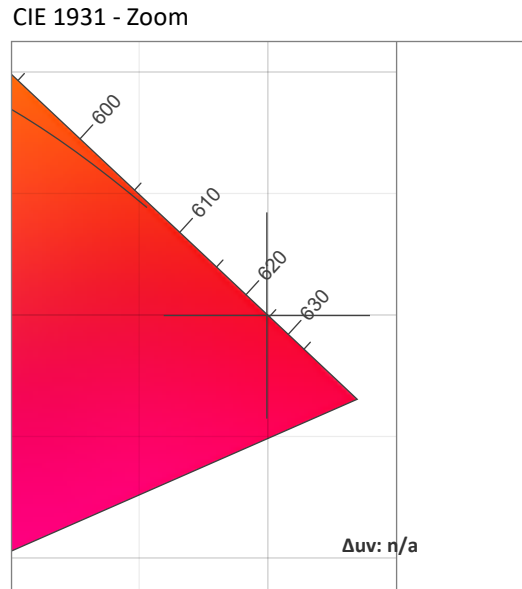
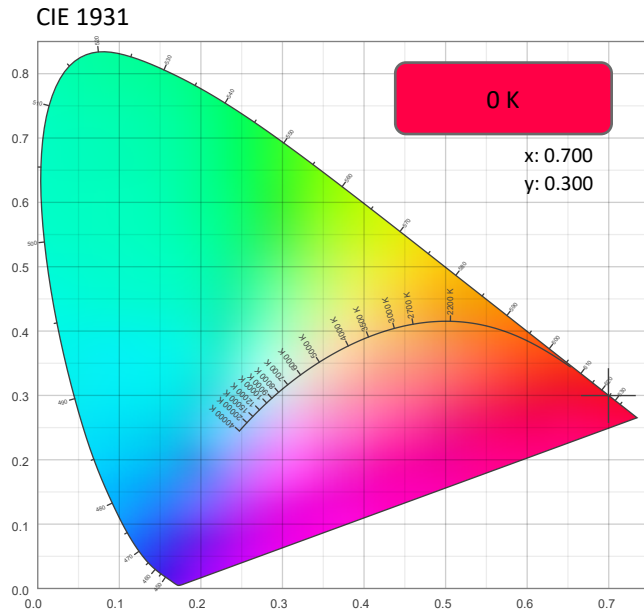
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - Red Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.700	0.300

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.300	0.538

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

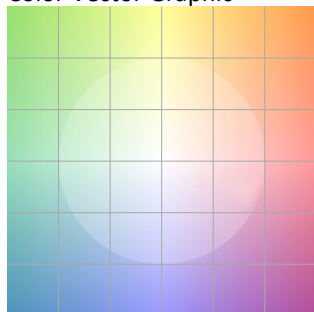
Logic MR16 Downlight S: Medium Filter Lens - Red Only

## TM-30 Details

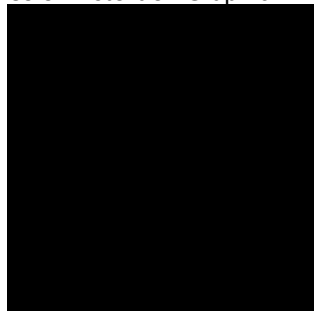
**Rf 0.0**  
Fidelity Index (Rg)

**Rg 0.0**  
Gammut Index (Rg)

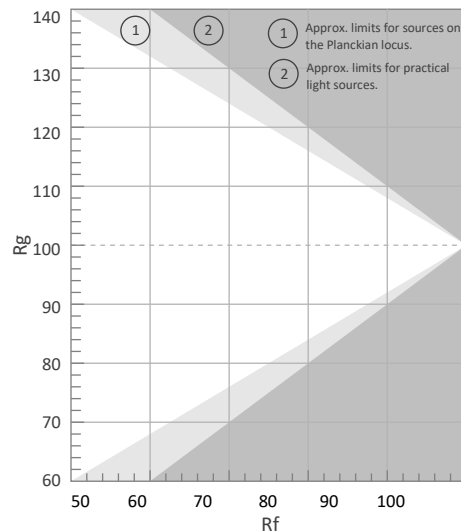
Color Vector Graphic



Color Distortion Graphic



Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



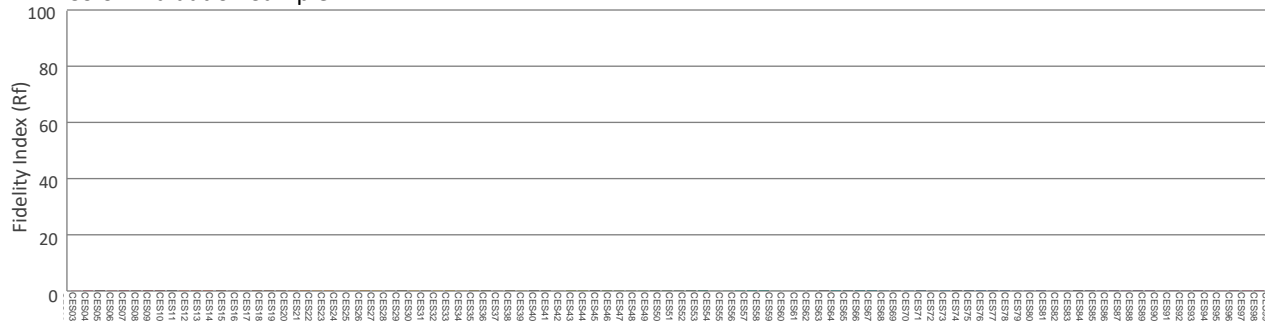
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - Green Only

## Report Summary

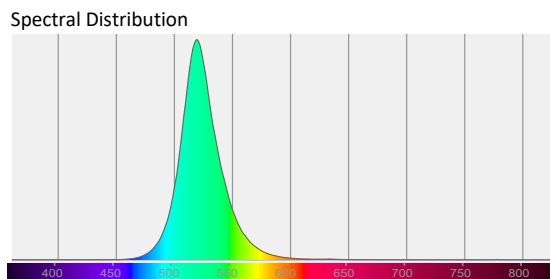
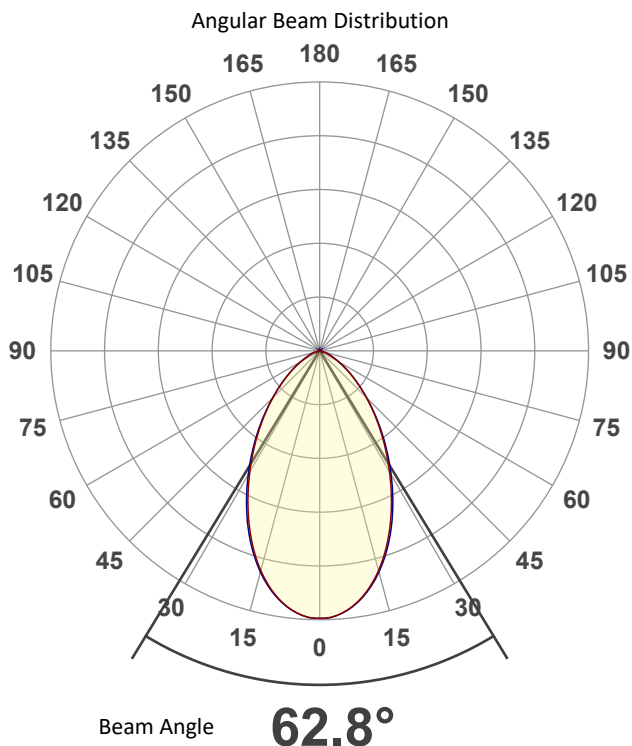
### Measurements

Fixture Output: 121 lm  
Fixture Peak: 95.0 cd  
Fixture Efficacy: 8 lm/W  
Intensity @ 5m: 4 lux  
Color Temperature: 0 K  
CRI: 0.0      CRI R9 Value: 0.0  
CQS: 0.0  
TLCl: n/a  
TM-30 Rf: 0.0  
TM-30 Rg: 0.0  
Beam Angle (50%): 62.8°  
Field Angle (10%): 115.8°  
Cutoff Angle (3%): 143.3°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 17.55 W  
Current: 0.146 A  
Power Factor: 0.82



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.161  
Y: 0.721



Light Quality  
CRI: 0.0

Color Temperature  
0 K

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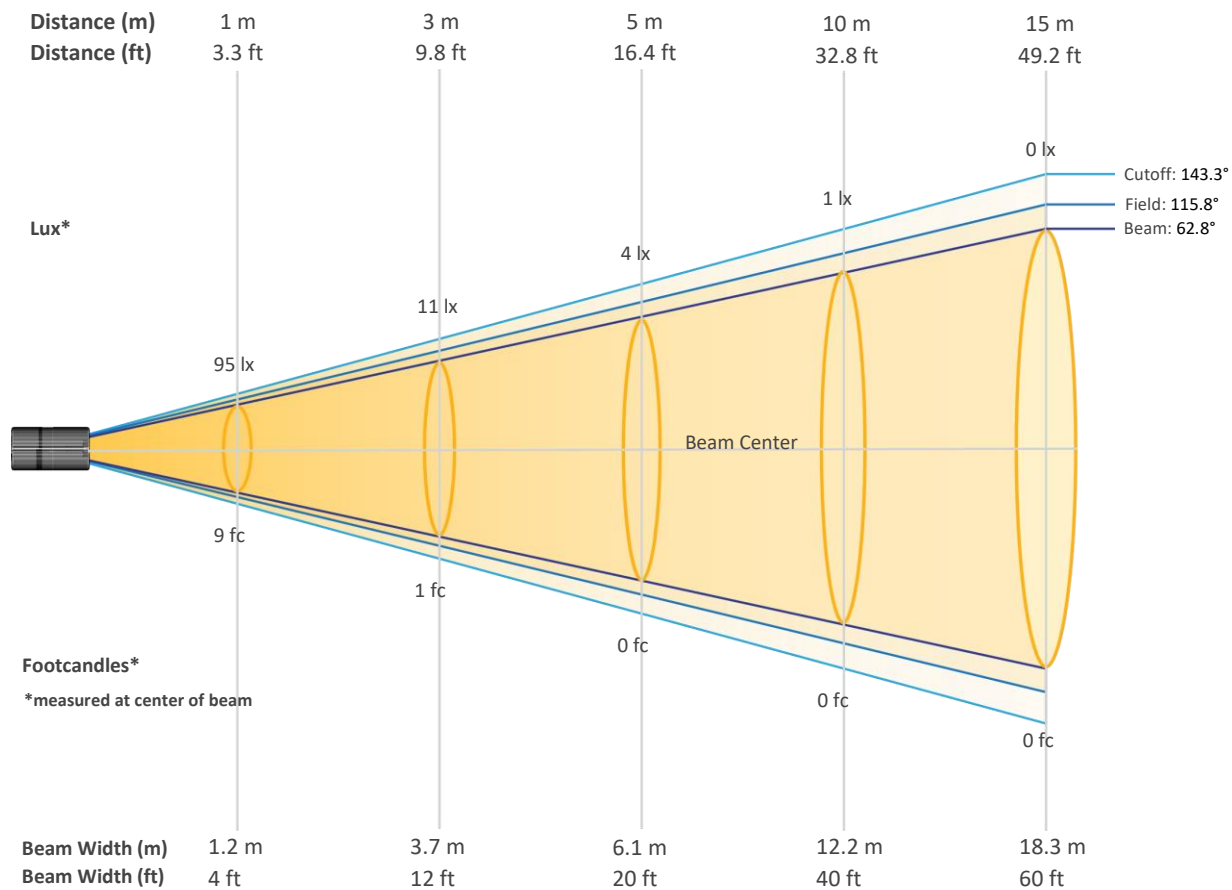
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - Green Only

## Beam Details



### Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	95	24	11	6	4	3	2	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	9	2	1	1	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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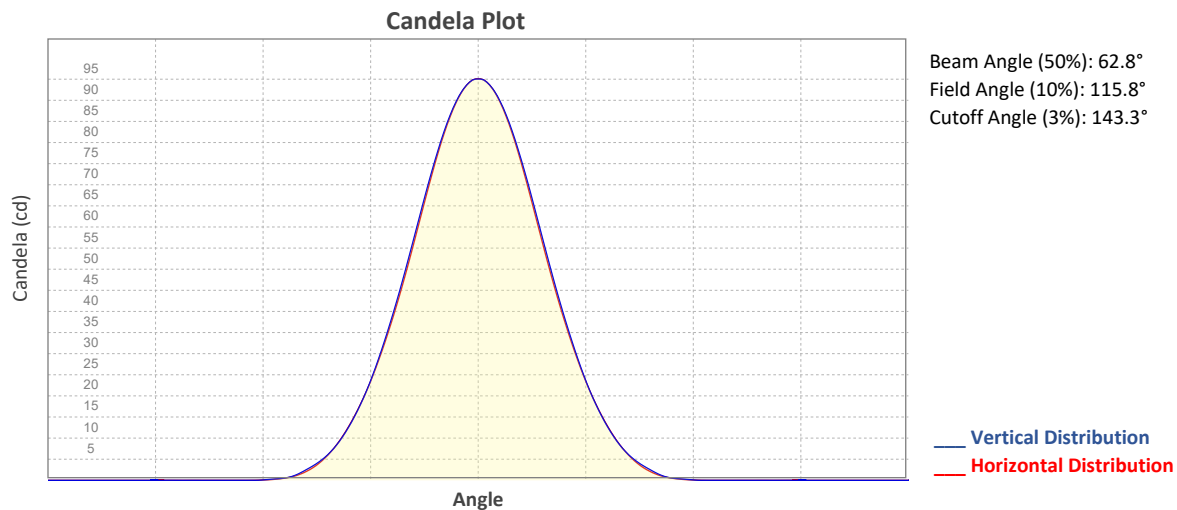
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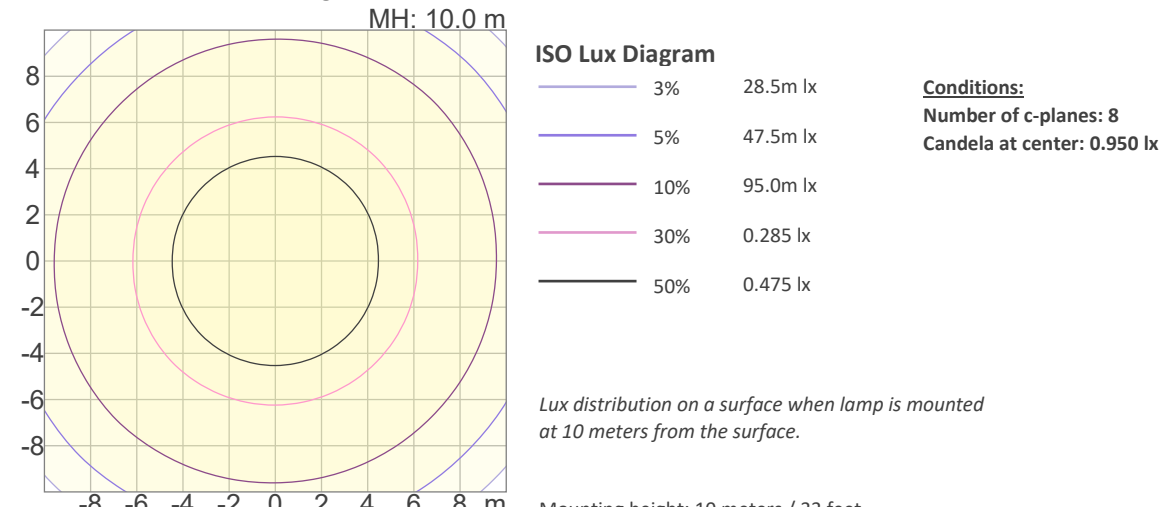
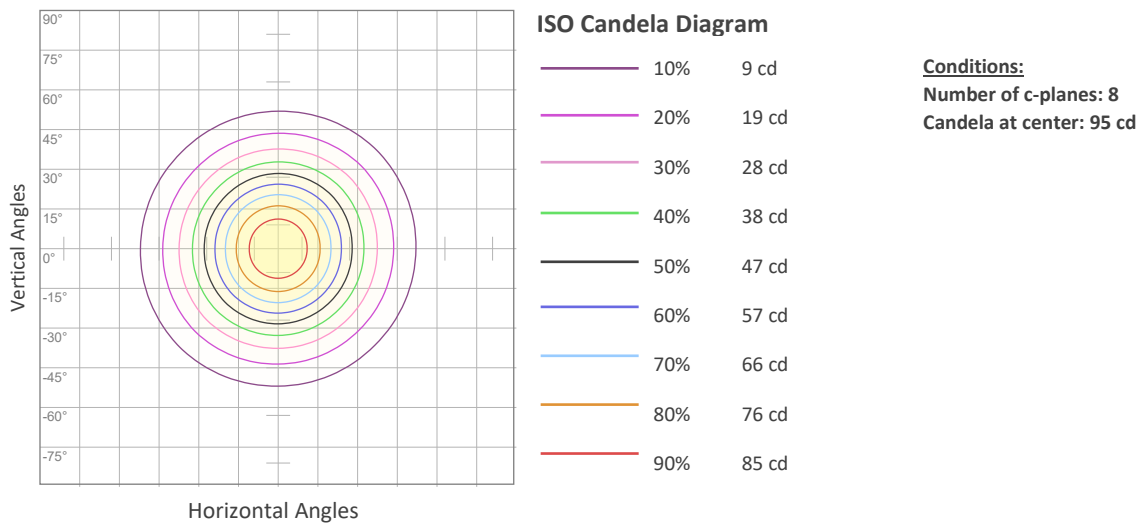
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - Green Only



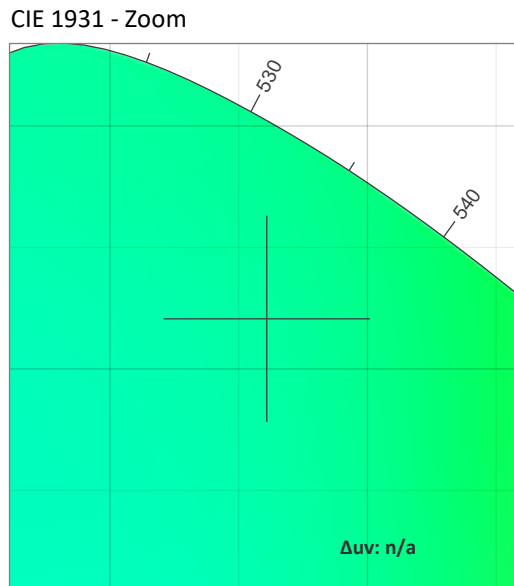
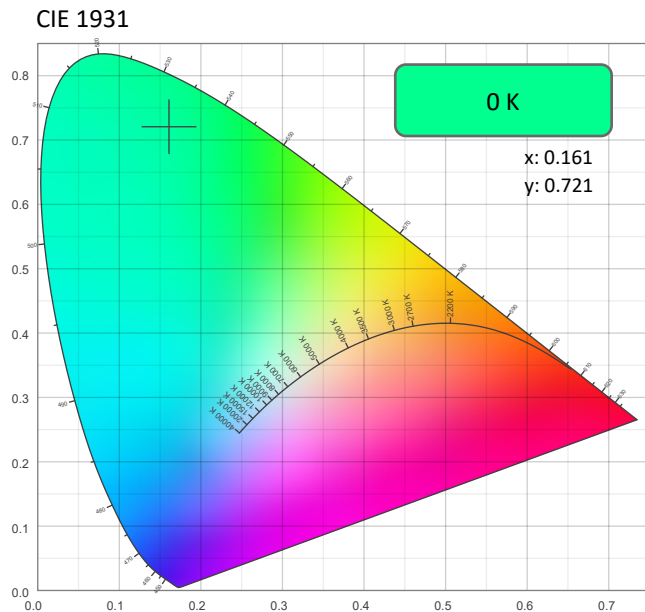
## ISO Diagrams



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - Green Only

## Chromaticity



### CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

### CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.161	0.721

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
n/a	0.721	0.057

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

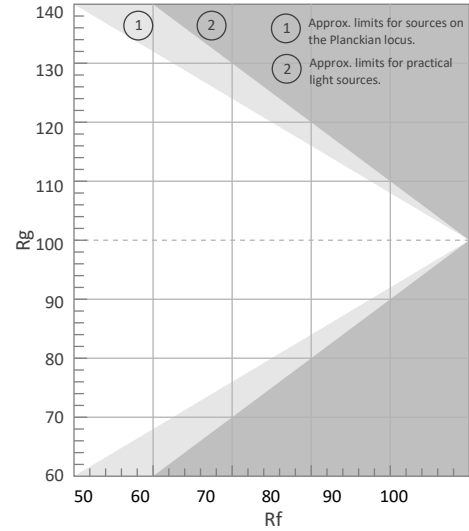
Logic MR16 Downlight S: Medium Filter Lens - Green Only

## TM-30 Details

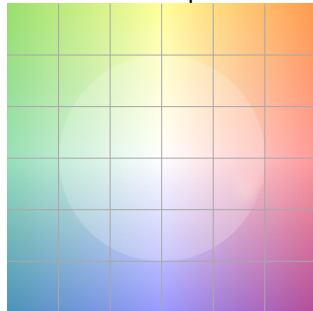
**Rf 0.0**  
Fidelity Index (Rg)

**Rg 0.0**  
Gammut Index (Rg)

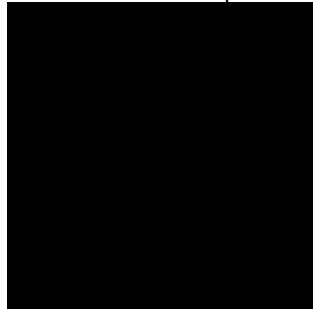
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



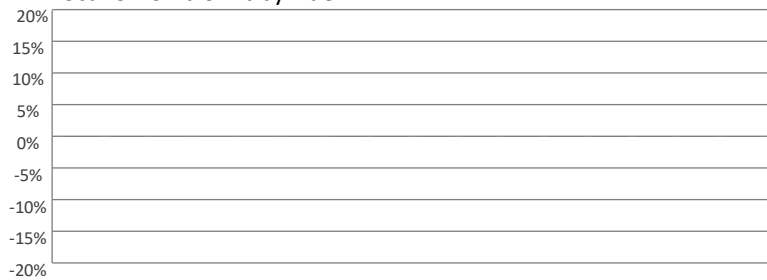
Color Distortion Graphic



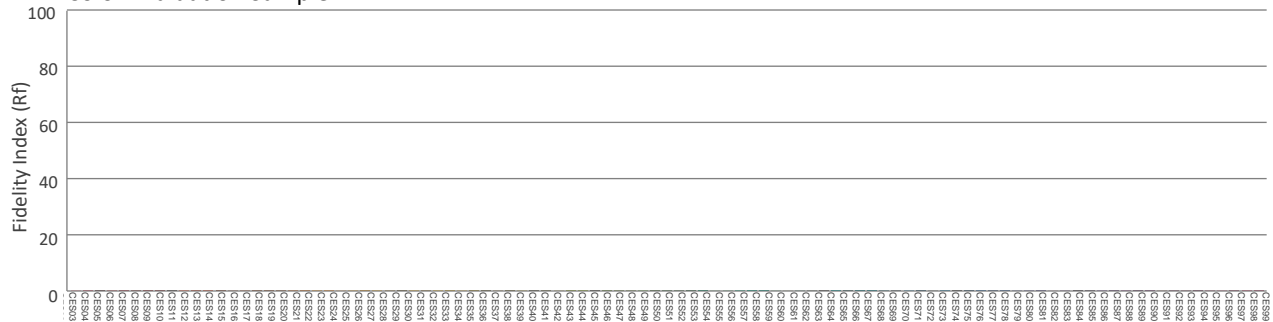
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample





# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - Blue Only

## Report Summary

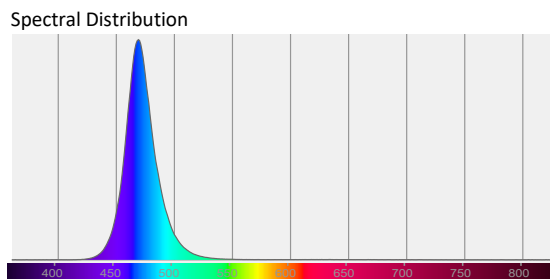
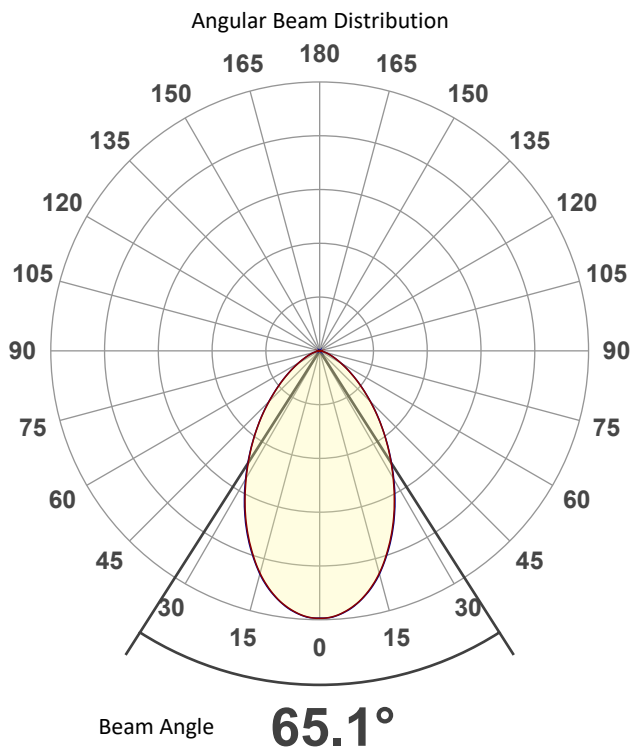
### Measurements

Fixture Output: 37.0 lm  
Fixture Peak: 27.5 cd  
Fixture Efficacy: 3 lm/W  
Intensity @ 5m: 1 lux  
Color Temperature: 0 K  
CRI: 0.0      CRI R9 Value: 0.0  
CQS: 0.0  
TLCl: n/a  
TM-30 Rf: 0.0  
TM-30 Rg: 0.0  
Beam Angle (50%): 65.1°  
Field Angle (10%): 118.1°  
Cutoff Angle (3%): 146.2°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 17.52 W  
Current: 0.145 A  
Power Factor: 0.82



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

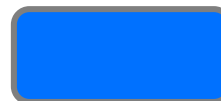
## Overall Measurement



Tested Color (CIE 1931):

X: 0.126

Y: 0.085



Light Quality

CRI: 0.0

Color Temperature

0 K

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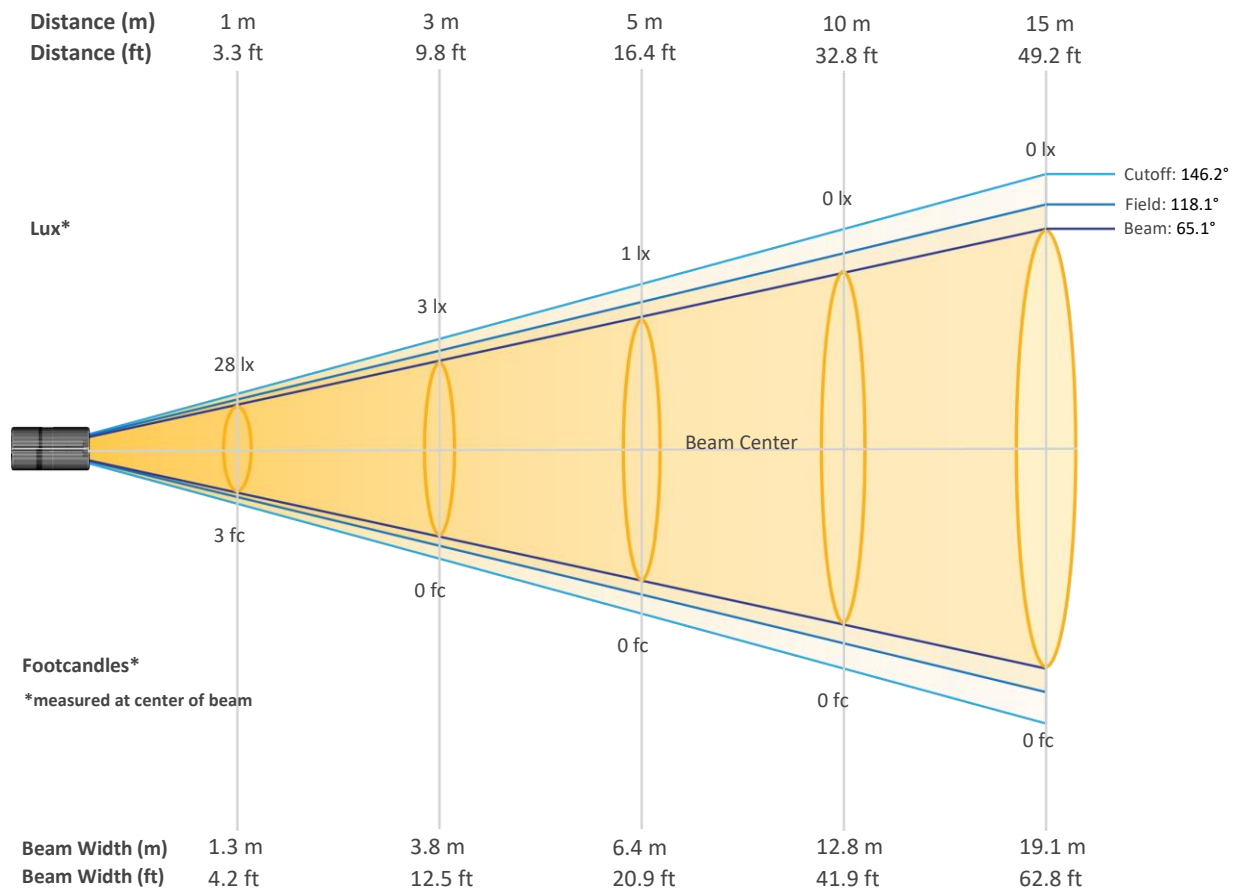
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - Blue Only

## Beam Details



### Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	28	7	3	2	1	1	1	0	0	0
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	0	0	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	3	1	0	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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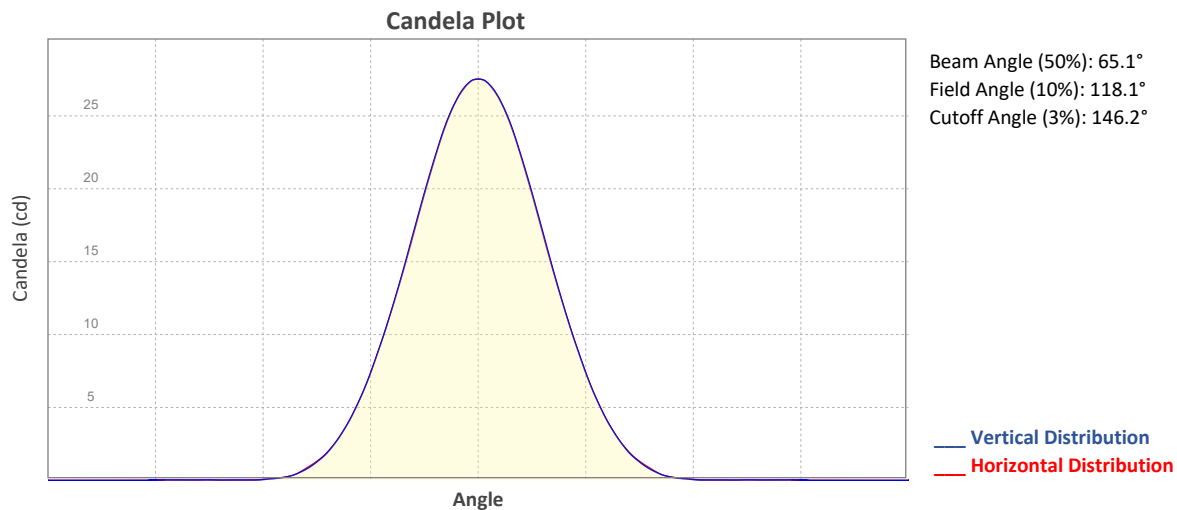
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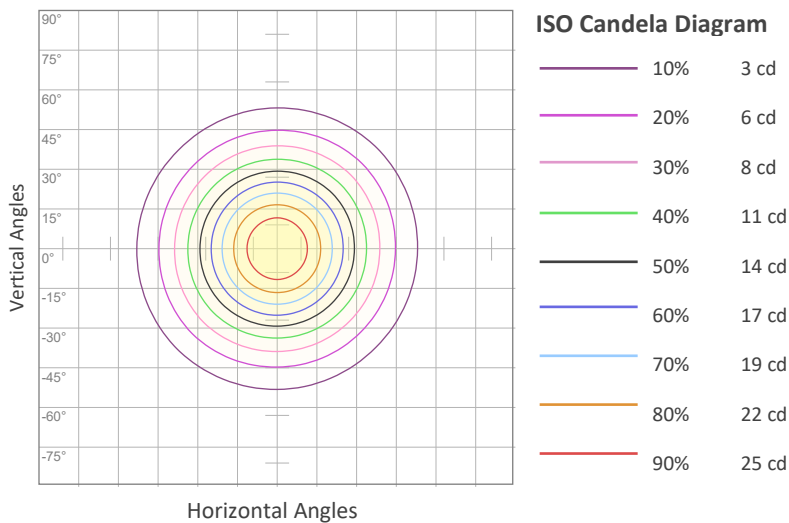
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# Photometric & Chromaticity Report

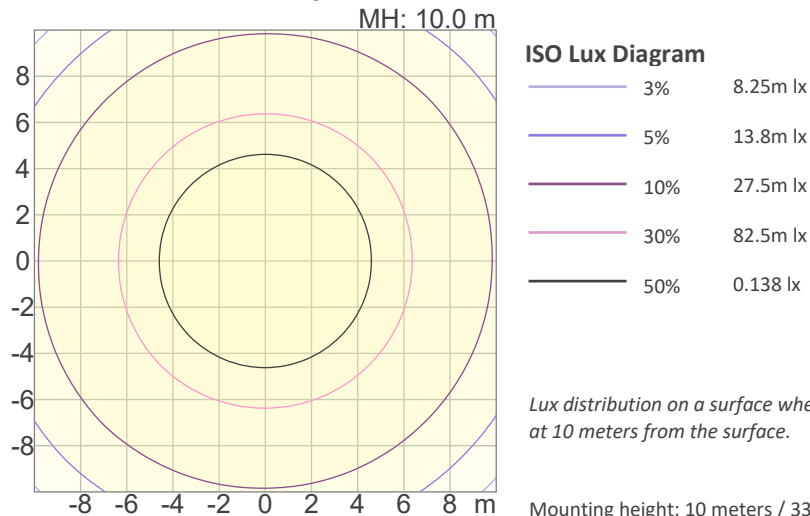
Logic MR16 Downlight S: Medium Filter Lens - Blue Only



## ISO Diagrams



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 28 cd



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 0.275 lx

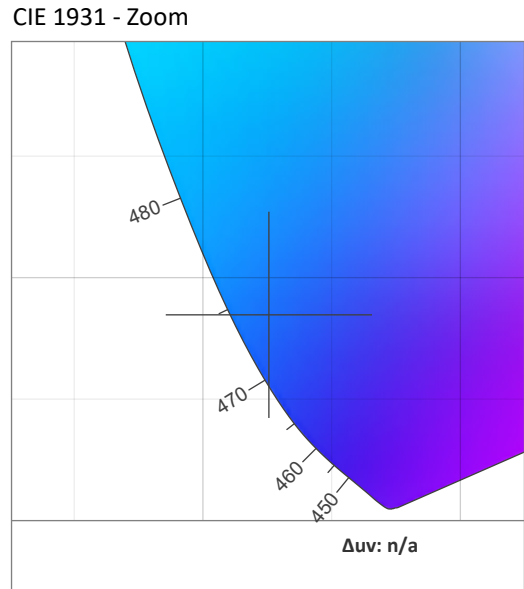
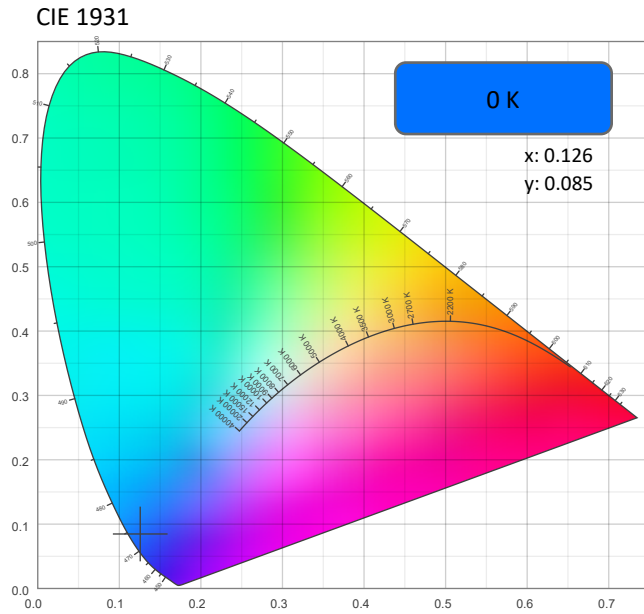
*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

Mounting height: 10 meters / 33 feet

# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - Blue Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.126	0.085

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
n/a	0.085	0.133

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

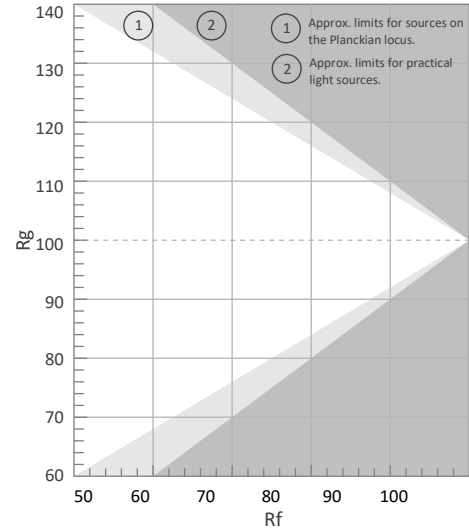
Logic MR16 Downlight S: Medium Filter Lens - Blue Only

## TM-30 Details

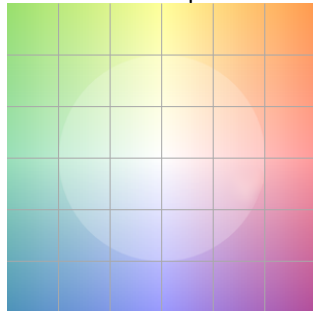
**Rf 0.0**  
Fidelity Index (Rg)

**Rg 0.0**  
Gammut Index (Rg)

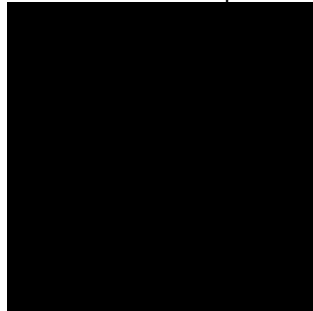
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



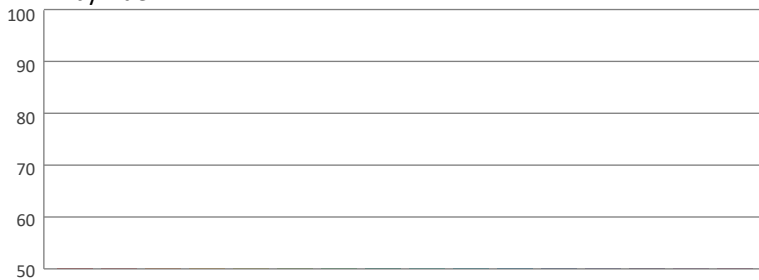
Color Vector Graphic



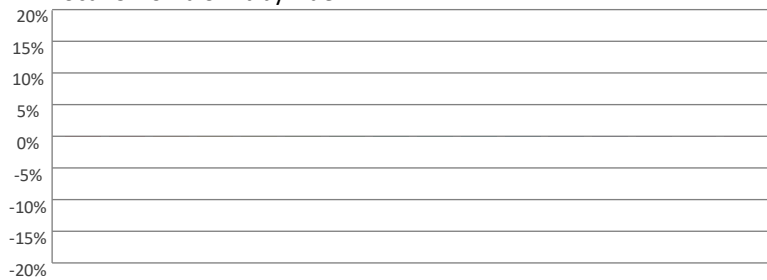
Color Distortion Graphic



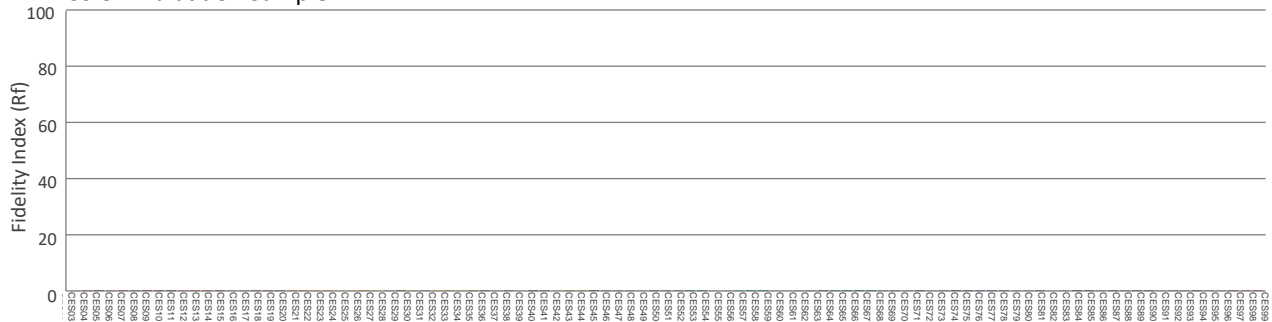
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - Warm White Only

## Report Summary

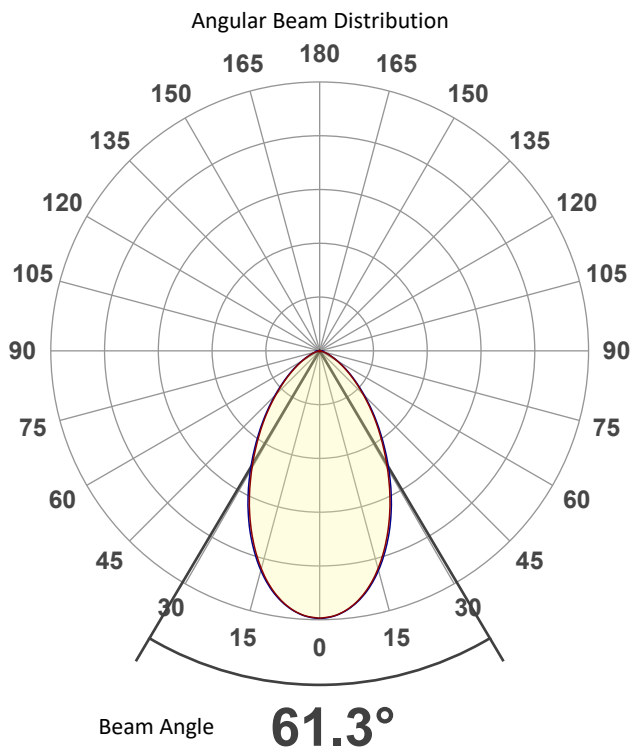
### Measurements

Fixture Output: 93.5 lm  
Fixture Peak: 76.1 cd  
Fixture Efficacy: 7 lm/W  
Intensity @ 5m: 3 lux  
Color Temperature: 3081 K  
CRI: 92.3      CRI R9 Value: 71.4  
CQS: 90.6  
TLCI: 91  
TM-30 Rf: 90.9  
TM-30 Rg: 102.6  
Beam Angle (50%): 61.3°  
Field Angle (10%): 114.1°  
Cutoff Angle (3%): 141.4°  
Conditions  
AC Supply: 121 V, 60 Hz  
Power: 17.37 W  
Current: 0.144 A  
Power Factor: 0.81



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.433  
Y: 0.406

Light Quality  
CRI: 92.3

Color Temperature  
3081 K

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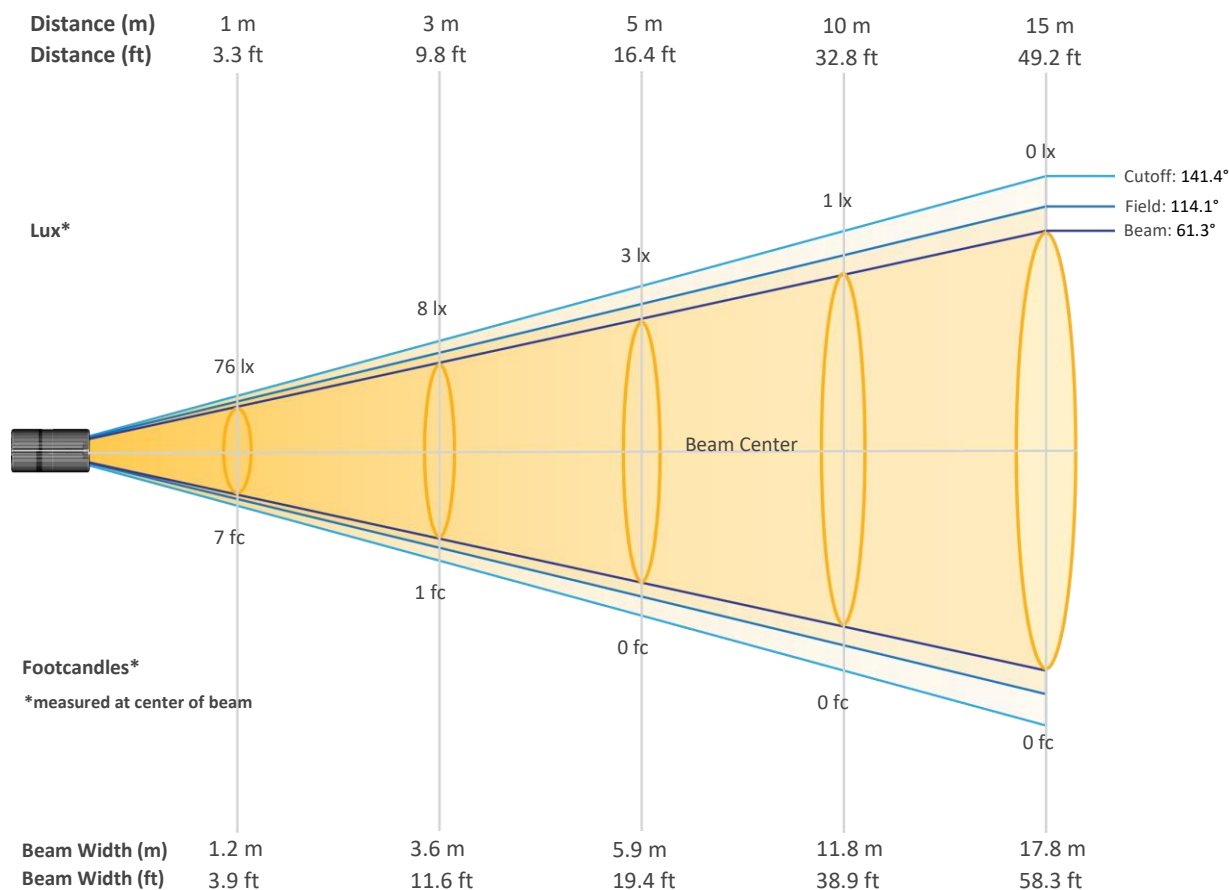
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - Warm White Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	76	19	8	5	3	2	2	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	7	2	1	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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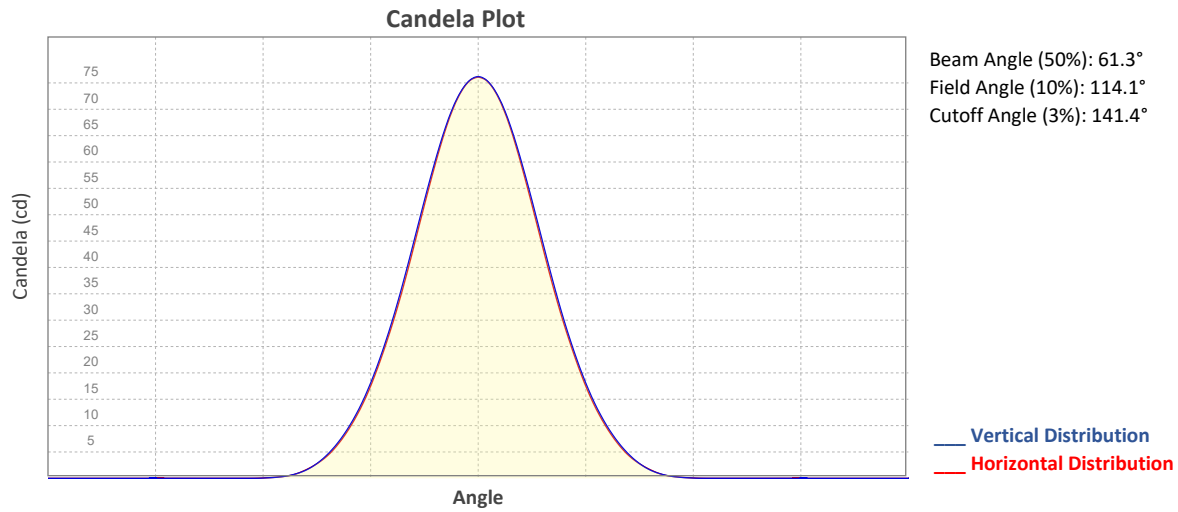
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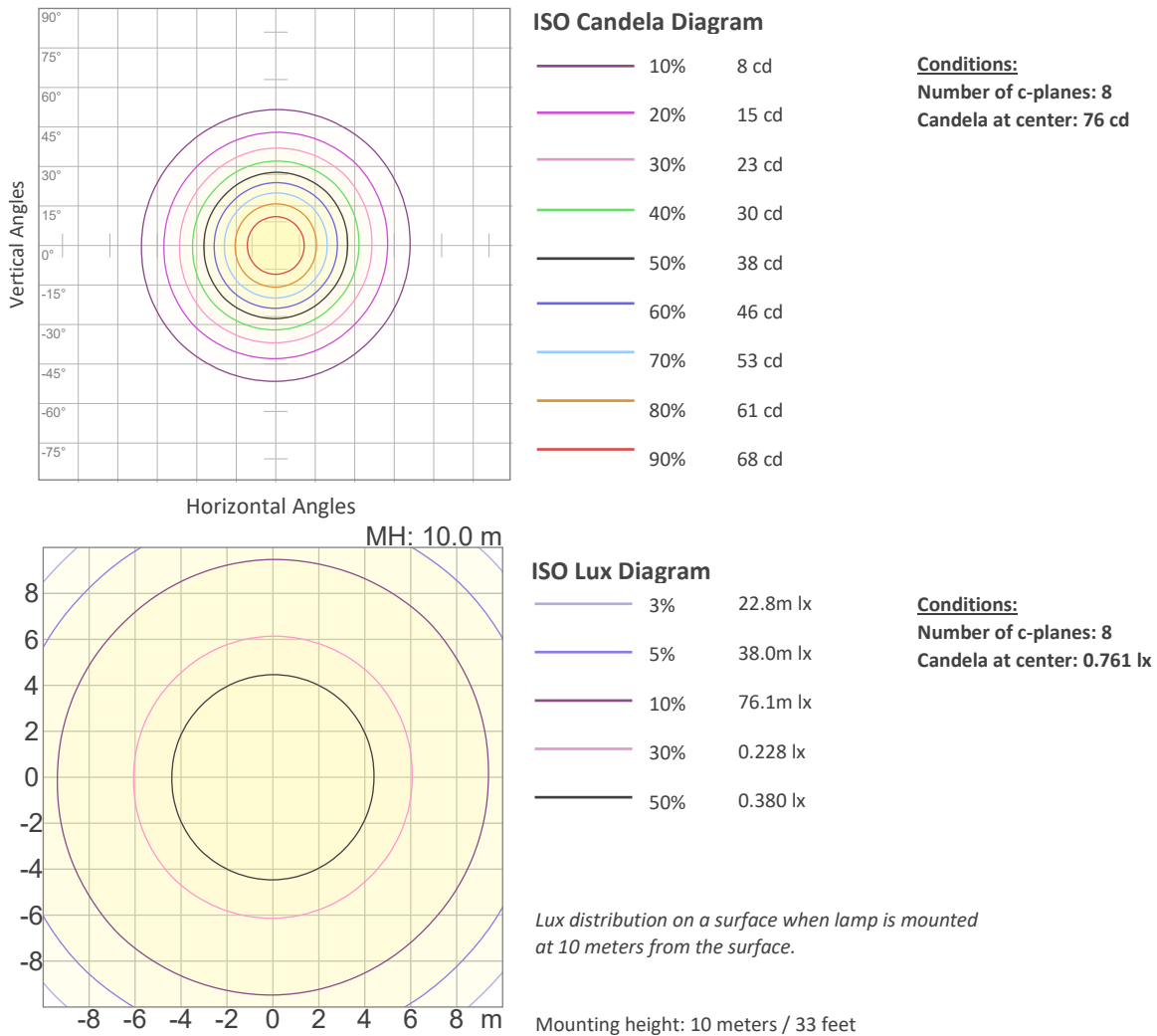
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - Warm White Only



## ISO Diagrams

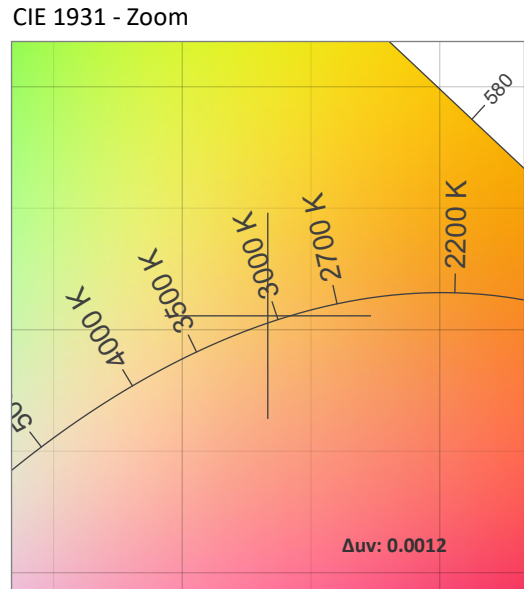
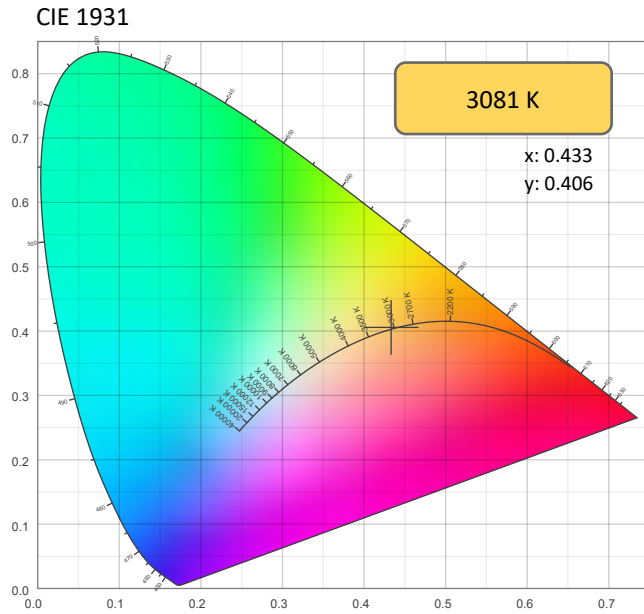




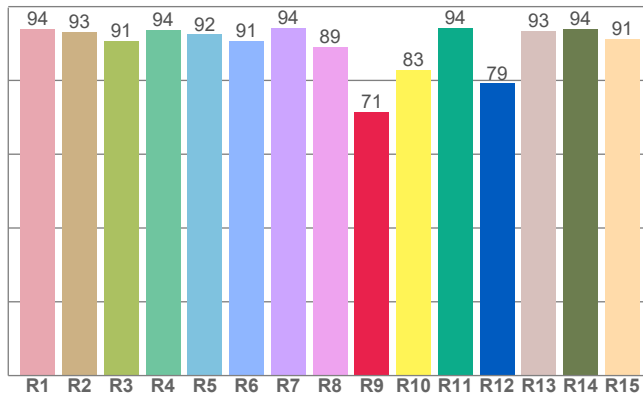
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - Warm White Only

## Chromaticity



CRI: 92.3 (R1-R8)

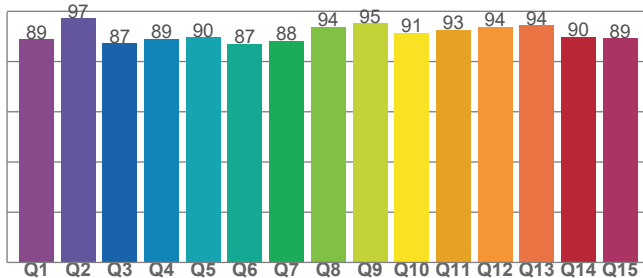


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3081 K	0.433	0.406

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0012	0.406	0.247

CQS: 90.6



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
92.3	71.4	90.6

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
91	90.9	102.6

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# Photometric & Chromaticity Report

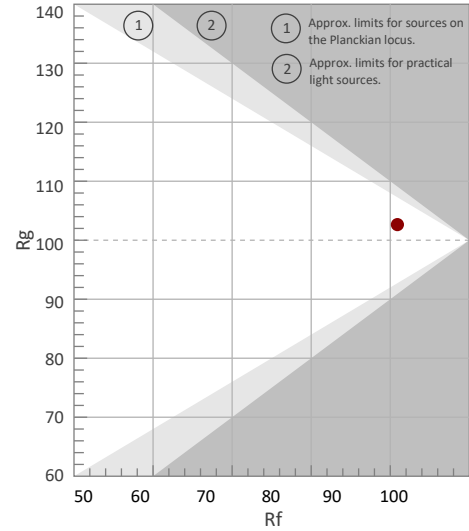
Logic MR16 Downlight S: Medium Filter Lens - Warm White Only

## TM-30 Details

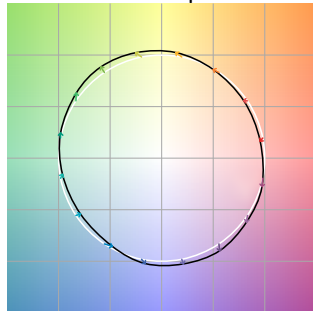
**Rf 90.9**  
Fidelity Index (Rg)

**Rg 102.6**  
Gammut Index (Rg)

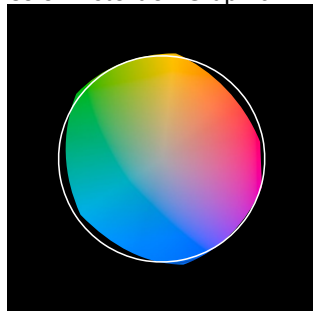
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	-3%	-2%
2	94	-3%	2%
3	88	-1%	6%
4	89	3%	6%
5	92	5%	5%
6	90	6%	0%
7	88	4%	-6%
8	93	1%	-5%
9	93	-3%	-3%
10	91	-4%	1%
11	88	-2%	8%
12	91	3%	4%
13	93	5%	1%
14	91	6%	-3%
15	90	3%	-6%
16	90	1%	-8%



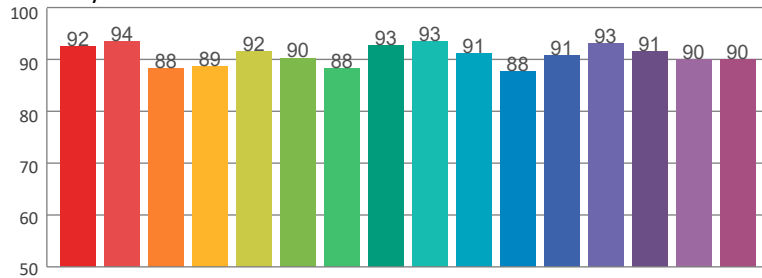
Color Vector Graphic



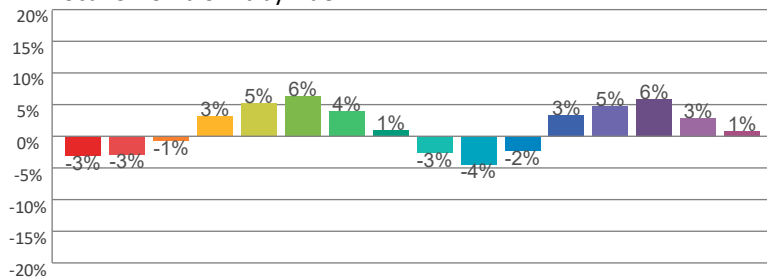
Color Distortion Graphic



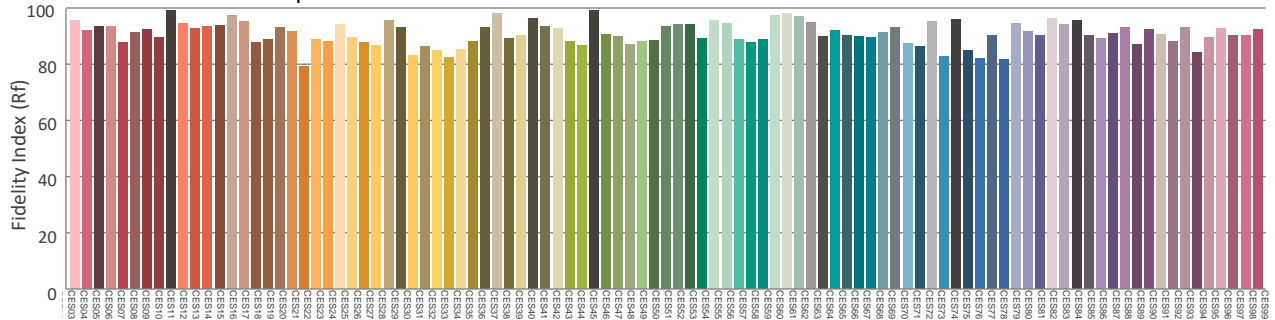
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 1800K

## Report Summary

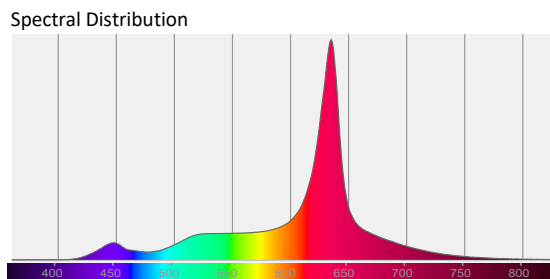
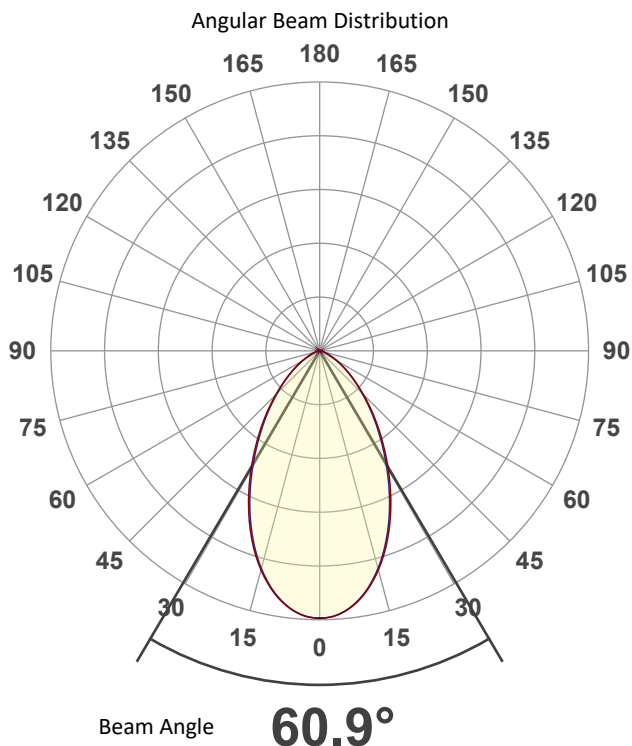
### Measurements


Fixture Output: 134 lm  
 Fixture Peak: 111 cd  
 Fixture Efficacy: 9 lm/W  
 Intensity @ 5m: 4 lux  
 Color Temperature: 1860 K  
 CRI: 71.2      CRI R9 Value: 43.1  
 CQS: 65.3  
 TLCI: 46  
 TM-30 Rf: 72.7  
 TM-30 Rg: 125.4  
 Beam Angle (50%): 60.9°  
 Field Angle (10%): 113.4°  
 Cutoff Angle (3%): 140.7°  
**Conditions**  
 AC Supply: 120 V, 60 Hz  
 Power: 18.6 W  
 Current: 0.155 A  
 Power Factor: 0.84



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

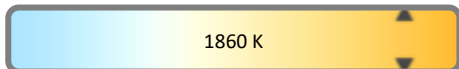
## Overall Measurement



Tested Color (CIE 1931):   
 X: 0.514  
 Y: 0.375

Light Quality  

 CRI: 71.2

Color Temperature  

 1860 K

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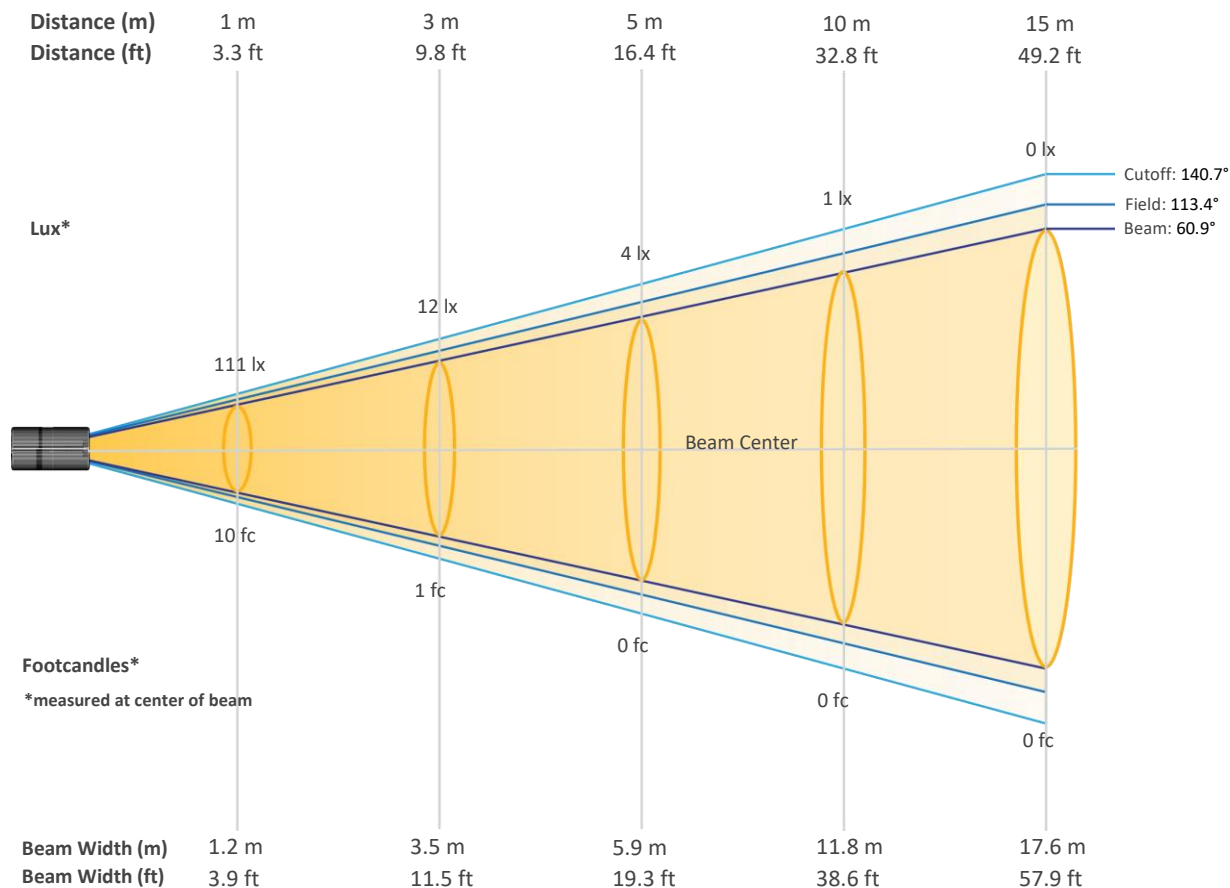
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 1800K

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	111	28	12	7	4	3	2	2	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	10	3	1	1	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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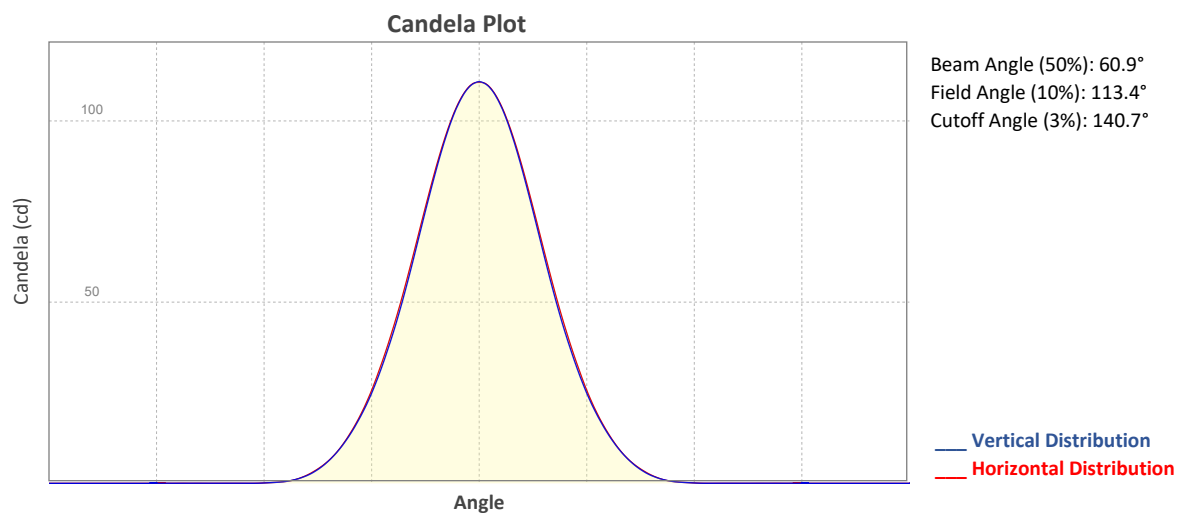
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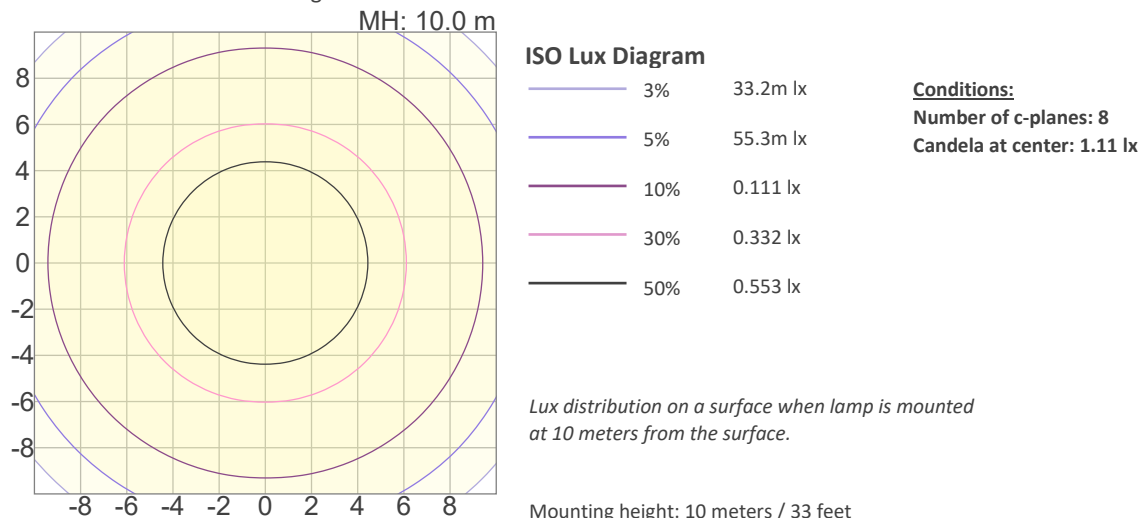
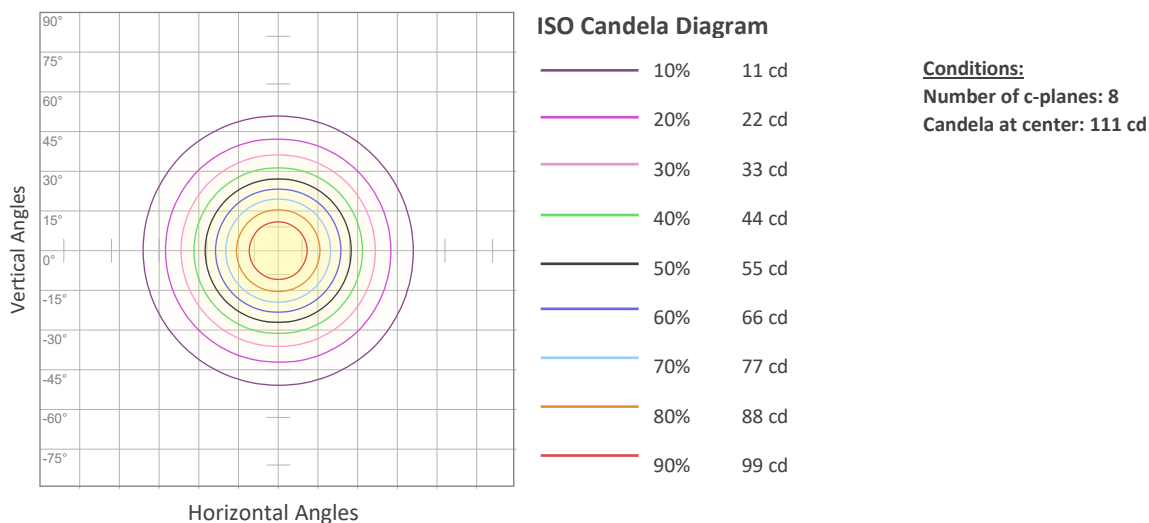
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 1800K



## ISO Diagrams



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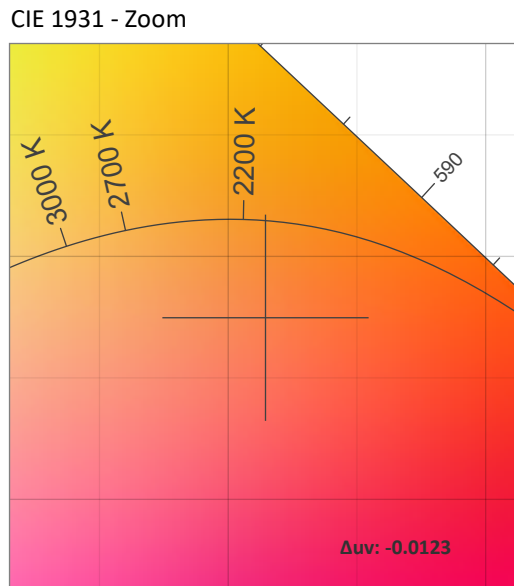
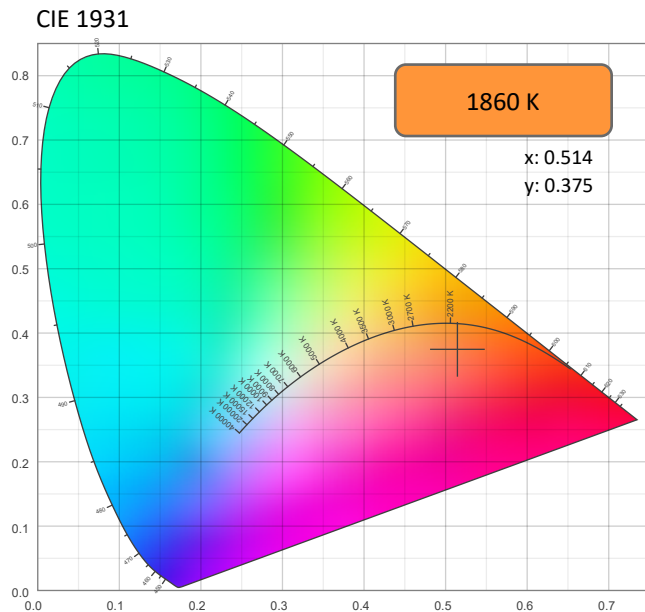
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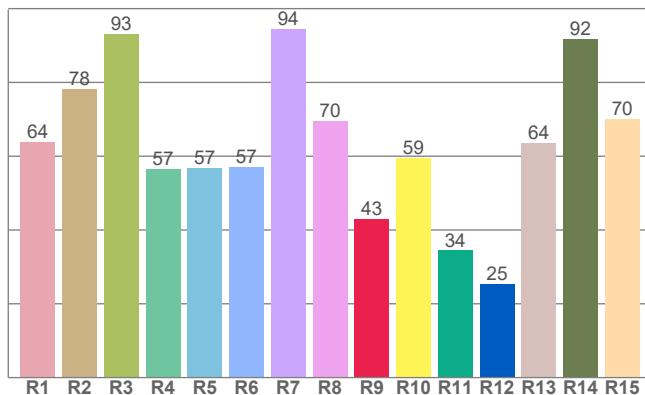
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 1800K

## Chromaticity



CRI: 71.2 (R1-R8)

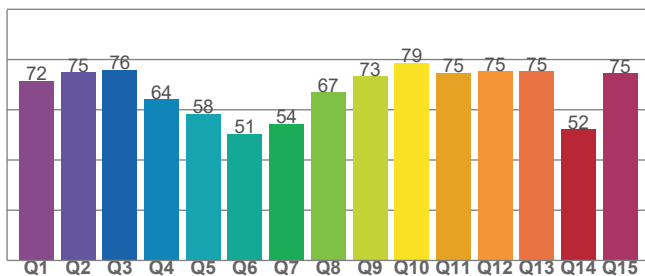


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
1860 K	0.514	0.375

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0123	0.375	0.318

CQS: 65.3



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
71.2	43.1	65.3

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
46	72.7	125.4

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# Photometric & Chromaticity Report

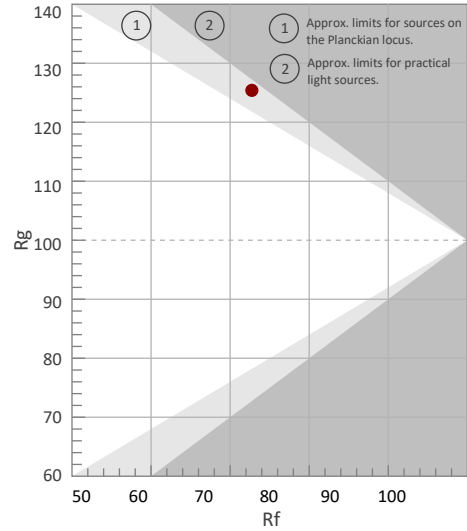
Logic MR16 Downlight S: Medium Filter Lens - 1800K

## TM-30 Details

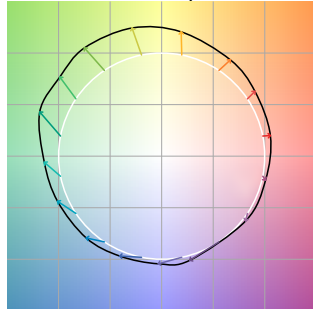
**Rf 72.7**  
Fidelity Index (Rg)

**Rg 125.4**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	79	7%	-1%
2	75	10%	2%
3	71	15%	-4%
4	72	22%	5%
5	75	28%	4%
6	66	29%	4%
7	62	25%	-9%
8	60	24%	-19%
9	63	13%	-16%
10	66	8%	-20%
11	72	7%	-17%
12	68	3%	-21%
13	76	2%	-24%
14	65	-1%	-33%
15	85	3%	-7%
16	88	3%	-3%



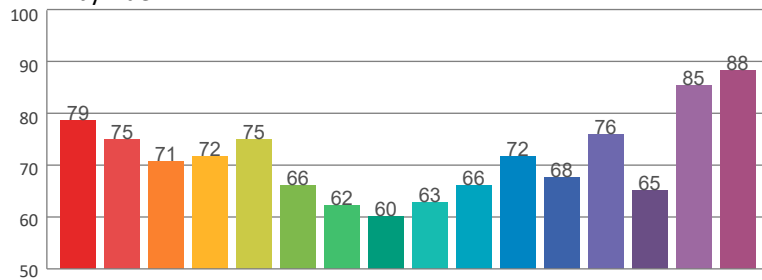
Color Vector Graphic



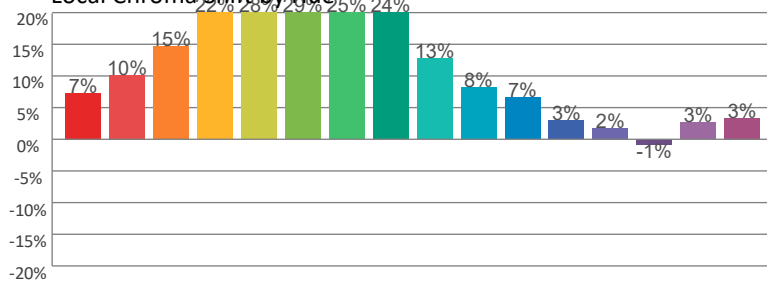
Color Distortion Graphic



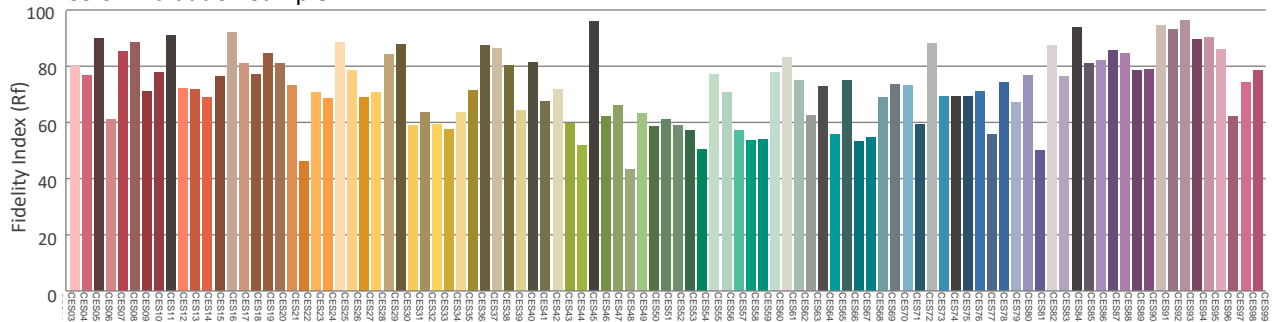
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 2200K

## Report Summary

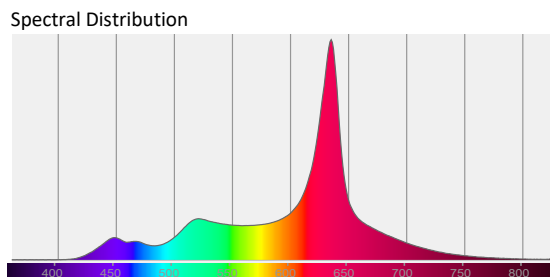
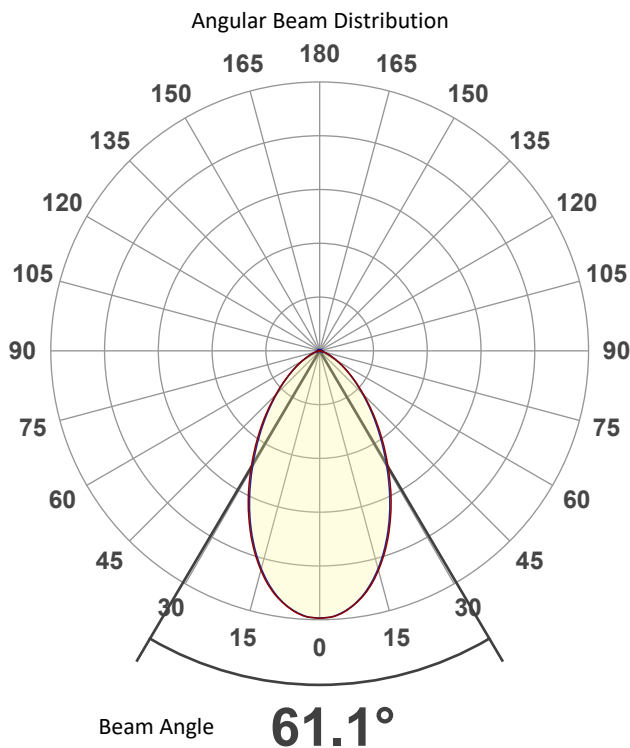
### Measurements

Fixture Output: 133 lm  
Fixture Peak: 109 cd  
Fixture Efficacy: 9 lm/W  
Intensity @ 5m: 4 lux  
Color Temperature: 2228 K  
CRI: 70.2      CRI R9 Value: 23.8  
CQS: 78.7  
TLCI: 58  
TM-30 Rf: 79.3  
TM-30 Rg: 118.1  
Beam Angle (50%): 61.1°  
Field Angle (10%): 113.6°  
Cutoff Angle (3%): 140.8°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 18.53 W  
Current: 0.154 A  
Power Factor: 0.84



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):

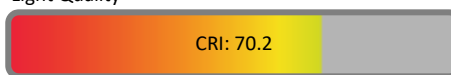
X: 0.481

Y: 0.383



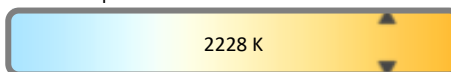
Light Quality

CRI: 70.2



Color Temperature

2228 K



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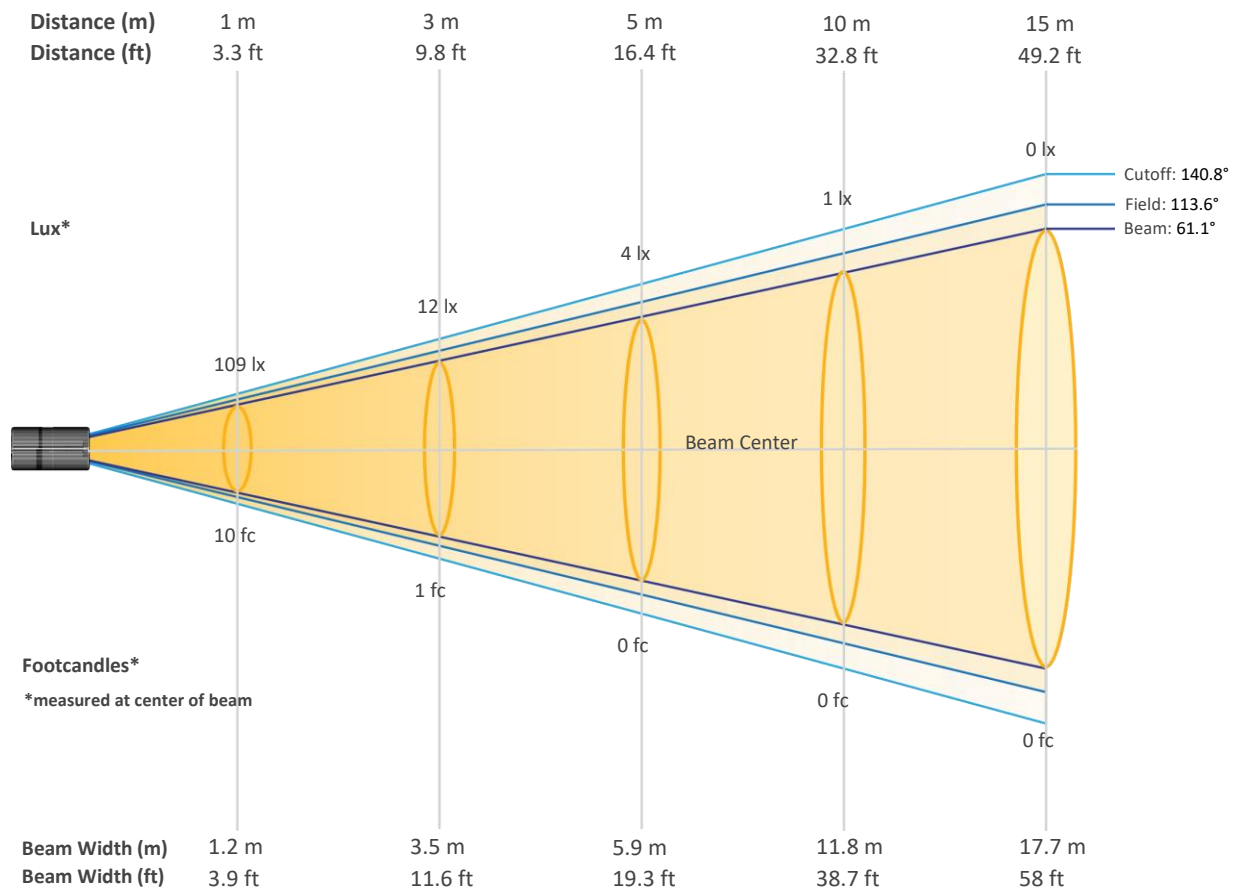
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 2200K

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	109	27	12	7	4	3	2	2	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	10	3	1	1	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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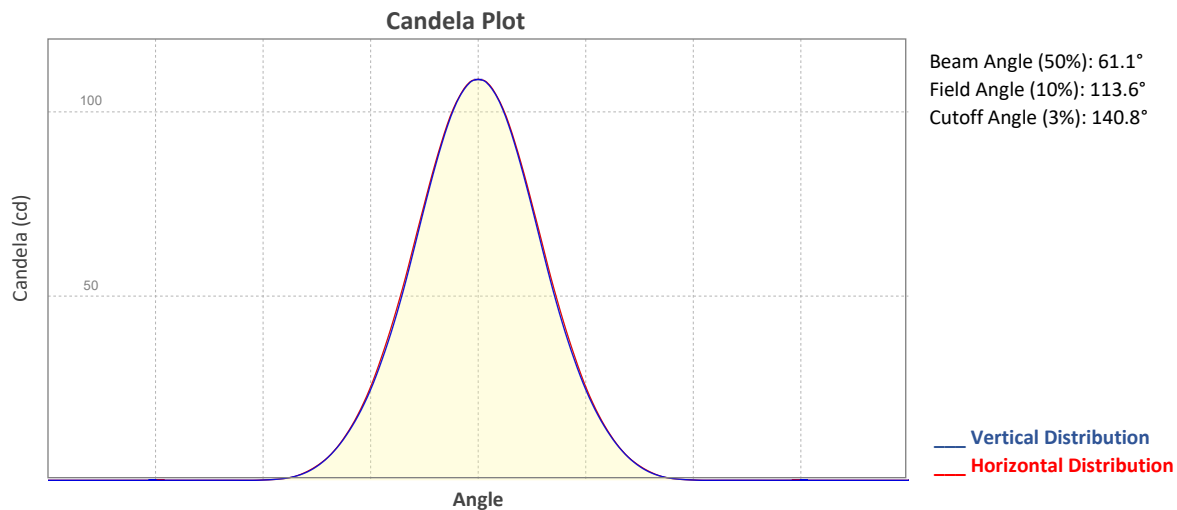
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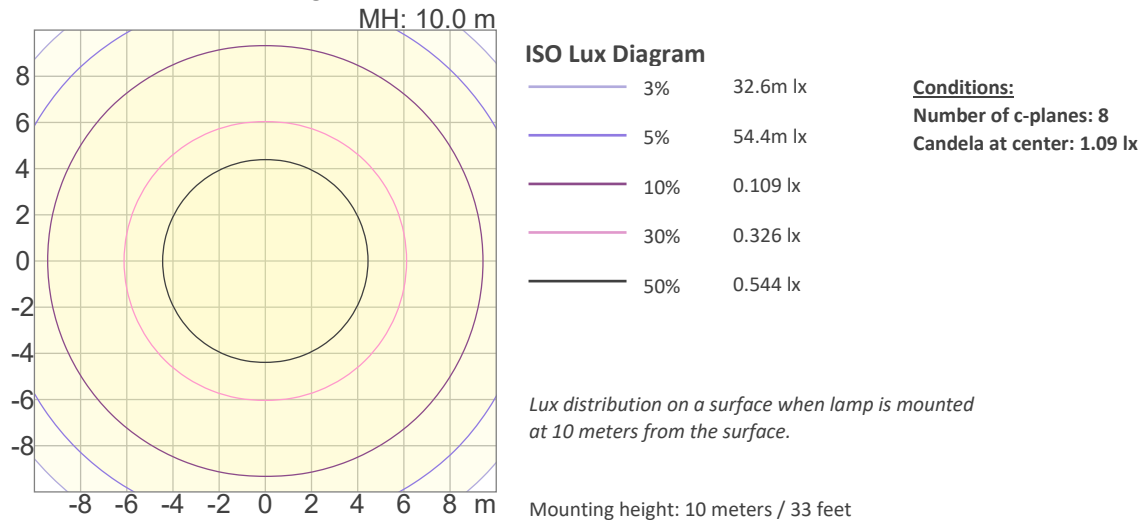
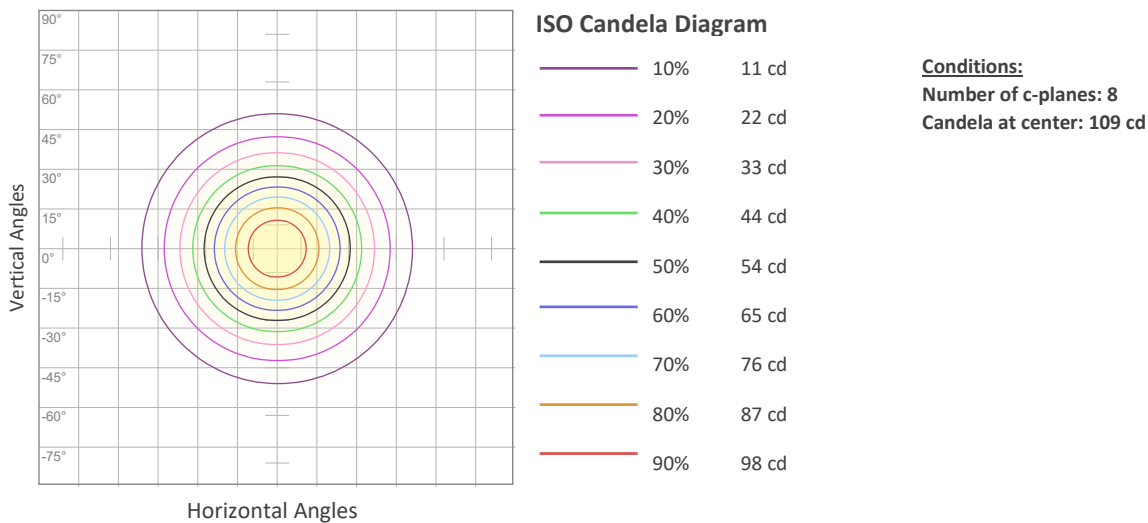
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 2200K



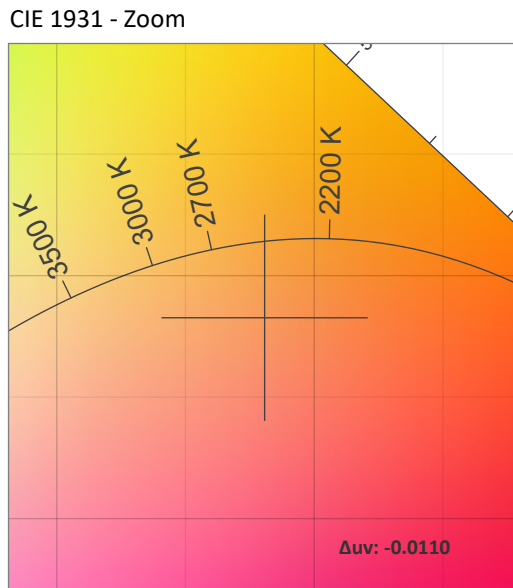
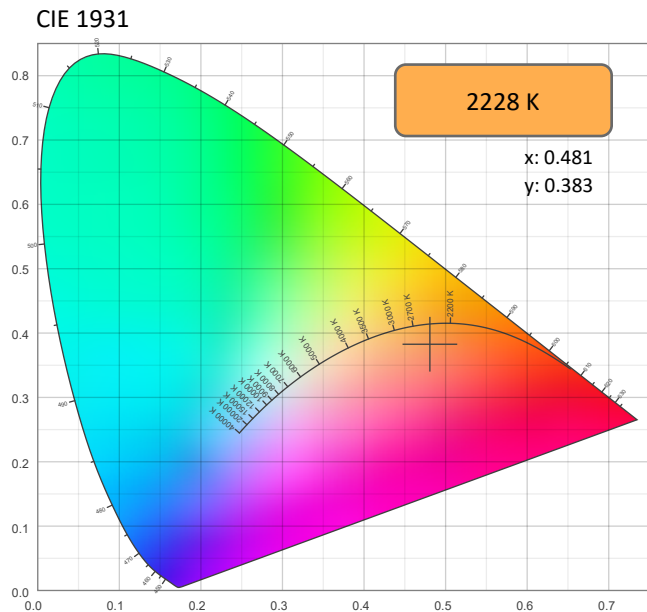
## ISO Diagrams



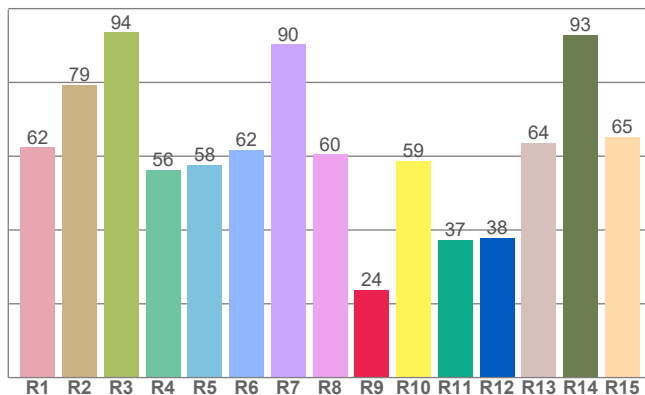
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 2200K

## Chromaticity



CRI: 70.2 (R1-R8)

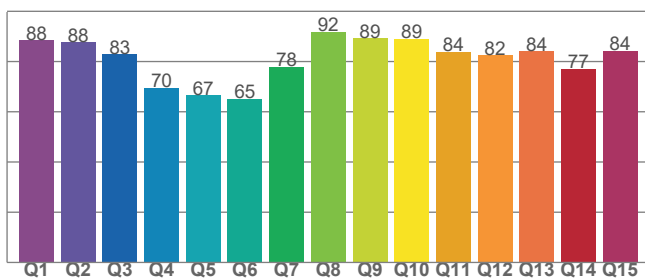


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2228 K	0.481	0.383

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0110	0.383	0.290

CQS: 78.7



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
70.2	23.8	78.7

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
58	79.3	118.1

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# Photometric & Chromaticity Report

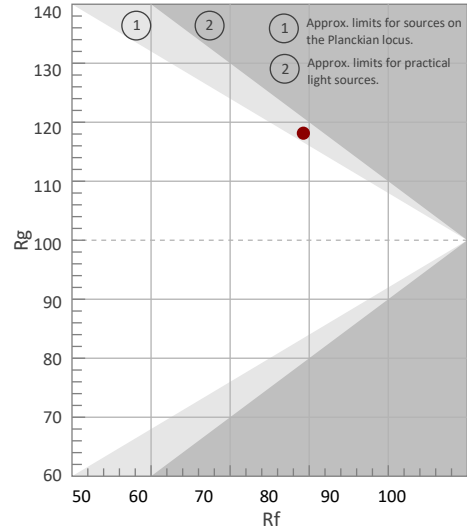
Logic MR16 Downlight S: Medium Filter Lens - 2200K

## TM-30 Details

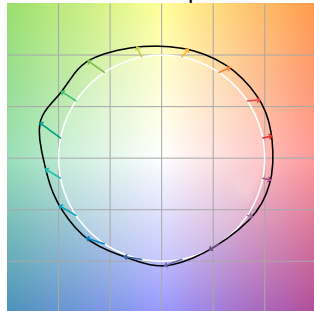
**Rf 79.3**  
Fidelity Index  
(Rg)

**Rg 118.1**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	80	9%	0%
2	78	10%	-6%
3	74	9%	-6%
4	85	8%	-5%
5	87	10%	3%
6	76	18%	7%
7	75	17%	0%
8	69	22%	-10%
9	70	12%	-11%
10	71	8%	-17%
11	74	5%	-17%
12	75	1%	-17%
13	83	3%	-17%
14	83	0%	-11%
15	89	4%	2%
16	88	8%	0%



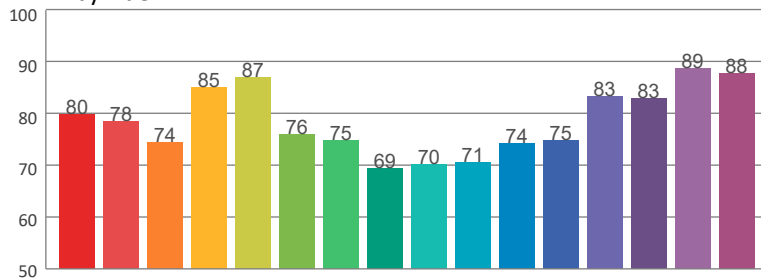
Color Vector Graphic



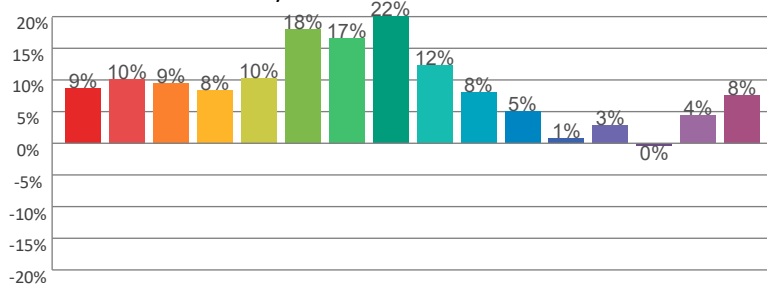
Color Distortion Graphic



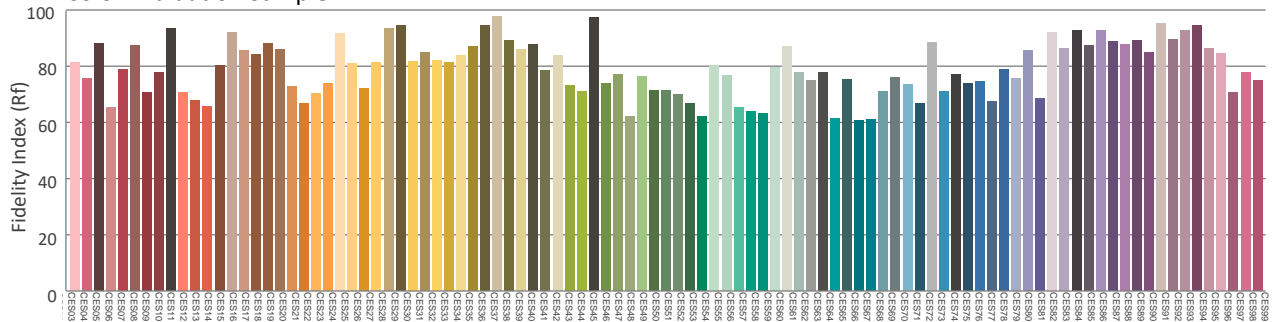
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 2700K

## Report Summary

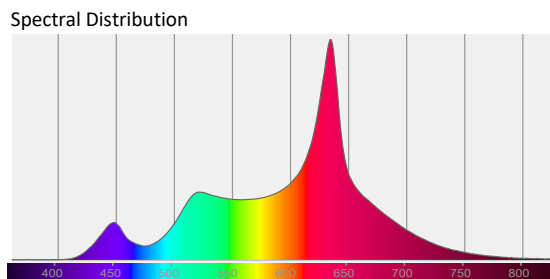
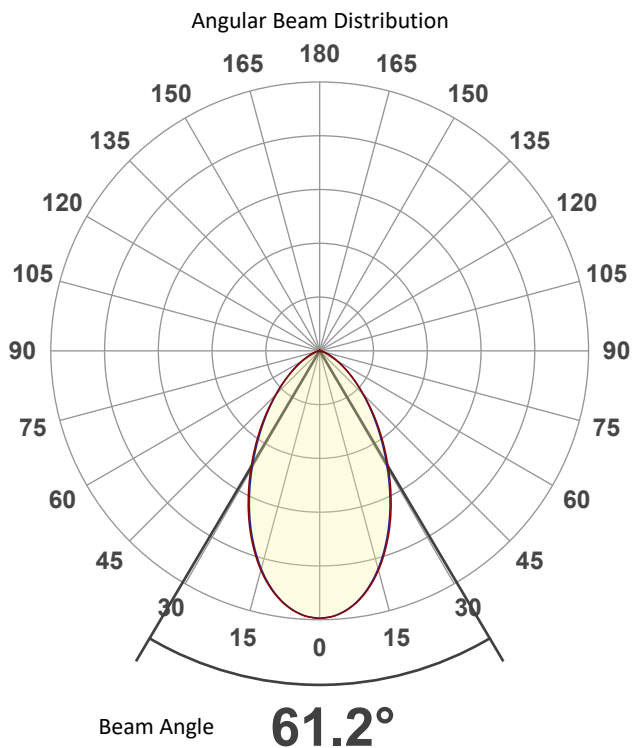
### Measurements

Fixture Output: 115 lm  
Fixture Peak: 94.0 cd  
Fixture Efficacy: 8 lm/W  
Intensity @ 5m: 4 lux  
Color Temperature: 2672 K  
CRI: 83.5      CRI R9 Value: 55.1  
CQS: 87.2  
TLCI: 77  
TM-30 Rf: 88.1  
TM-30 Rg: 110.2  
Beam Angle (50%): 61.2°  
Field Angle (10%): 113.8°  
Cutoff Angle (3%): 141°  
Conditions  
AC Supply: 121 V, 60 Hz  
Power: 17.97 W  
Current: 0.149 A  
Power Factor: 0.82



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.459  
Y: 0.406

Light Quality  
CRI: 83.5

Color Temperature  
2672 K

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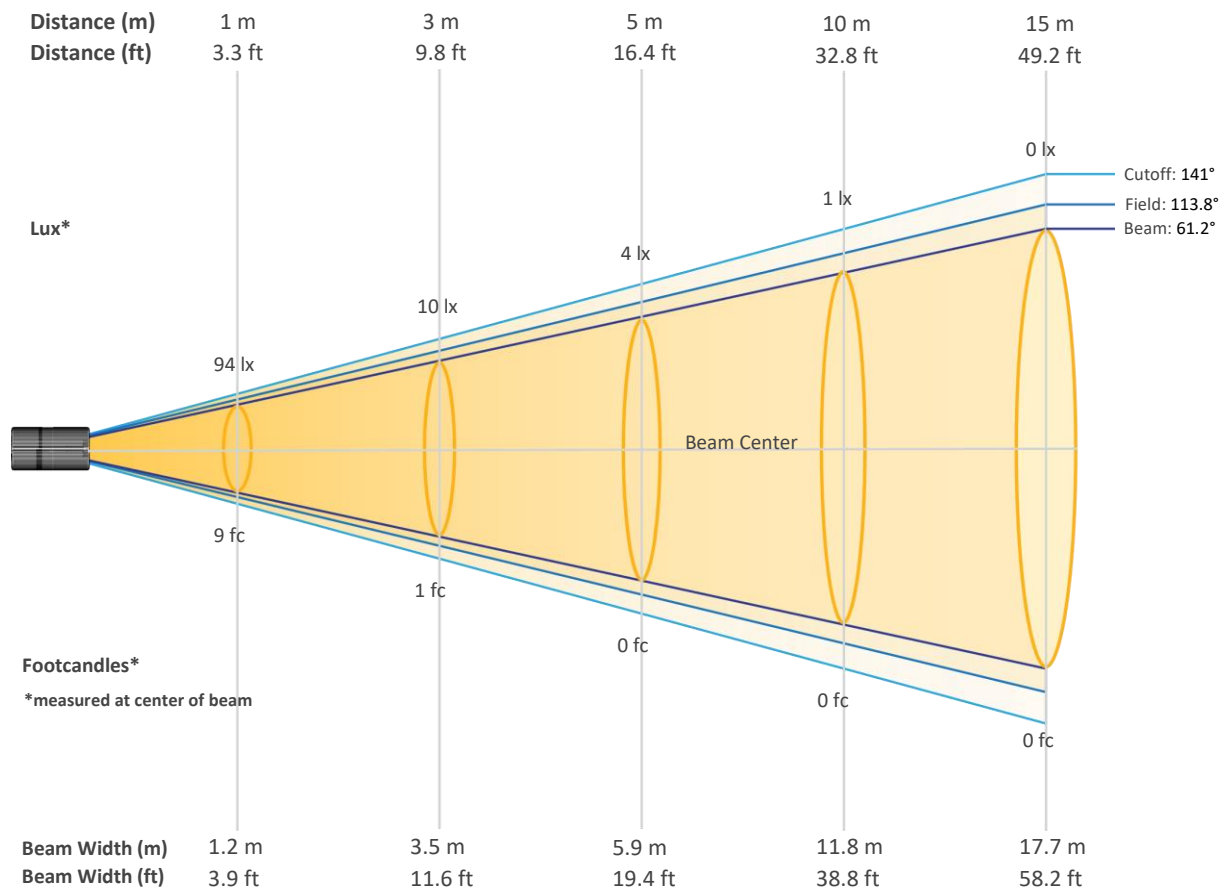
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 2700K

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	94	23	10	6	4	3	2	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	9	2	1	1	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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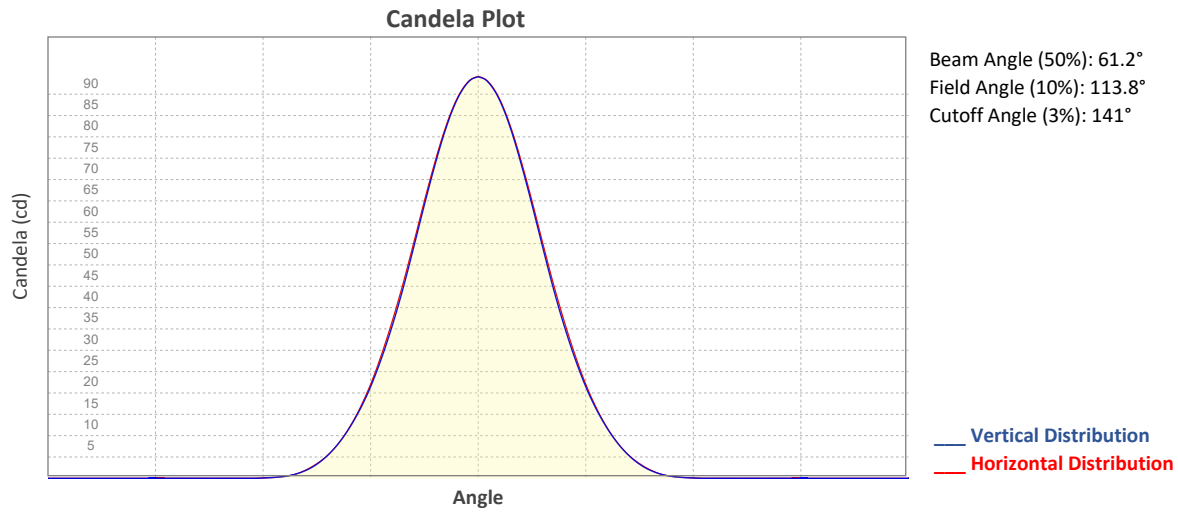
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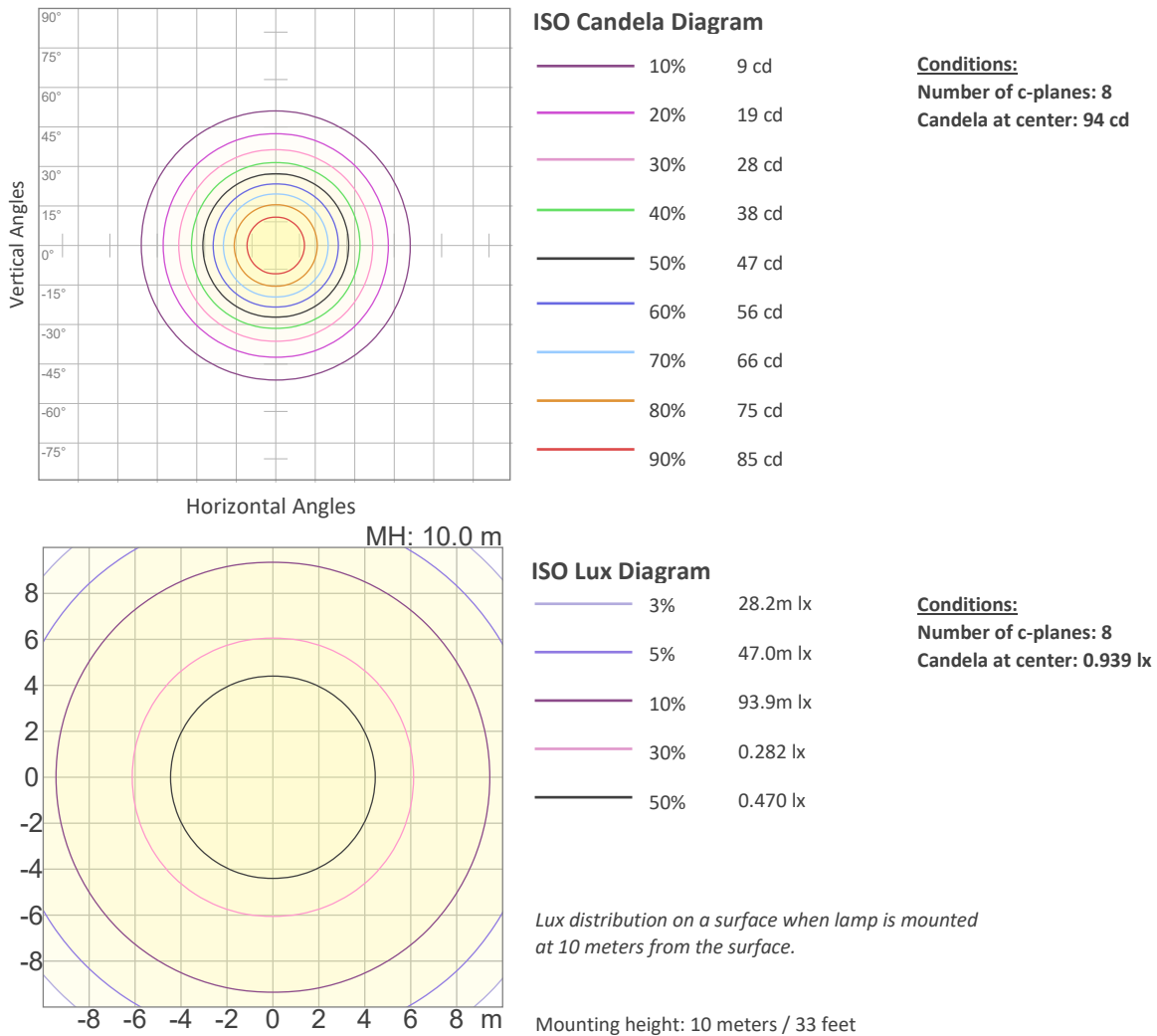
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 2700K



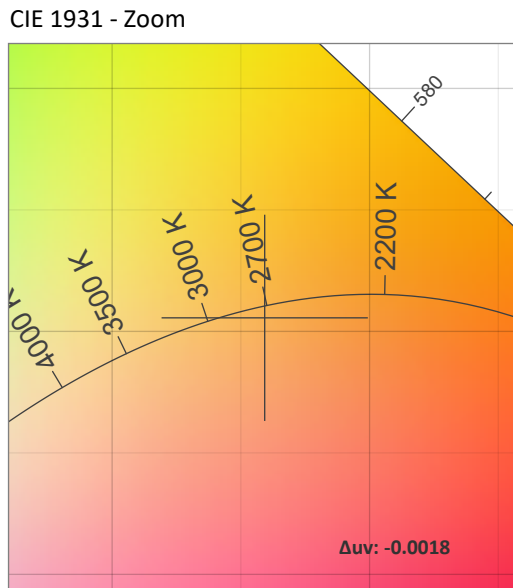
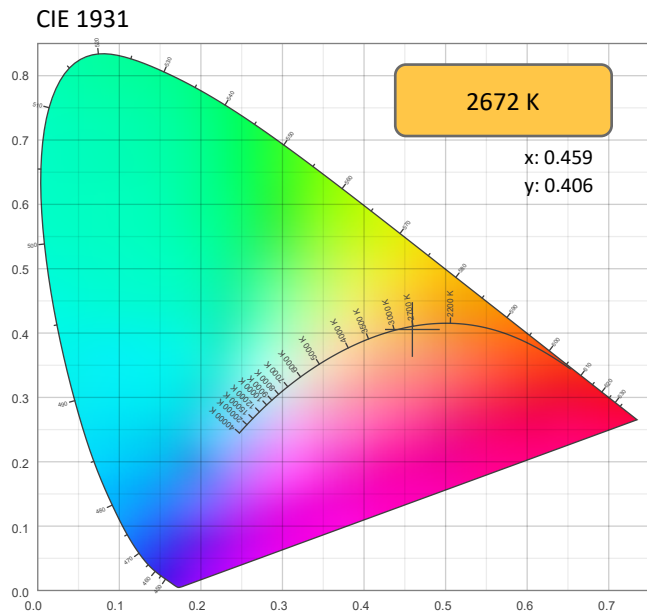
## ISO Diagrams



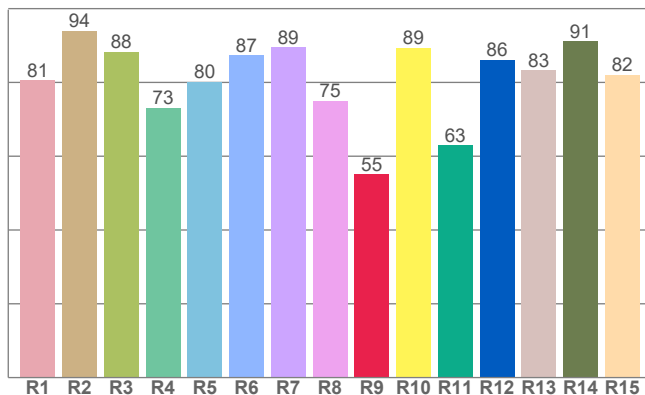
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 2700K

## Chromaticity



CRI: 83.5 (R1-R8)

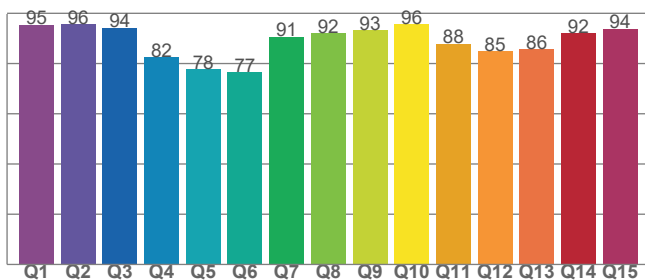


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2672 K	0.459	0.406

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0018	0.406	0.264

CQS: 87.2



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
83.5	55.1	87.2

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
77	88.1	110.2

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# Photometric & Chromaticity Report

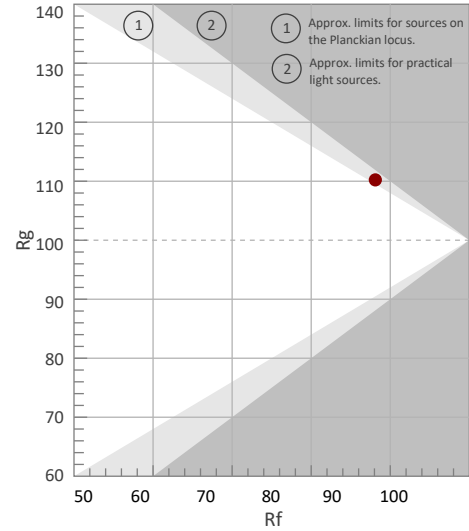
Logic MR16 Downlight S: Medium Filter Lens - 2700K

## TM-30 Details

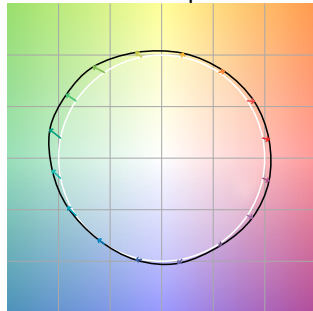
**Rf 88.1**  
Fidelity Index (Rg)

**Rg 110.2**  
Gammut Index (Rg)

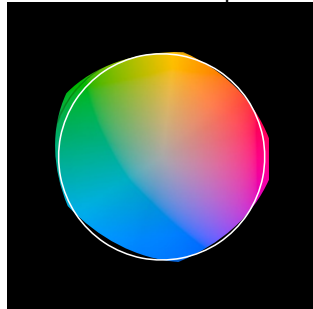
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	87	6%	-3%
2	87	5%	-4%
3	88	4%	-3%
4	92	4%	-1%
5	92	5%	4%
6	84	10%	6%
7	83	11%	0%
8	80	12%	-6%
9	82	6%	-9%
10	84	2%	-11%
11	90	0%	-7%
12	91	2%	-5%
13	93	3%	-4%
14	94	2%	1%
15	90	5%	1%
16	91	6%	-1%



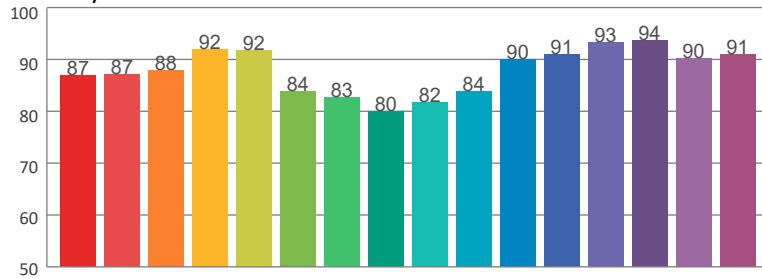
Color Vector Graphic



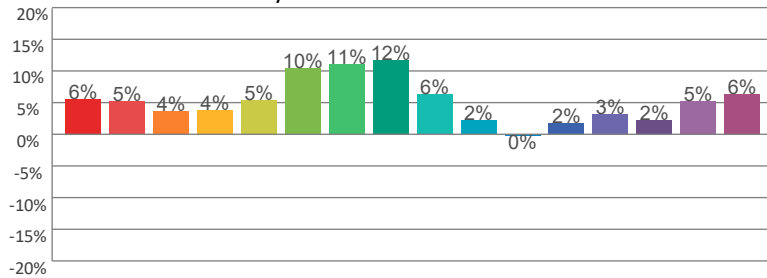
Color Distortion Graphic



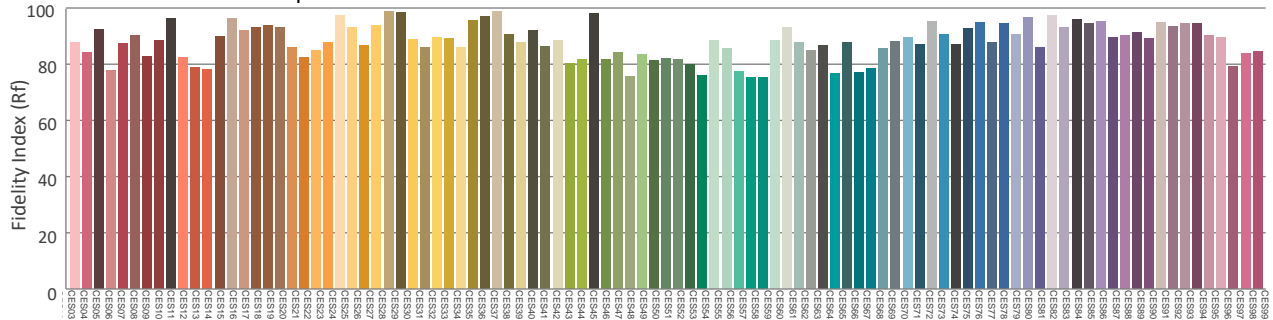
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 3000K

## Report Summary

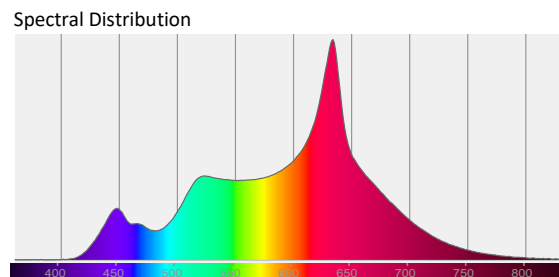
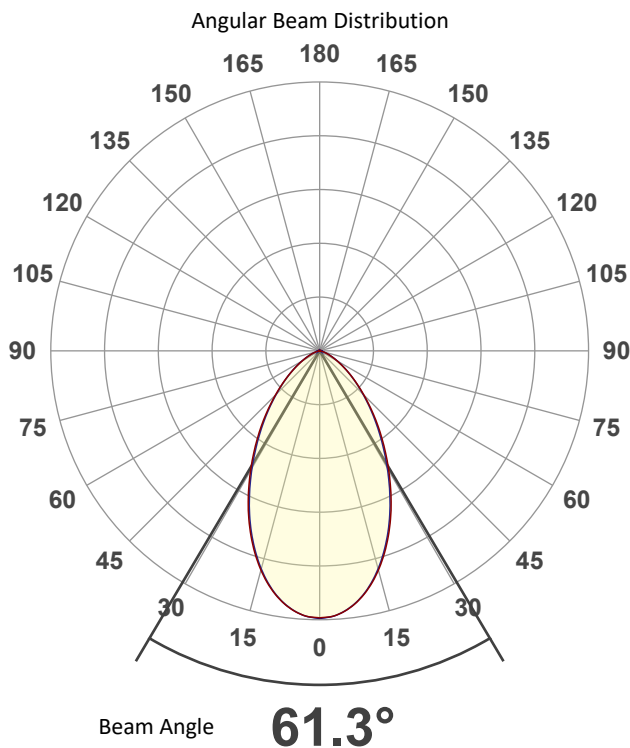
### Measurements

Fixture Output: 109 lm  
Fixture Peak: 89.3 cd  
Fixture Efficacy: 7 lm/W  
Intensity @ 5m: 4 lux  
Color Temperature: 2934 K  
CRI: 89.1      CRI R9 Value: 70.8  
CQS: 92.0  
TLCI: 91  
TM-30 Rf: 92.6  
TM-30 Rg: 107.0  
Beam Angle (50%): 61.3°  
Field Angle (10%): 113.9°  
Cutoff Angle (3%): 141°  
Conditions  
AC Supply: 119 V, 60 Hz  
Power: 17.69 W  
Current: 0.148 A  
Power Factor: 0.83



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.439  
Y: 0.400

Light Quality  
CRI: 89.1

Color Temperature  
2934 K

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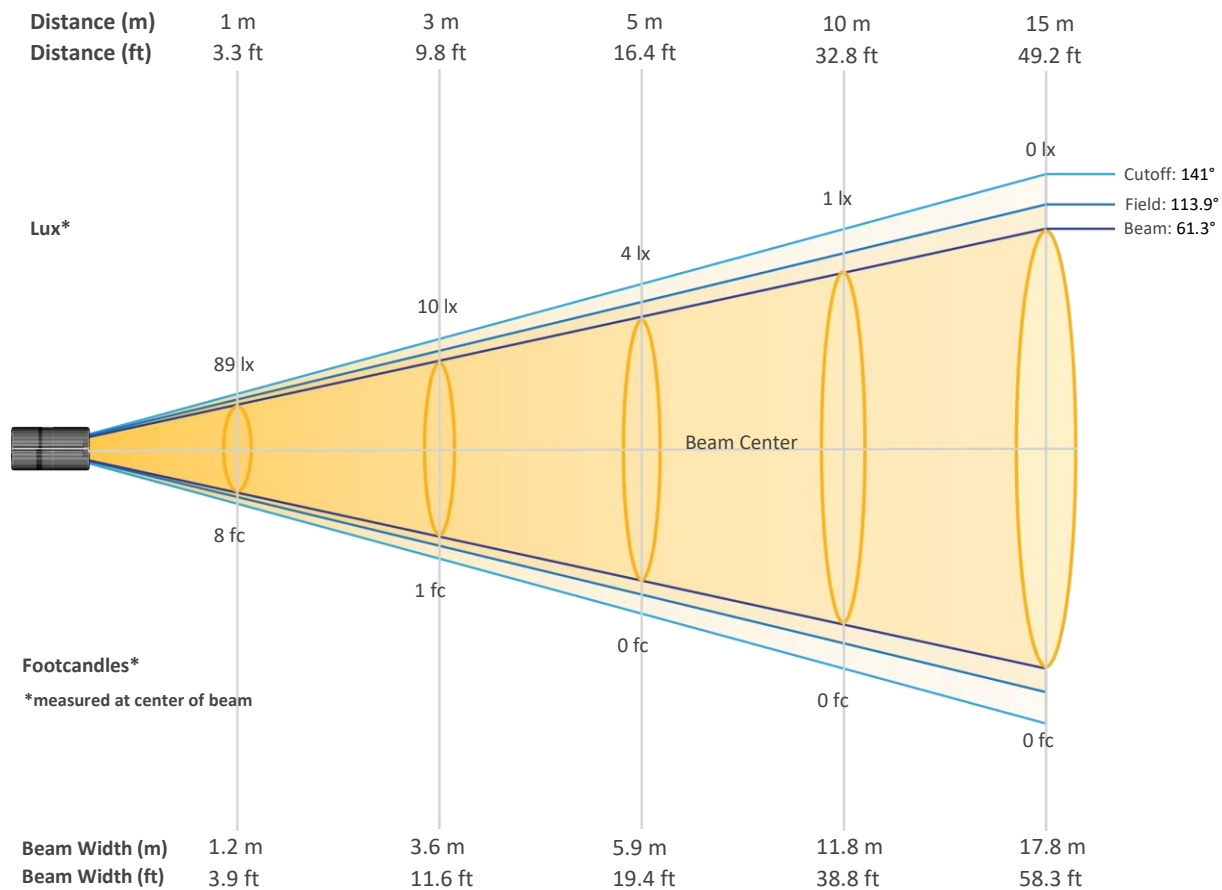
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 3000K

## Beam Details



### Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	89	22	10	6	4	2	2	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	8	2	1	1	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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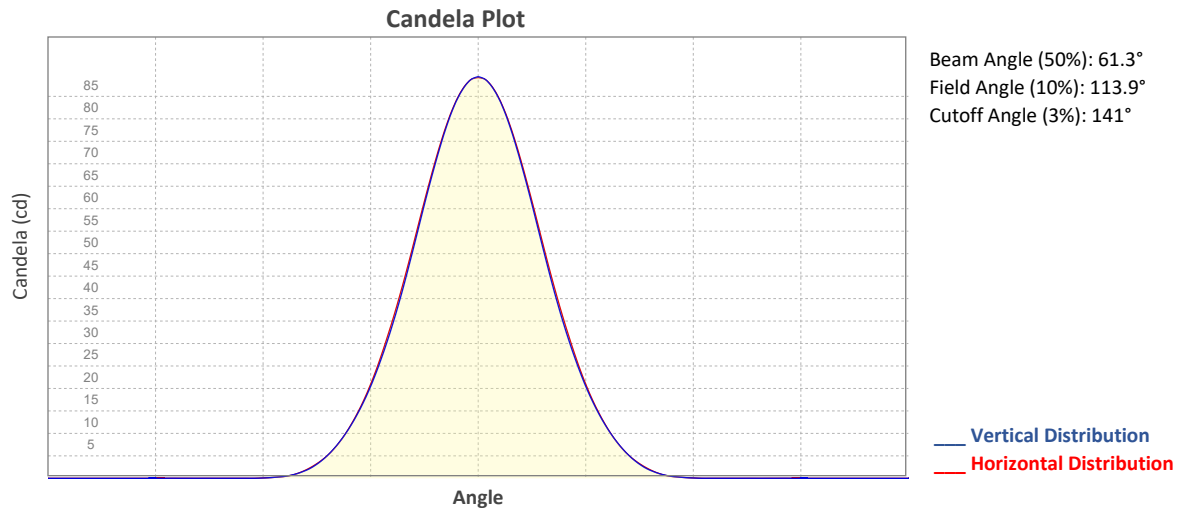
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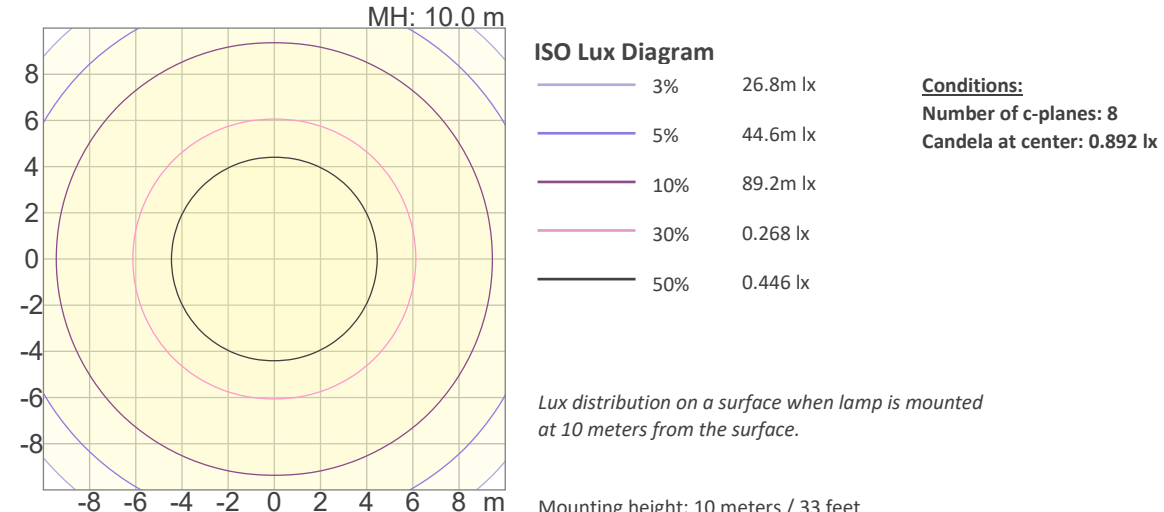
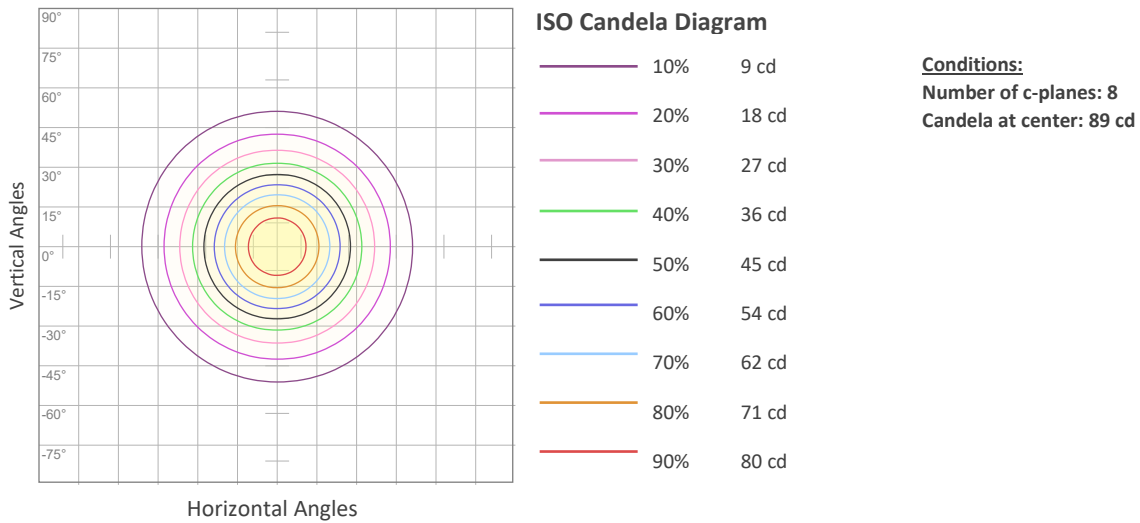
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 3000K



## ISO Diagrams



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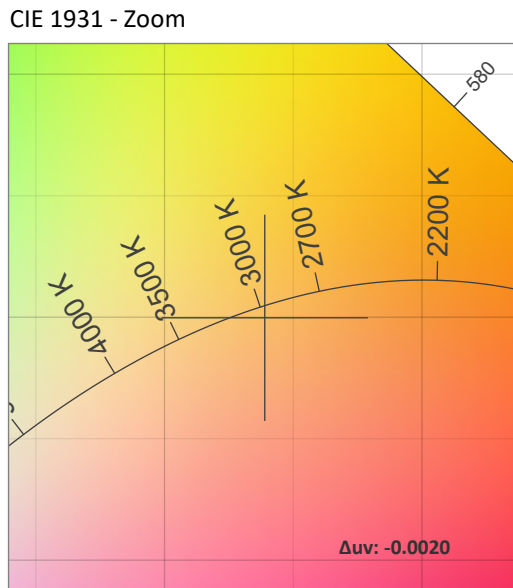
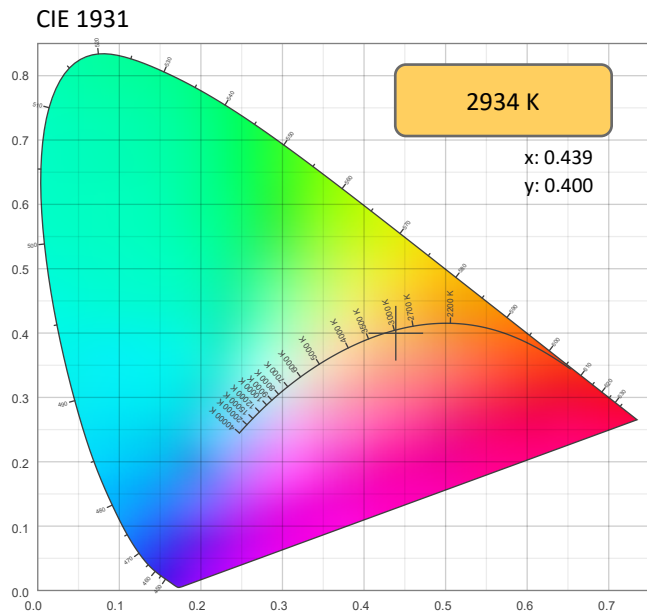
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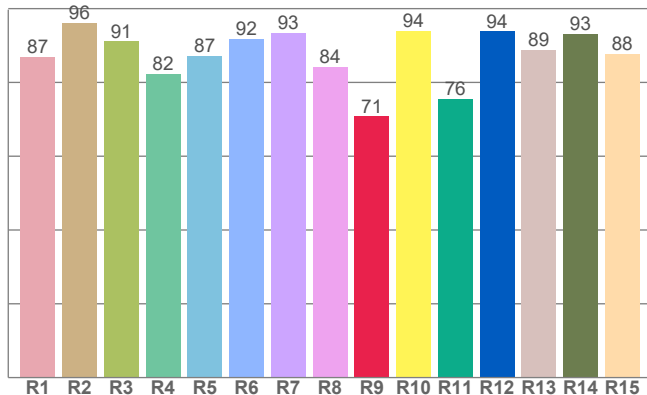
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 3000K

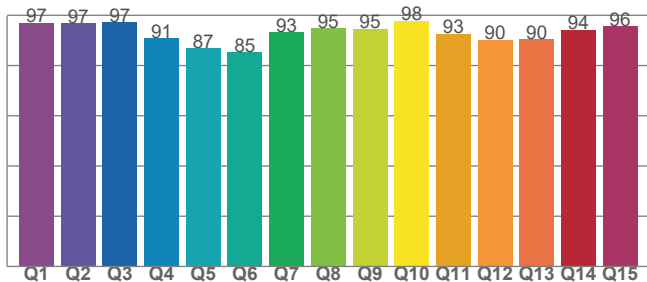
## Chromaticity



### CRI: 89.1 (R1-R8)



### CQS: 92.0



### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2934 K	0.439	0.400

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
-0.0020	0.400	0.254

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
89.1	70.8	92.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
91	92.6	107.0

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# Photometric & Chromaticity Report

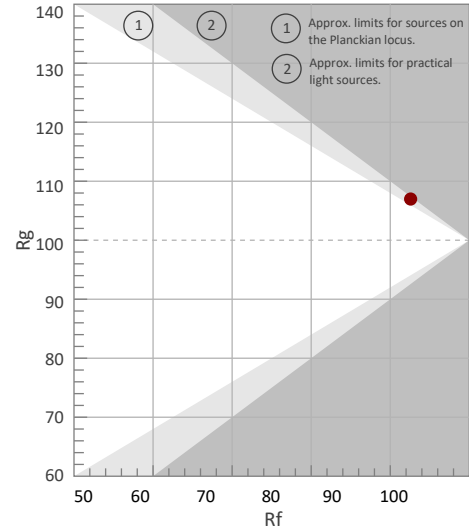
Logic MR16 Downlight S: Medium Filter Lens - 3000K

## TM-30 Details

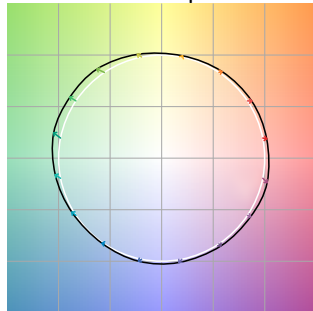
**Rf 92.6**  
Fidelity Index  
(Rg)

**Rg 107.0**  
Gammut Index (Rg)

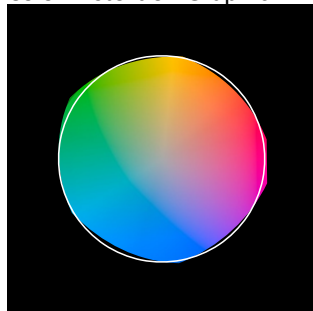
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	4%	-1%
2	92	3%	-3%
3	92	2%	-2%
4	96	1%	0%
5	94	3%	3%
6	89	7%	4%
7	89	7%	0%
8	87	8%	-4%
9	90	4%	-4%
10	92	1%	-5%
11	96	1%	-2%
12	93	2%	-3%
13	94	3%	-3%
14	95	3%	0%
15	93	3%	1%
16	92	5%	-3%



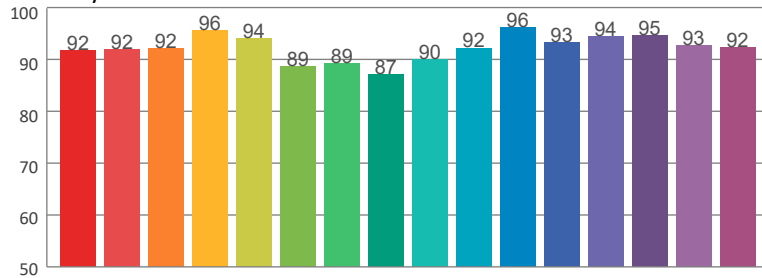
Color Vector Graphic



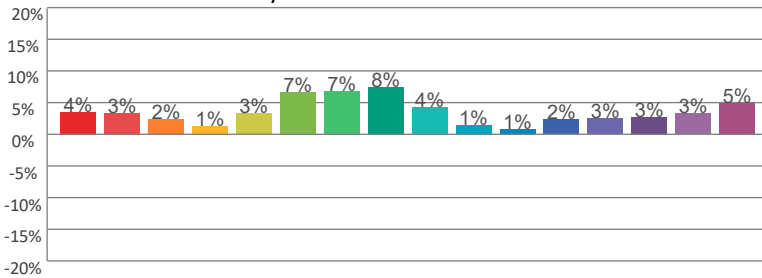
Color Distortion Graphic



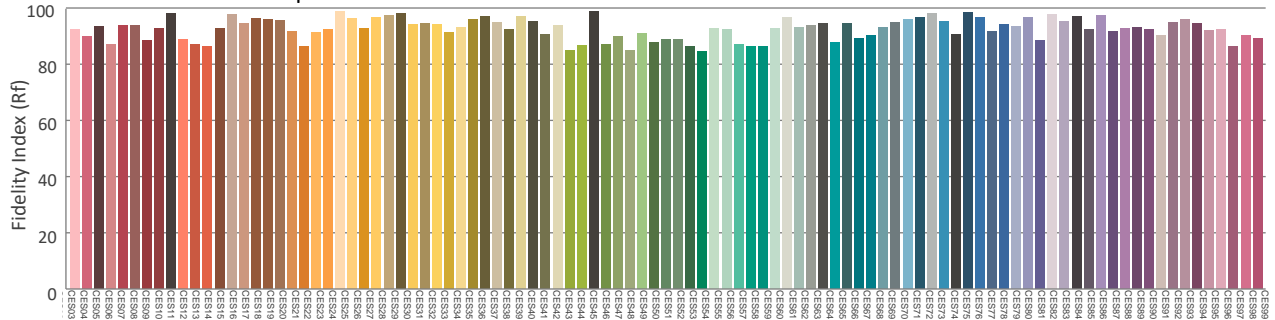
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 3200K

## Report Summary

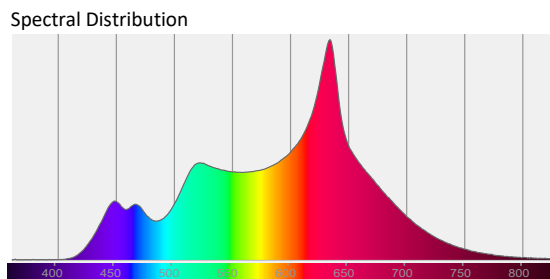
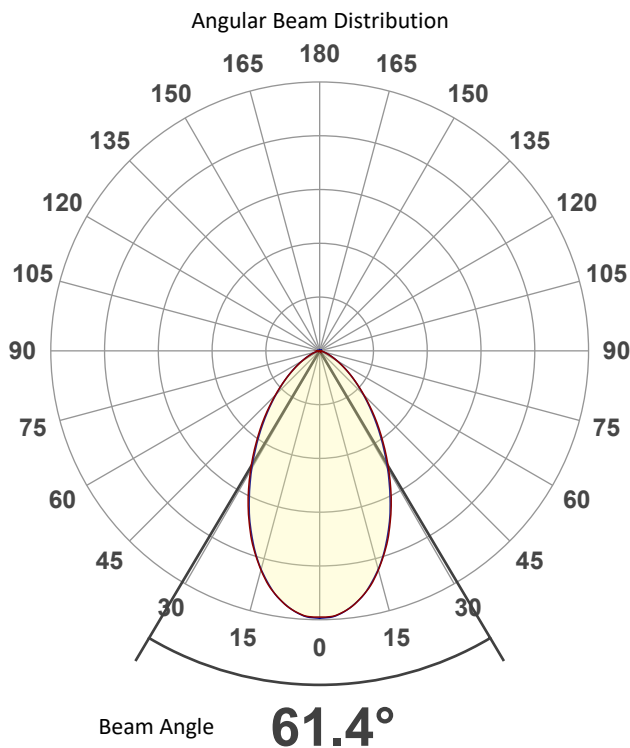
### Measurements

Fixture Output: 110 lm  
Fixture Peak: 89.6 cd  
Fixture Efficacy: 7 lm/W  
Intensity @ 5m: 4 lux  
Color Temperature: 3148 K  
CRI: 89.5      CRI R9 Value: 68.7  
CQS: 93.1  
TLCI: 94  
TM-30 Rf: 93.4  
TM-30 Rg: 105.5  
Beam Angle (50%): 61.4°  
Field Angle (10%): 114°  
Cutoff Angle (3%): 141.2°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 17.79 W  
Current: 0.148 A  
Power Factor: 0.83



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.425  
Y: 0.395

Light Quality  
CRI: 89.5

Color Temperature  
3148 K

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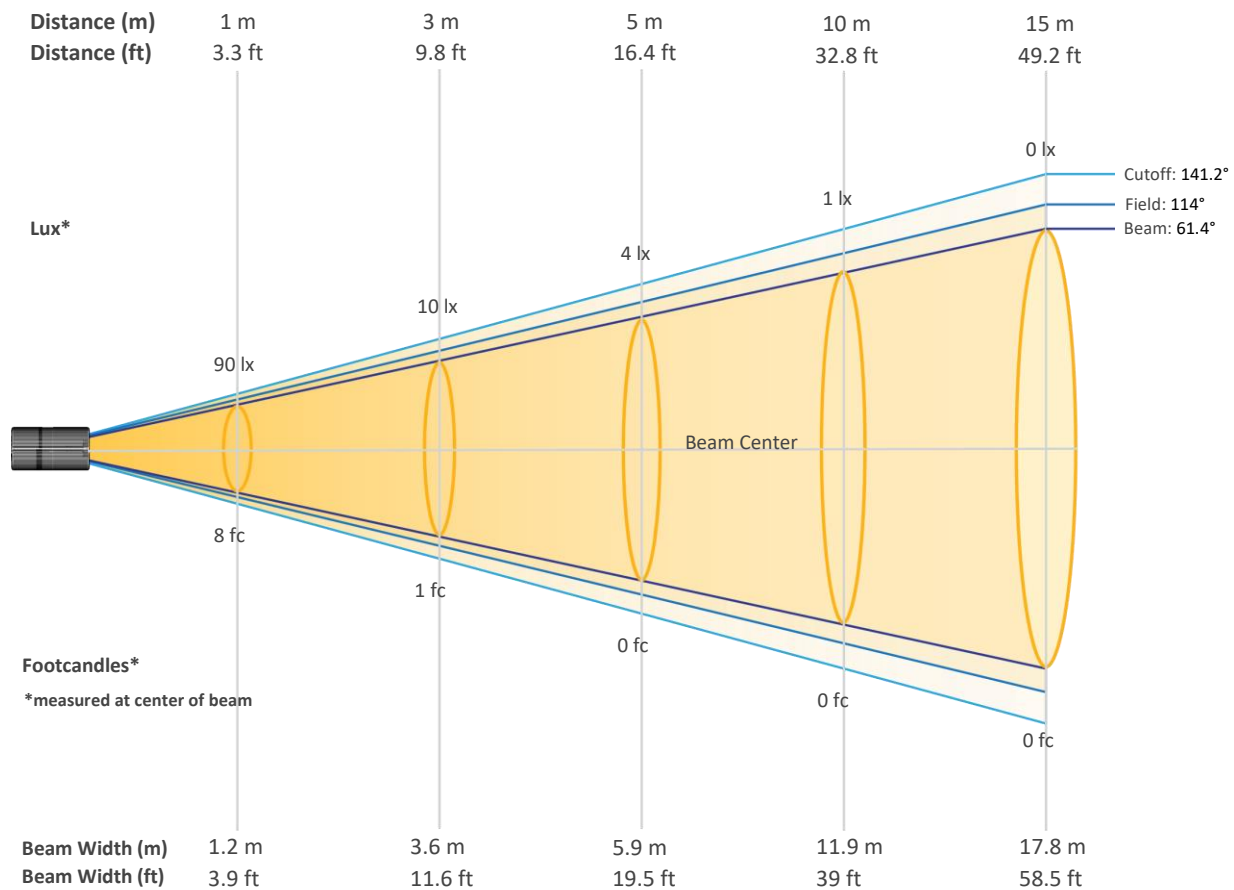
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 3200K

## Beam Details



### Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	90	22	10	6	4	2	2	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	8	2	1	1	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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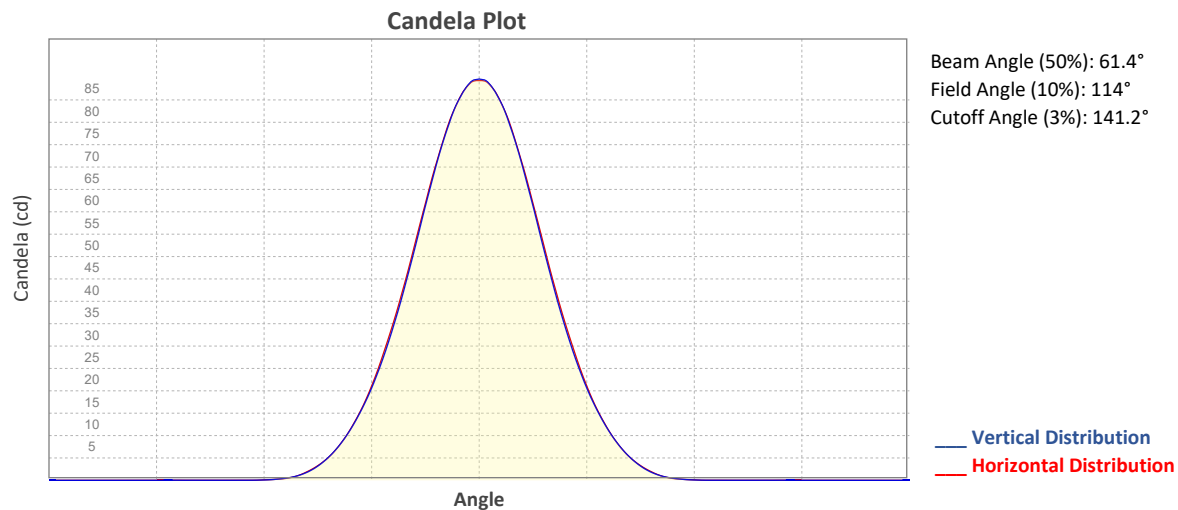
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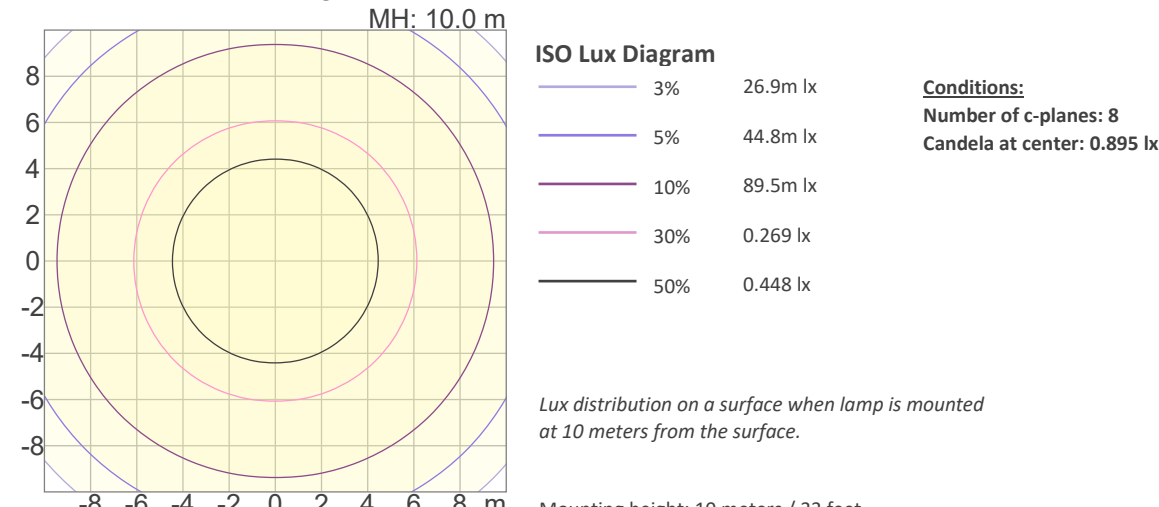
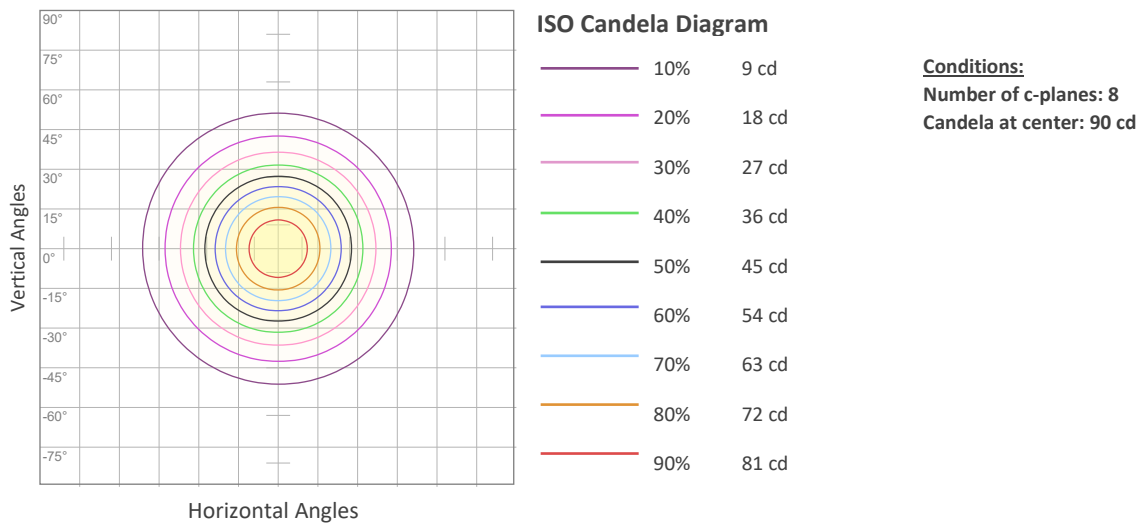


# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 3200K



## ISO Diagrams

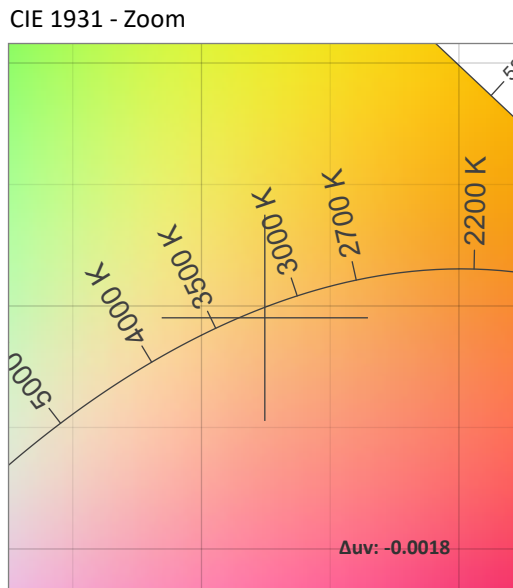
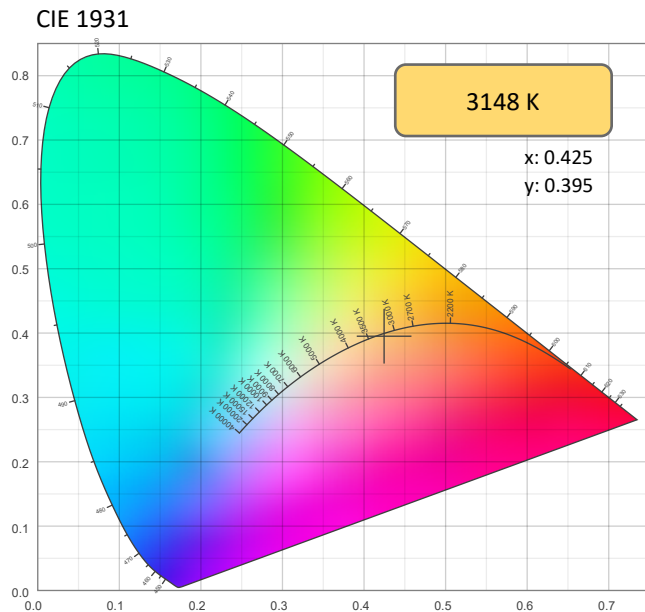


Mounting height: 10 meters / 33 feet

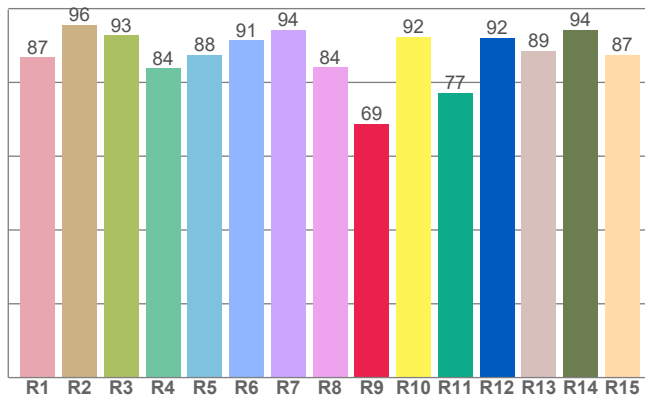
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 3200K

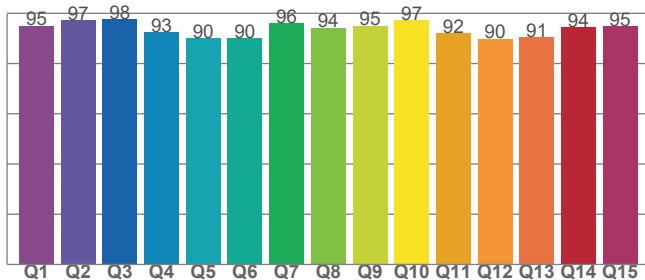
## Chromaticity



### CRI: 89.5 (R1-R8)



### CQS: 93.1



### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3148 K	0.425	0.395

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0018	0.395	0.246

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
89.5	68.7	93.1

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
94	93.4	105.5

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# Photometric & Chromaticity Report

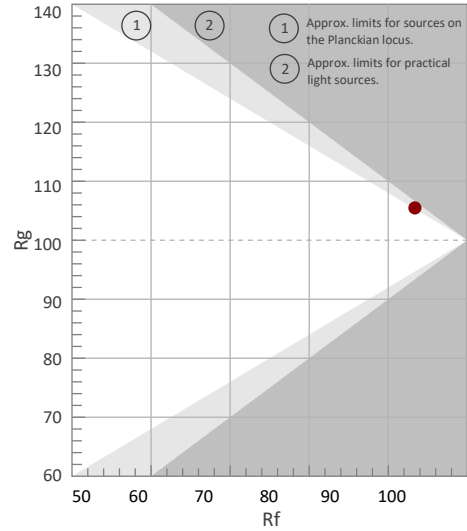
Logic MR16 Downlight S: Medium Filter Lens - 3200K

## TM-30 Details

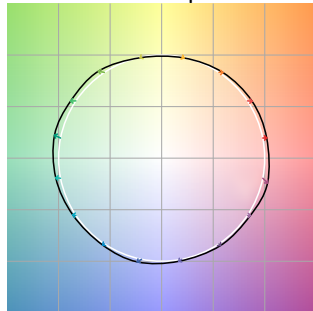
**Rf 93.4**  
Fidelity Index (Rg)

**Rg 105.5**  
Gammut Index (Rg)

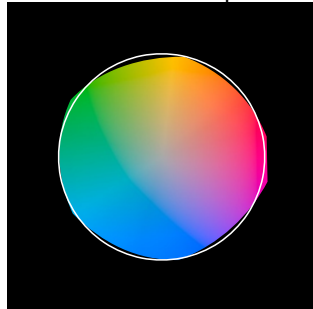
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	4%	-1%
2	92	4%	-3%
3	91	2%	-3%
4	96	0%	-2%
5	96	0%	1%
6	91	4%	4%
7	91	4%	3%
8	90	6%	-2%
9	93	4%	-1%
10	94	2%	-2%
11	96	2%	-1%
12	93	3%	-4%
13	95	1%	-3%
14	95	2%	0%
15	93	2%	2%
16	92	5%	-4%



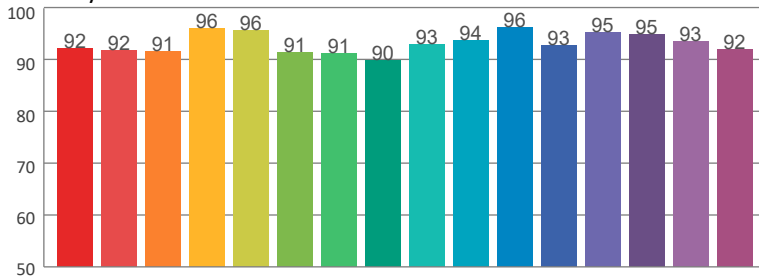
Color Vector Graphic



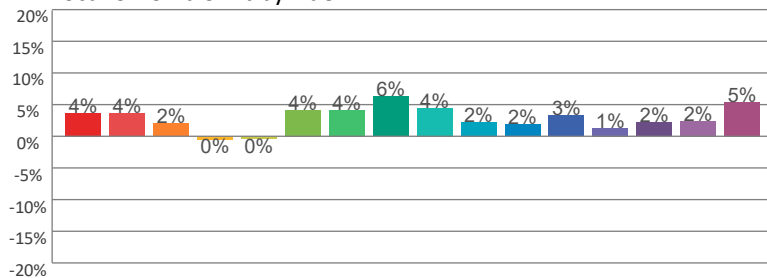
Color Distortion Graphic



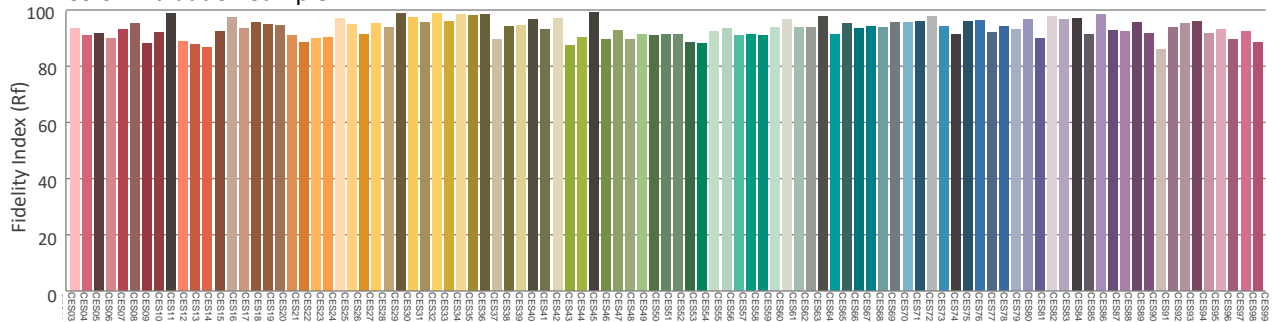
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 4000K

## Report Summary

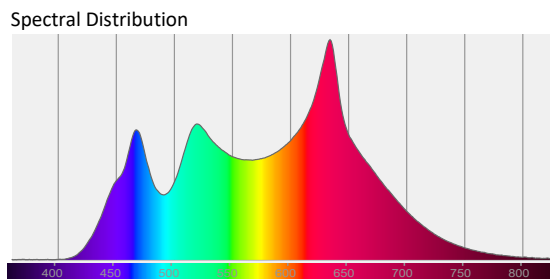
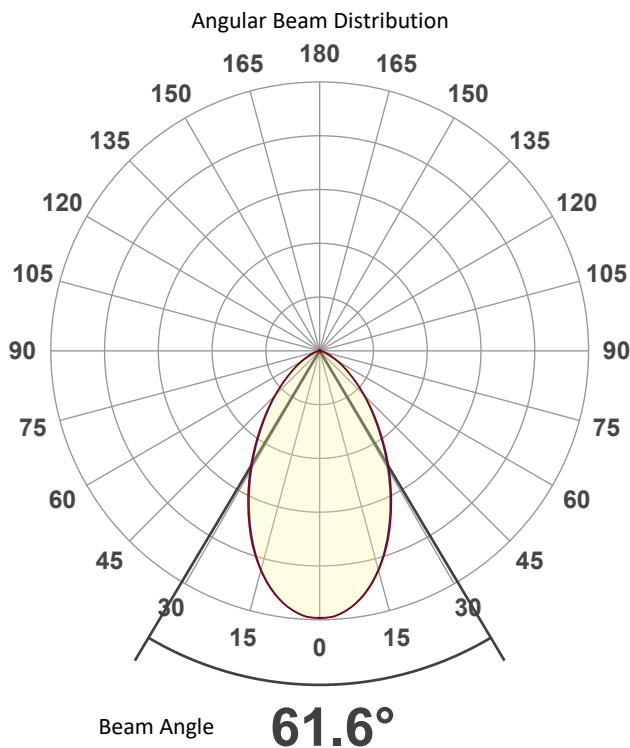
### Measurements

Fixture Output: 117 lm  
Fixture Peak: 95.0 cd  
Fixture Efficacy: 8 lm/W  
Intensity @ 5m: 4 lux  
Color Temperature: 3876 K  
CRI: 87.1      CRI R9 Value: 51.5  
CQS: 91.6  
TLCI: 92  
TM-30 Rf: 88.8  
TM-30 Rg: 102.0  
Beam Angle (50%): 61.6°  
Field Angle (10%): 114.3°  
Cutoff Angle (3%): 141.7°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 18.08 W  
Current: 0.151 A  
Power Factor: 0.83



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.385  
Y: 0.377

Light Quality  
CRI: 87.1

Color Temperature  
3876 K

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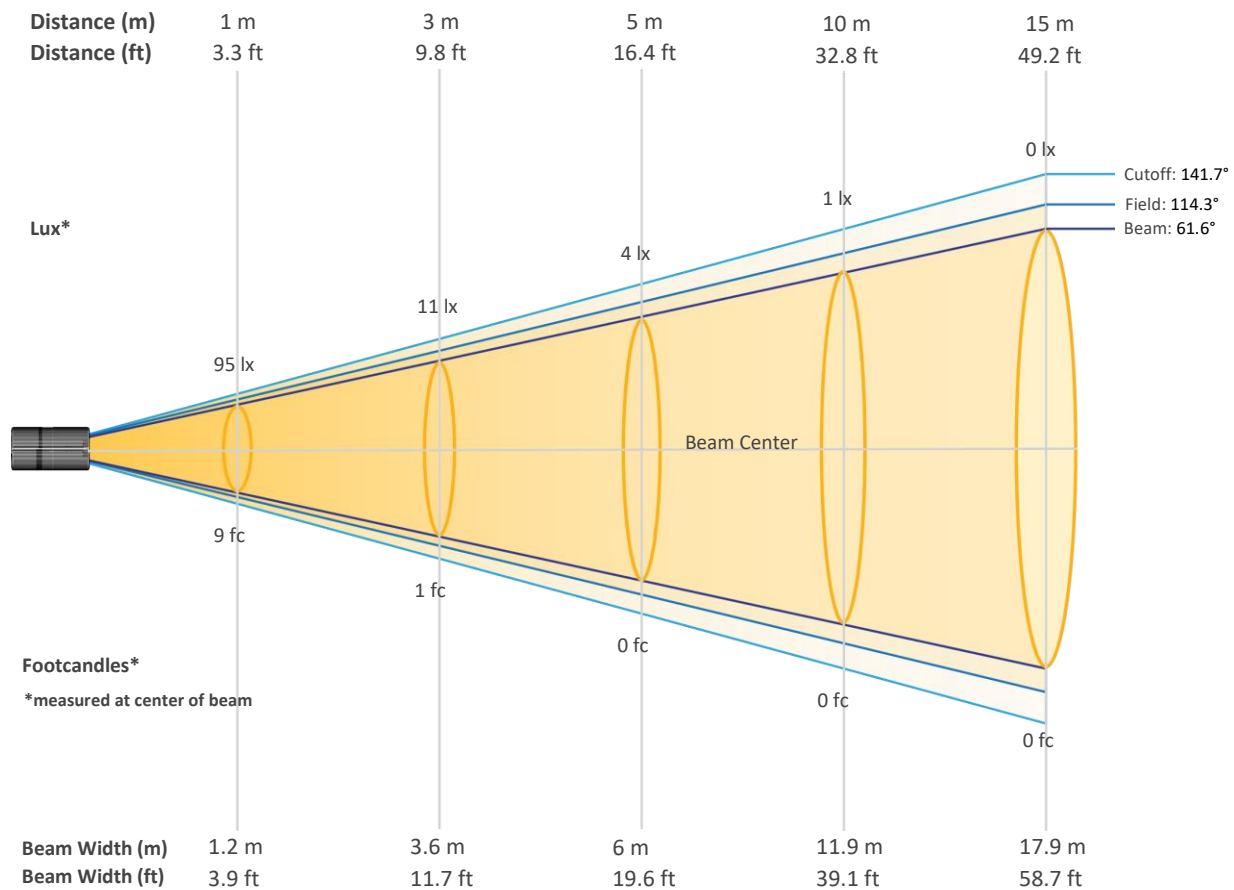
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 4000K

## Beam Details



### Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	95	24	11	6	4	3	2	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	9	2	1	1	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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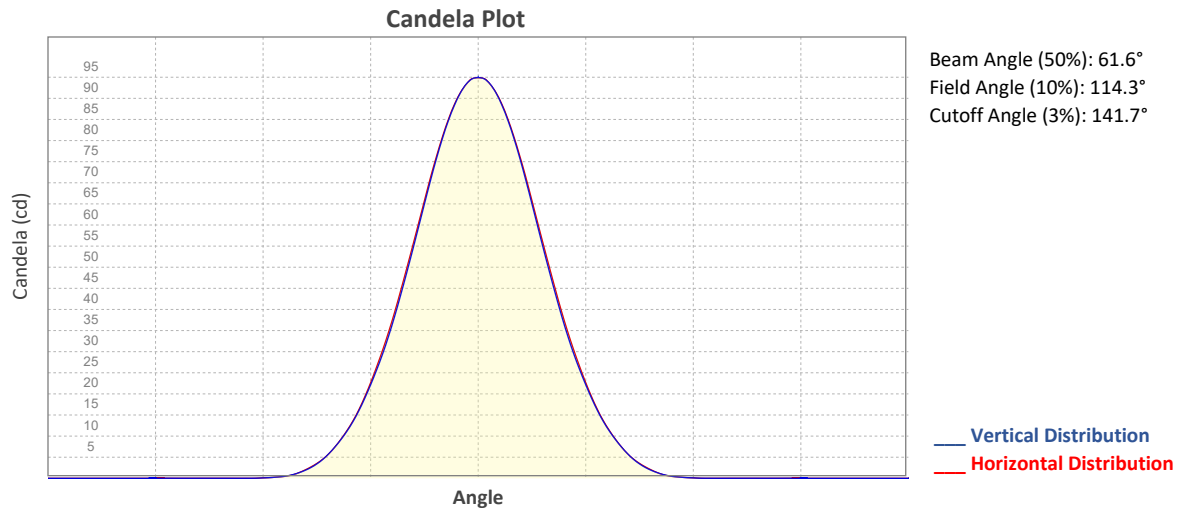
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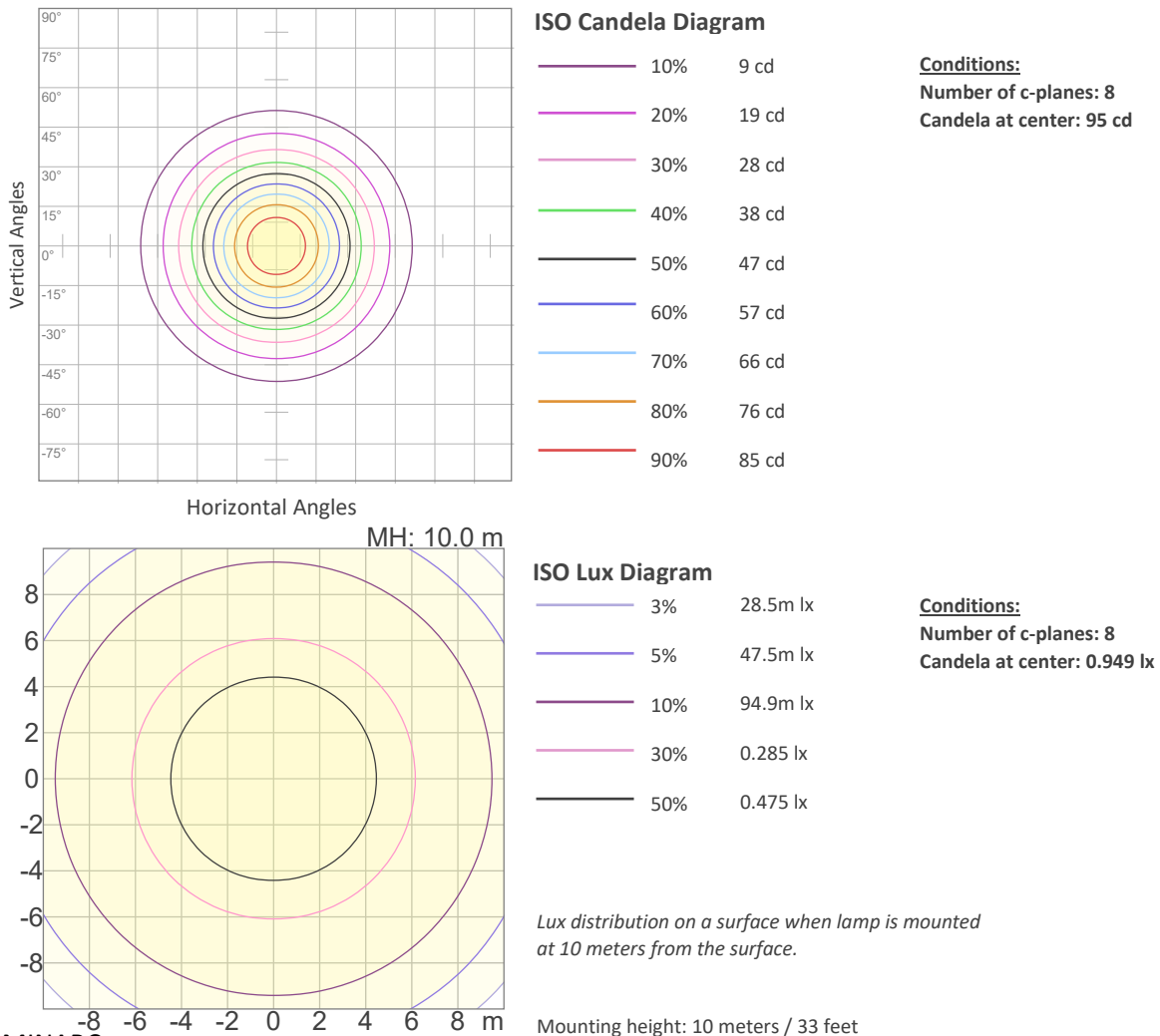
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 4000K



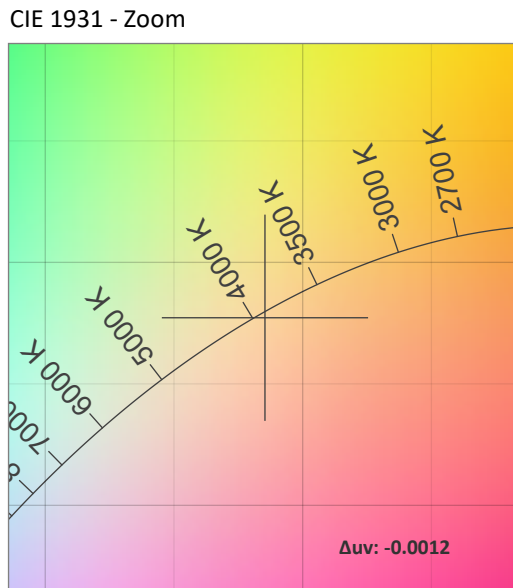
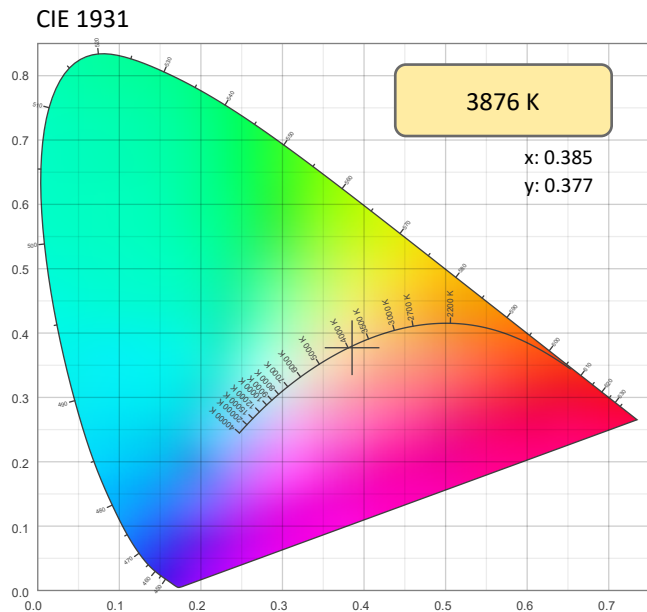
## ISO Diagrams



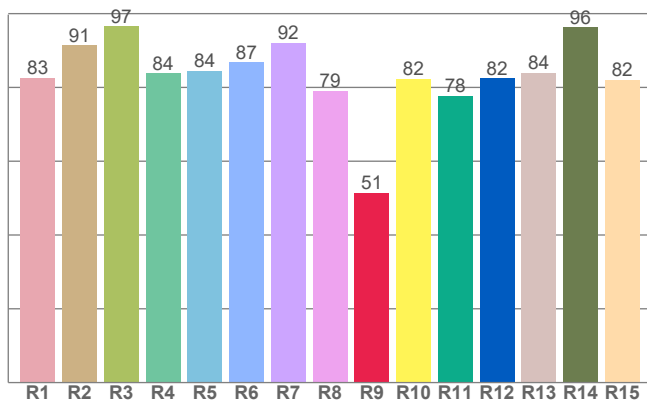
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 4000K

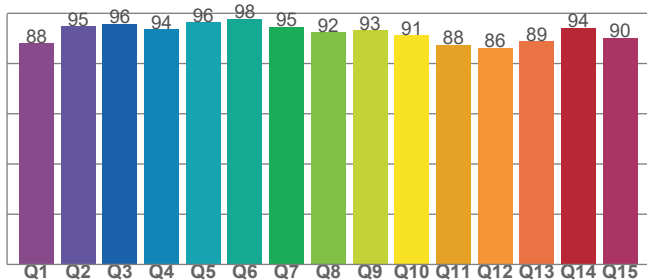
## Chromaticity



### CRI: 87.1 (R1-R8)



### CQS: 91.6



### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3876 K	0.385	0.377

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
-0.0012	0.377	0.228

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
87.1	51.5	91.6

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
92	88.8	102.0

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# Photometric & Chromaticity Report

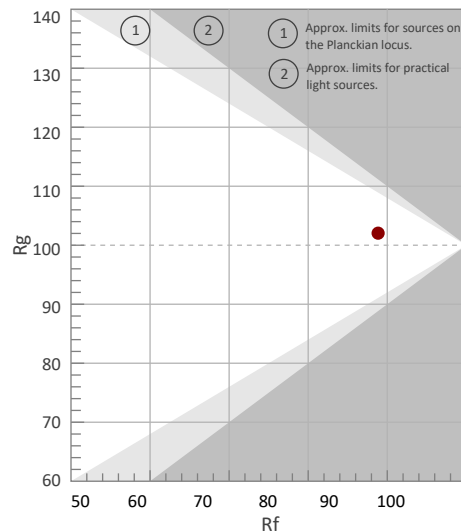
Logic MR16 Downlight S: Medium Filter Lens - 4000K

## TM-30 Details

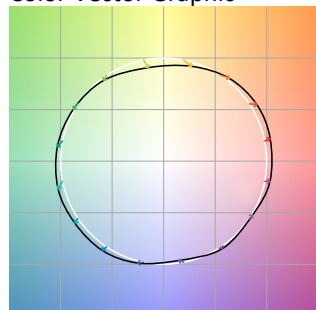
**Rf 88.8**  
Fidelity Index (Rg)

**Rg 102.0**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	89	6%	1%
2	87	6%	-4%
3	84	2%	-8%
4	85	-5%	-8%
5	88	-8%	-3%
6	92	-3%	5%
7	89	1%	7%
8	88	4%	6%
9	88	6%	6%
10	91	5%	2%
11	91	5%	-1%
12	90	2%	-5%
13	92	-3%	-4%
14	93	2%	0%
15	90	1%	4%
16	88	5%	1%



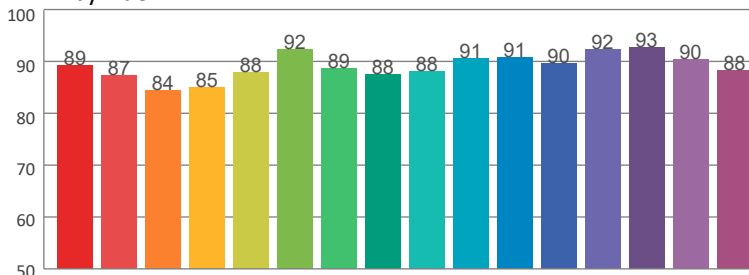
Color Vector Graphic



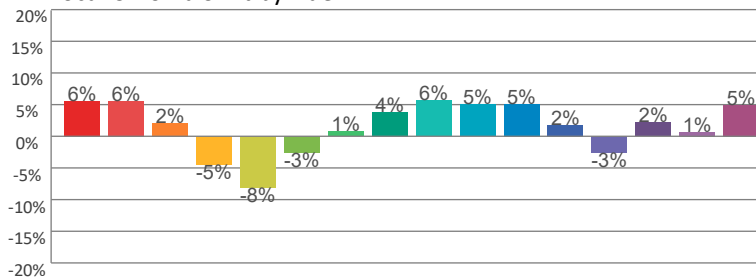
Color Distortion Graphic



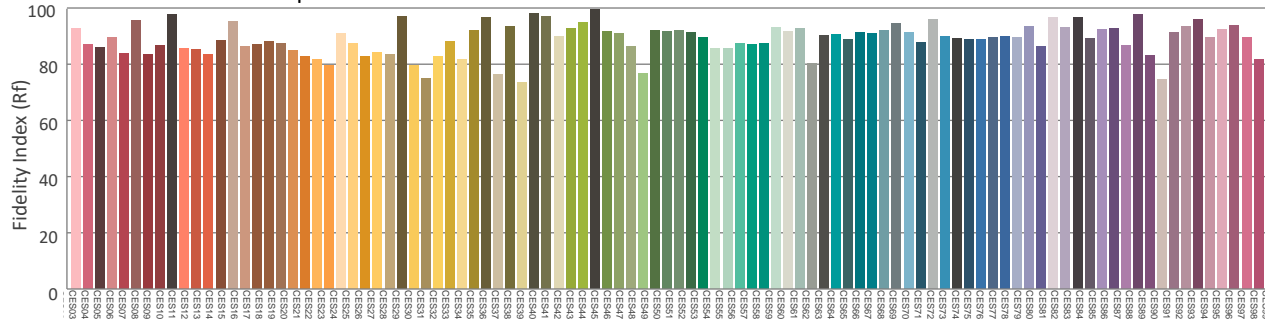
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 4500K

## Report Summary

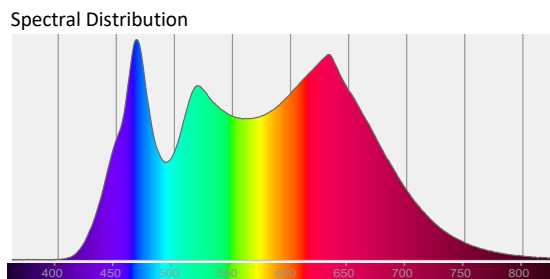
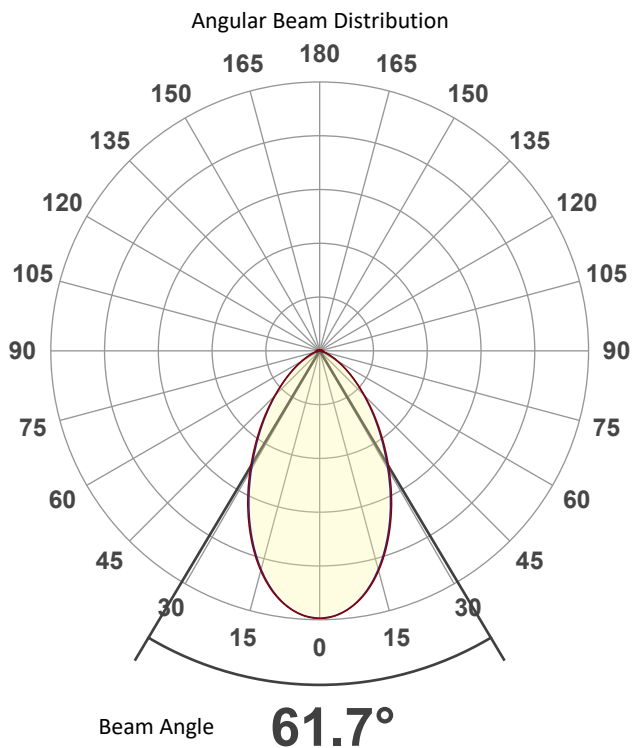
### Measurements

Fixture Output: 110 lm  
Fixture Peak: 89.1 cd  
Fixture Efficacy: 7 lm/W  
Intensity @ 5m: 4 lux  
Color Temperature: 4354 K  
CRI: 91.8      CRI R9 Value: 75.4  
CQS: 93.4  
TLCI: 97  
TM-30 Rf: 89.9  
TM-30 Rg: 99.2  
Beam Angle (50%): 61.7°  
Field Angle (10%): 114.3°  
Cutoff Angle (3%): 141.6°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 17.92 W  
Current: 0.149 A  
Power Factor: 0.83



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.366  
Y: 0.365

Light Quality  
CRI: 91.8

Color Temperature  
4354 K

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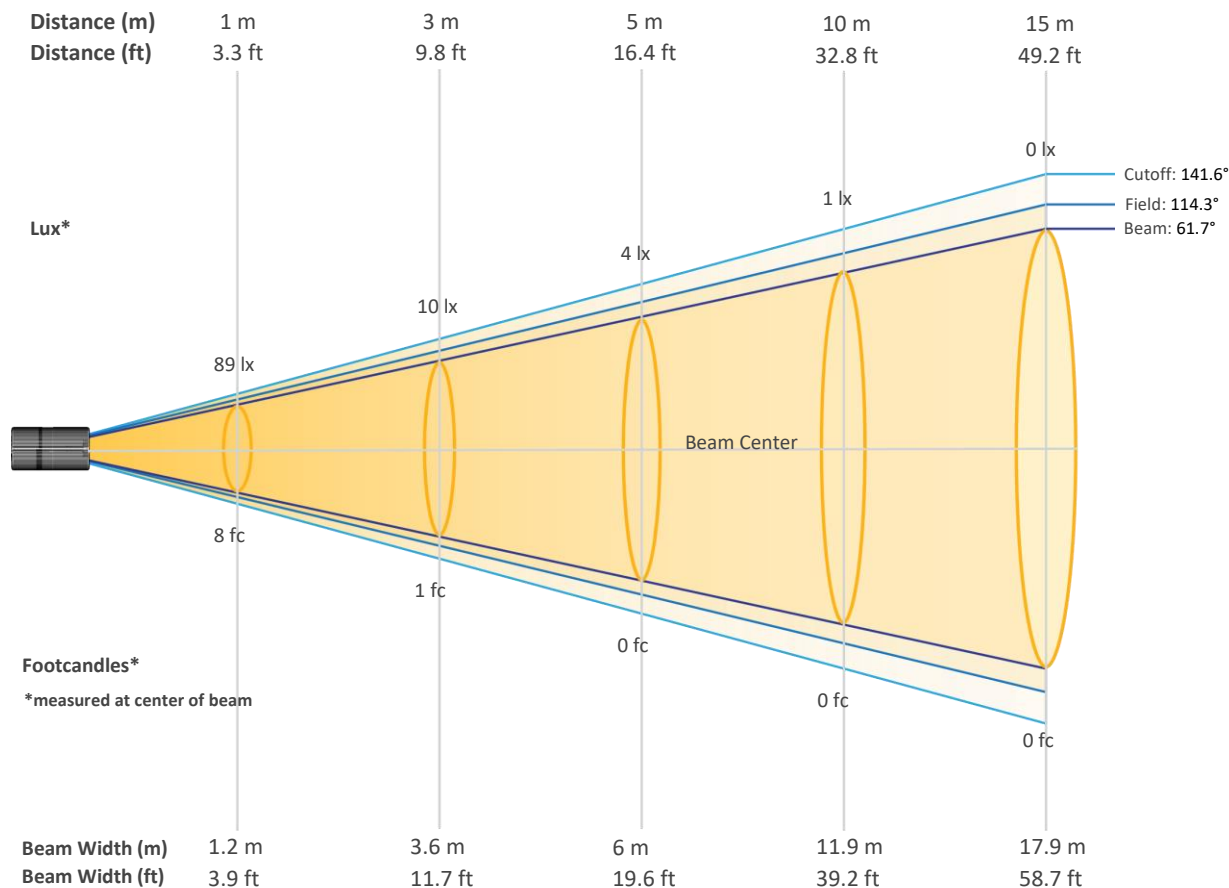
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 4500K

## Beam Details



### Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	89	22	10	6	4	2	2	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	8	2	1	1	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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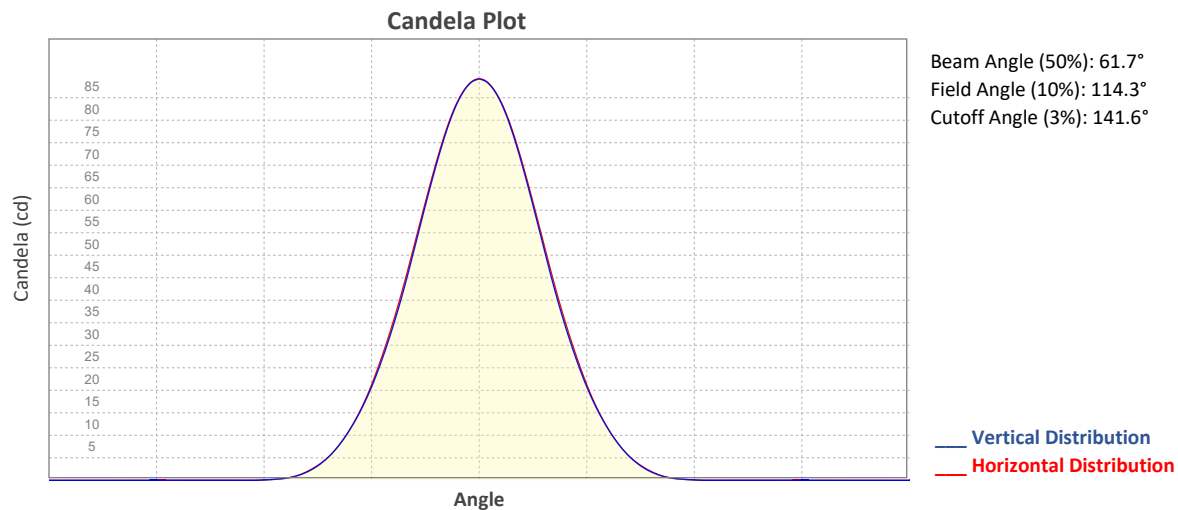
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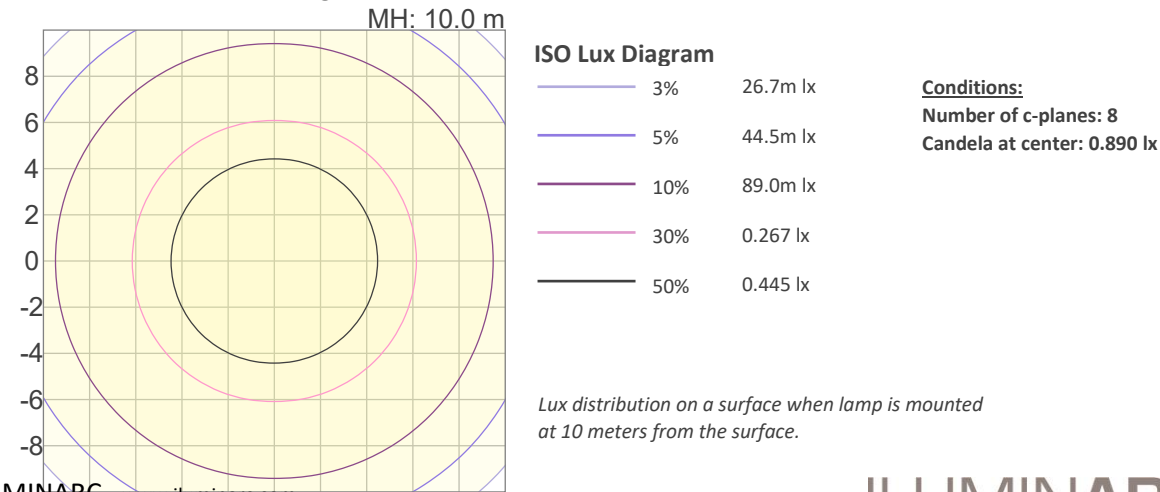
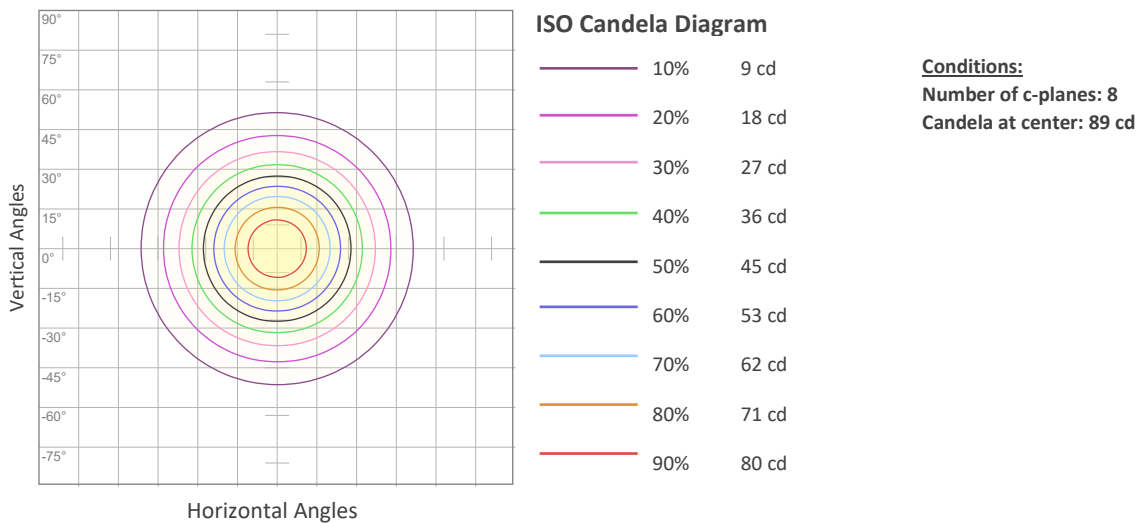
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 4500K



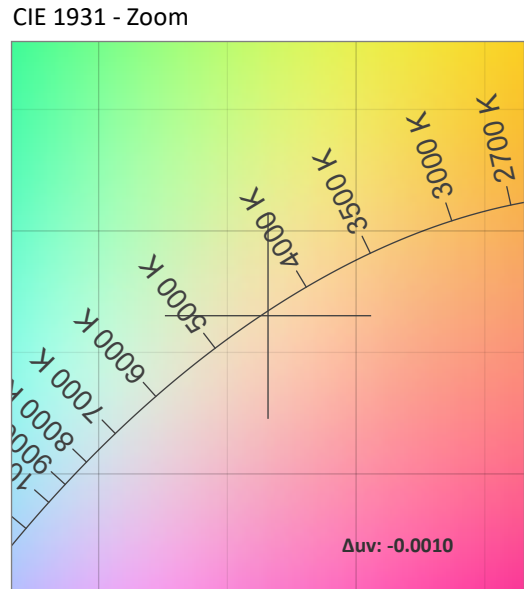
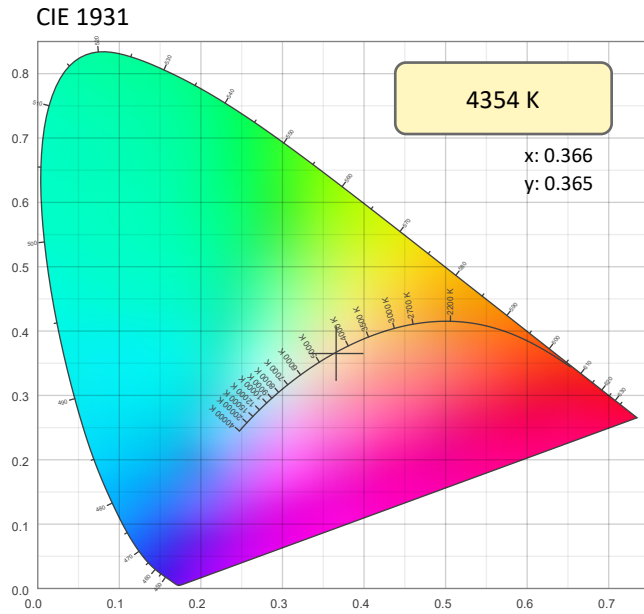
## ISO Diagrams



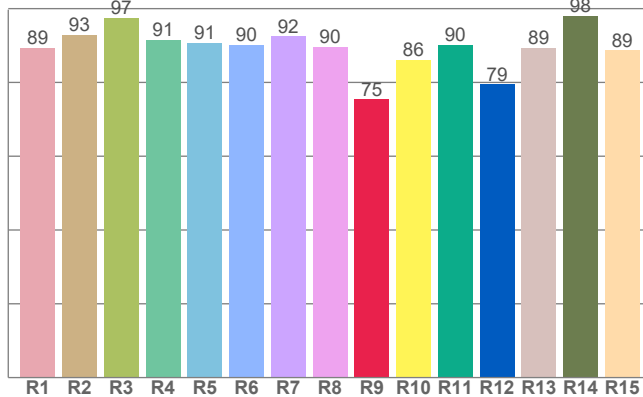
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 4500K

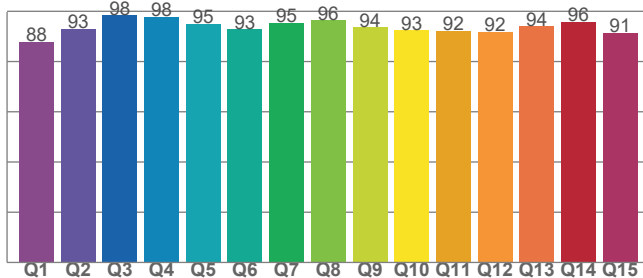
## Chromaticity



CRI: 91.8 (R1-R8)



CQS: 93.4



## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
4354 K	0.366	0.365

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0010	0.365	0.220

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
91.8	75.4	93.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
97	89.9	99.2

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# Photometric & Chromaticity Report

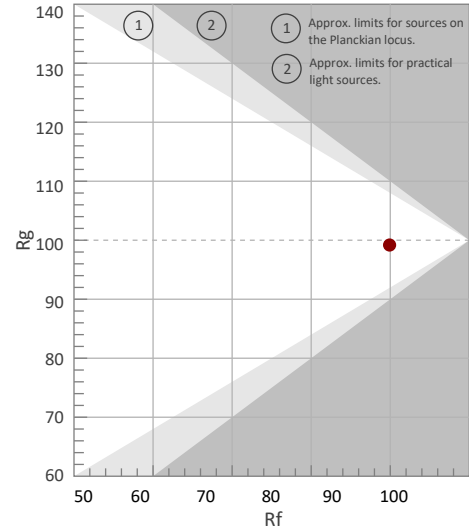
Logic MR16 Downlight S: Medium Filter Lens - 4500K

## TM-30 Details

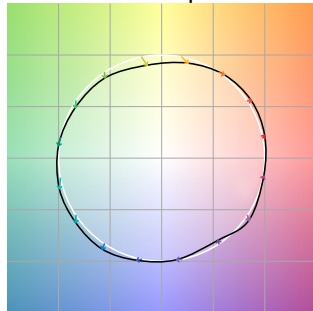
**Rf 89.9**  
Fidelity Index  
(Rg)

**Rg 99.2**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	2%	2%
2	92	3%	-2%
3	90	1%	-6%
4	87	-5%	-7%
5	87	-9%	-4%
6	92	-5%	2%
7	90	-3%	6%
8	88	0%	8%
9	87	3%	10%
10	90	4%	6%
11	90	5%	1%
12	92	2%	-5%
13	92	-1%	-5%
14	93	-3%	1%
15	87	4%	-3%
16	93	0%	2%



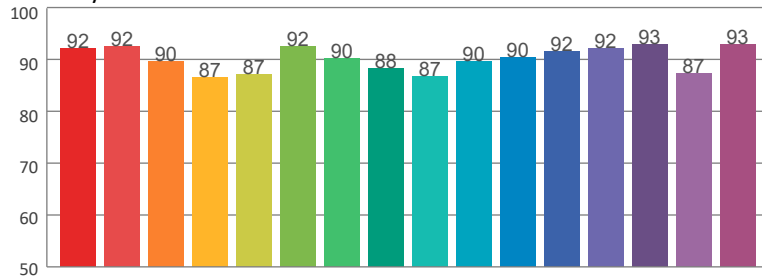
Color Vector Graphic



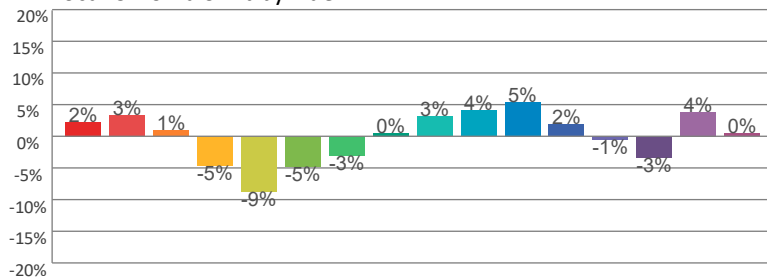
Color Distortion Graphic



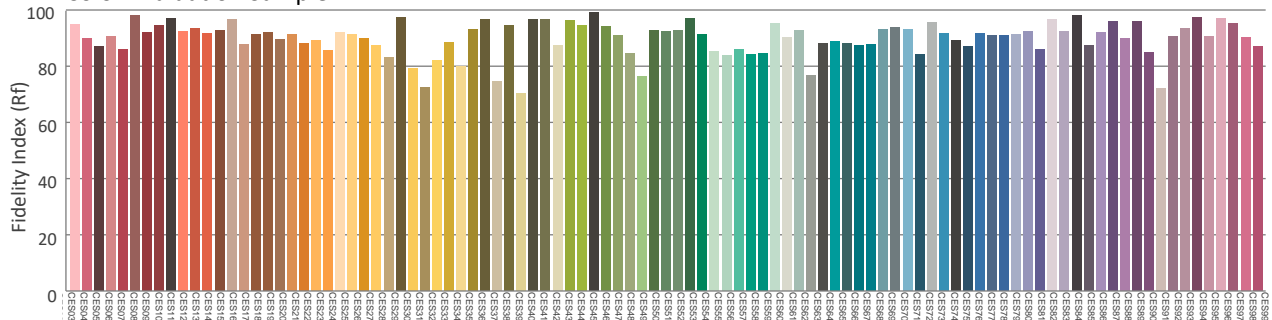
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 5000K

## Report Summary

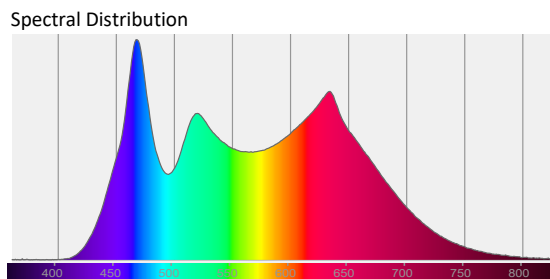
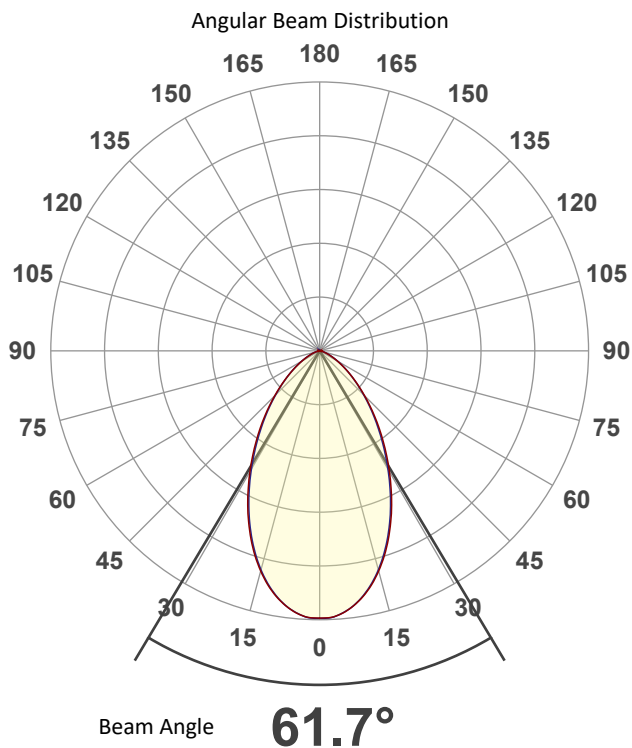
### Measurements

Fixture Output: 115 lm  
Fixture Peak: 93.3 cd  
Fixture Efficacy: 8 lm/W  
Intensity @ 5m: 4 lux  
Color Temperature: 4812 K  
CRI: 87.0      CRI R9 Value: 56.4  
CQS: 90.3  
TLCI: 94  
TM-30 Rf: 87.2  
TM-30 Rg: 99.2  
Beam Angle (50%): 61.7°  
Field Angle (10%): 114.2°  
Cutoff Angle (3%): 141.5°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 18.16 W  
Current: 0.151 A  
Power Factor: 0.83



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.350  
Y: 0.352

Light Quality  
CRI: 87.0

Color Temperature  
4812 K

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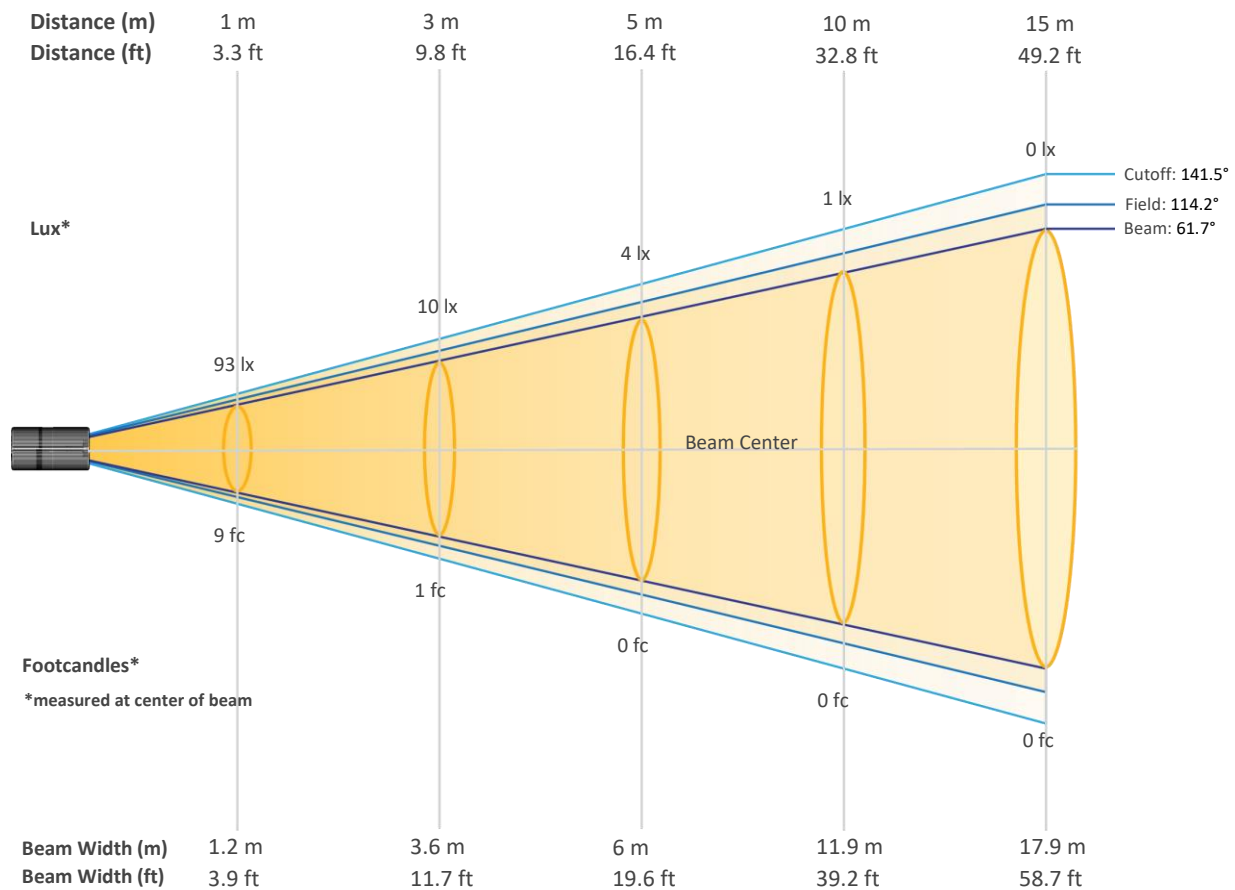
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 5000K

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	93	23	10	6	4	3	2	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	9	2	1	1	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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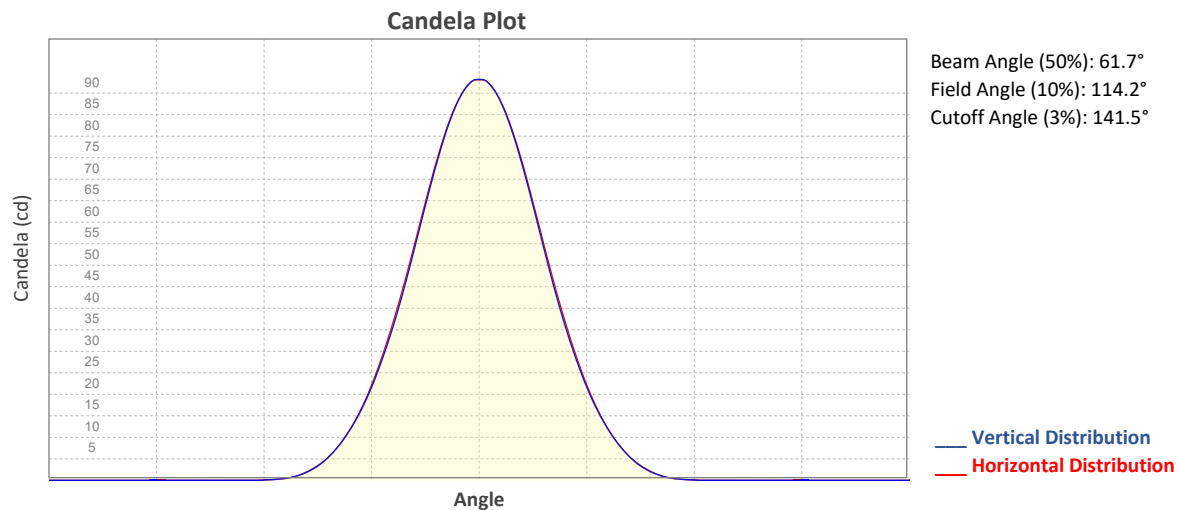
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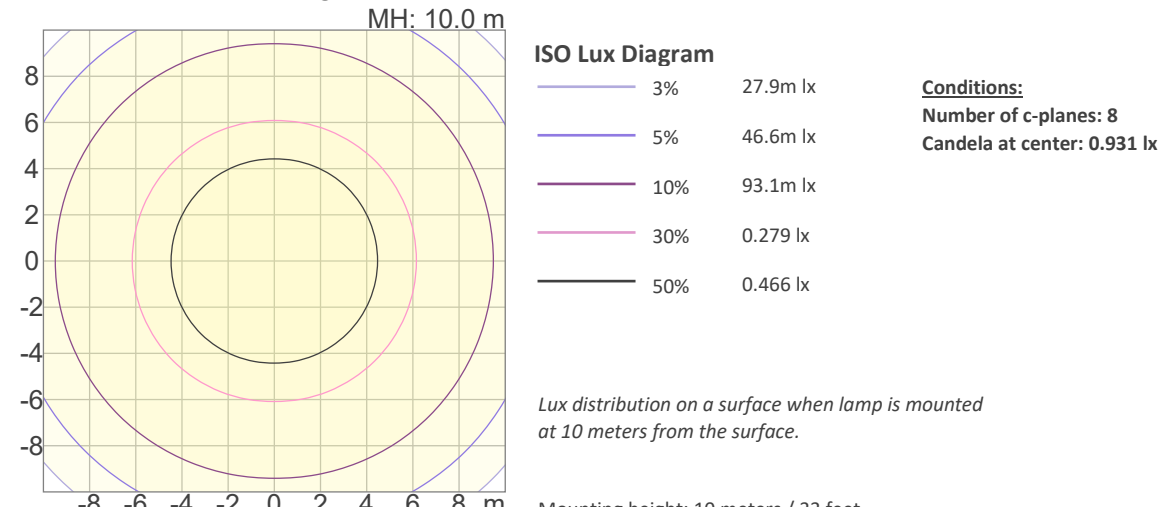
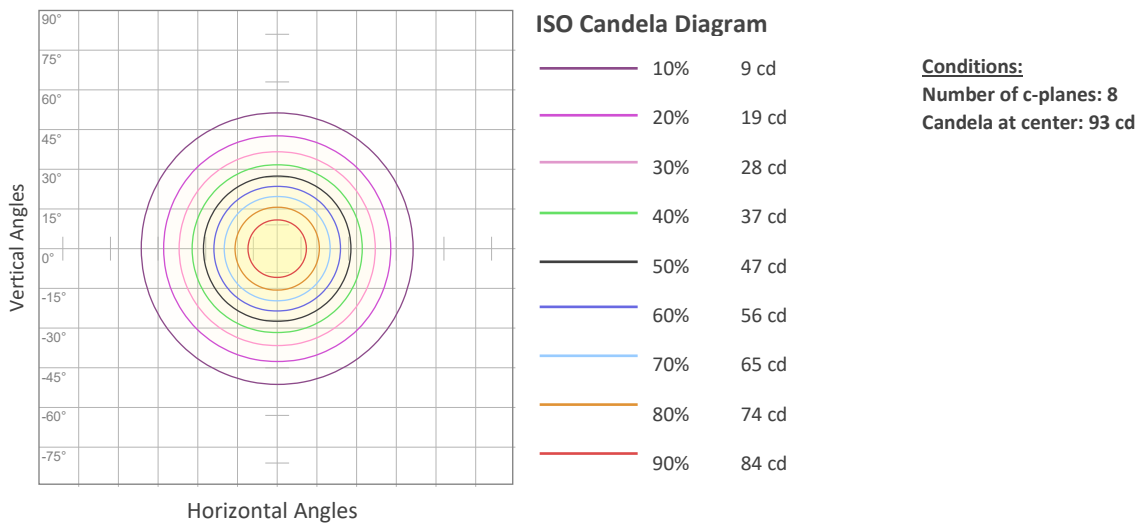
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 5000K



## ISO Diagrams



Mounting height: 10 meters / 33 feet

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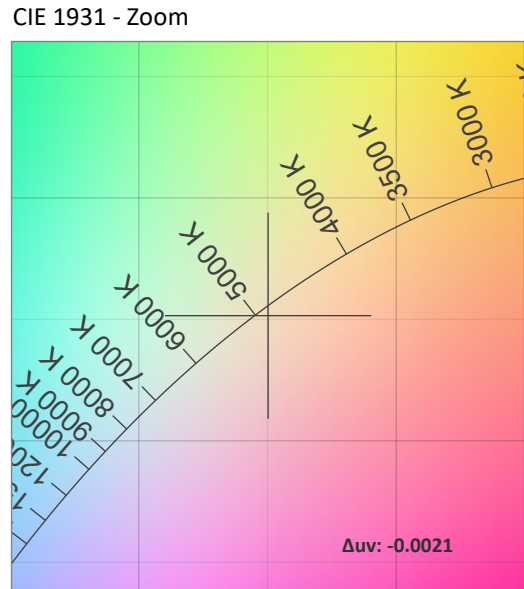
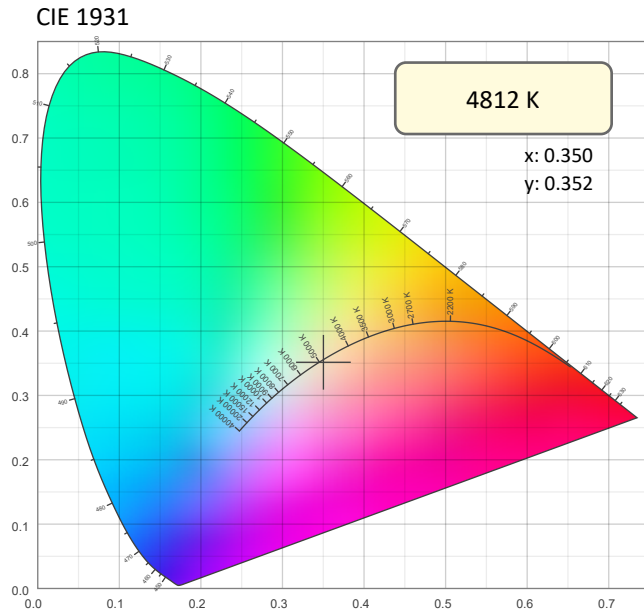
# ILUMINARC



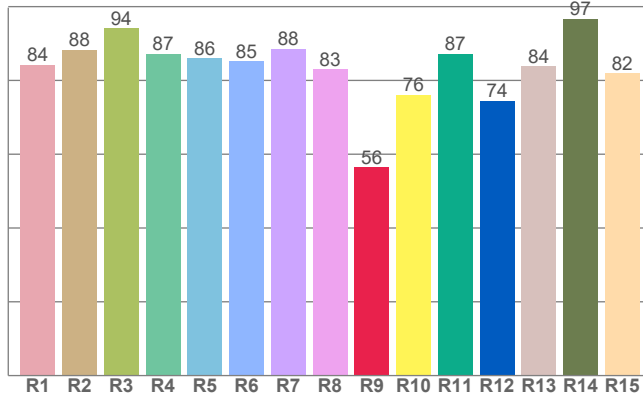
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 5000K

## Chromaticity



CRI: 87.0 (R1-R8)

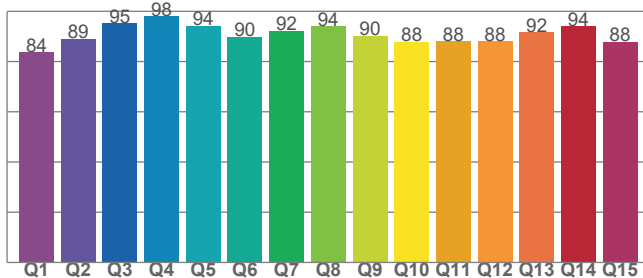


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
4812 K	0.350	0.352

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0021	0.352	0.215

CQS: 90.3



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
87.0	56.4	90.3

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
94	87.2	99.2

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# Photometric & Chromaticity Report

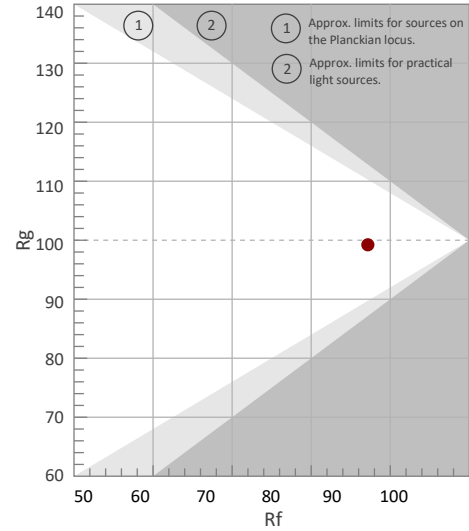
Logic MR16 Downlight S: Medium Filter Lens - 5000K

## TM-30 Details

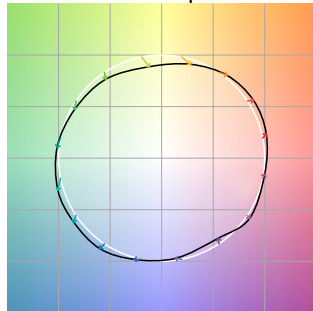
**Rf 87.2**  
Fidelity Index (Rg)

**Rg 99.2**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	88	4%	3%
2	90	5%	-3%
3	85	2%	-8%
4	83	-5%	-10%
5	84	-11%	-5%
6	90	-6%	3%
7	88	-4%	7%
8	85	1%	10%
9	85	5%	11%
10	89	5%	4%
11	88	6%	-1%
12	88	1%	-7%
13	91	-2%	-6%
14	90	-5%	2%
15	87	3%	-1%
16	90	1%	4%



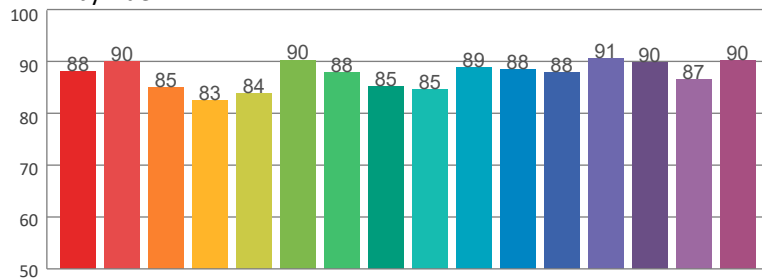
Color Vector Graphic



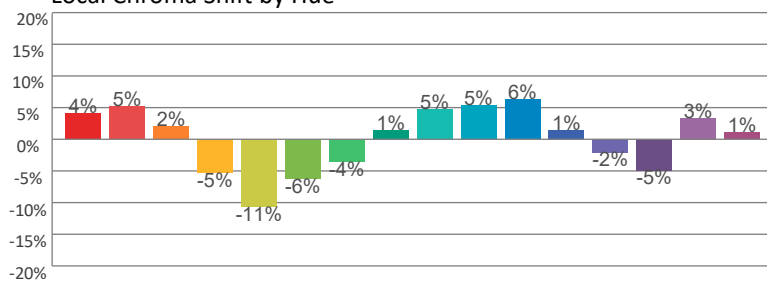
Color Distortion Graphic



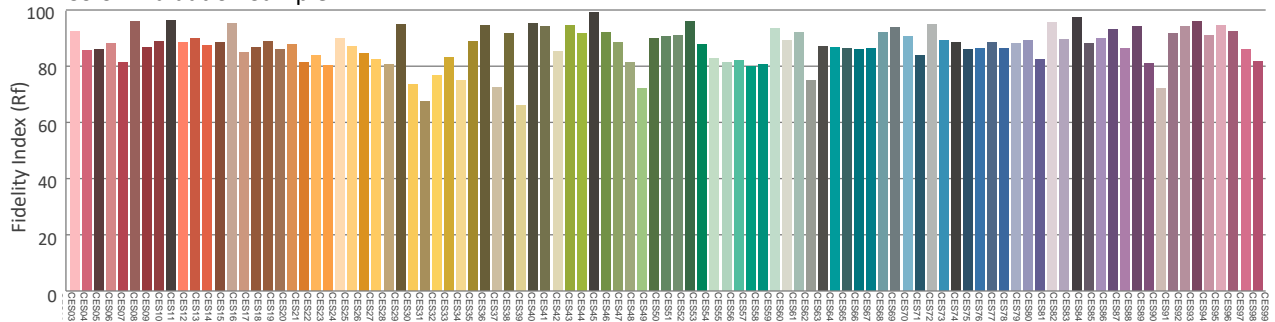
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 5600K

## Report Summary

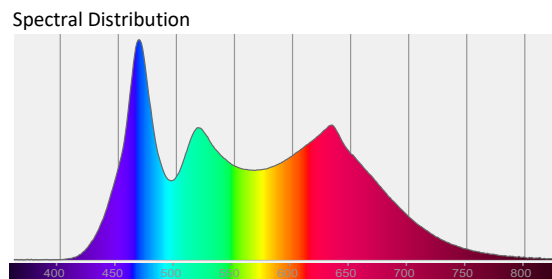
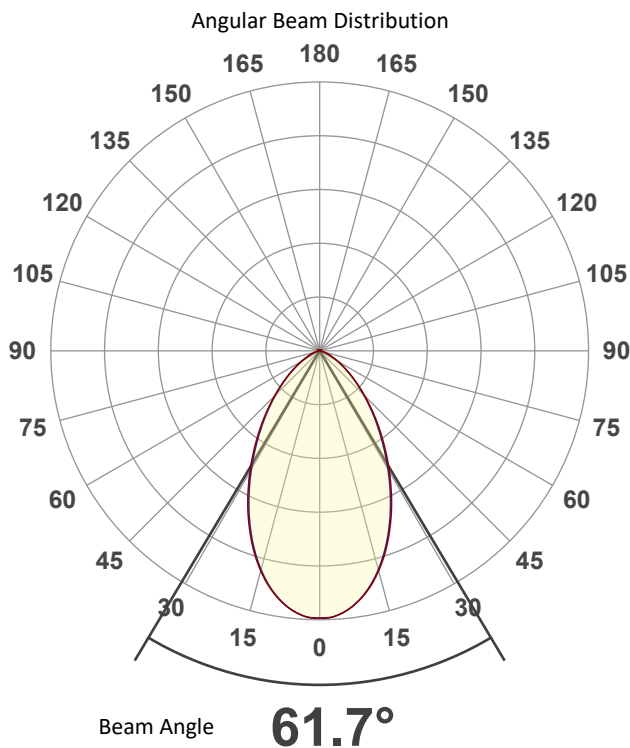
### Measurements

Fixture Output: 119 lm  
Fixture Peak: 96.3 cd  
Fixture Efficacy: 8 lm/W  
Intensity @ 5m: 4 lux  
Color Temperature: 5372 K  
CRI: 84.9      CRI R9 Value: 48.7  
CQS: 89.7  
TLCI: 90  
TM-30 Rf: 84.6  
TM-30 Rg: 98.2  
Beam Angle (50%): 61.7°  
Field Angle (10%): 114.3°  
Cutoff Angle (3%): 141.6°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 18.3 W  
Current: 0.152 A  
Power Factor: 0.84



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.336  
Y: 0.342

Light Quality  
CRI: 84.9

Color Temperature  
5372 K

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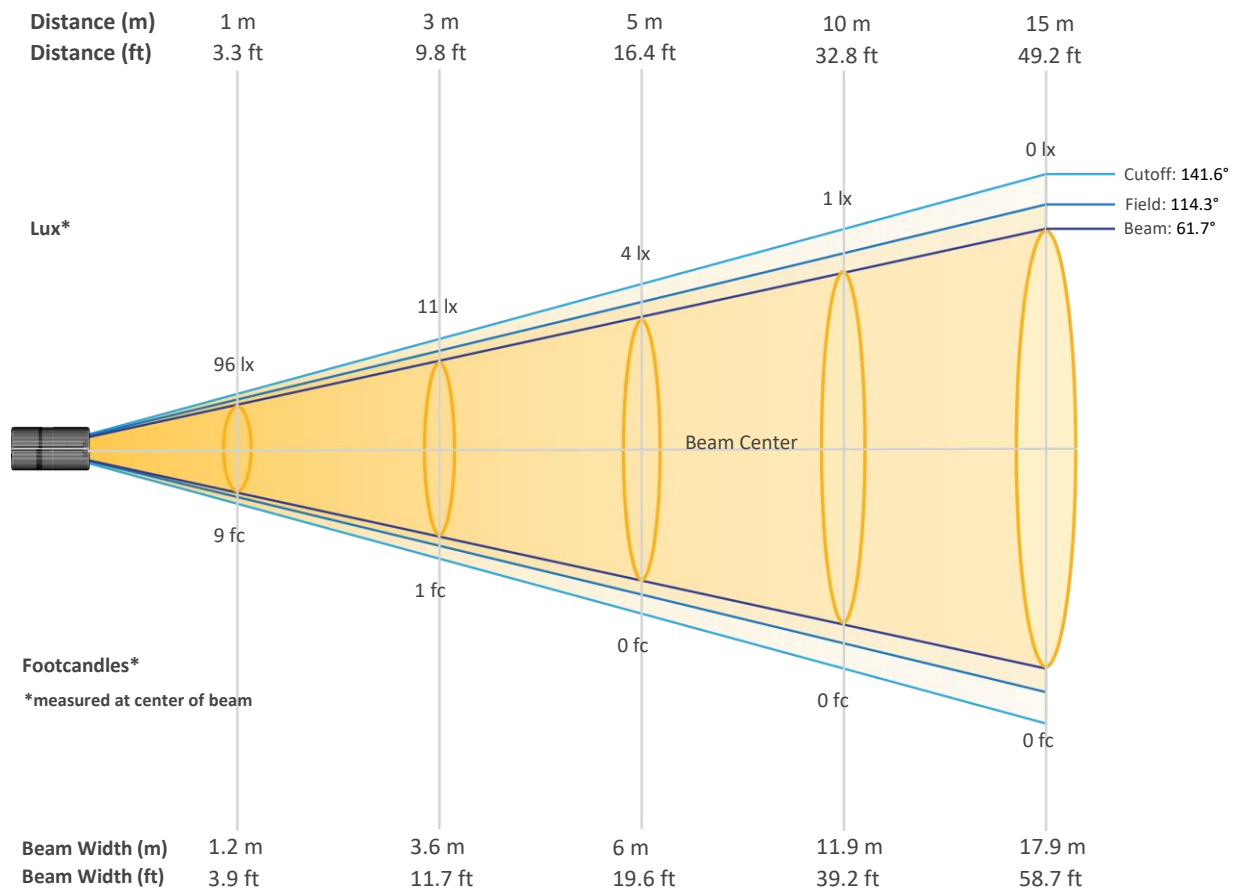
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 5600K

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	96	24	11	6	4	3	2	2	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	9	2	1	1	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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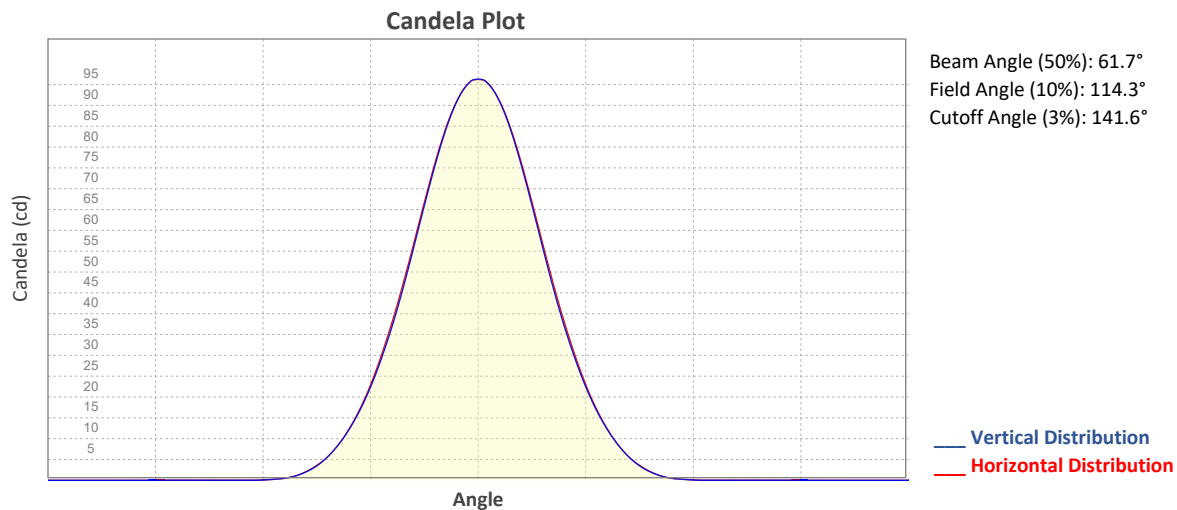
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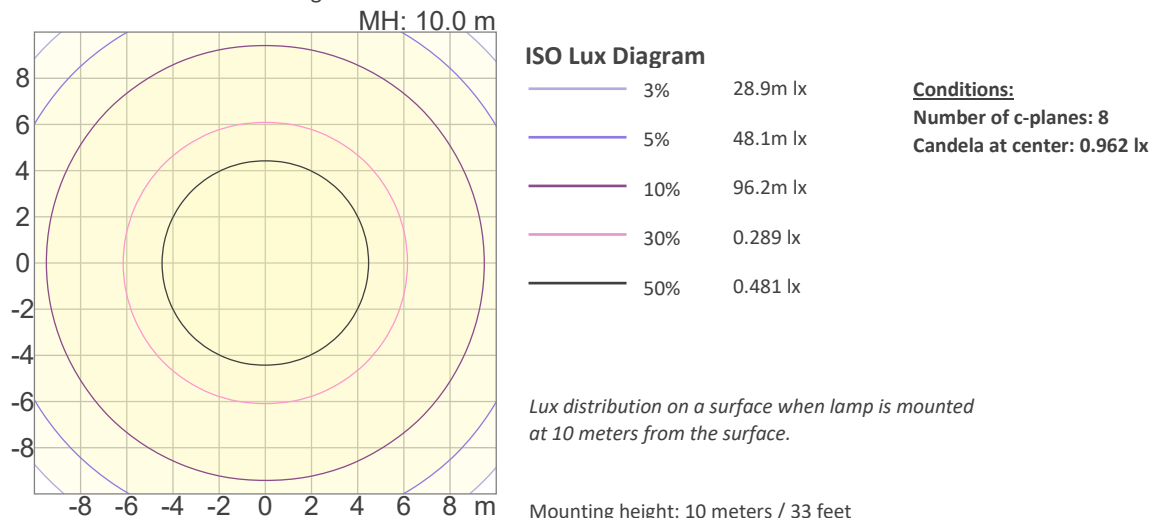
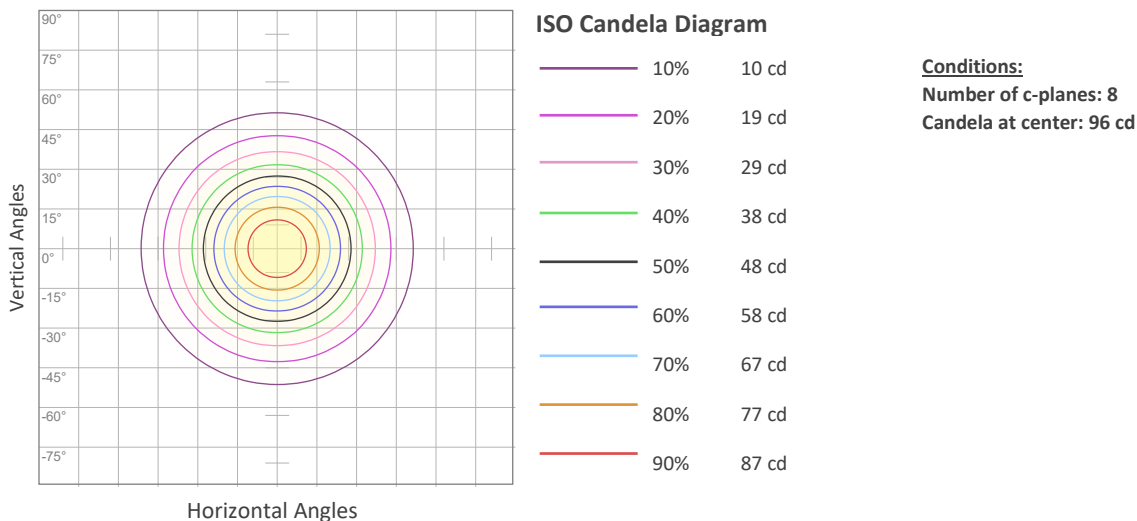
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 5600K



## ISO Diagrams



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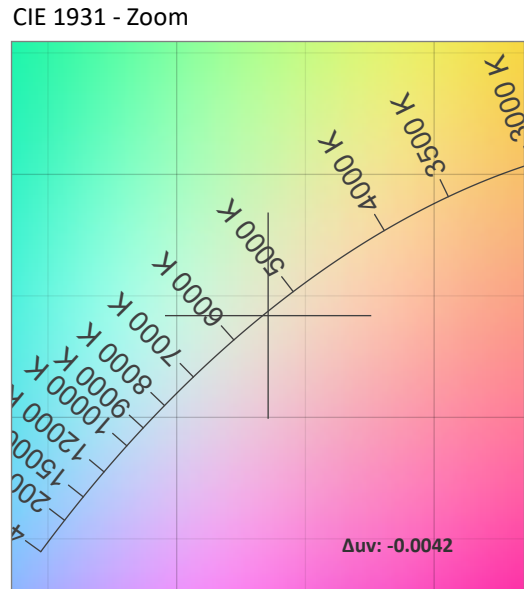
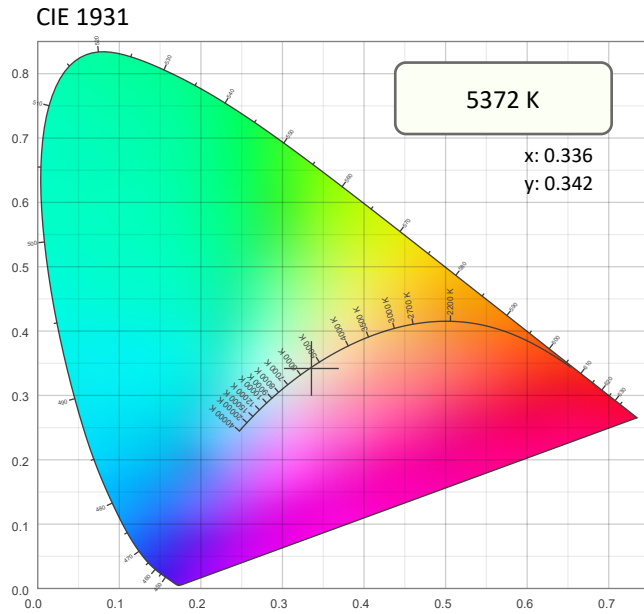
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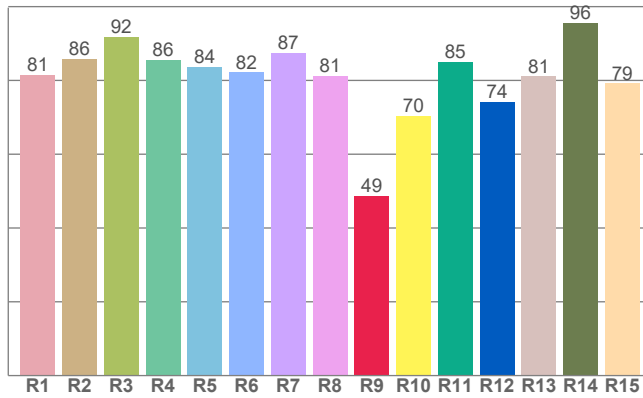
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 5600K

## Chromaticity



CRI: 84.9 (R1-R8)

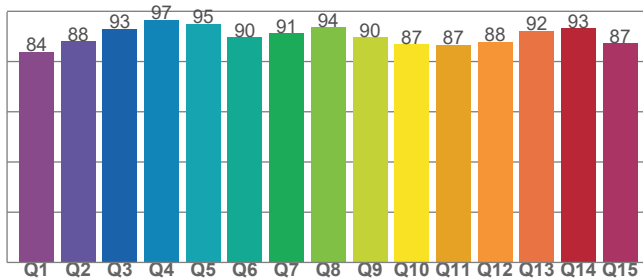


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5372 K	0.336	0.342

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0042	0.342	0.209

CQS: 89.7



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
84.9	48.7	89.7

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
90	84.6	98.2

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# Photometric & Chromaticity Report

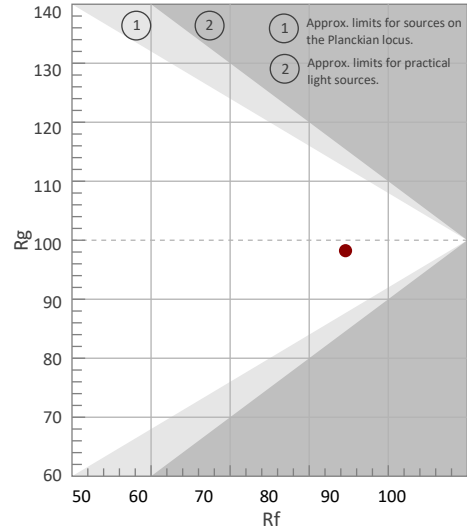
Logic MR16 Downlight S: Medium Filter Lens - 5600K

## TM-30 Details

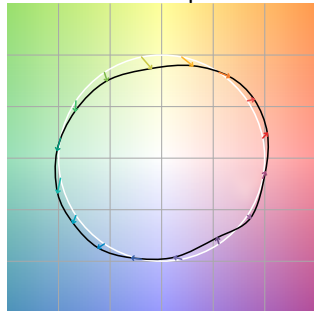
**Rf 84.6**  
Fidelity Index (Rg)

**Rg 98.2**  
Gammut Index (Rg)

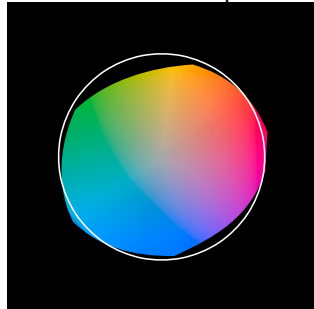
		Graphic shifts (%)	
Hue Bin	R <sub>f</sub>	Chroma	Hue
1	85	5%	4%
2	89	6%	-2%
3	81	2%	-11%
4	79	-6%	-12%
5	80	-13%	-7%
6	88	-8%	2%
7	86	-5%	8%
8	80	1%	12%
9	84	6%	4%
10	87	6%	4%
11	86	7%	-3%
12	86	0%	-10%
13	89	-3%	-7%
14	89	-6%	2%
15	85	4%	0%
16	88	1%	6%



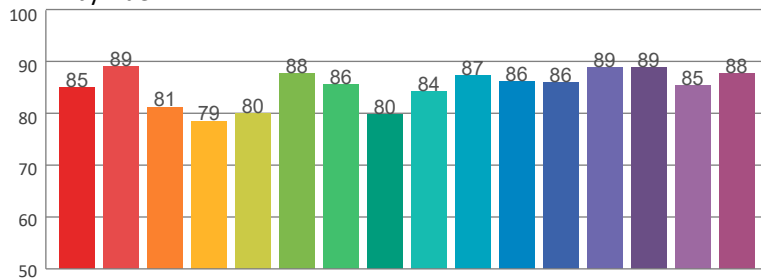
Color Vector Graphic



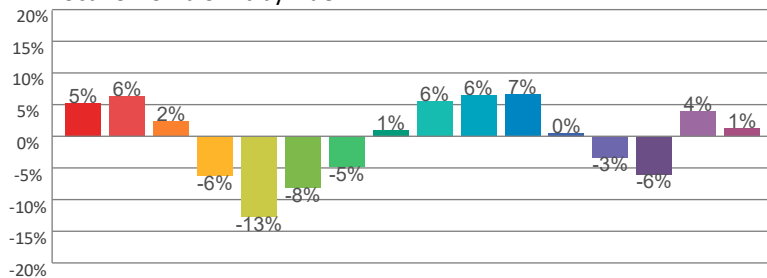
Color Distortion Graphic



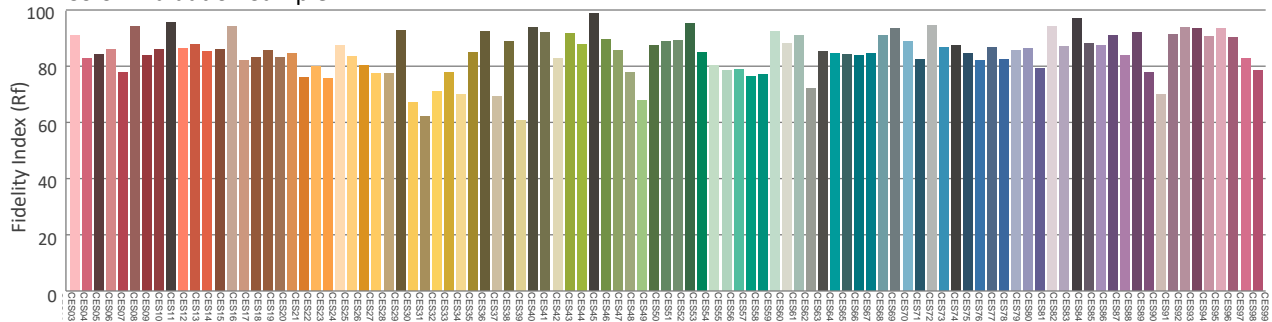
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 6000K

## Report Summary

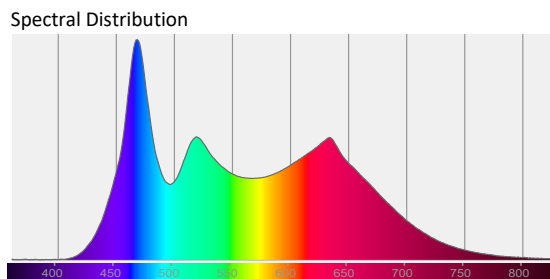
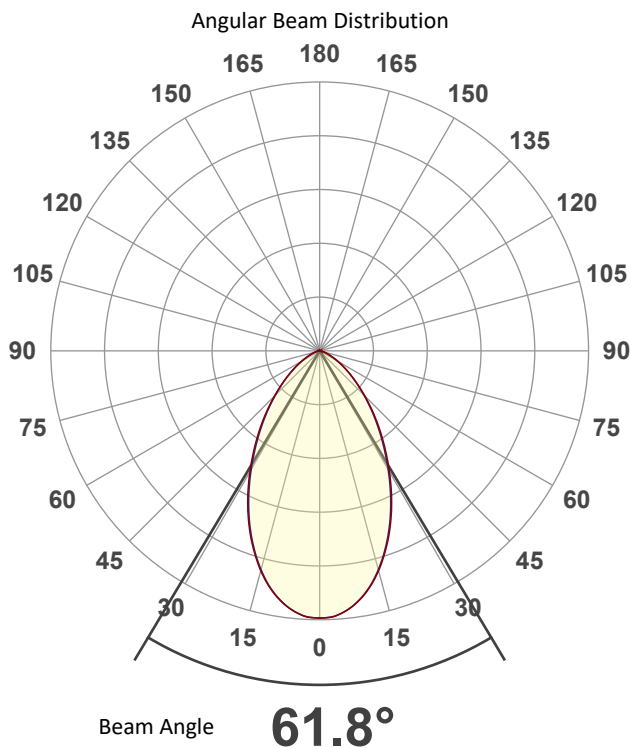
### Measurements

Fixture Output: 121 lm  
Fixture Peak: 97.7 cd  
Fixture Efficacy: 8 lm/W  
Intensity @ 5m: 4 lux  
Color Temperature: 5681 K  
CRI: 83.1      CRI R9 Value: 41.7  
CQS: 88.4  
TLCI: 87  
TM-30 Rf: 82.9  
TM-30 Rg: 97.6  
Beam Angle (50%): 61.8°  
Field Angle (10%): 114.4°  
Cutoff Angle (3%): 141.8°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 18.37 W  
Current: 0.153 A  
Power Factor: 0.84



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.329  
Y: 0.335

Light Quality  
CRI: 83.1

Color Temperature  
5681 K

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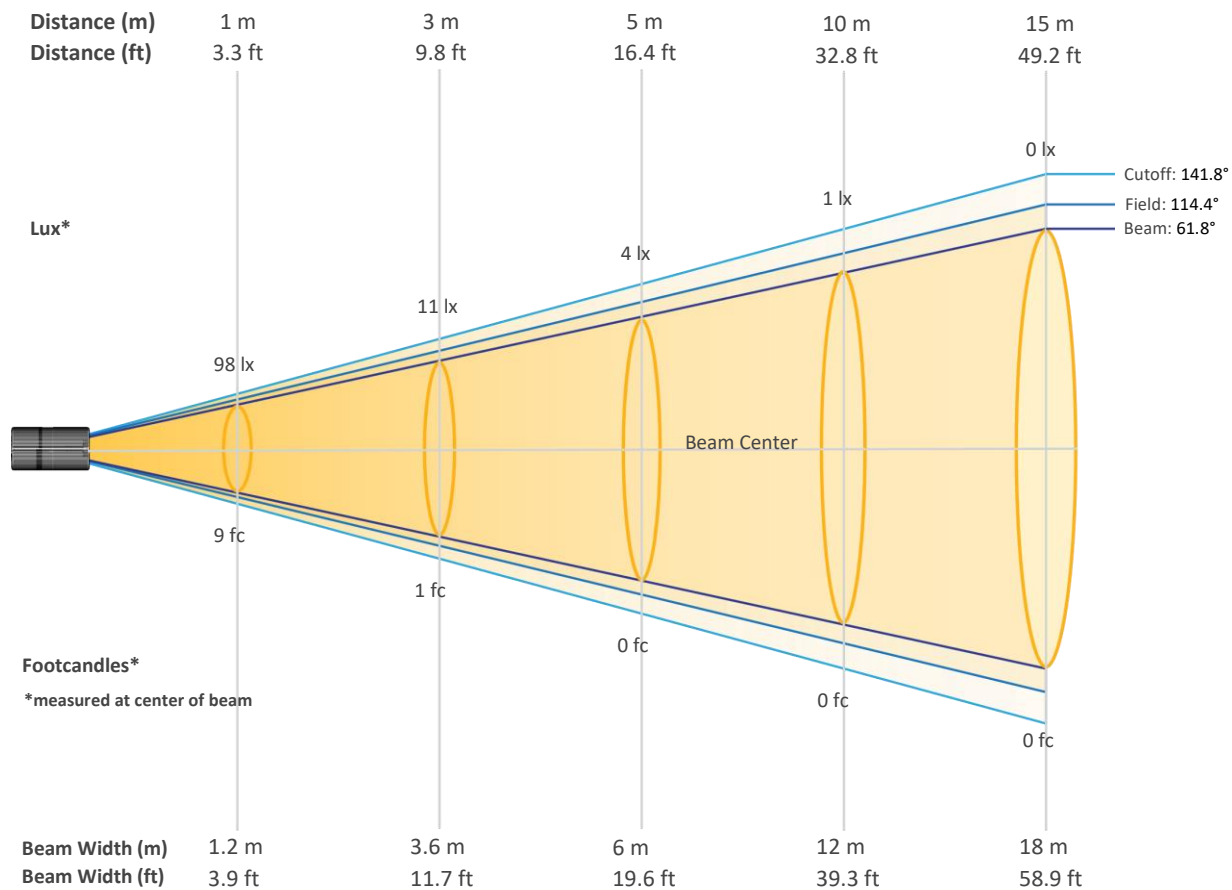
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 6000K

## Beam Details



### Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	98	24	11	6	4	3	2	2	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	9	2	1	1	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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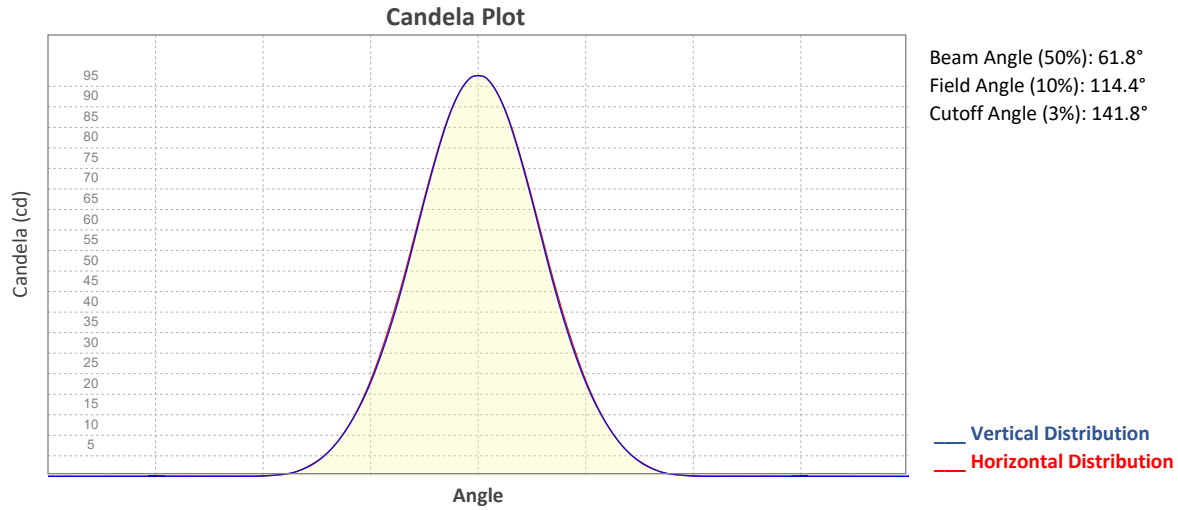
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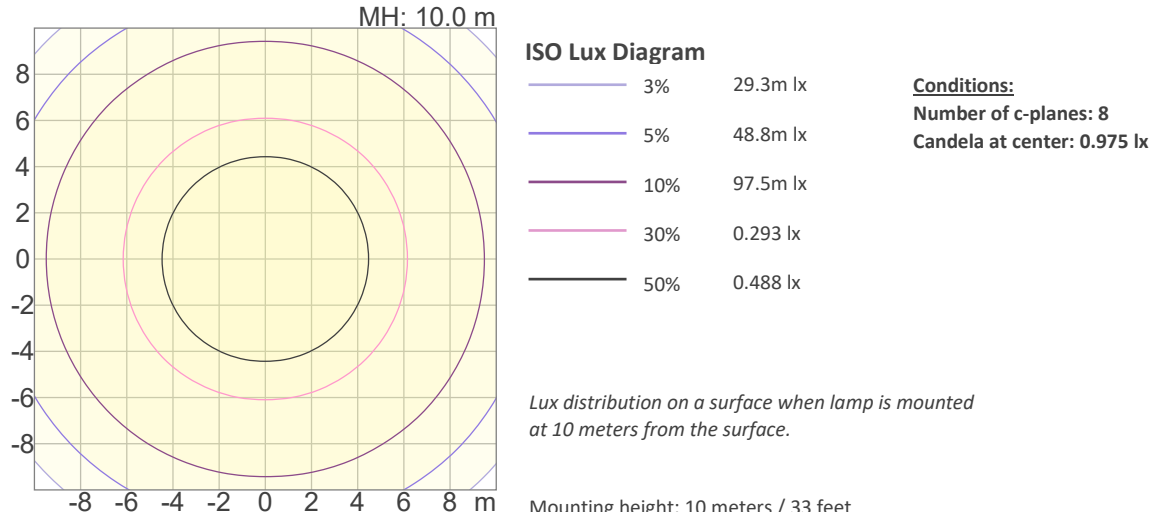
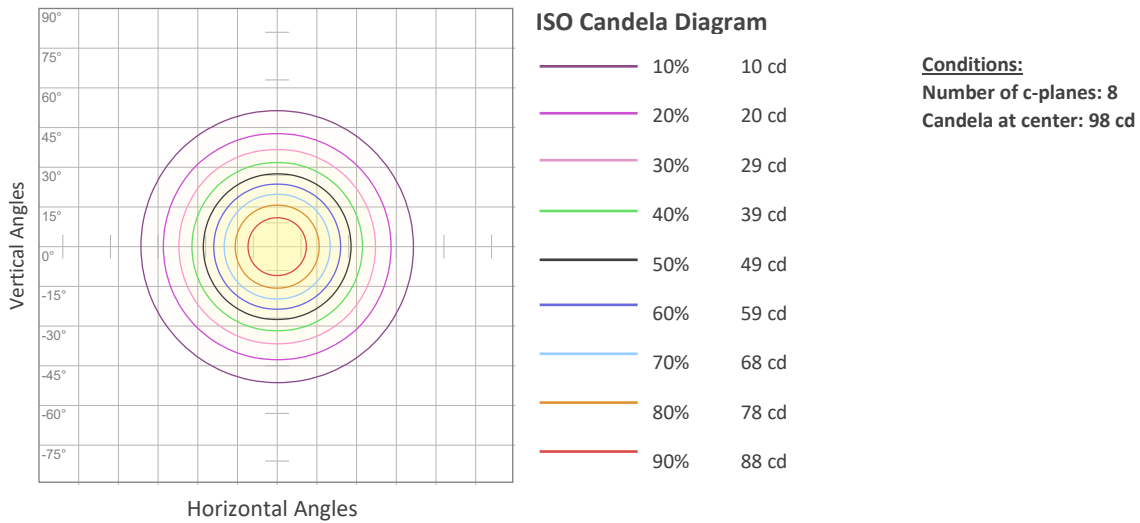
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 6000K



## ISO Diagrams



Mounting height: 10 meters / 33 feet

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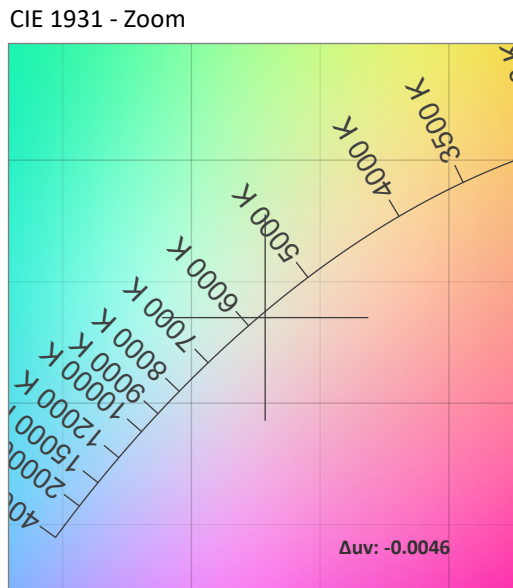
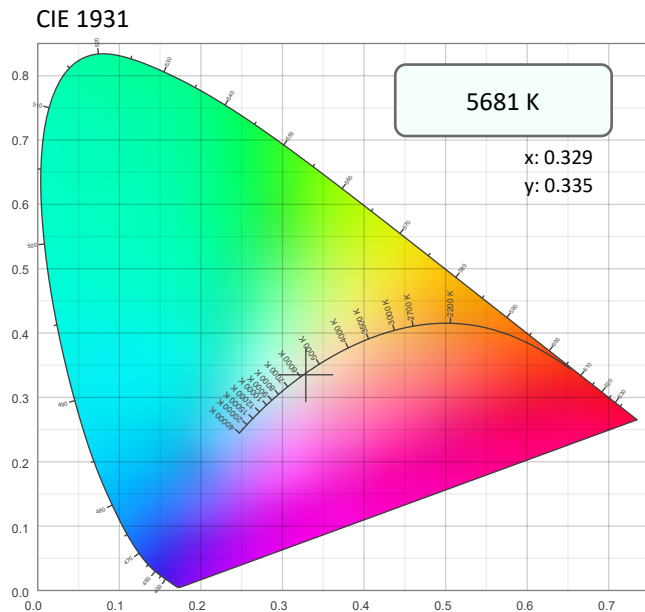
All product specifications, measurements and dimensions are subject to change without notice

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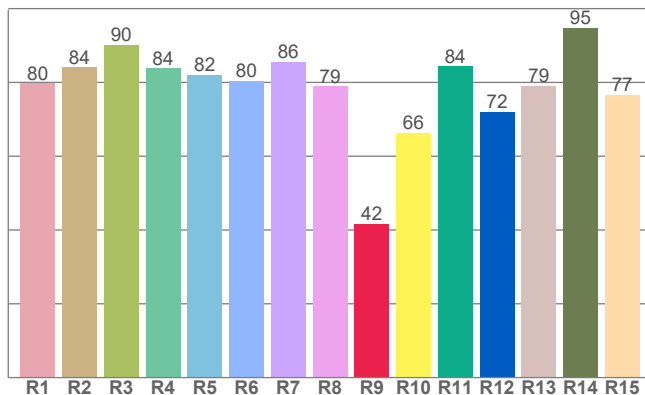
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 6000K

## Chromaticity



CRI: 83.1 (R1-R8)

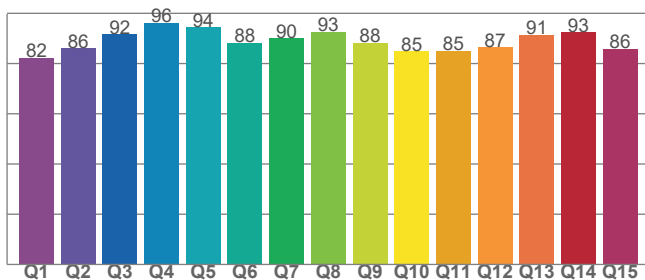


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5681 K	0.329	0.335

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0046	0.335	0.207

CQS: 88.4



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
83.1	41.7	88.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
87	82.9	97.6

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# Photometric & Chromaticity Report

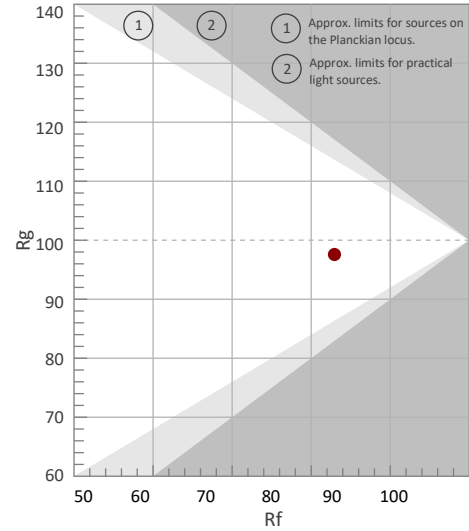
Logic MR16 Downlight S: Medium Filter Lens - 6000K

## TM-30 Details

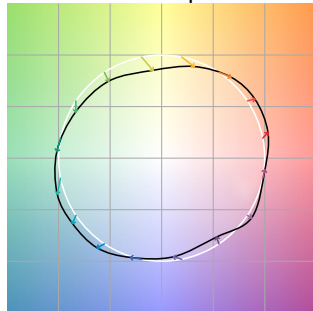
**Rf 82.9**  
Fidelity Index (Rg)

**Rg 97.6**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	83	6%	4%
2	88	7%	-3%
3	79	3%	-12%
4	76	-7%	-13%
5	74	-15%	-8%
6	87	-9%	1%
7	84	-6%	9%
8	78	1%	14%
9	83	6%	14%
10	86	7%	5%
11	85	7%	-4%
12	84	0%	-11%
13	88	-4%	-7%
14	87	-7%	2%
15	85	5%	0%
16	86	0%	9%



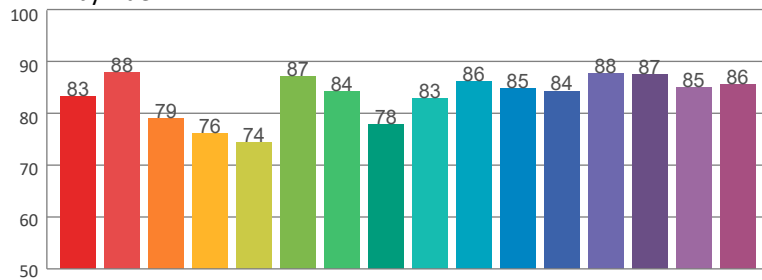
Color Vector Graphic



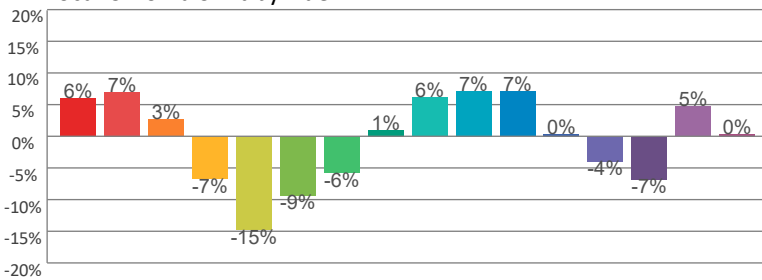
Color Distortion Graphic



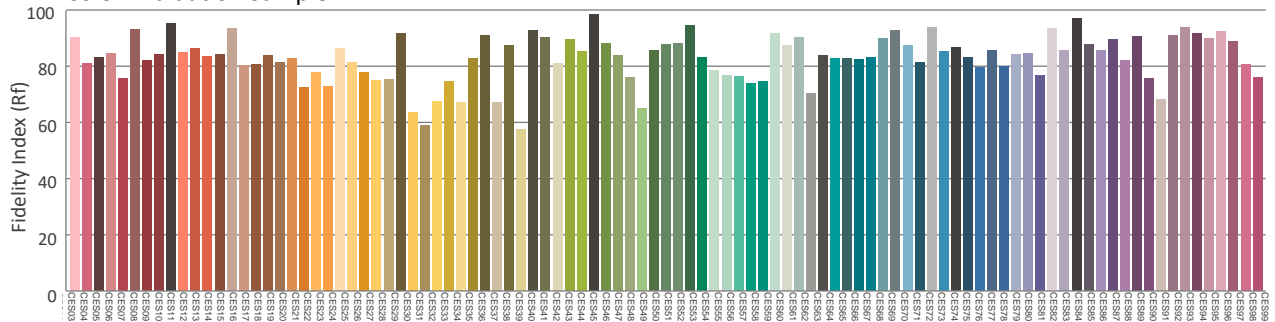
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 6500K

## Report Summary

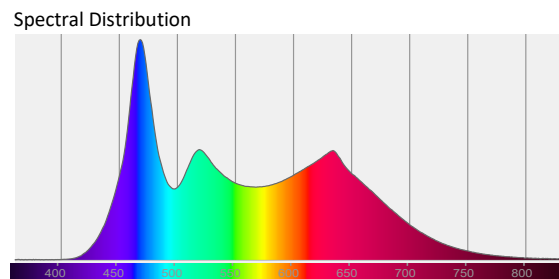
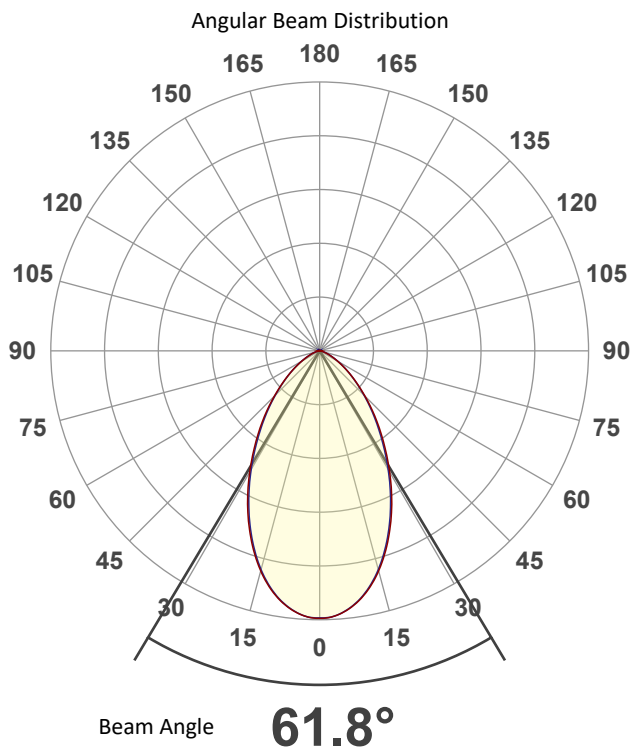
### Measurements

Fixture Output: 122 lm  
Fixture Peak: 98.4 cd  
Fixture Efficacy: 8 lm/W  
Intensity @ 5m: 4 lux  
Color Temperature: 6075 K  
CRI: 80.5      CRI R9 Value: 32.1  
CQS: 87.0  
TLCI: 85  
TM-30 Rf: 80.9  
TM-30 Rg: 97.3  
Beam Angle (50%): 61.8°  
Field Angle (10%): 114.5°  
Cutoff Angle (3%): 142°  
Conditions  
AC Supply: 120 V, 60.1 Hz  
Power: 18.48 W  
Current: 0.153 A  
Power Factor: 0.84



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

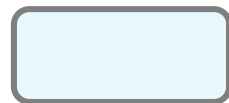
## Overall Measurement



Tested Color (CIE 1931):

X: 0.321

Y: 0.326



Light Quality

CRI: 80.5

Color Temperature

6075 K

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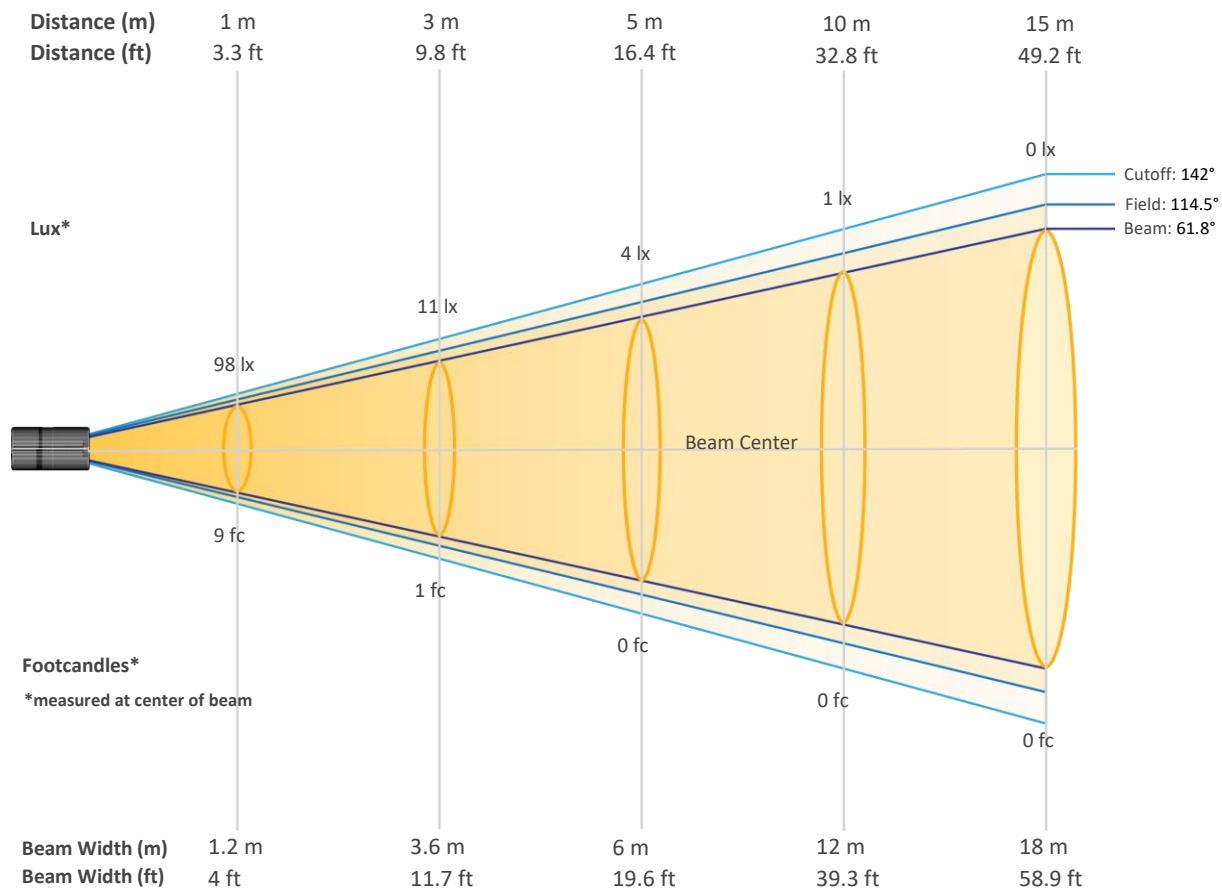
All product specifications, measurements and dimensions are subject to change without notice

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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 6500K

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	98	25	11	6	4	3	2	2	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	9	2	1	1	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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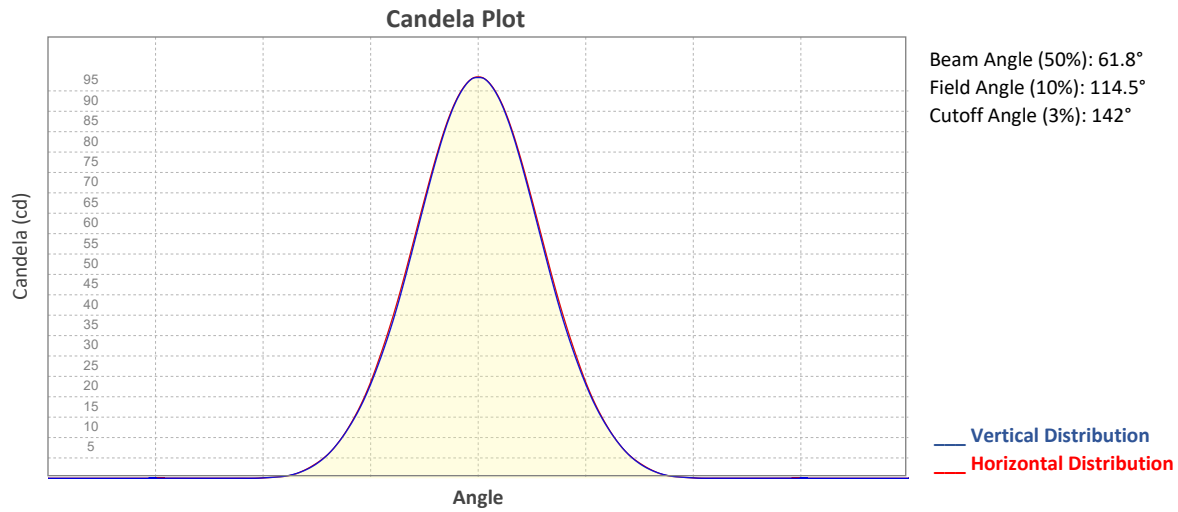
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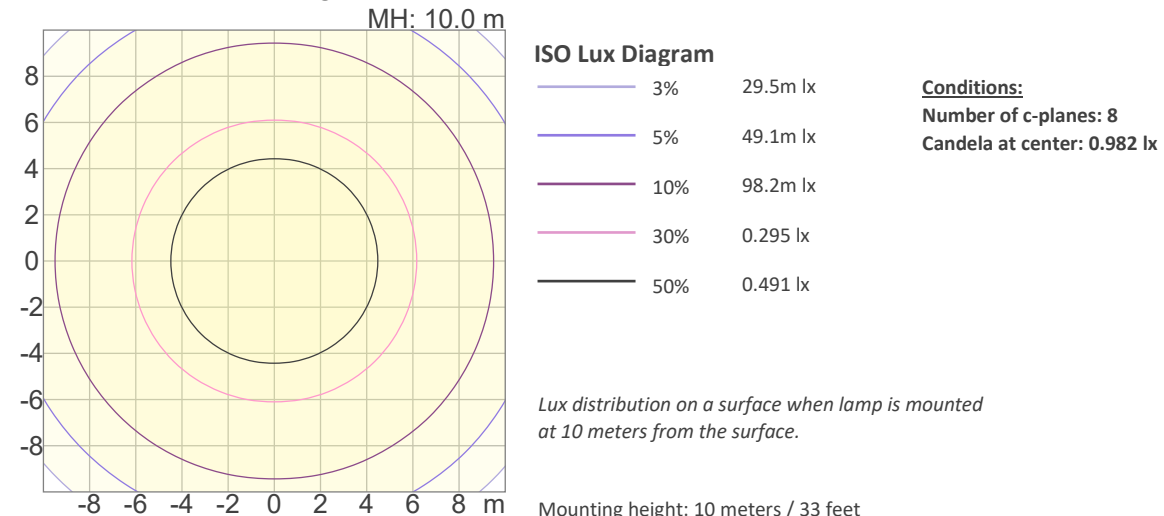
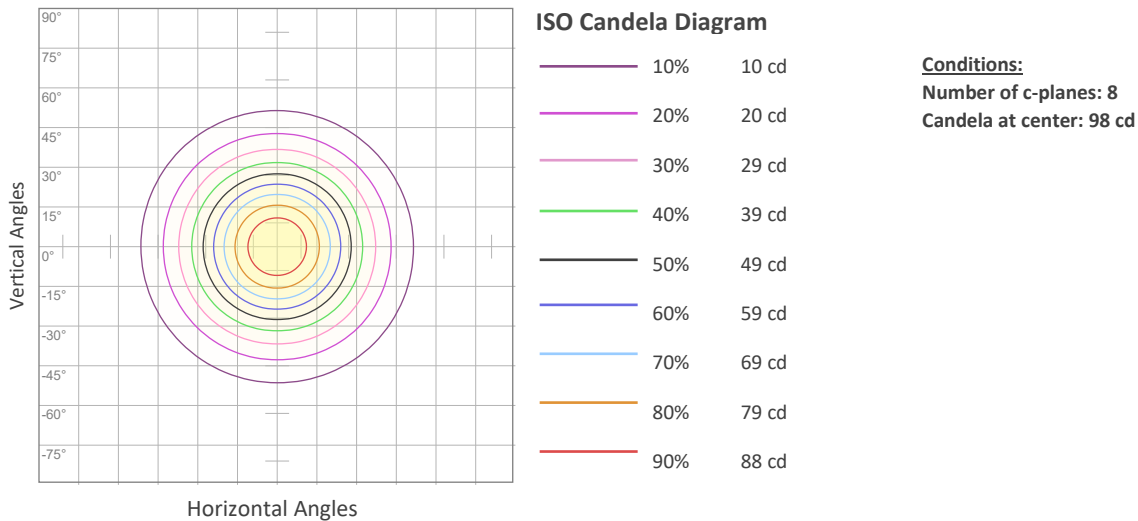
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 6500K



## ISO Diagrams



Mounting height: 10 meters / 33 feet

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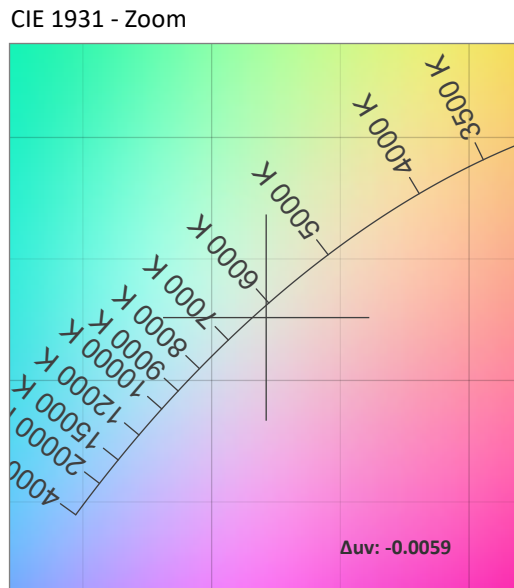
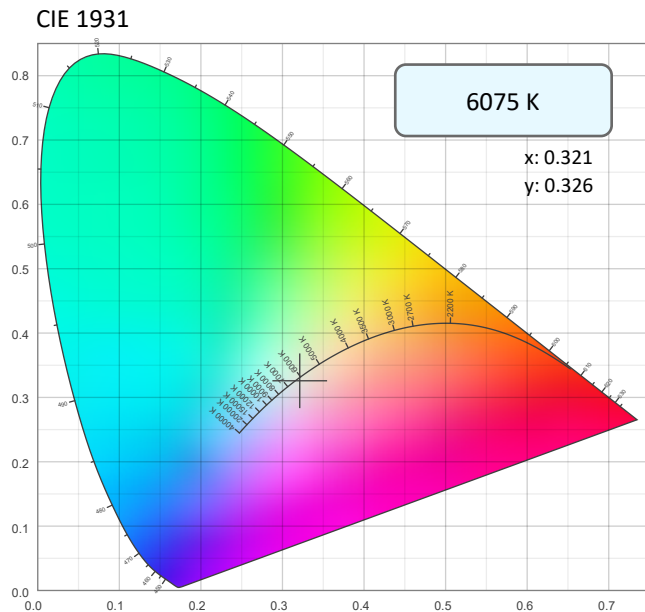
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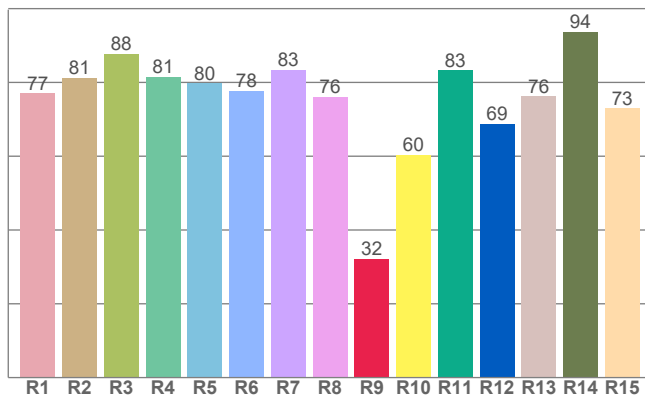
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 6500K

## Chromaticity



CRI: 80.5 (R1-R8)

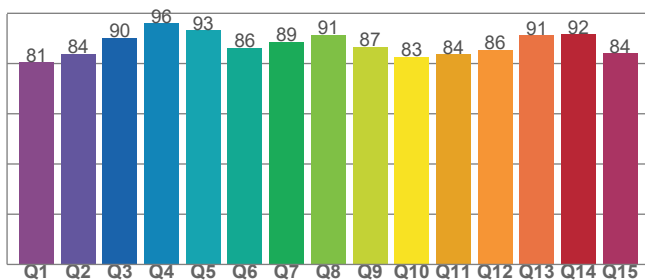


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6075 K	0.321	0.326

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0059	0.326	0.205

CQS: 87.0



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
80.5	32.1	87.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
85	80.9	97.3

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# Photometric & Chromaticity Report

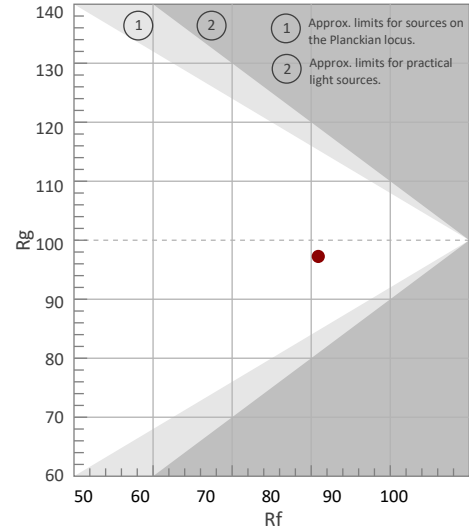
Logic MR16 Downlight S: Medium Filter Lens - 6500K

## TM-30 Details

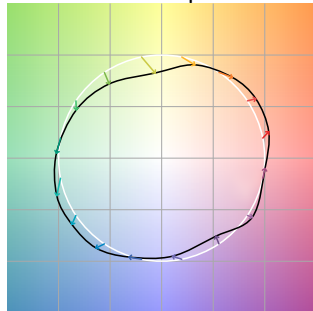
**Rf 80.9**  
Fidelity Index (Rg)

**Rg 97.3**  
Gammut Index (Rg)

Graphic shifts (%)			
Hue Bin	R <sub>f</sub>	Chroma	Hue
1	81	7%	5%
2	86	8%	-3%
3	77	3%	-14%
4	76	-5%	-14%
5	70	-18%	-10%
6	83	-12%	2%
7	87	-5%	7%
8	75	1%	15%
9	81	7%	16%
10	85	8%	5%
11	83	8%	-4%
12	82	0%	-12%
13	86	-5%	-8%
14	86	-8%	2%
15	84	5%	1%
16	84	0%	10%



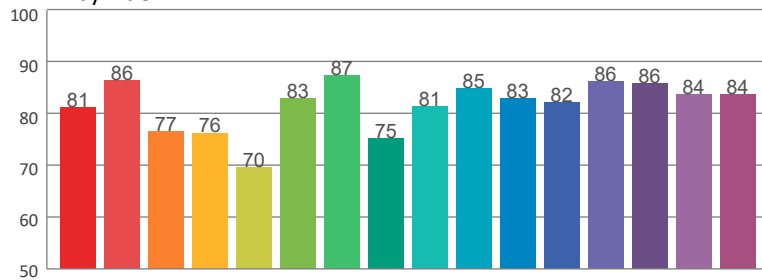
Color Vector Graphic



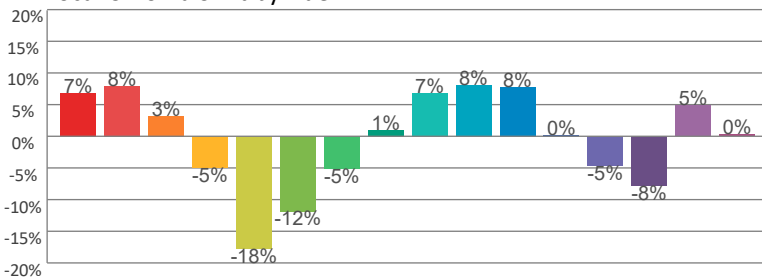
Color Distortion Graphic



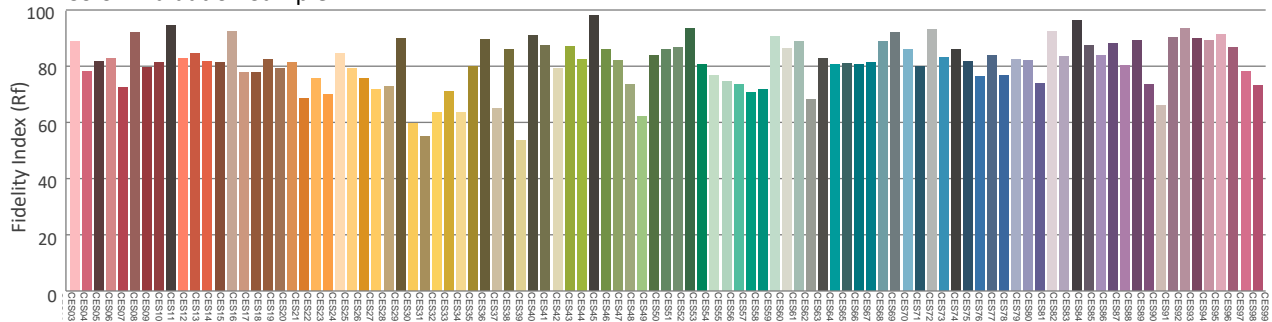
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 7000K

## Report Summary

### Measurements

Fixture Output: 125 lm  
Fixture Peak: 100 cd  
Fixture Efficacy: 8 lm/W  
Intensity @ 5m: 4 lux  
Color Temperature: 6609 K  
CRI: 78.9      CRI R9 Value: 26.3  
CQS: 85.2  
TLCI: 83  
TM-30 Rf: 79.0  
TM-30 Rg: 95.9  
Beam Angle (50%): 61.8°  
Field Angle (10%): 114.4°  
Cutoff Angle (3%): 141.8°

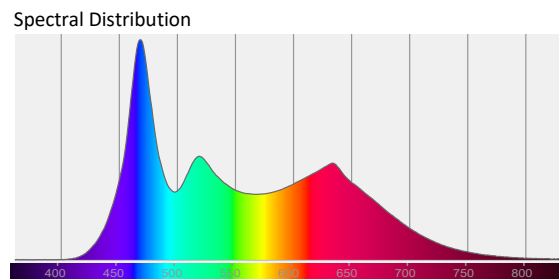
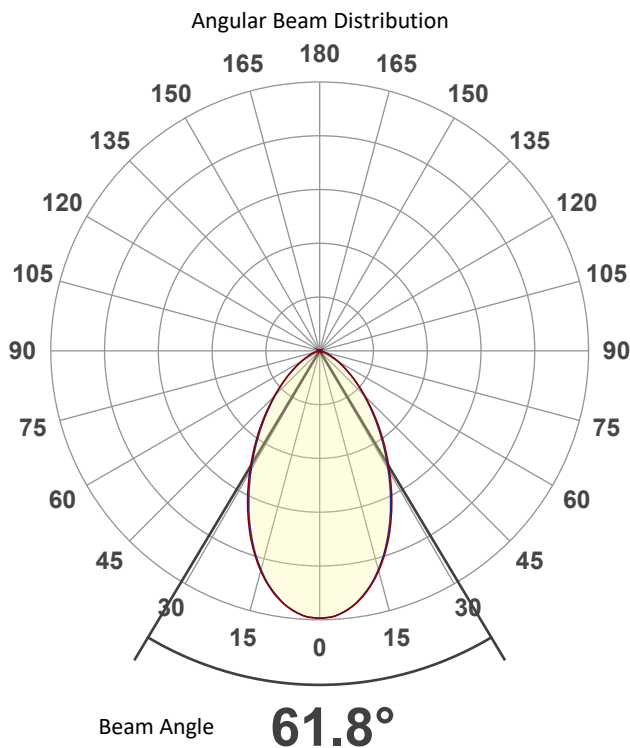
### Conditions

AC Supply: 120 V, 60 Hz  
Power: 18.58 W  
Current: 0.155 A  
Power Factor: 0.84



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

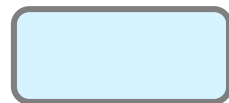
## Overall Measurement



Tested Color (CIE 1931):

X: 0.312

Y: 0.319



Light Quality

CRI: 78.9

Color Temperature

6609 K

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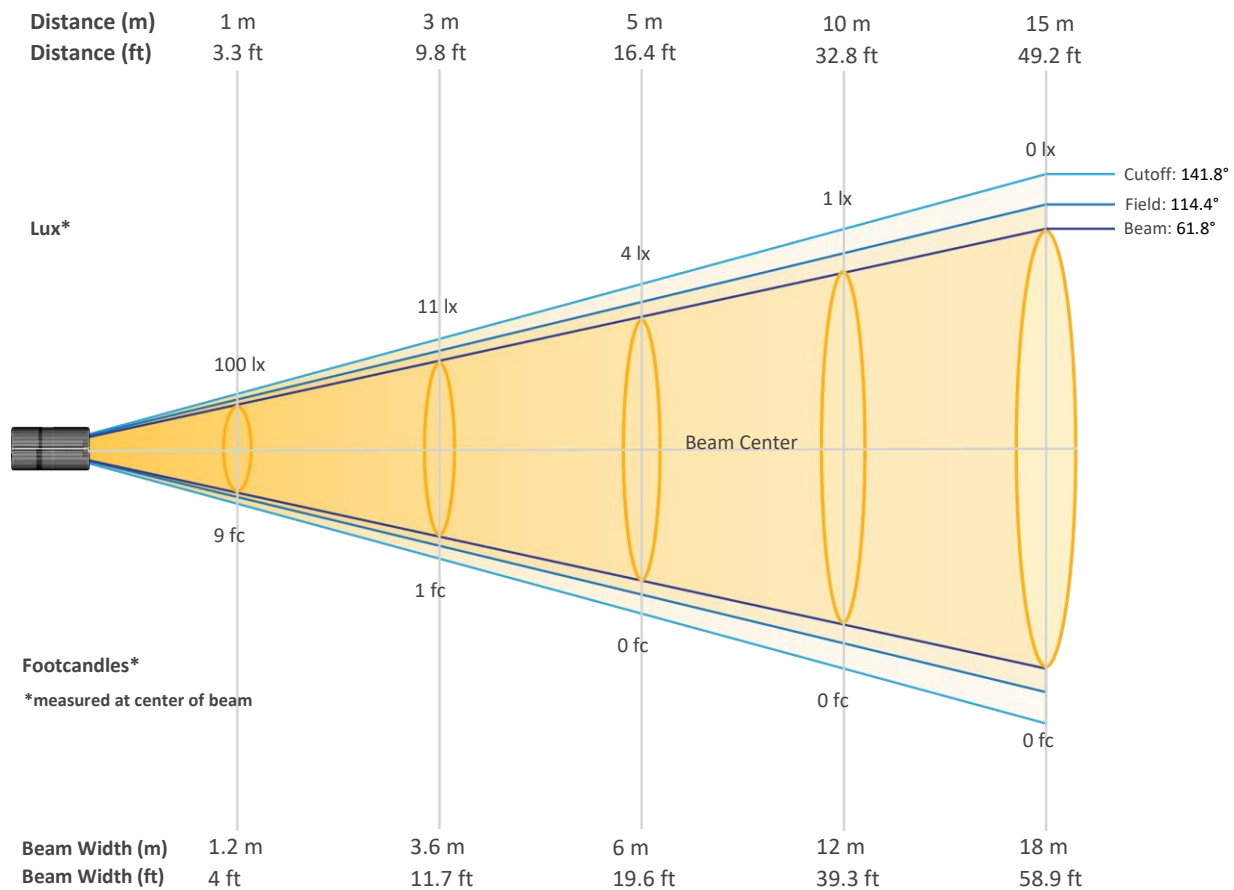
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 7000K

## Beam Details



### Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	100	25	11	6	4	3	2	2	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	9	2	1	1	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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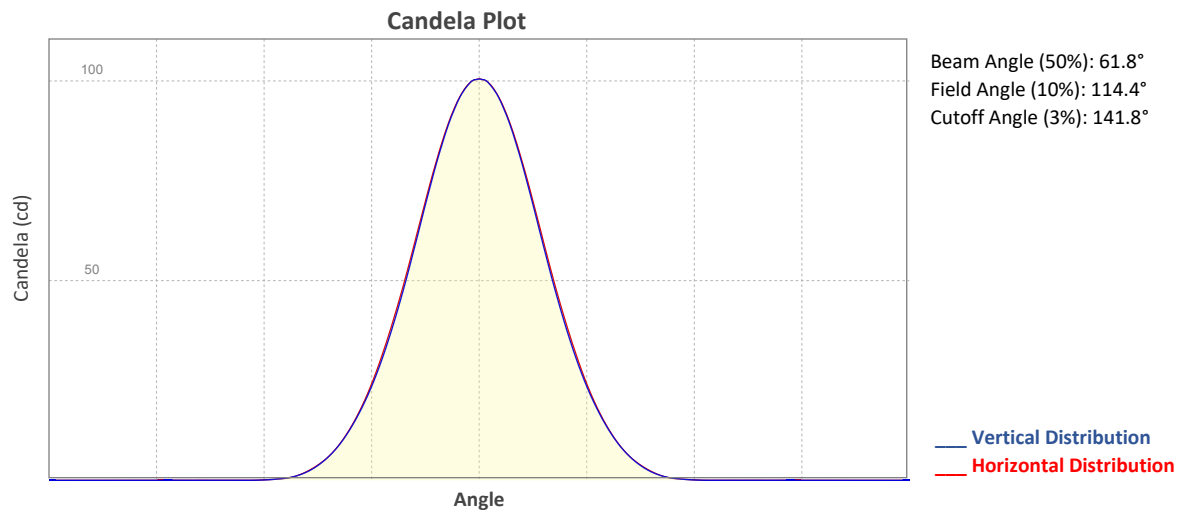
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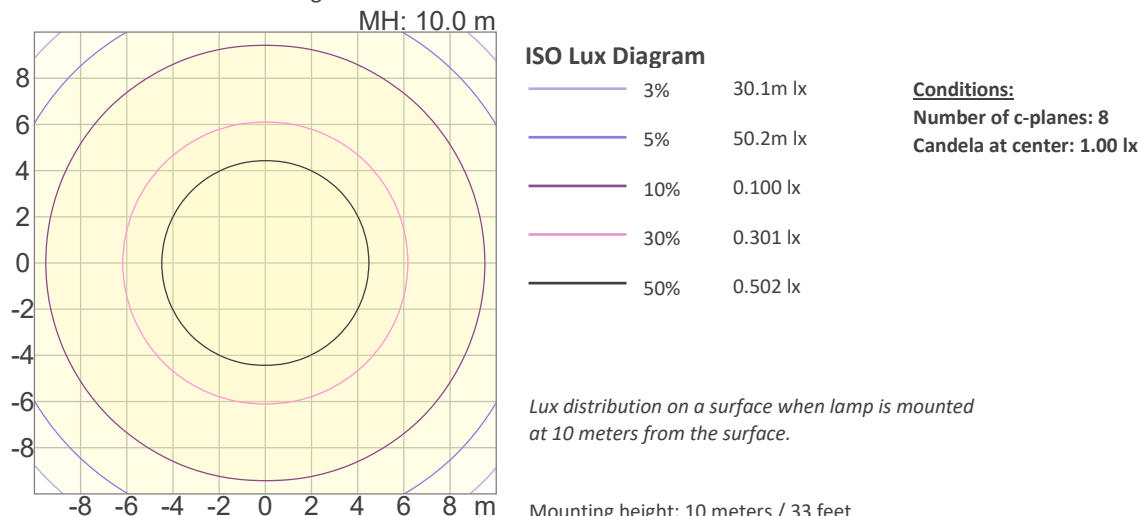
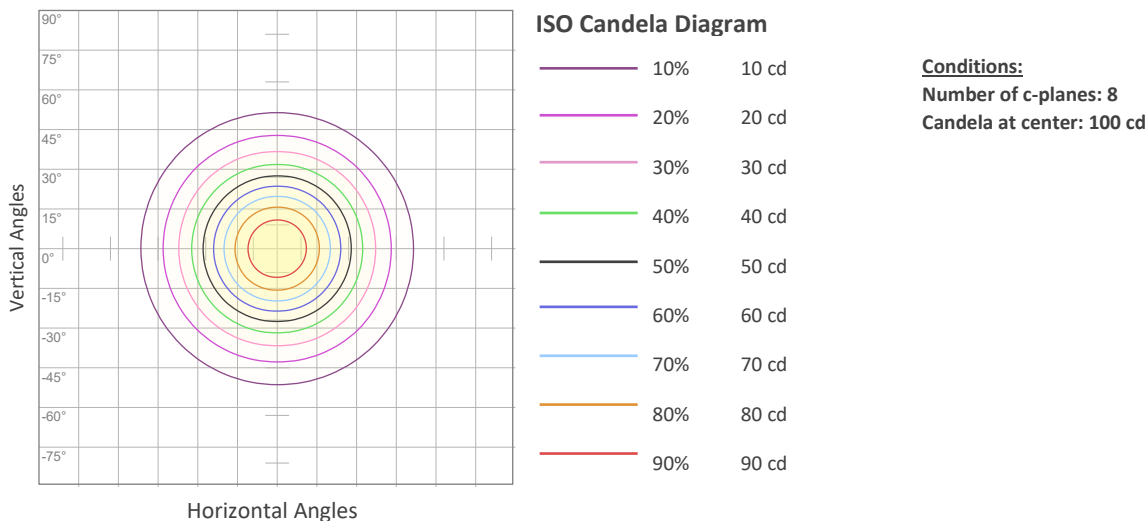
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 7000K



## ISO Diagrams



Mounting height: 10 meters / 33 feet

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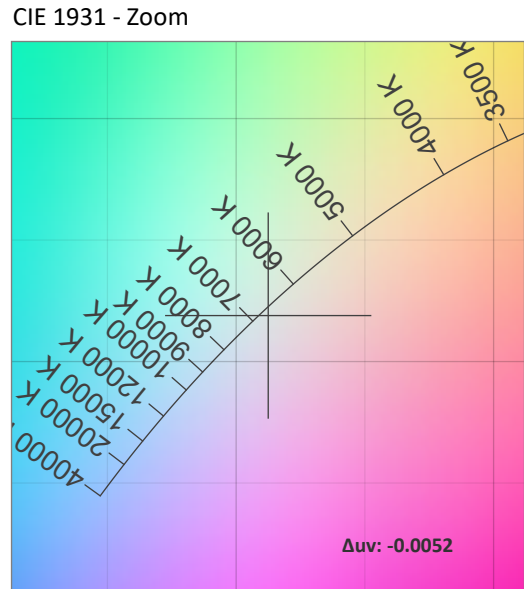
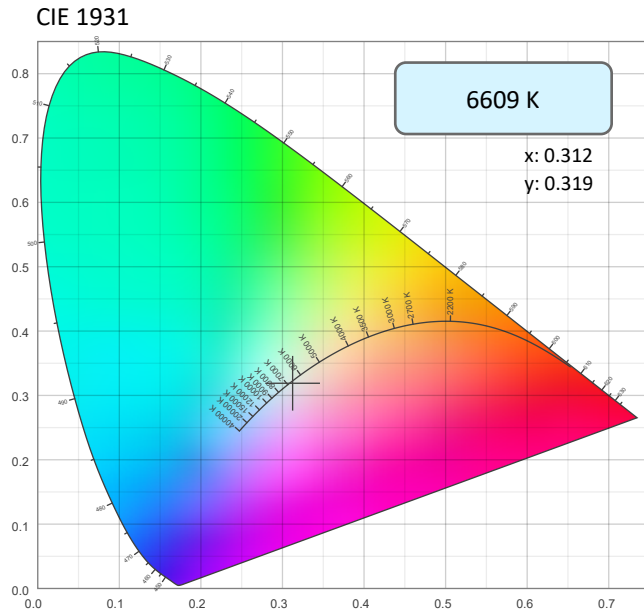
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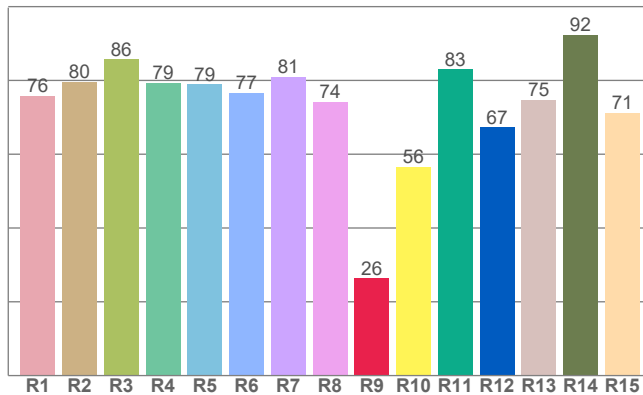
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 7000K

## Chromaticity



CRI: 78.9 (R1-R8)

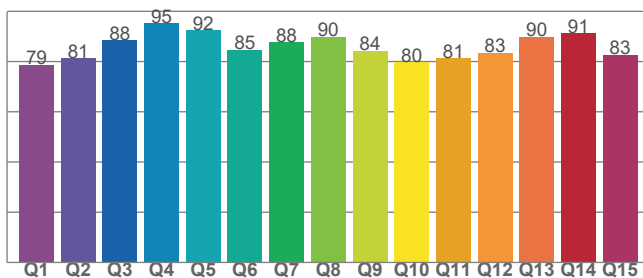


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6609 K	0.312	0.319

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0052	0.319	0.202

CQS: 85.2



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
78.9	26.3	85.2

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
83	79.0	95.9

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# Photometric & Chromaticity Report

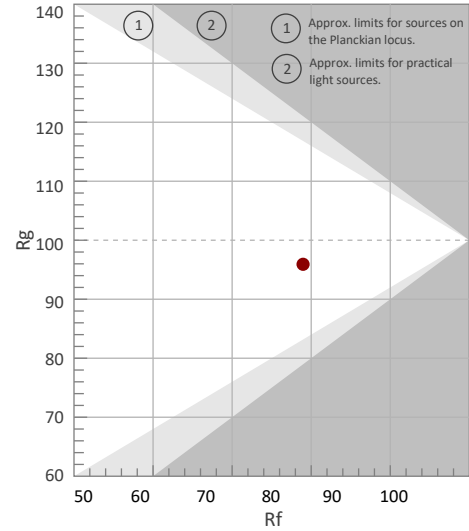
Logic MR16 Downlight S: Medium Filter Lens - 7000K

## TM-30 Details

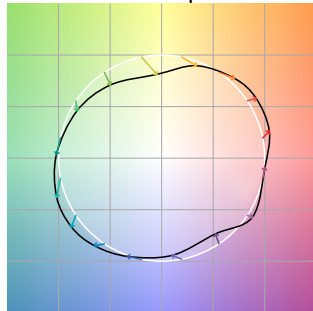
**Rf 79.0**  
Fidelity Index (Rg)

**Rg 95.9**  
Gammut Index (Rg)

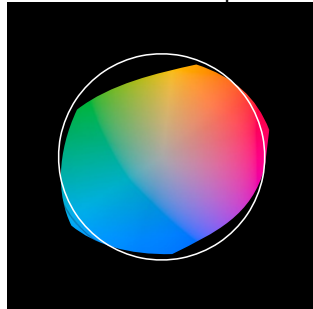
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	79	8%	5%
2	83	8%	-3%
3	76	4%	-16%
4	73	-6%	-15%
5	66	-19%	-11%
6	81	-13%	2%
7	86	-6%	7%
8	73	1%	16%
9	80	7%	17%
10	83	10%	7%
11	81	7%	-7%
12	80	0%	-14%
13	85	-6%	-8%
14	83	-10%	3%
15	82	5%	1%
16	82	0%	11%



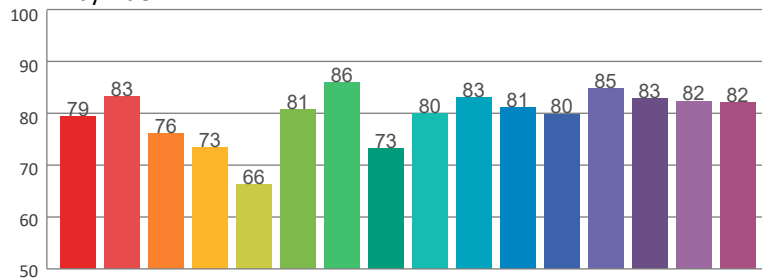
Color Vector Graphic



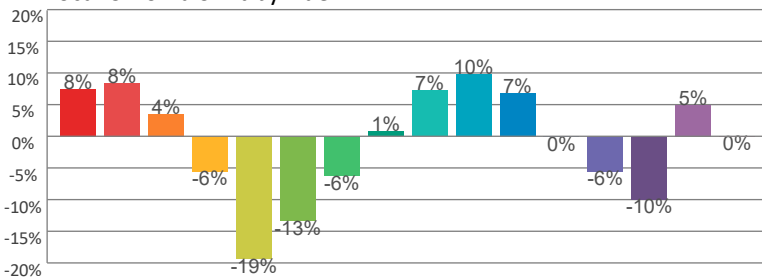
Color Distortion Graphic



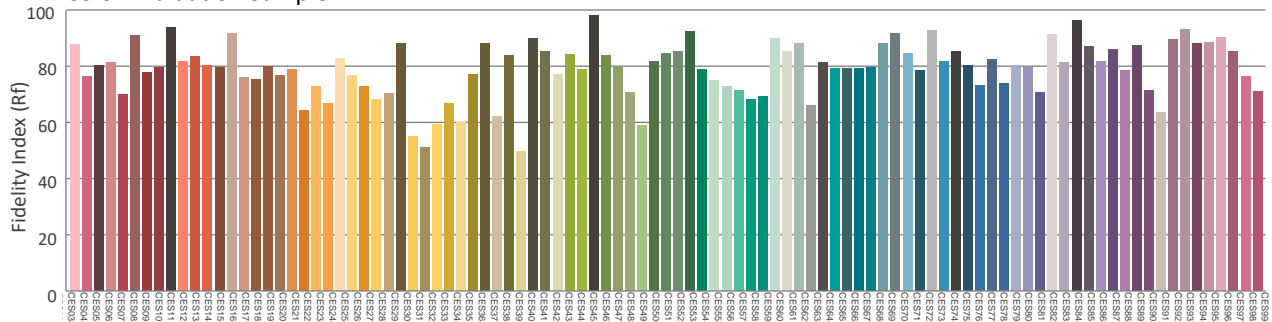
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 8000K

## Report Summary

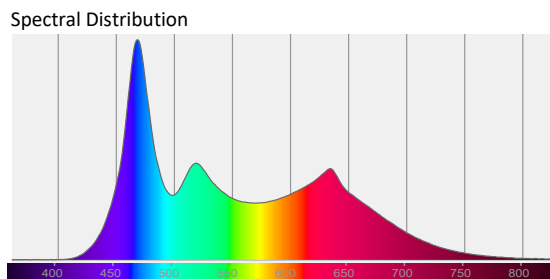
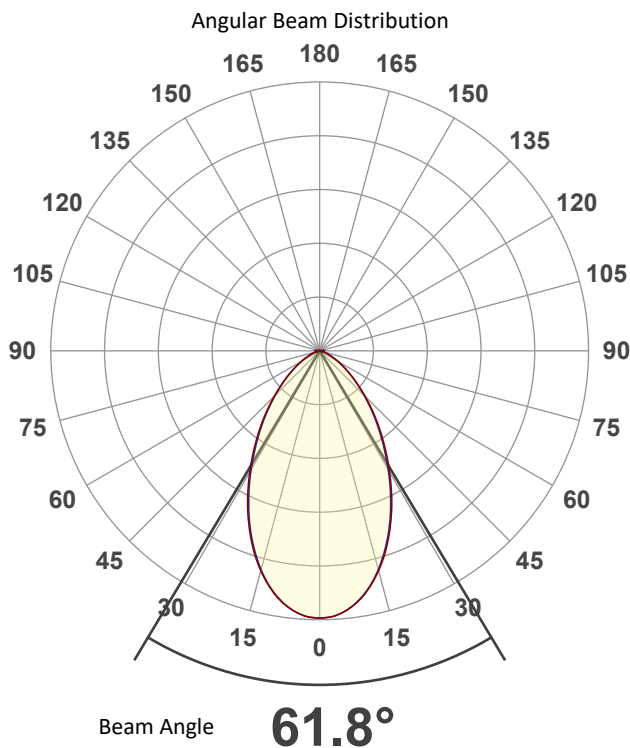
### Measurements

Fixture Output: 130 lm  
Fixture Peak: 105 cd  
Fixture Efficacy: 8 lm/W  
Intensity @ 5m: 4 lux  
Color Temperature: 7344 K  
CRI: 75.6      CRI R9 Value: 10.5  
CQS: 82.4  
TLCI: 78  
TM-30 Rf: 76.1  
TM-30 Rg: 95.6  
Beam Angle (50%): 61.8°  
Field Angle (10%): 114.5°  
Cutoff Angle (3%): 141.9°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 18.89 W  
Current: 0.157 A  
Power Factor: 0.84



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

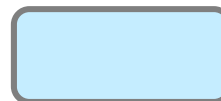
## Overall Measurement



Tested Color (CIE 1931):

X: 0.303

Y: 0.310



Light Quality

CRI: 75.6

Color Temperature

7344 K

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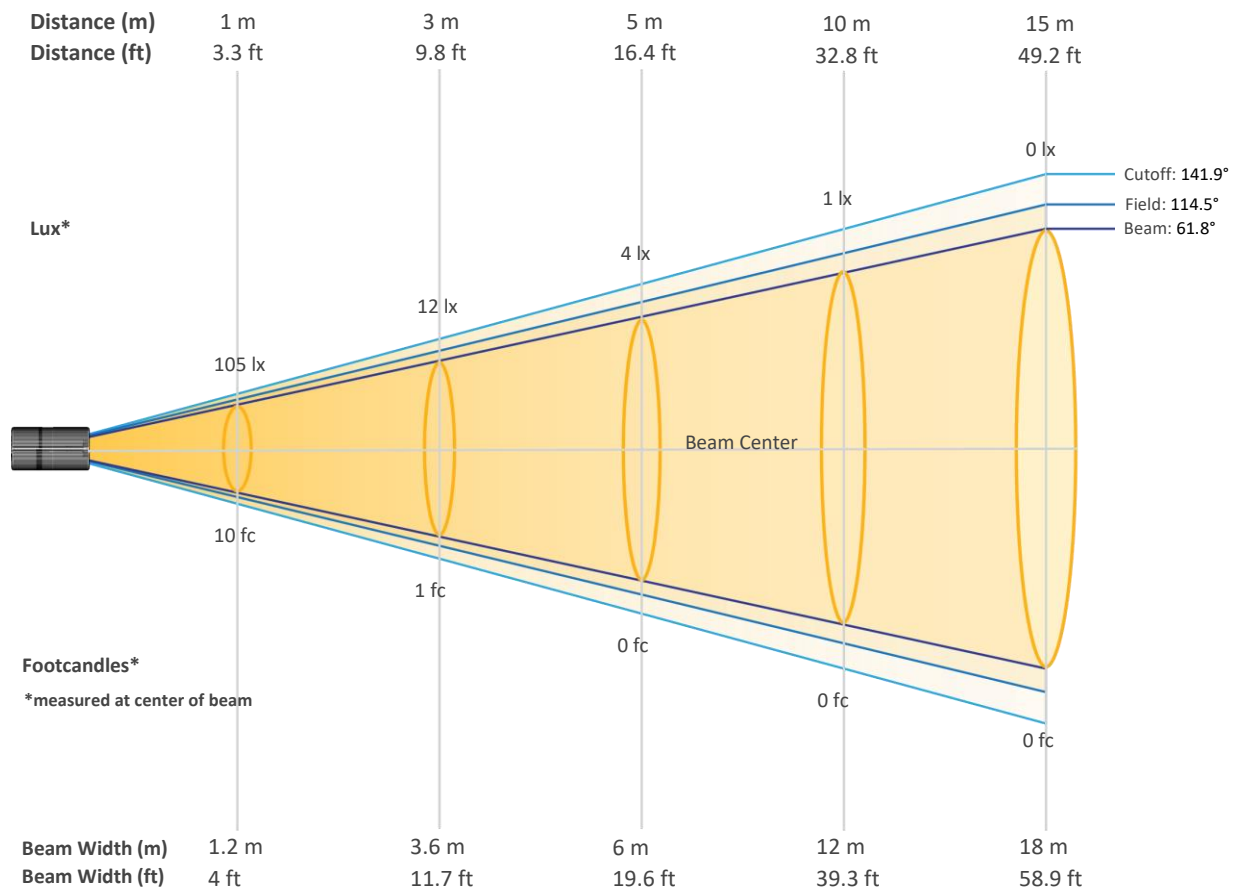
All product specifications, measurements and dimensions are subject to change without notice

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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 8000K

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	105	26	12	7	4	3	2	2	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	10	2	1	1	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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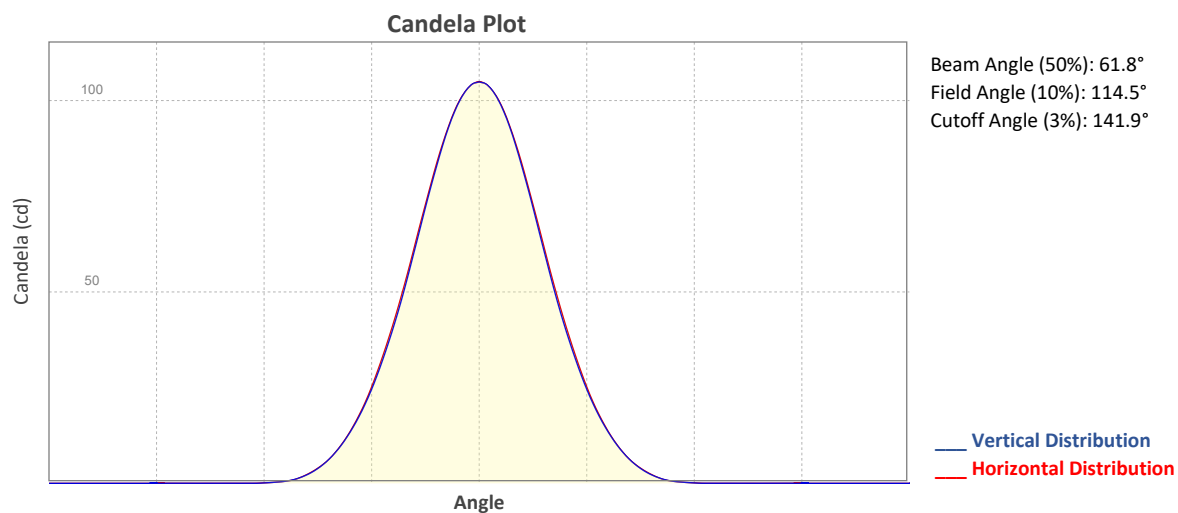
All product specifications, measurements and dimensions are subject to change without notice

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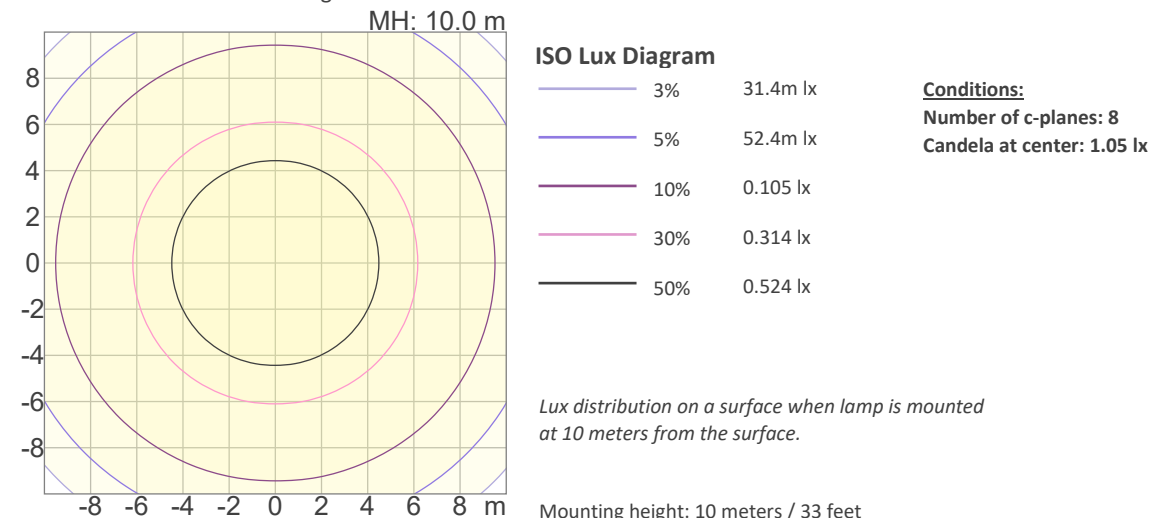
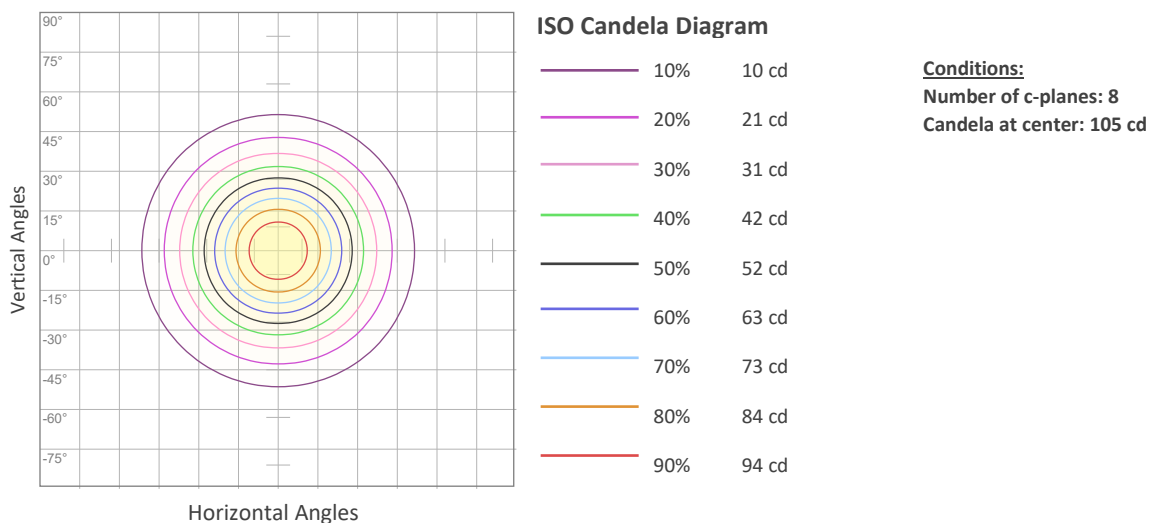


# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 8000K



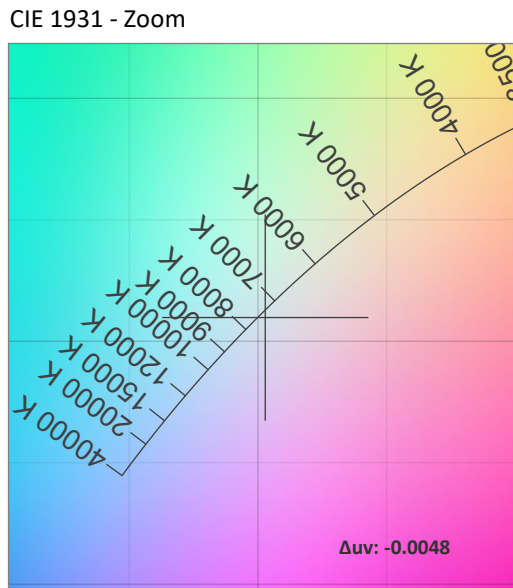
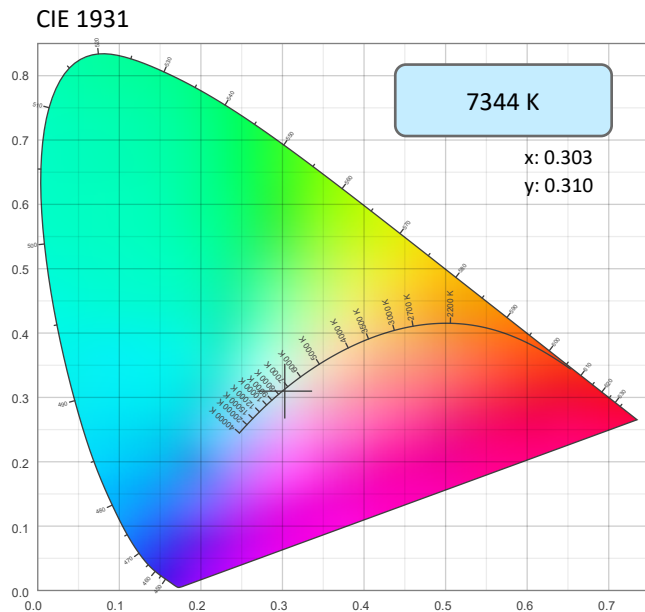
## ISO Diagrams



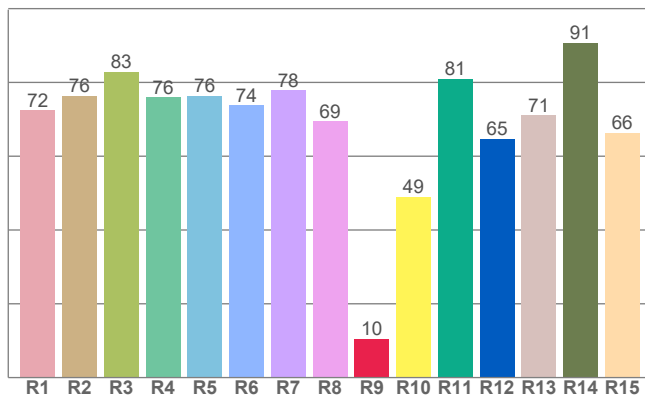
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 8000K

## Chromaticity



CRI: 75.6 (R1-R8)

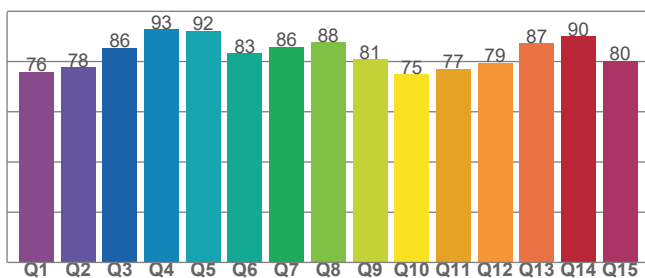


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
7344 K	0.303	0.310

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
-0.0048	0.310	0.198

CQS: 82.4



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
75.6	10.5	82.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
78	76.1	95.6

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# Photometric & Chromaticity Report

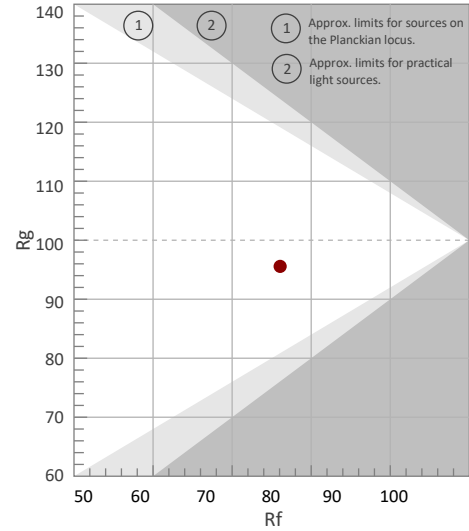
Logic MR16 Downlight S: Medium Filter Lens - 8000K

## TM-30 Details

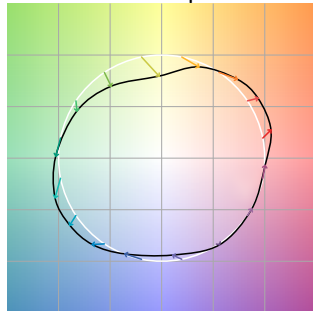
**Rf 76.1**  
Fidelity Index (Rg)

**Rg 95.6**  
Gammut Index (Rg)

Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	76	9%	6%
2	80	10%	-4%
3	72	4%	-18%
4	69	-6%	-18%
5	62	-21%	-13%
6	78	-15%	2%
7	86	-6%	8%
8	71	1%	18%
9	78	9%	17%
10	84	10%	4%
11	75	7%	-9%
12	73	-2%	-17%
13	85	-6%	-8%
14	74	1%	0%
15	85	0%	8%
16	77	0%	13%



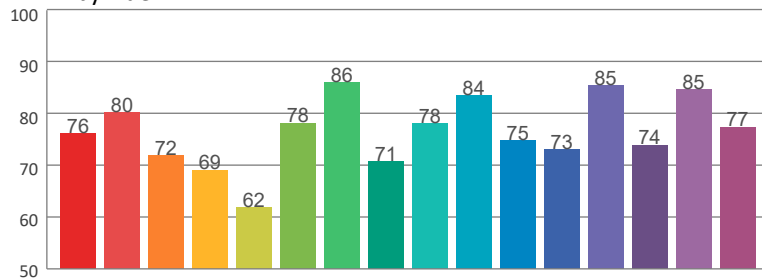
Color Vector Graphic



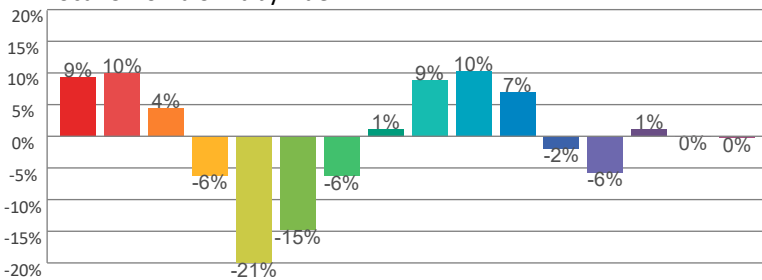
Color Distortion Graphic



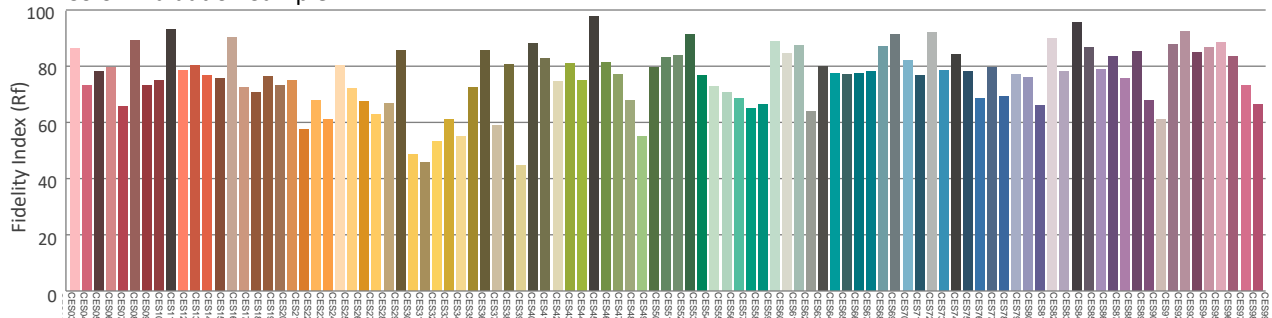
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 10000K

## Report Summary

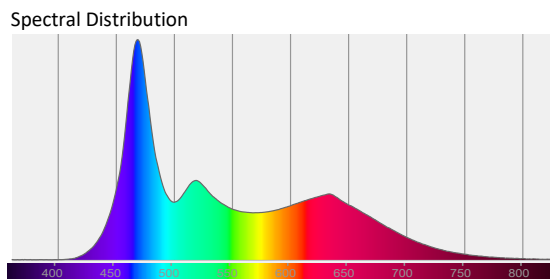
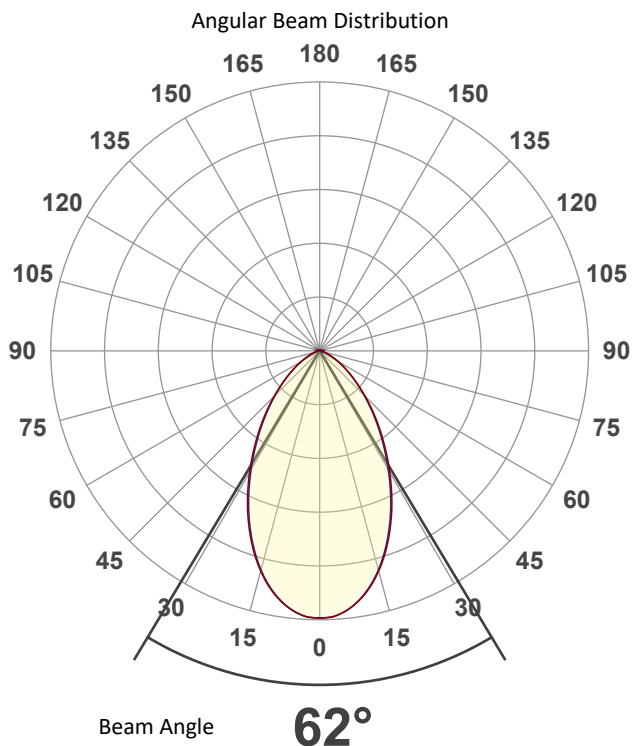
### Measurements

Fixture Output: 131 lm  
Fixture Peak: 105 cd  
Fixture Efficacy: 8 lm/W  
Intensity @ 5m: 4 lux  
Color Temperature: 9256 K  
CRI: 72.4      CRI R9 Value: 6.6  
CQS: 79.6  
TLCI: 77  
TM-30 Rf: 72.5  
TM-30 Rg: 92.4  
Beam Angle (50%): 62°  
Field Angle (10%): 114.6°  
Cutoff Angle (3%): 142°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 19.0 W  
Current: 0.158 A  
Power Factor: 0.85



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.286  
Y: 0.291

Light Quality  
CRI: 72.4

Color Temperature  
9256 K

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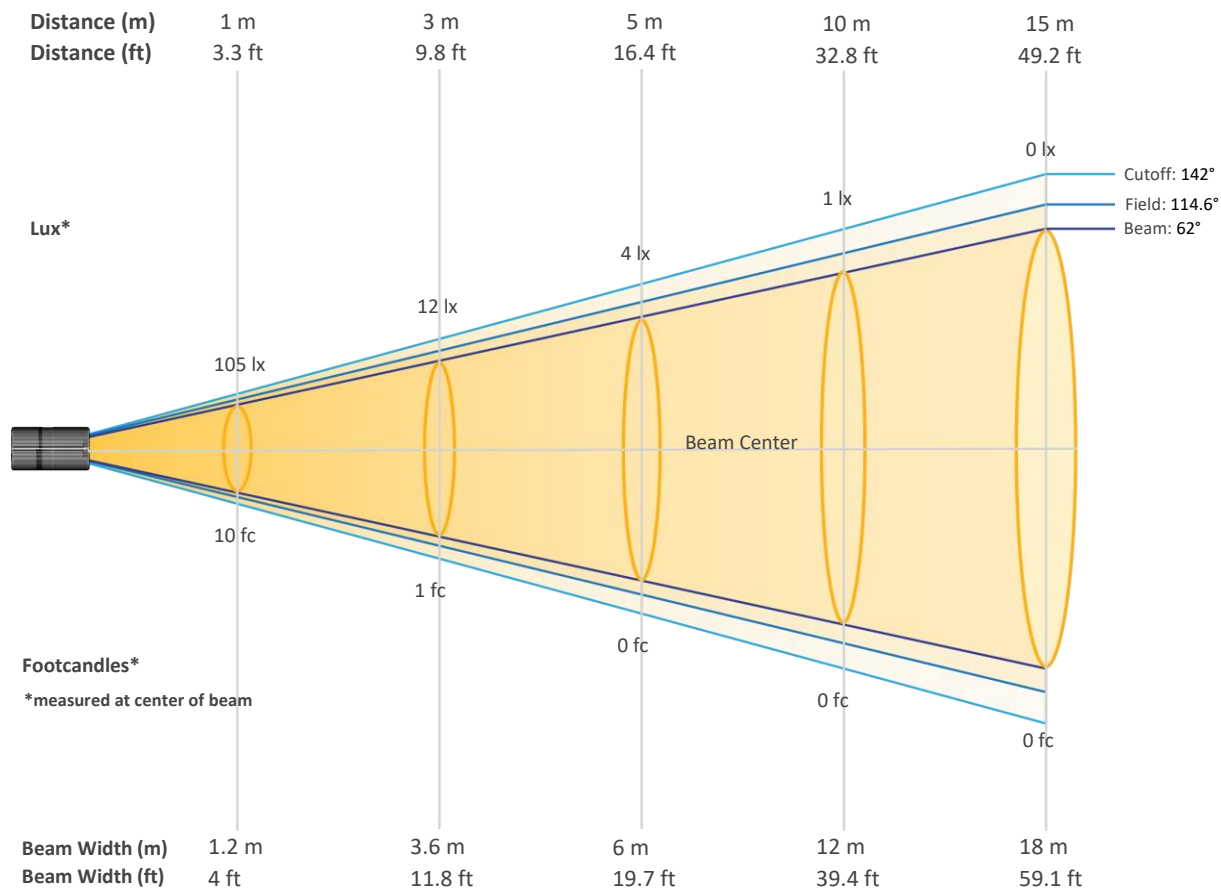
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 10000K

## Beam Details



### Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	105	26	12	7	4	3	2	2	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	10	2	1	1	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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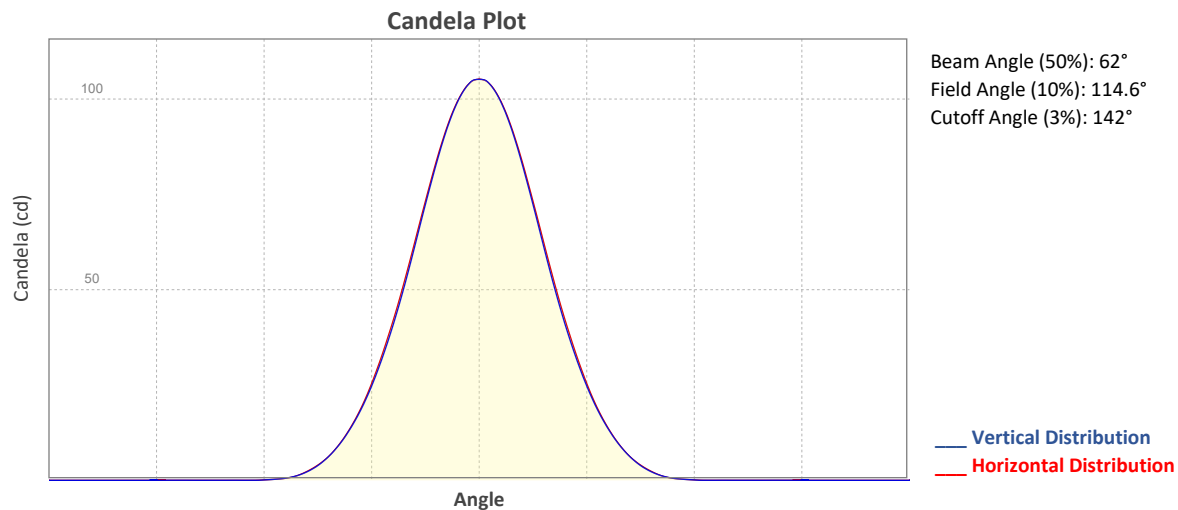
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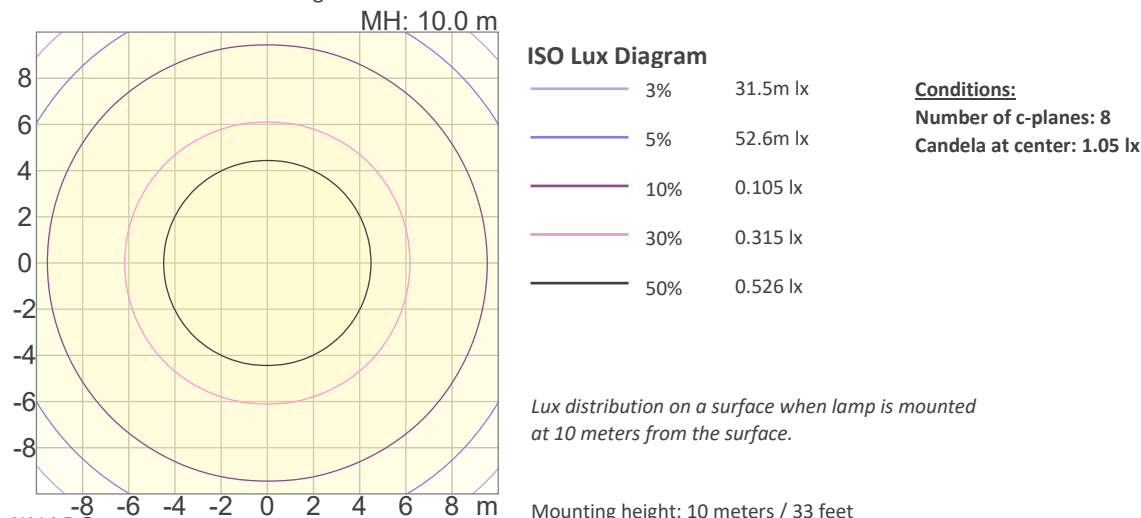
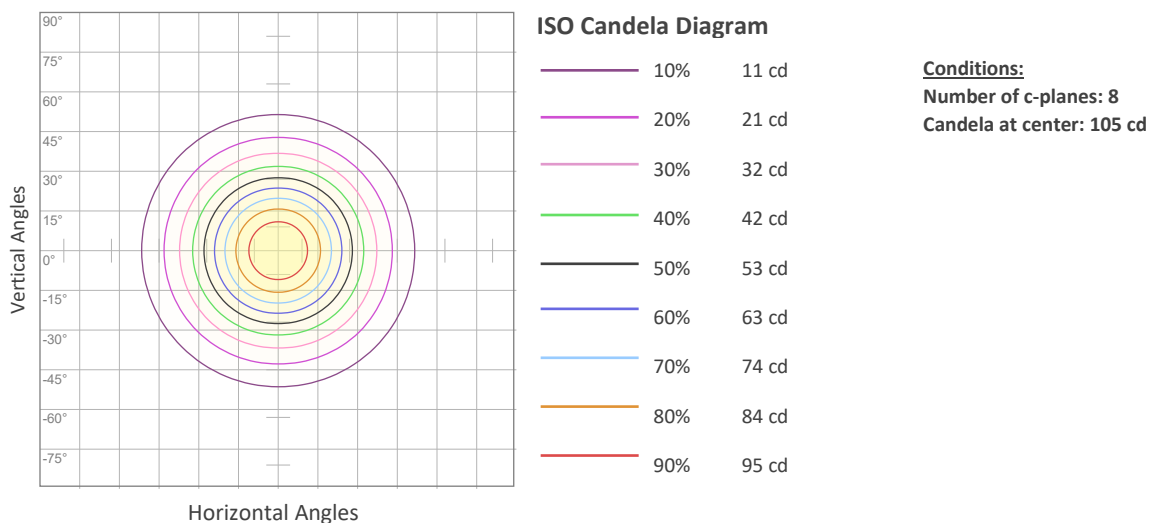
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 10000K



## ISO Diagrams



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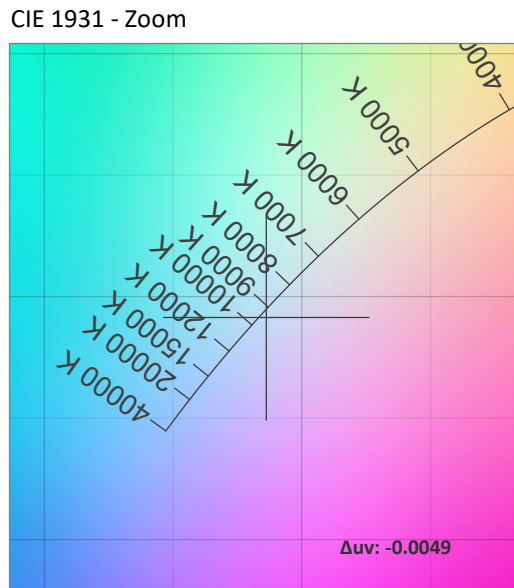
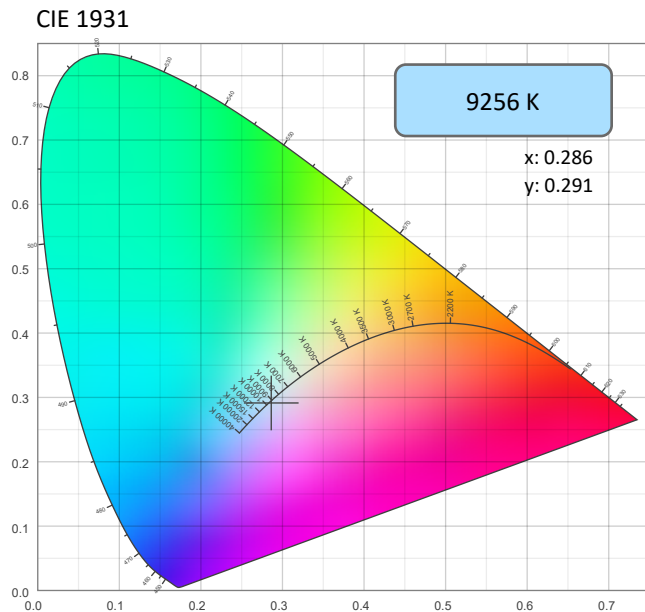
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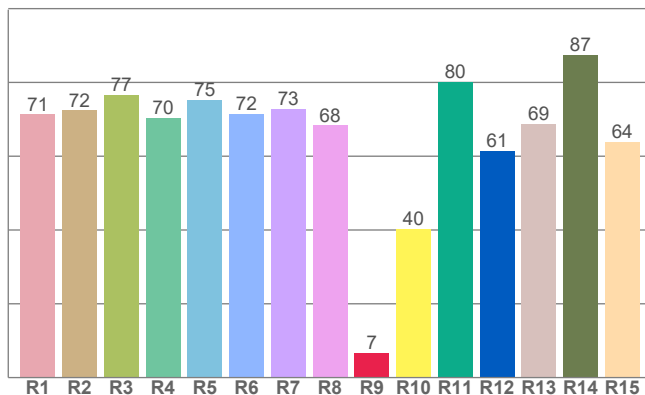
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens - 10000K

## Chromaticity



CRI: 72.4 (R1-R8)

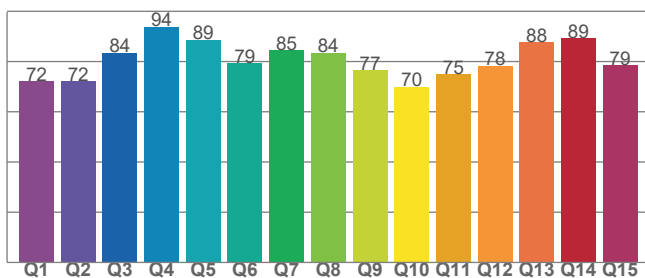


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
9256 K	0.286	0.291

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
-0.0049	0.291	0.193

CQS: 79.6



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
72.4	6.6	79.6

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
77	72.5	92.4

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# Photometric & Chromaticity Report

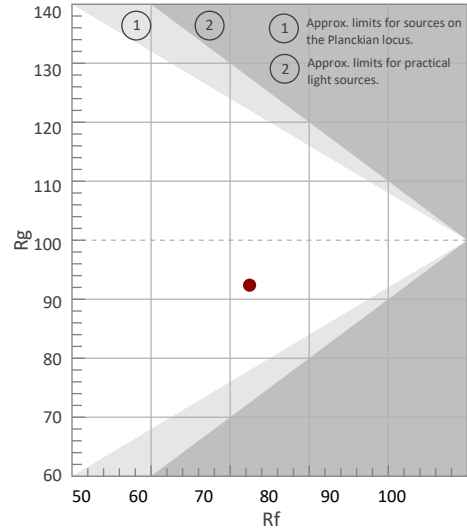
Logic MR16 Downlight S: Medium Filter Lens - 10000K

## TM-30 Details

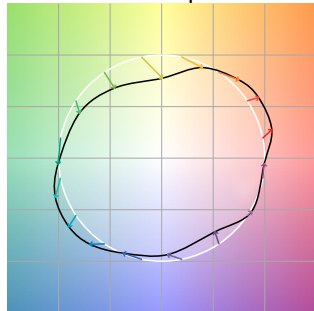
**Rf 72.5**  
Fidelity Index (Rg)

**Rg 92.4**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	75	10%	6%
2	79	11%	-3%
3	68	5%	-20%
4	66	-6%	-22%
5	56	-24%	-16%
6	73	-18%	0%
7	82	-9%	8%
8	66	-3%	25%
9	77	9%	17%
10	82	12%	5%
11	71	8%	-11%
12	74	-2%	-19%
13	79	-7%	-13%
14	77	-12%	3%
15	88	1%	6%
16	73	-1%	14%



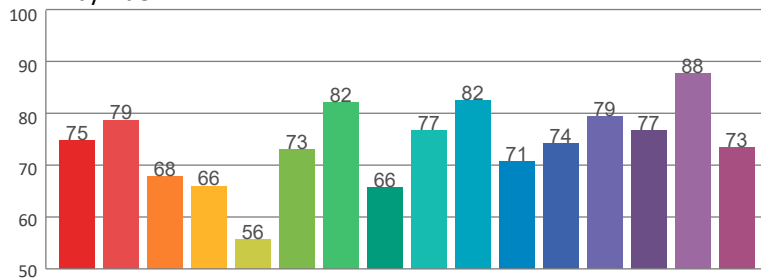
Color Vector Graphic



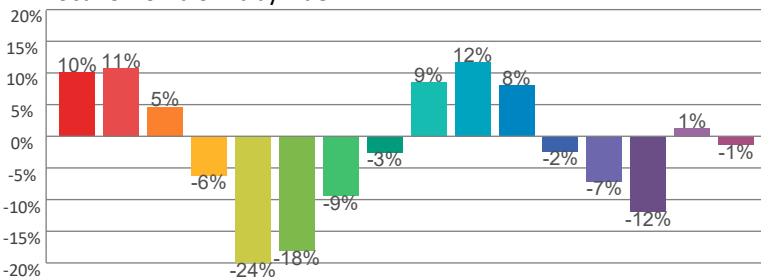
Color Distortion Graphic



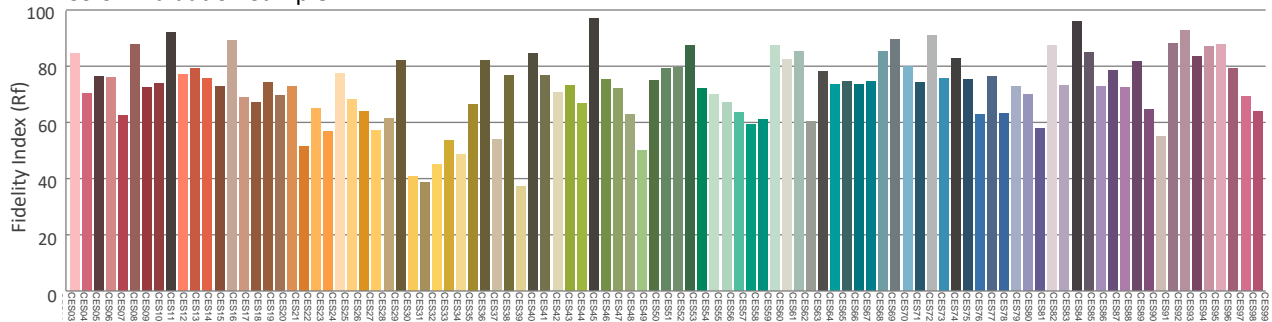
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - RGBW - Full Power

## Report Summary

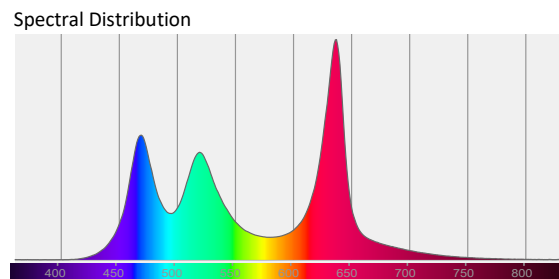
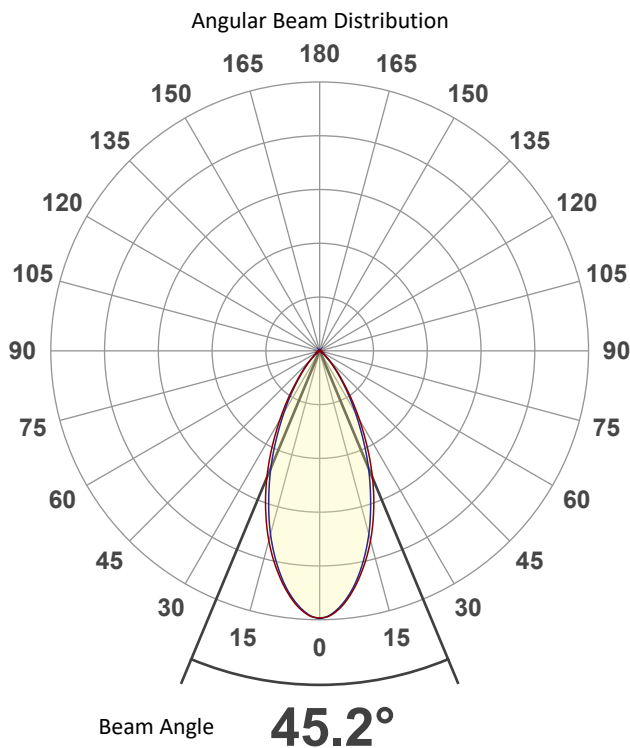
### Measurements

Fixture Output: 120 lm  
Fixture Peak: 182 cd  
Fixture Efficacy: 6 lm/W  
Intensity @ 5m: 7 lux  
Color Temperature: 5170 K  
CRI: 44.9      CRI R9 Value: -147.5  
CQS: 62.5  
TLCI: 27  
TM-30 Rf: 61.8  
TM-30 Rg: 106.1  
Beam Angle (50%): 45.2°  
Field Angle (10%): 79.9°  
Cutoff Angle (3%): 99.9°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 23.08 W  
Current: 0.192 A  
Power Factor: 0.89



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.340  
Y: 0.345

Light Quality  
CRI: 44.9

Color Temperature  
5170 K

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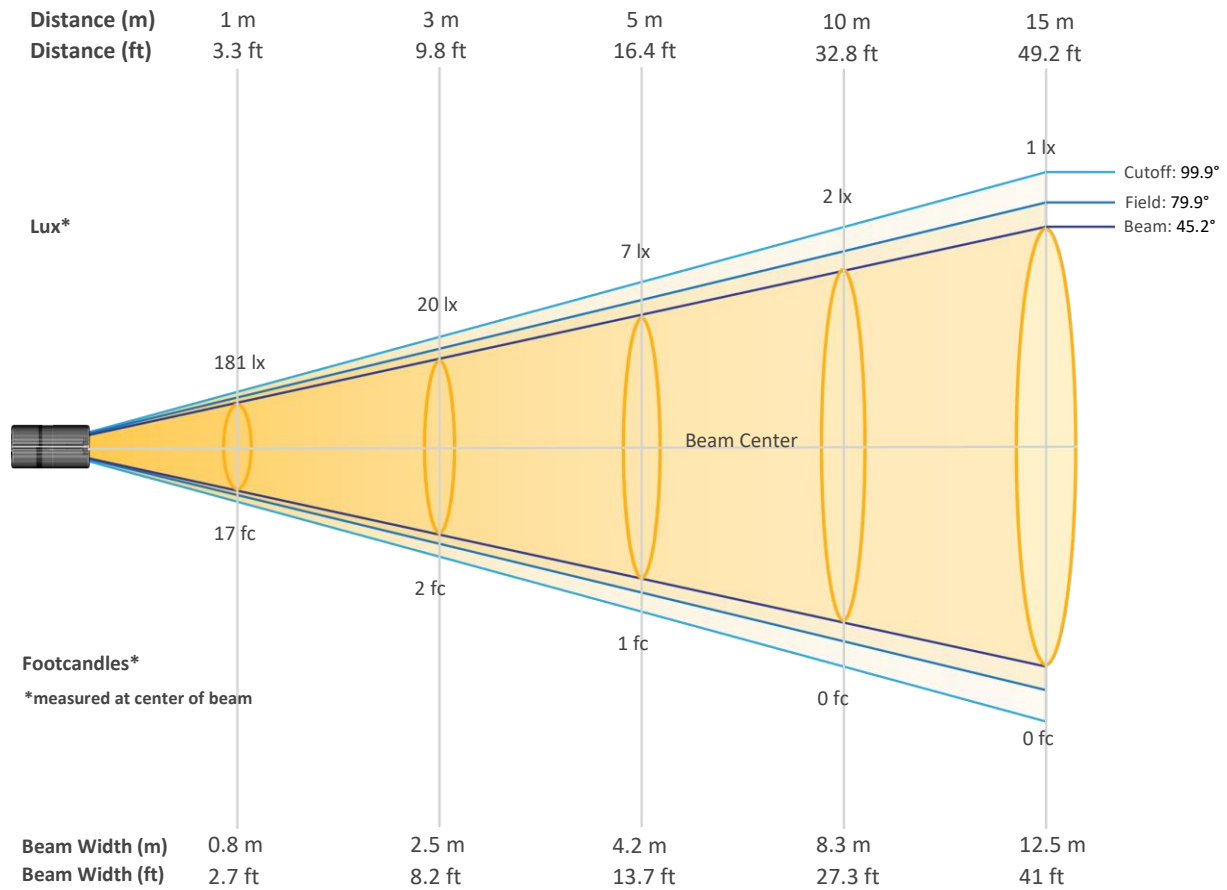
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - RGBW - Full Power

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	181	45	20	11	7	5	4	3	2	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	1	1	1	1	1	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	17	4	2	1	1	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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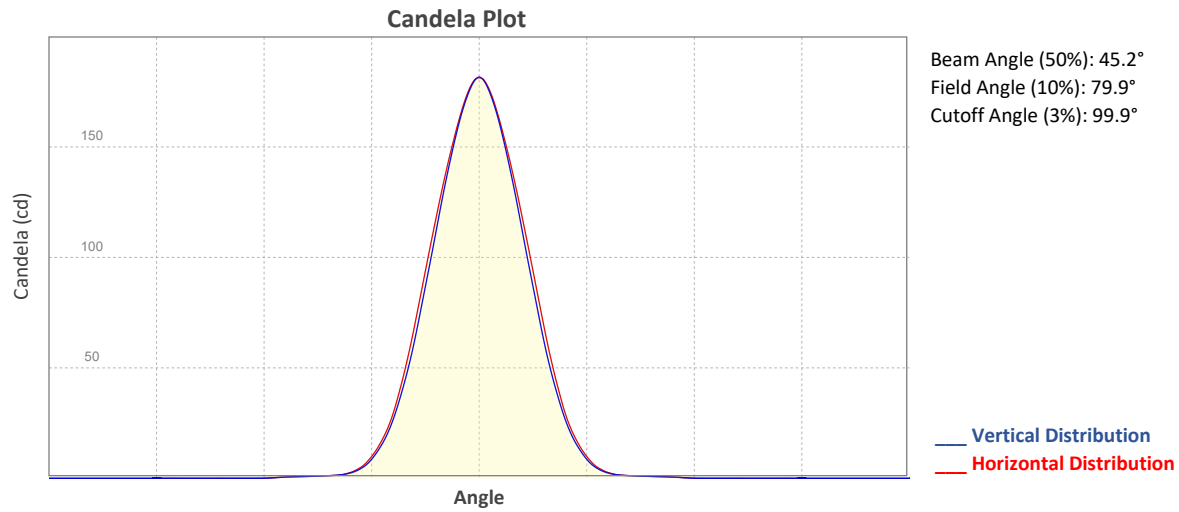
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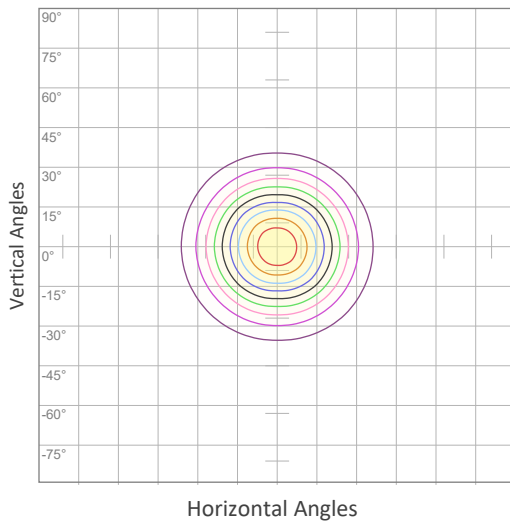
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - RGBW - Full Power



## ISO Diagrams

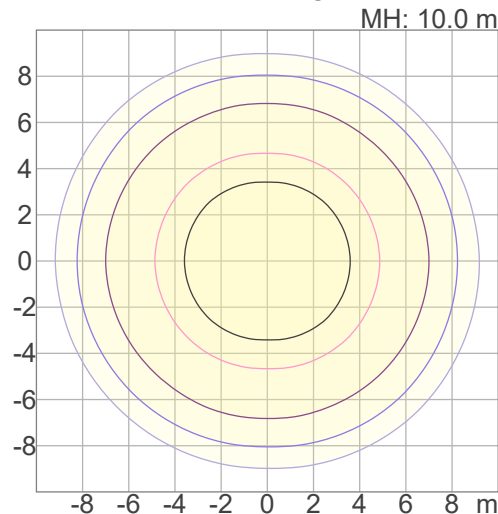


ISO Candela Diagram

10%	18 cd
20%	36 cd
30%	54 cd
40%	73 cd
50%	91 cd
60%	109 cd
70%	127 cd
80%	145 cd
90%	163 cd

**Conditions:**

Number of c-planes: 8  
Candela at center: 181 cd



ISO Lux Diagram

3%	54.4m lx
5%	90.7m lx
10%	0.181 lx
30%	0.544 lx
50%	0.907 lx

**Conditions:**

Number of c-planes: 8  
Candela at center: 1.81 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Mounting height: 10 meters / 33 feet

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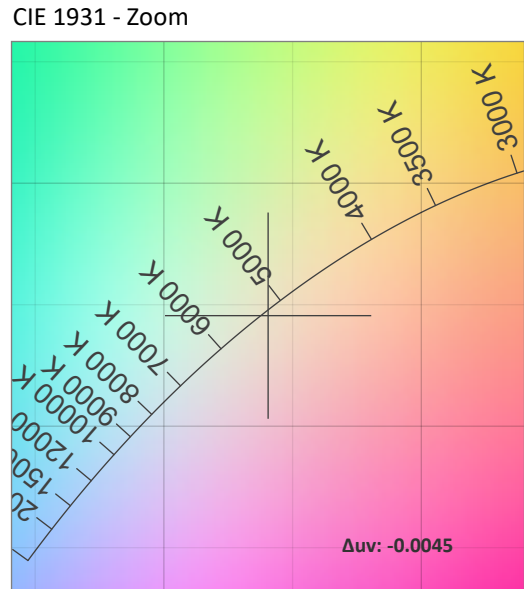
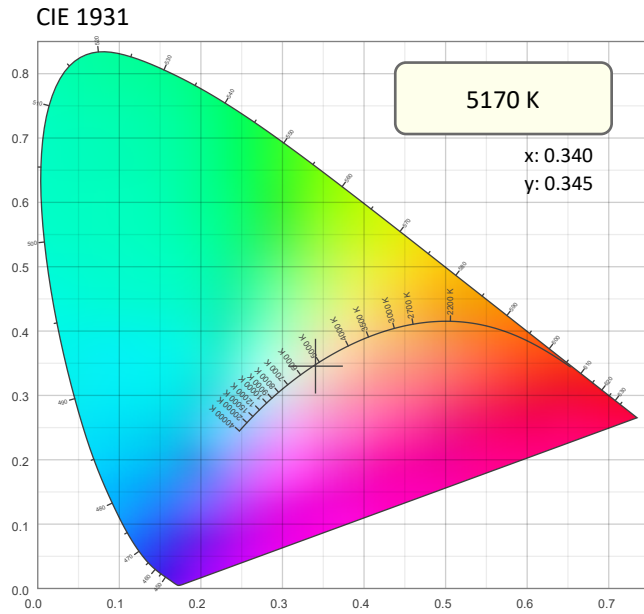
All product specifications, measurements and dimensions are subject to change without notice

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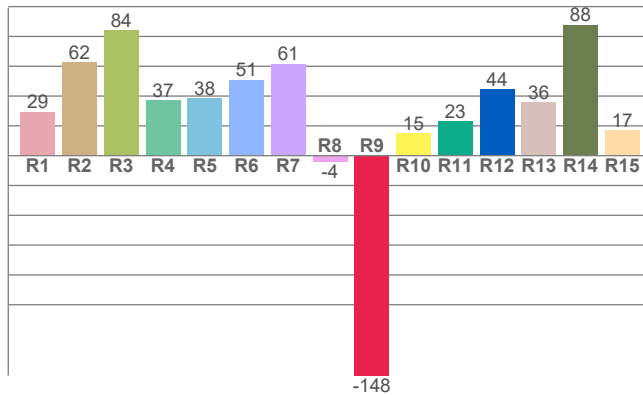
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - RGBW - Full Power

## Chromaticity



CRI: 44.9 (R1-R8)

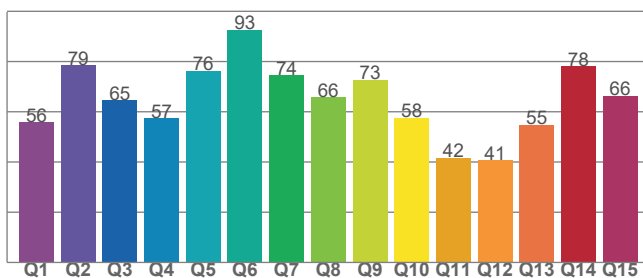


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5170 K	0.340	0.345

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
-0.0045	0.345	0.211

CQS: 62.5



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
44.9	-147.5	62.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
27	61.8	106.1

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# Photometric & Chromaticity Report

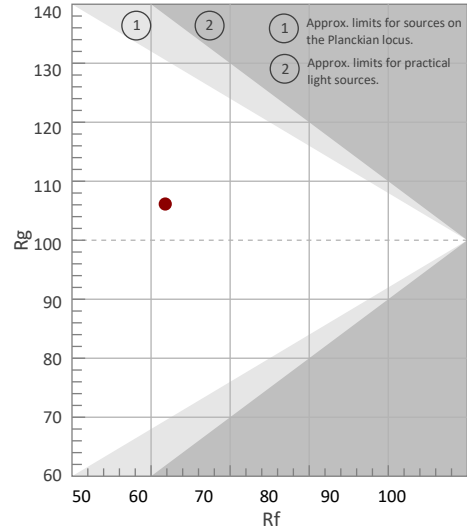
Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - RGBW - Full Power

## TM-30 Details

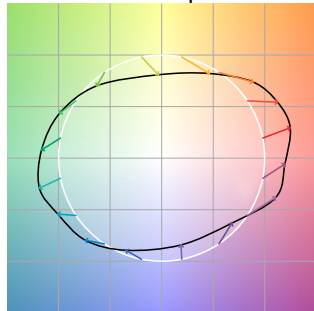
**Rf 61.8**  
Fidelity Index (Rg)

**Rg 106.1**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	46	28%	5%
2	56	24%	-17%
3	38	11%	-33%
4	51	-10%	-29%
5	66	-20%	-13%
6	78	-7%	13%
7	68	6%	19%
8	63	16%	15%
9	73	22%	5%
10	67	14%	-11%
11	66	7%	-17%
12	74	-6%	-16%
13	75	-14%	2%
14	61	-10%	22%
15	57	13%	30%
16	59	18%	18%



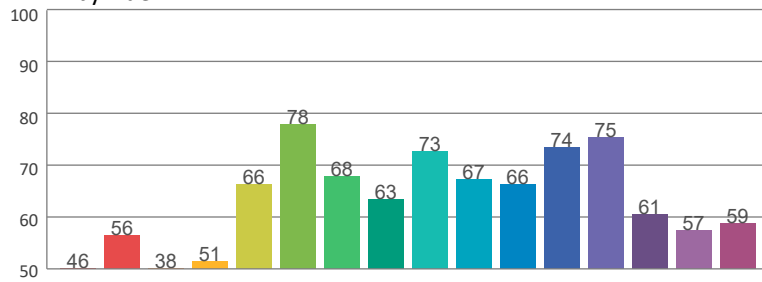
Color Vector Graphic



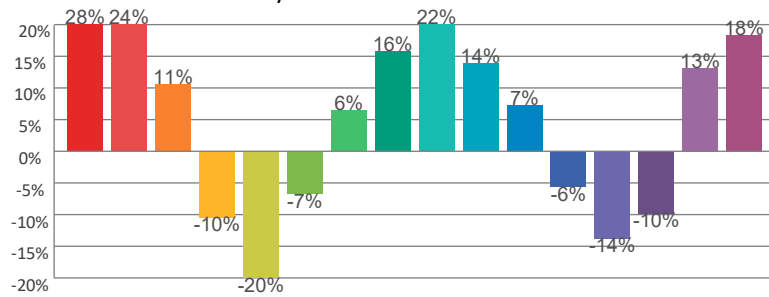
Color Distortion Graphic



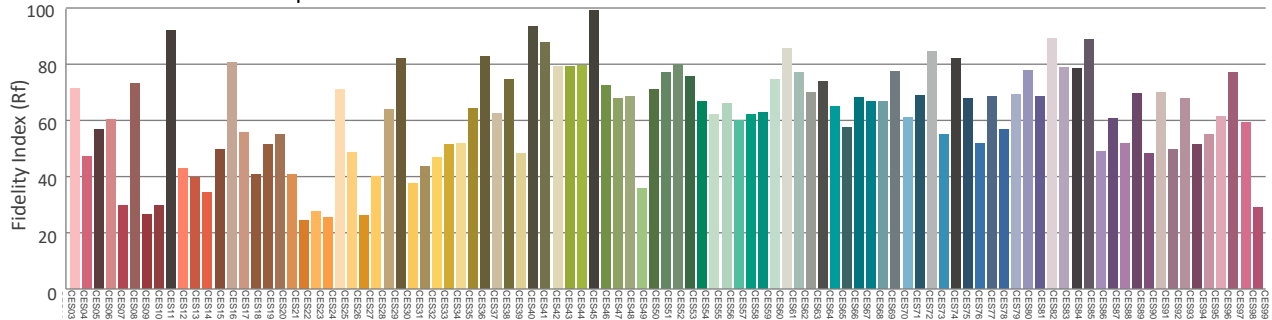
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - Red Only

## Report Summary

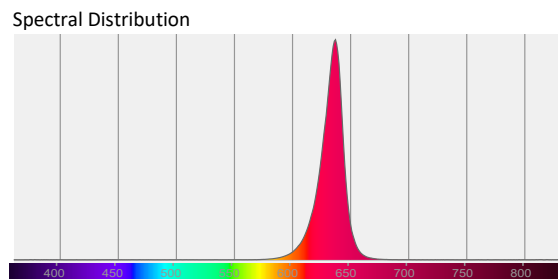
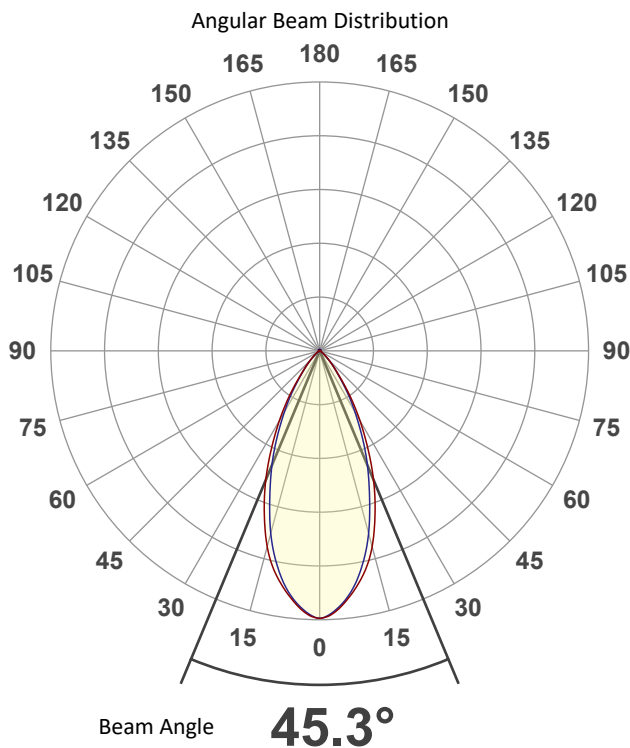
### Measurements

Fixture Output: 31.9 lm  
Fixture Peak: 48.2 cd  
Fixture Efficacy: 2 lm/W  
Intensity @ 5m: 2 lux  
Color Temperature: 0 K  
CRI: 0.0      CRI R9 Value: 0.0  
CQS: 0.0  
TLCl: n/a  
TM-30 Rf: 0.0  
TM-30 Rg: 0.0  
Beam Angle (50%): 45.3°  
Field Angle (10%): 78.6°  
Cutoff Angle (3%): 99.2°  
Conditions  
AC Supply: 121 V, 60 Hz  
Power: 17.06 W  
Current: 0.141 A  
Power Factor: 0.81



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.699  
Y: 0.300



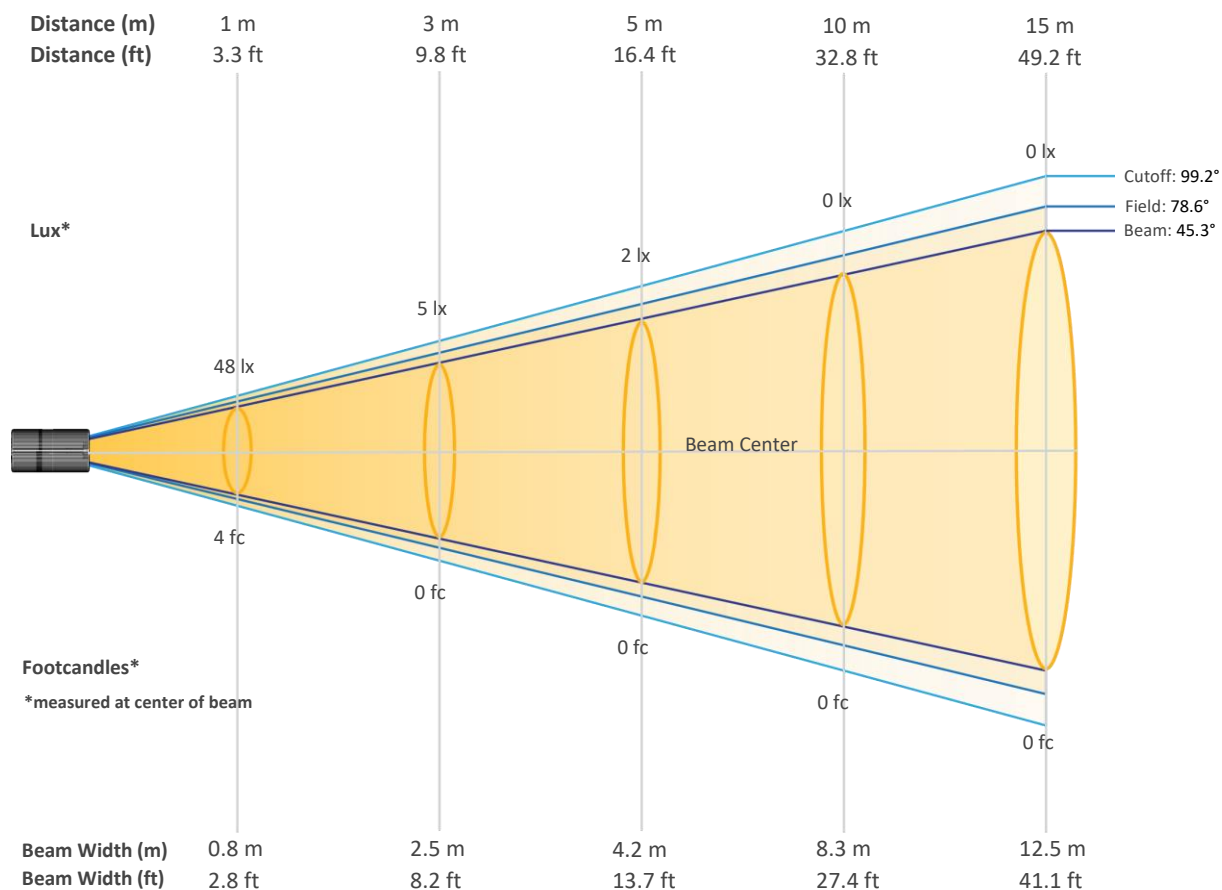
Light Quality  
CRI: 0.0

Color Temperature  
0 K

# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - Red Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	48	12	5	3	2	1	1	1	1	0
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	0	0	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	4	1	0	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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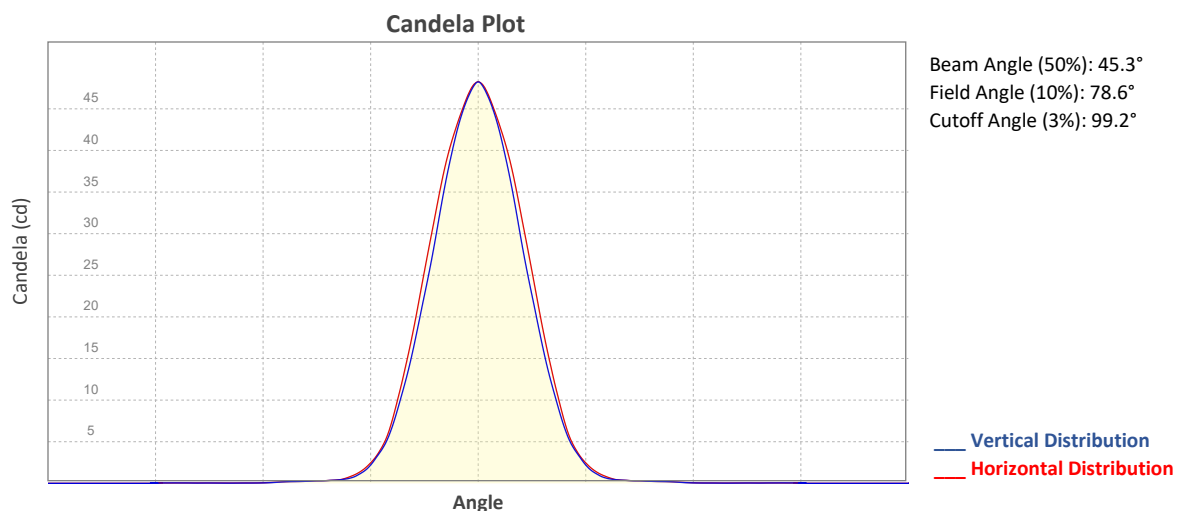
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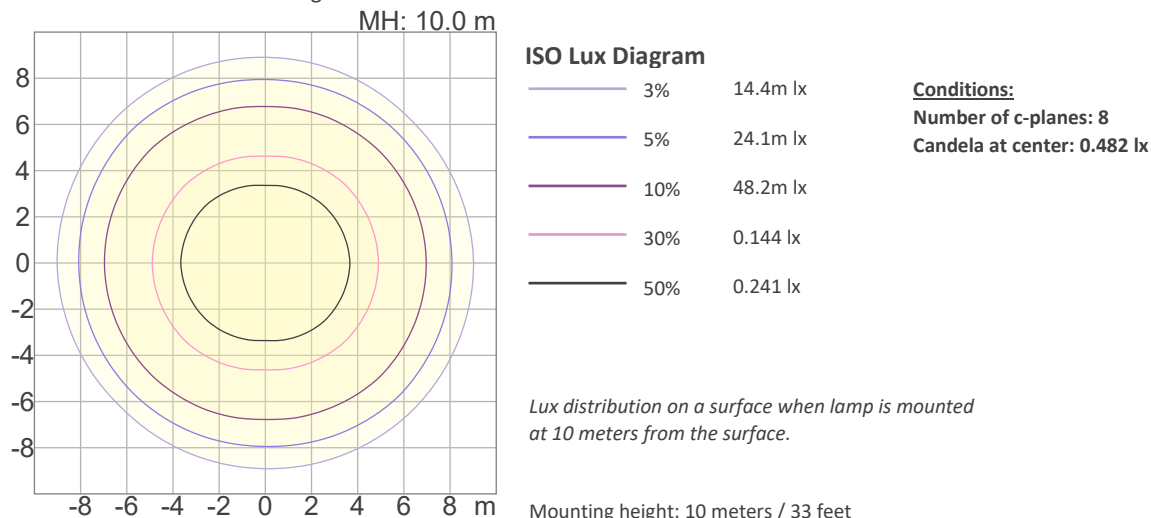
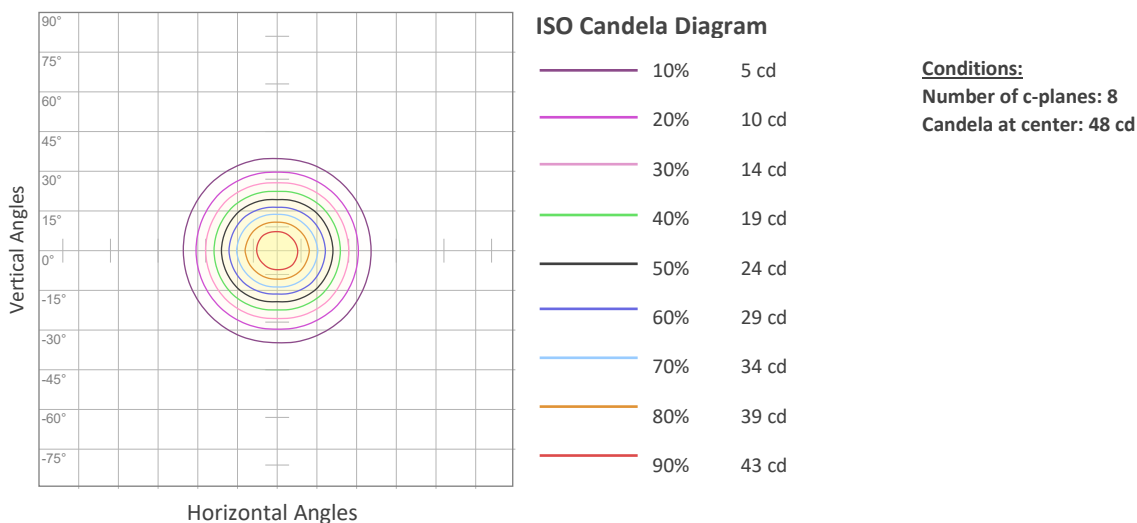
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - Red Only



## ISO Diagrams

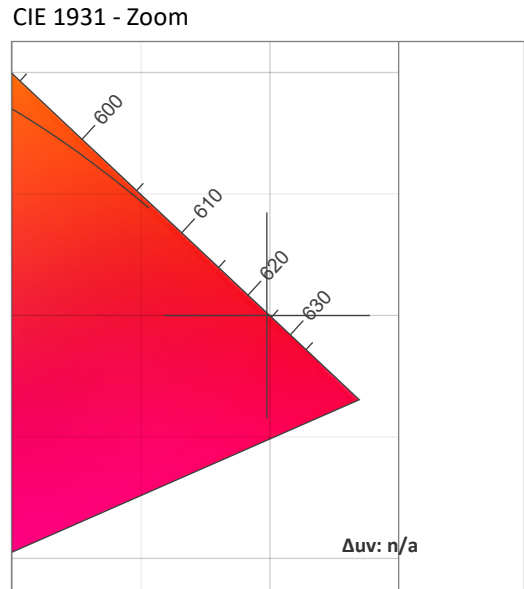
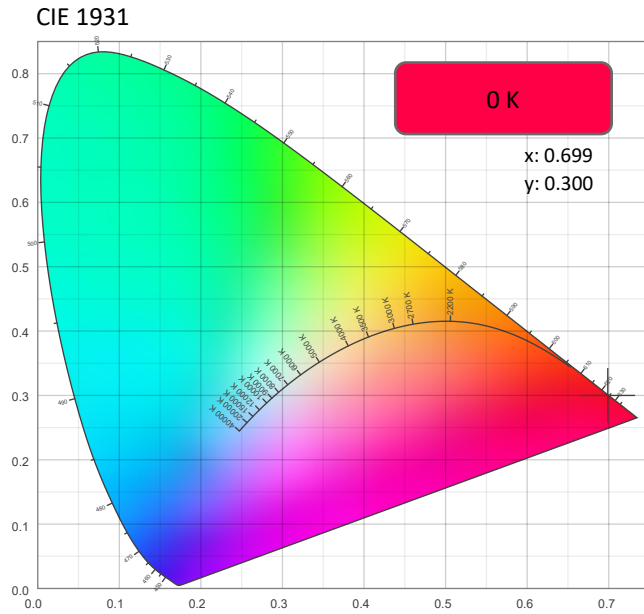




# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - Red Only

## Chromaticity



### CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

### CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.699	0.300

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
n/a	0.300	0.537

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

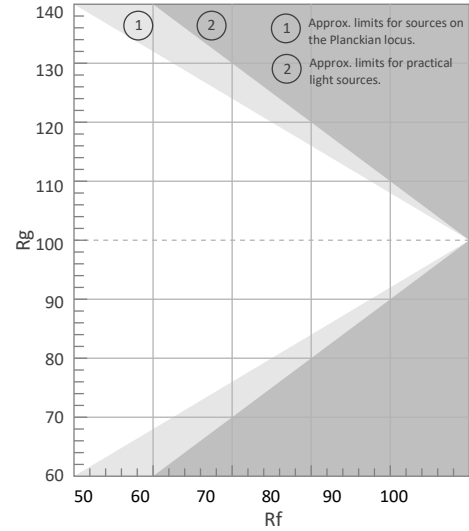
Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - Red Only

## TM-30 Details

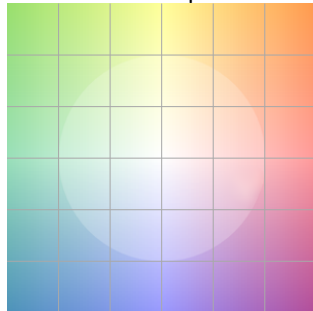
**Rf 0.0**  
Fidelity Index  
(Rg)

**Rg 0.0**  
Gammut Index (Rg)

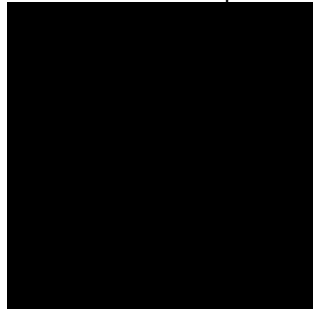
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



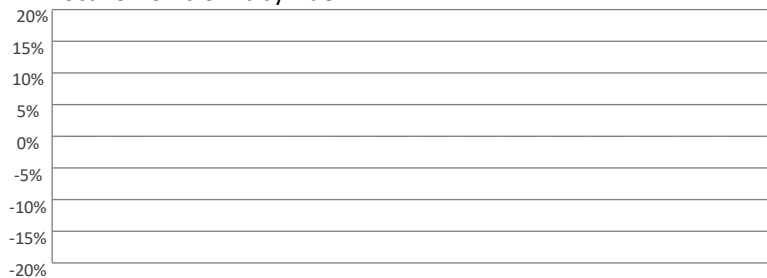
Color Distortion Graphic



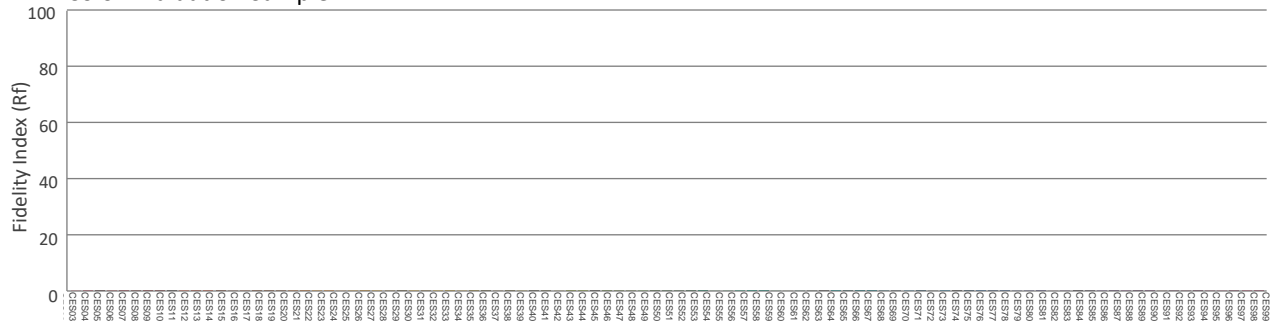
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - Green Only

## Report Summary

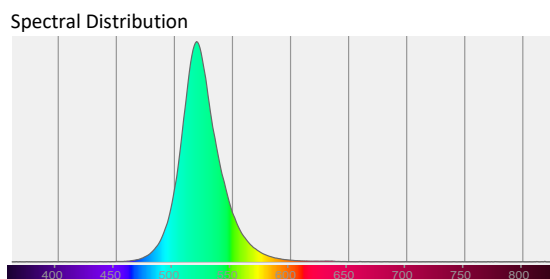
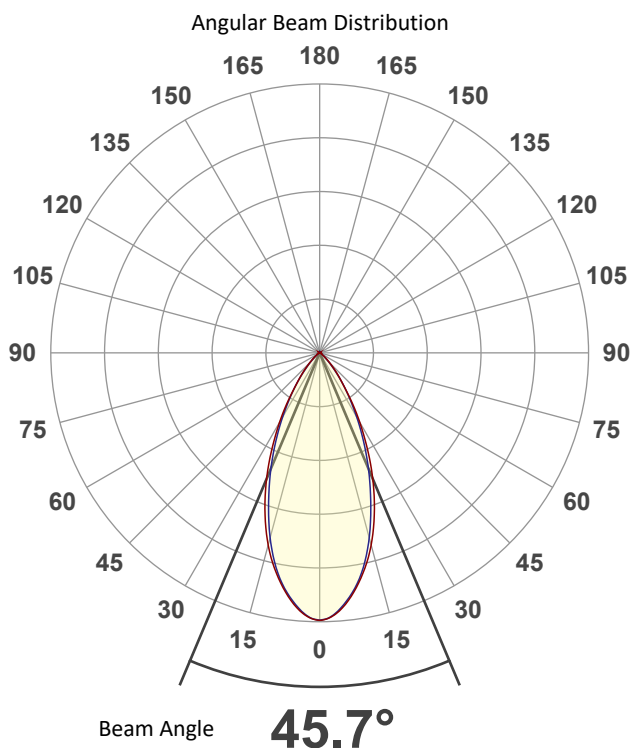
### Measurements

Fixture Output: 55.9 lm  
Fixture Peak: 83.8 cd  
Fixture Efficacy: 4 lm/W  
Intensity @ 5m: 3 lux  
Color Temperature: 0 K  
CRI: 0.0      CRI R9 Value: 0.0  
CQS: 0.0  
TLCl: n/a  
TM-30 Rf: 0.0  
TM-30 Rg: 0.0  
Beam Angle (50%): 45.7°  
Field Angle (10%): 80.2°  
Cutoff Angle (3%): 100.6°  
Conditions  
AC Supply: 121 V, 60 Hz  
Power: 17.7 W  
Current: 0.146 A  
Power Factor: 0.82



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.161  
Y: 0.721



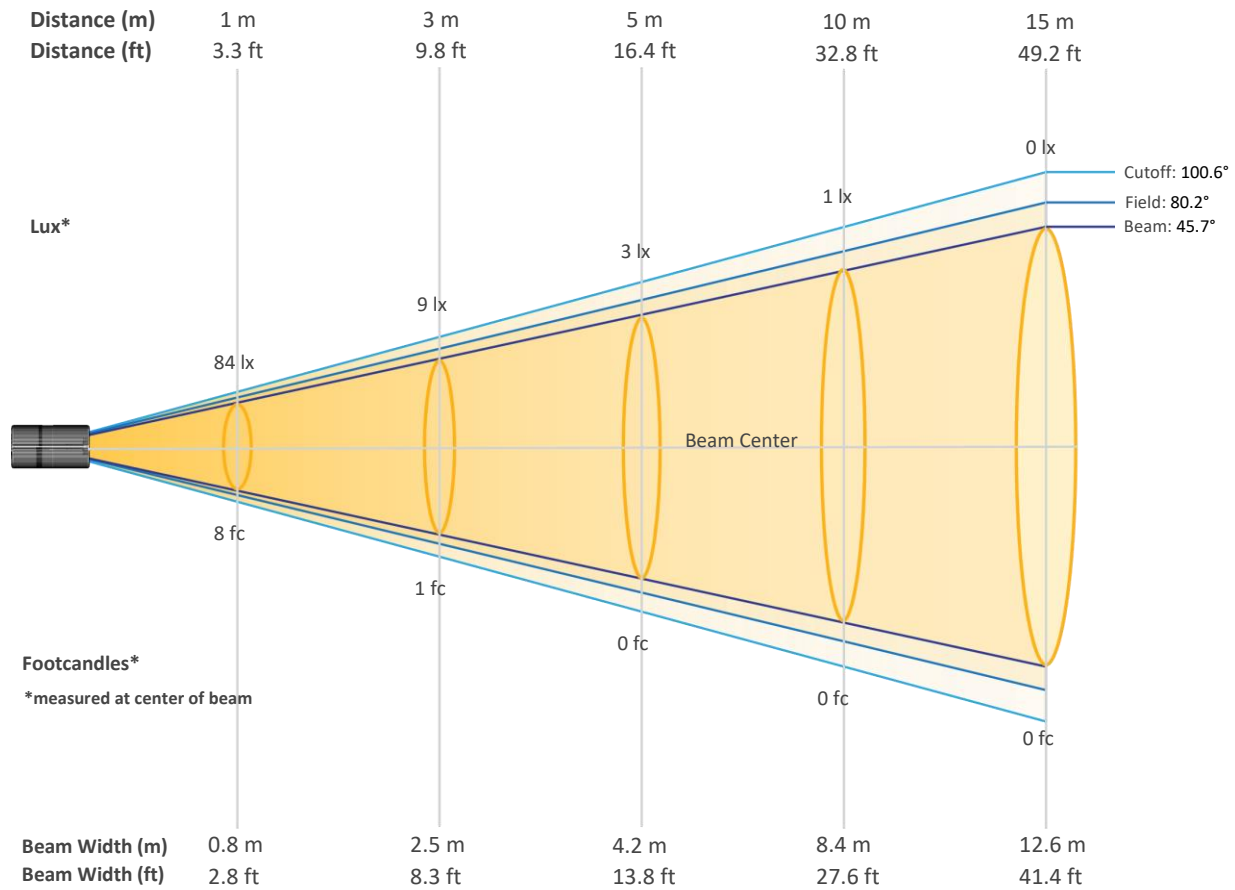
Light Quality  
CRI: 0.0

Color Temperature  
0 K

# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - Green Only

## Beam Details



### Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	84	21	9	5	3	2	2	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	8	2	1	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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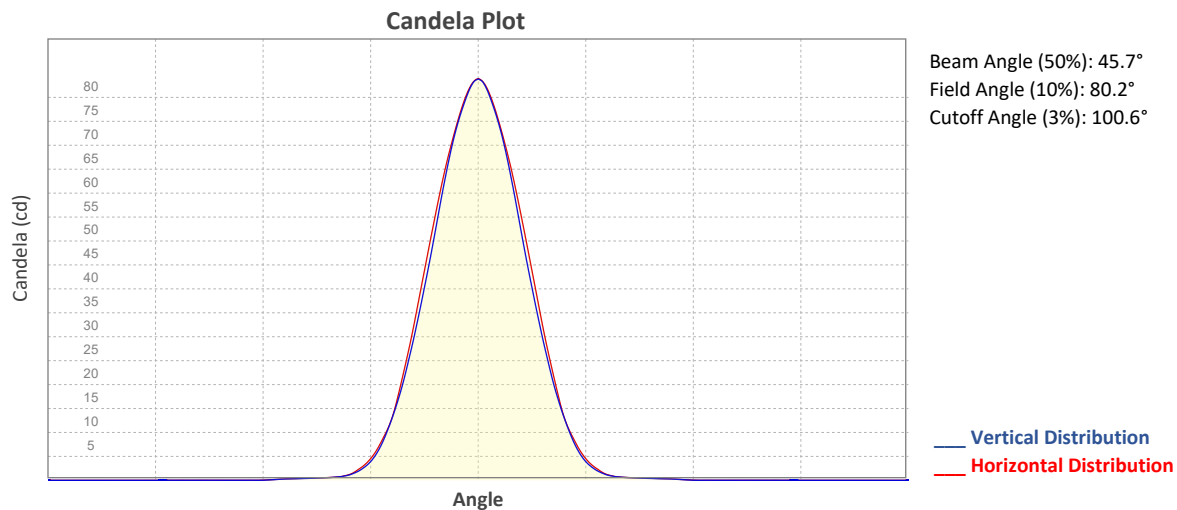
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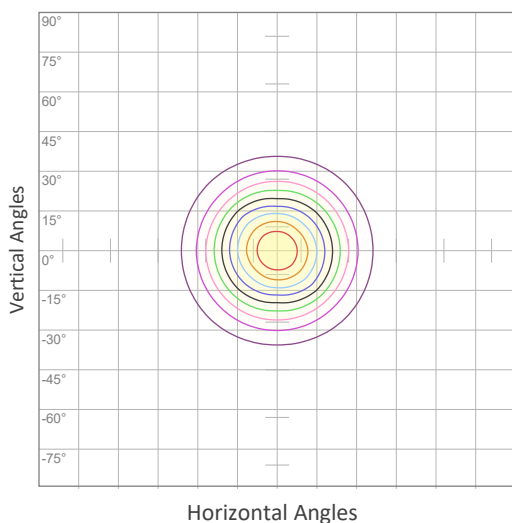
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - Green Only



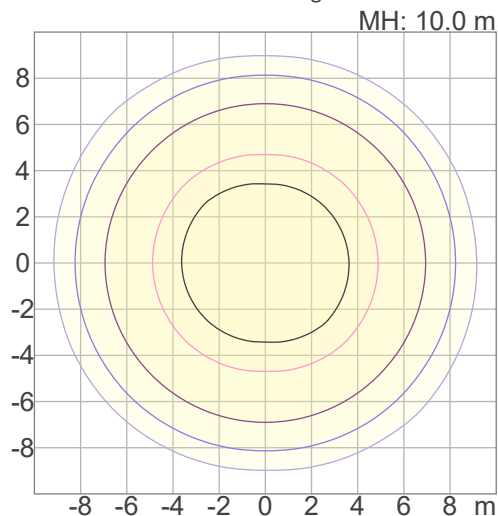
## ISO Diagrams



ISO Candela Diagram

10%	8 cd
20%	17 cd
30%	25 cd
40%	33 cd
50%	42 cd
60%	50 cd
70%	59 cd
80%	67 cd
90%	75 cd

**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 84 cd



ISO Lux Diagram

3%	25.1m lx
5%	41.9m lx
10%	83.7m lx
30%	0.251 lx
50%	0.419 lx

**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 0.837 lx

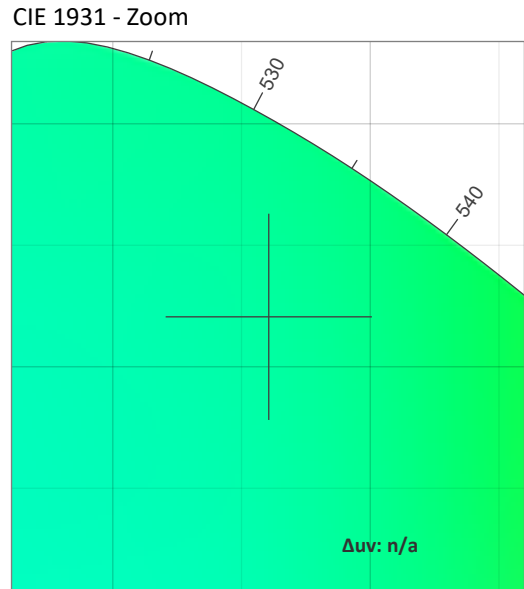
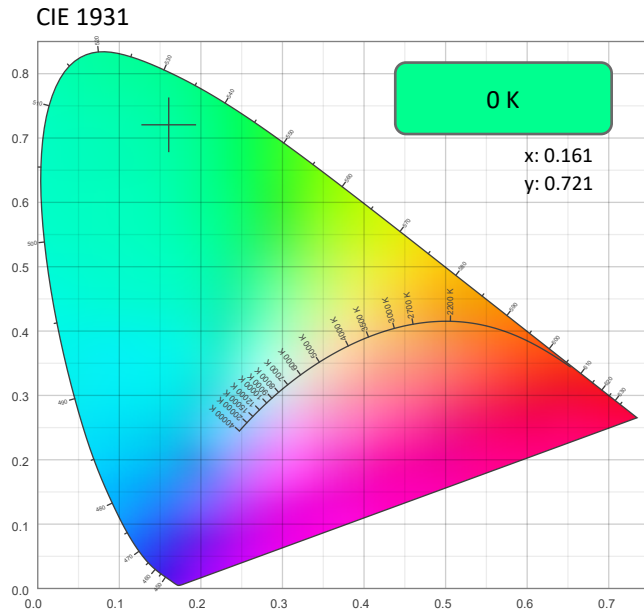
*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

Mounting height: 10 meters / 33 feet

# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - Green Only

## Chromaticity



### CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

### CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.161	0.721

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
n/a	0.721	0.057

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

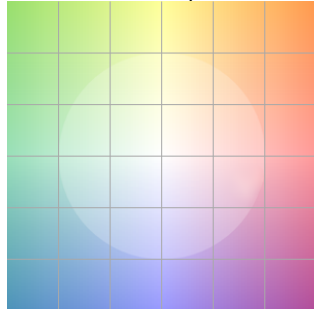
Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - Green Only

## TM-30 Details

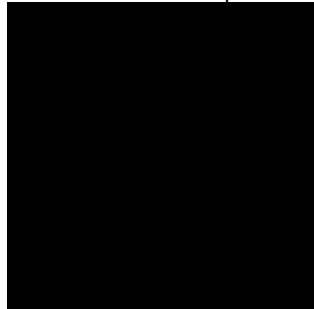
**Rf 0.0**  
Fidelity Index  
(Rg)

**Rg 0.0**  
Gammut Index (Rg)

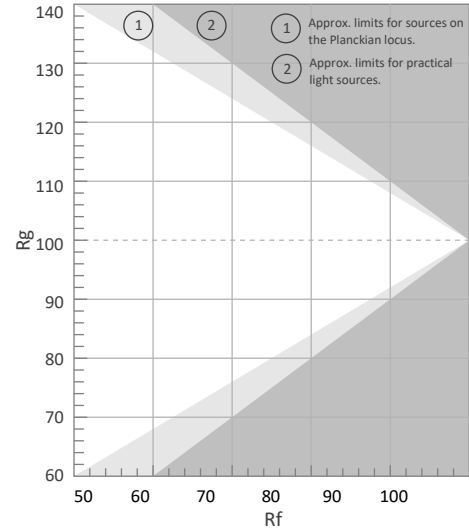
Color Vector Graphic



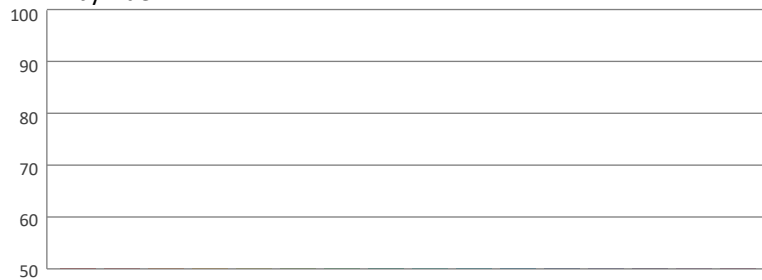
Color Distortion Graphic



Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



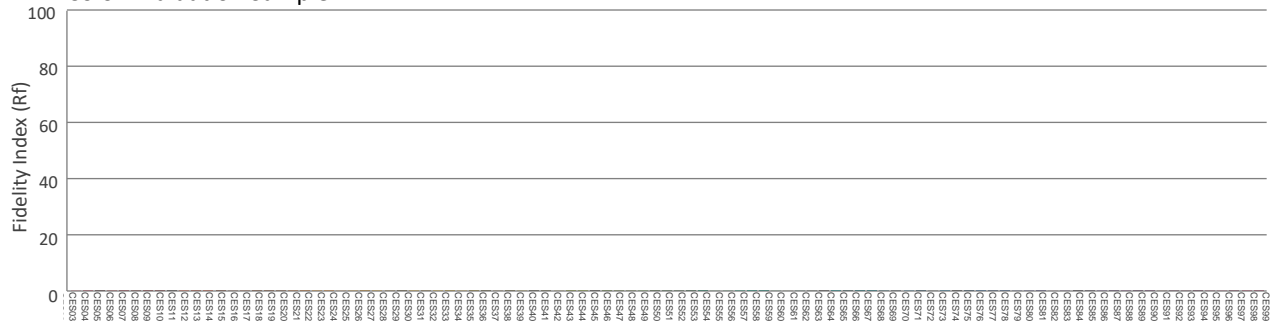
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - Blue Only

## Report Summary

### Measurements

Fixture Output: 16.5 lm

Fixture Peak: 24.0 cd

Fixture Efficacy: 1 lm/W

Intensity @ 5m: 1 lux

Color Temperature: 0 K

CRI: 0.0      CRI R9 Value: 0.0

CQS: 0.0

TLCl: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 46°

Field Angle (10%): 80.8°

Cutoff Angle (3%): 102°

### Conditions

AC Supply: 121 V, 60 Hz

Power: 17.53 W

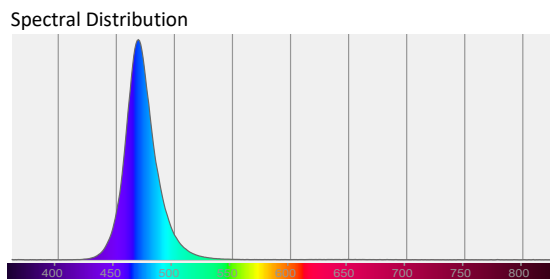
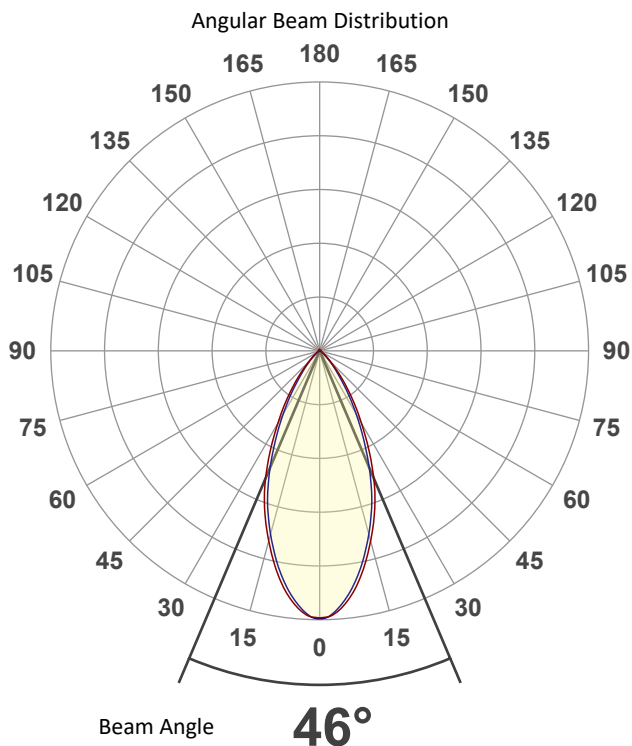
Current: 0.145 A

Power Factor: 0.82



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

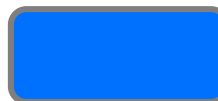
## Overall Measurement



Tested Color (CIE 1931):

X: 0.126

Y: 0.085

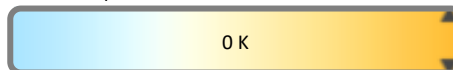


Light Quality

CRI: 0.0

Color Temperature

0 K



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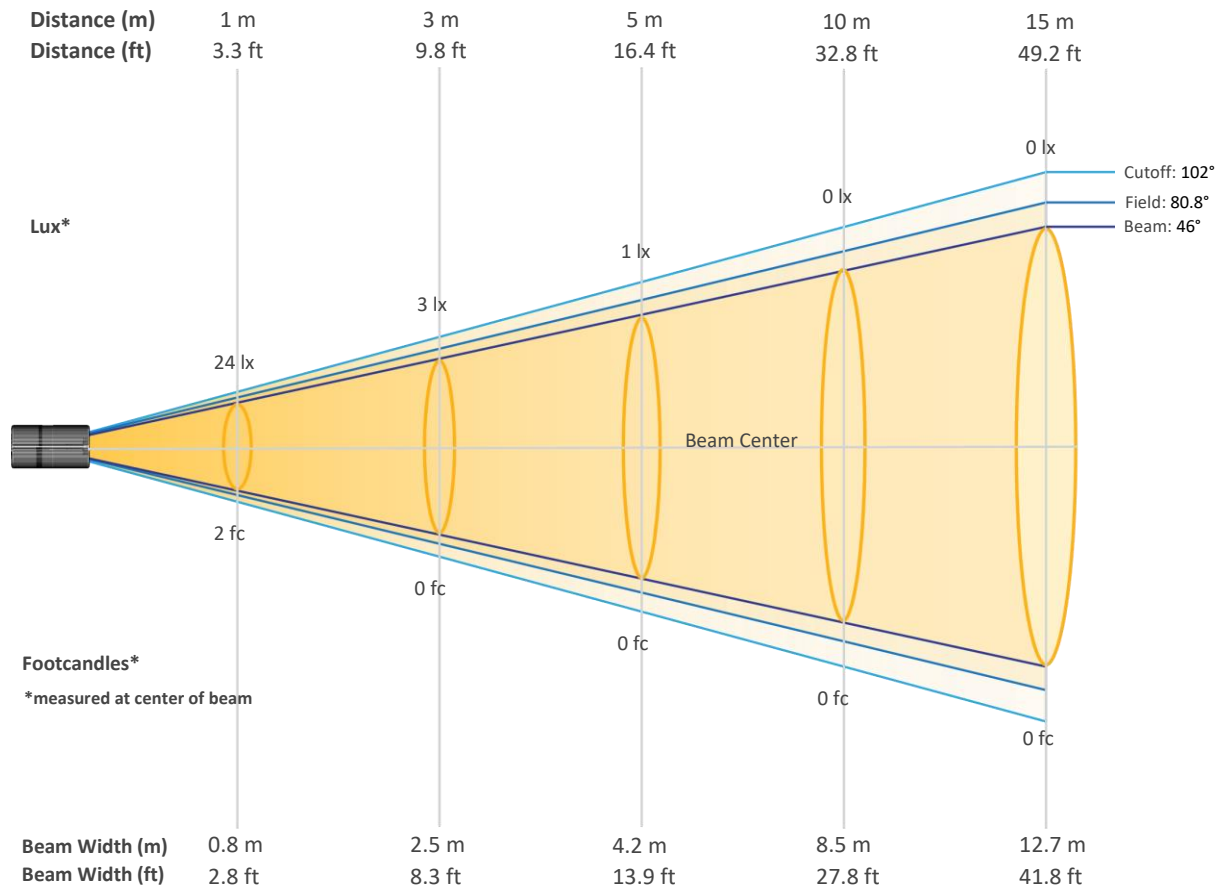
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - Blue Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	24	6	3	2	1	1	0	0	0	0
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	0	0	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	2	1	0	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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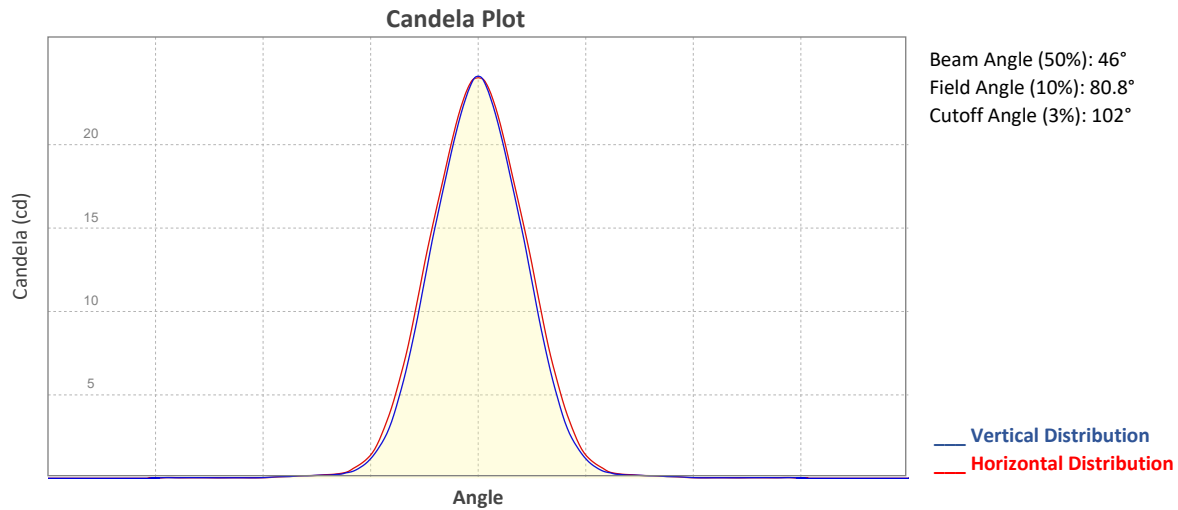
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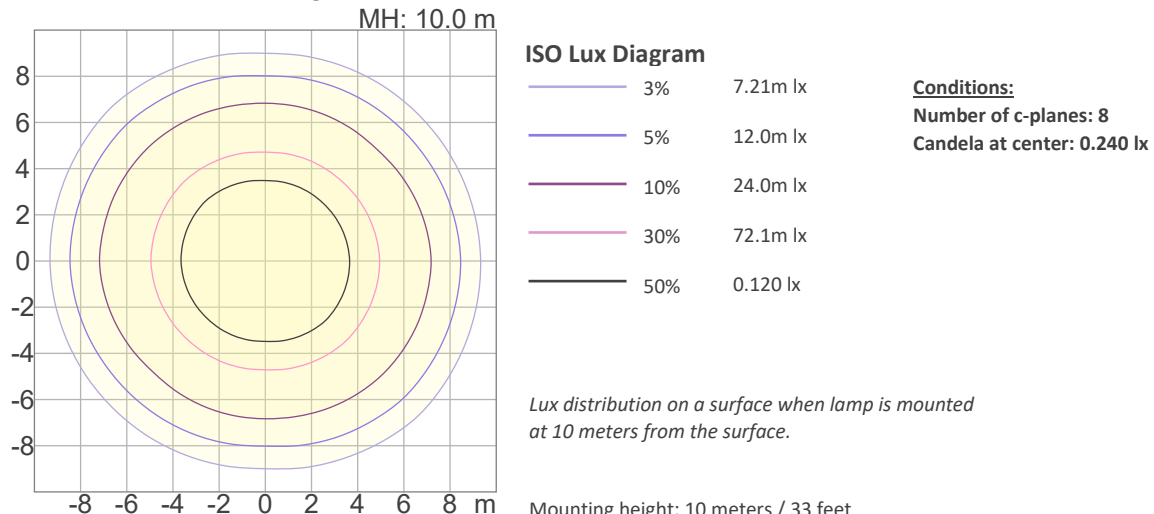
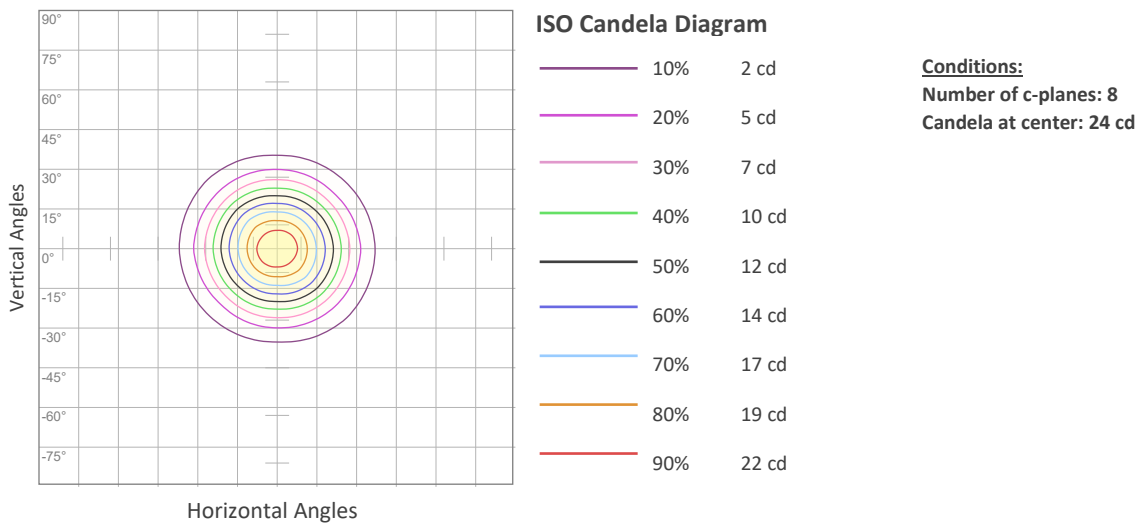
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - Blue Only



## ISO Diagrams



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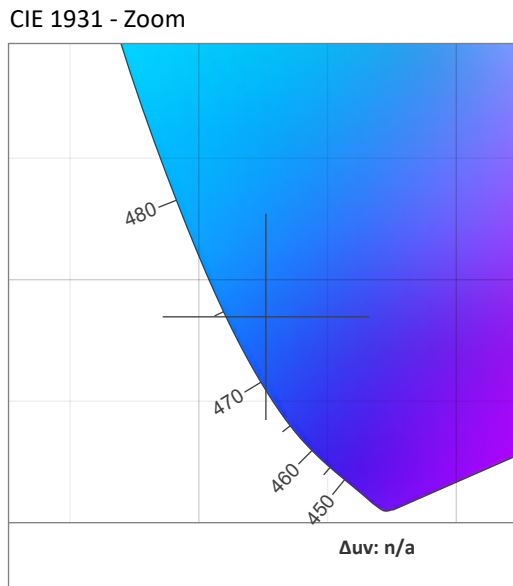
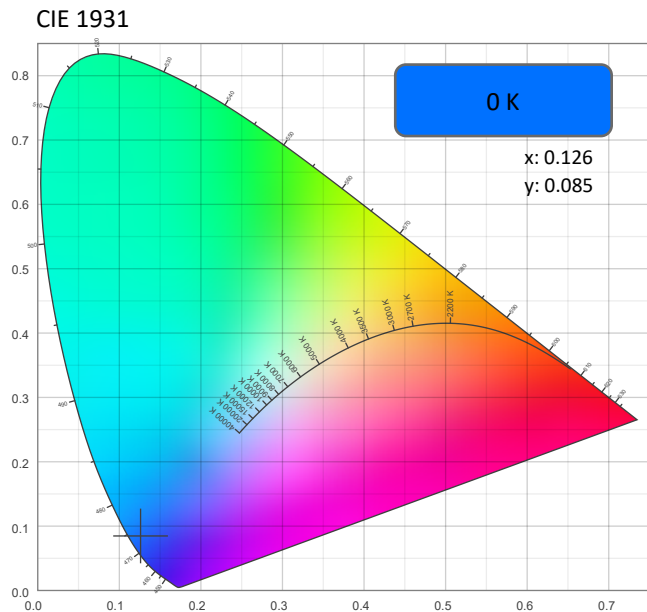
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - Blue Only

## Chromaticity



### CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	

### CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	

### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.126	0.085

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.085	0.134

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

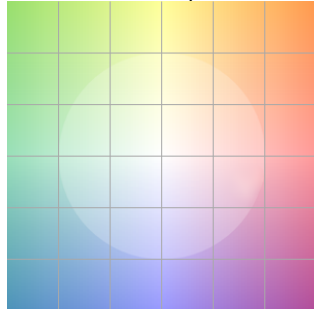
Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - Blue Only

## TM-30 Details

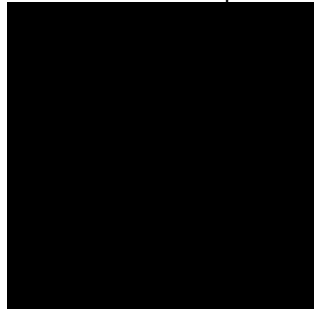
**Rf 0.0**  
Fidelity Index  
(Rg)

**Rg 0.0**  
Gammut Index (Rg)

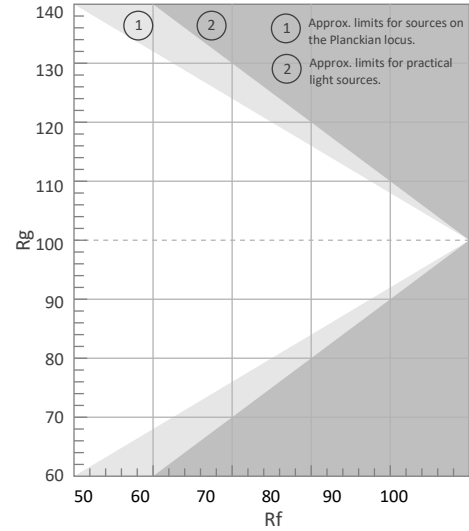
Color Vector Graphic



Color Distortion Graphic



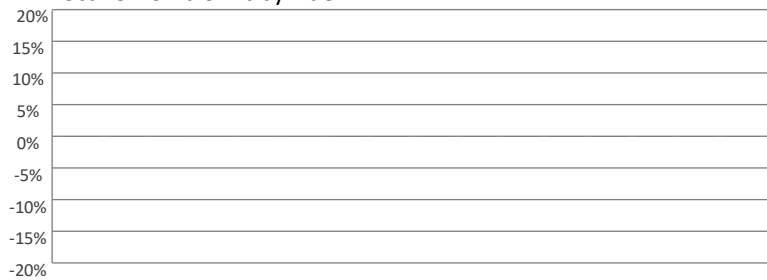
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



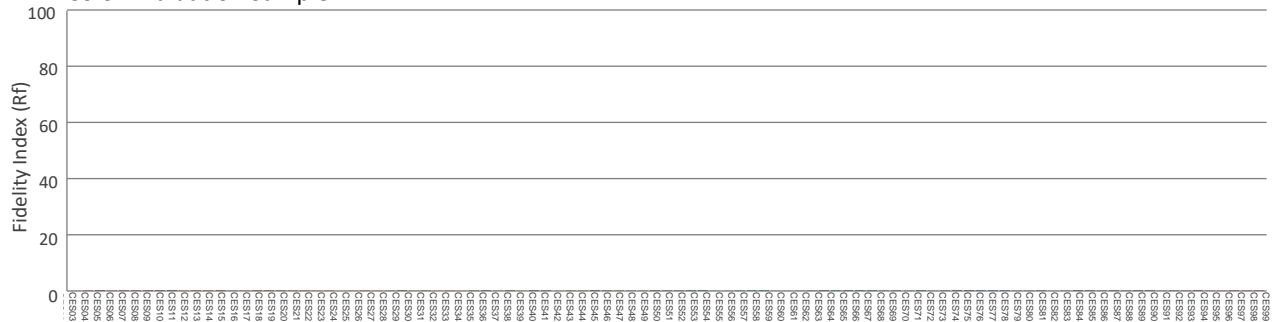
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - Warm White Only

## Report Summary

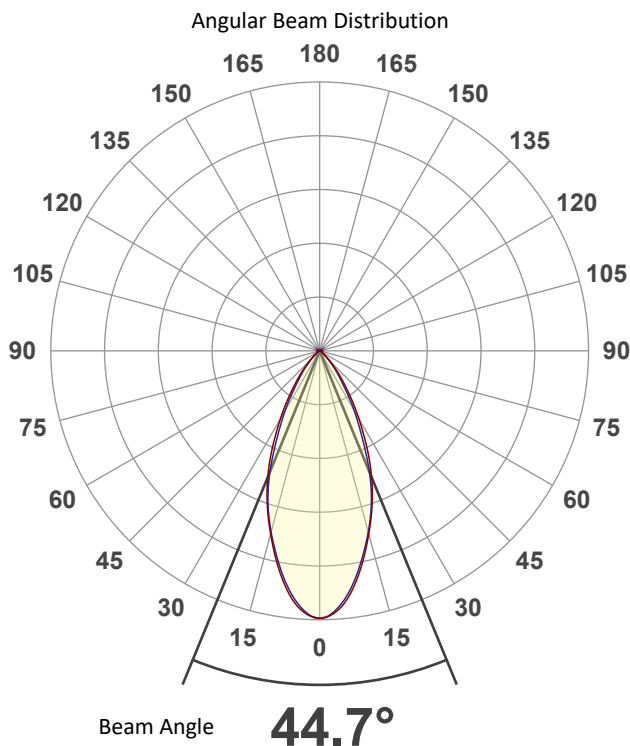
### Measurements

Fixture Output: 43.9 lm  
 Fixture Peak: 67.8 cd  
 Fixture Efficacy: 3 lm/W  
 Intensity @ 5m: 3 lux  
 Color Temperature: 3070 K  
 CRI: 92.3      CRI R9 Value: 71.5  
 CQS: 90.5  
 TLCI: 90  
 TM-30 Rf: 90.8  
 TM-30 Rg: 102.7  
 Beam Angle (50%): 44.7°  
 Field Angle (10%): 79.6°  
 Cutoff Angle (3%): 99.4°  
**Conditions**  
 AC Supply: 120 V, 60 Hz  
 Power: 17.32 W  
 Current: 0.144 A  
 Power Factor: 0.82



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
 X: 0.434  
 Y: 0.406

Light Quality  
 CRI: 92.3

Color Temperature  
 3070 K

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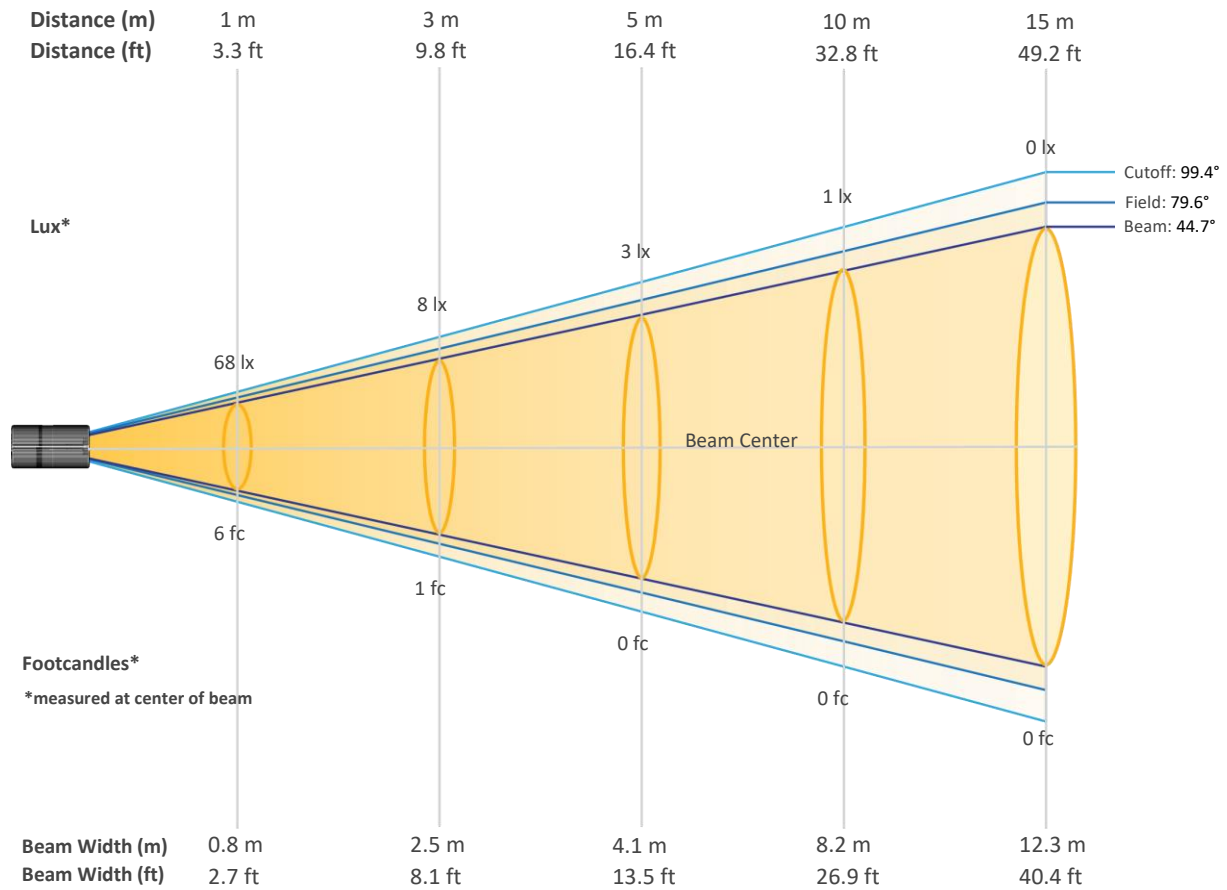
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - Warm White Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	68	17	8	4	3	2	1	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	0	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	6	2	1	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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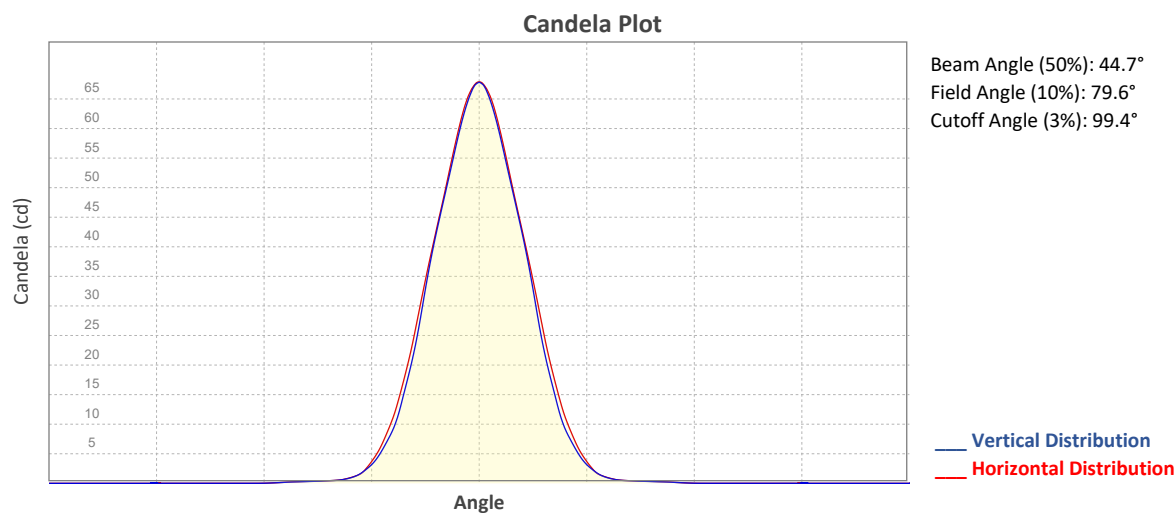
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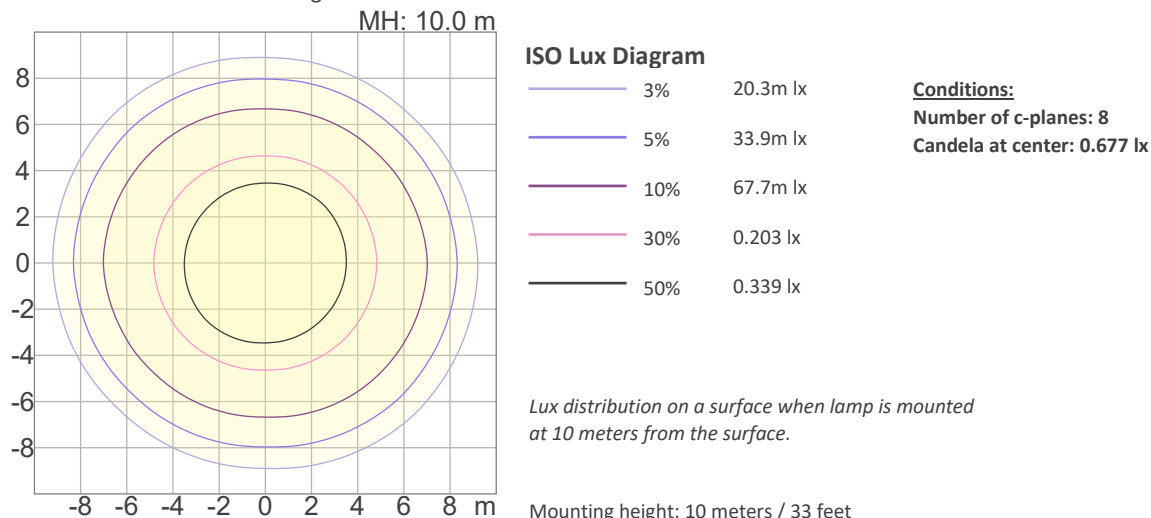
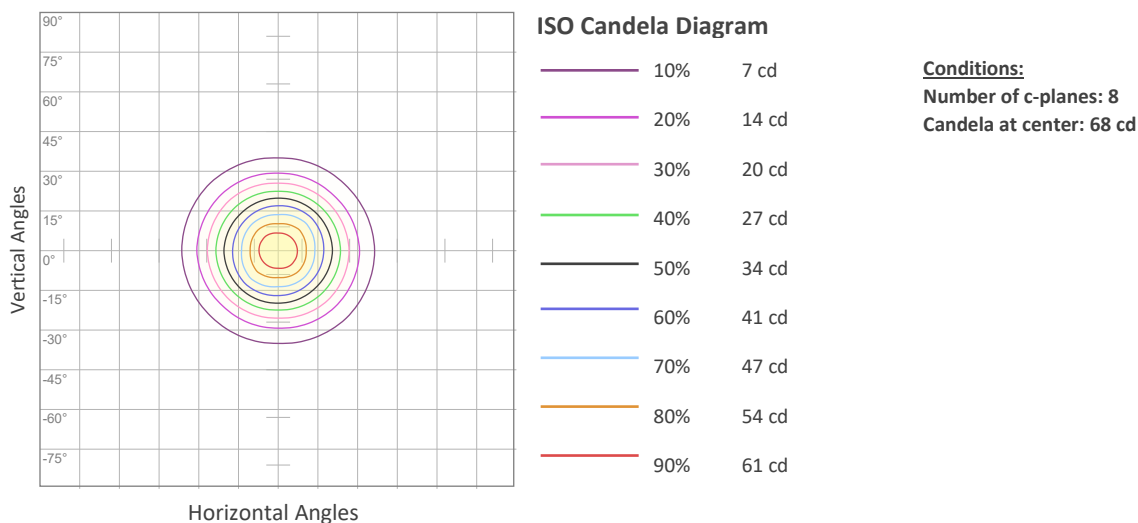
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - Warm White Only



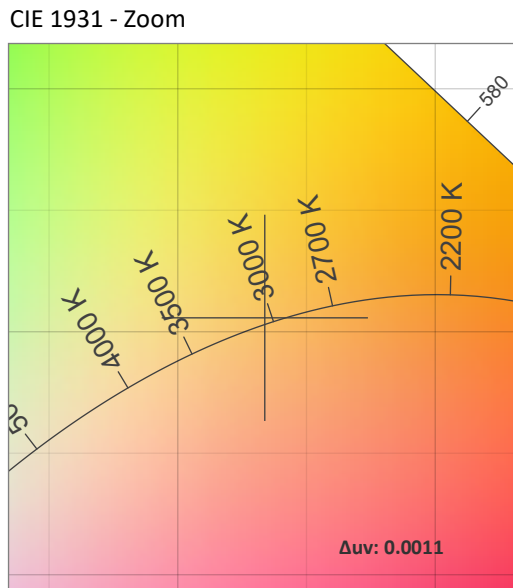
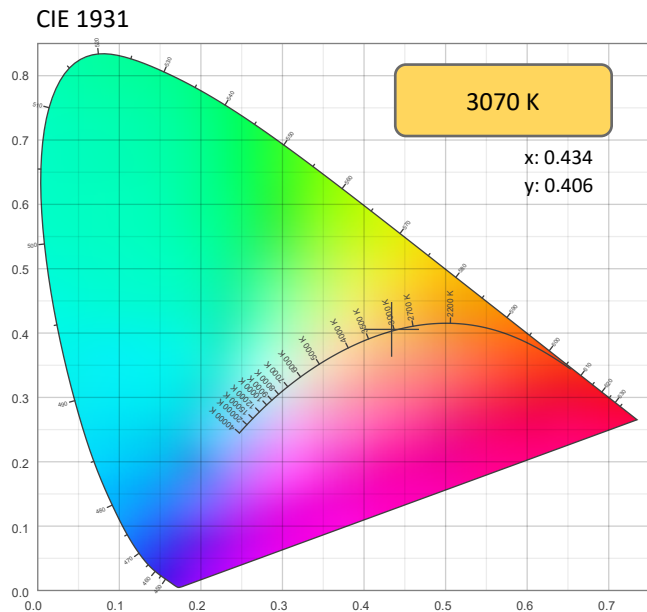
## ISO Diagrams



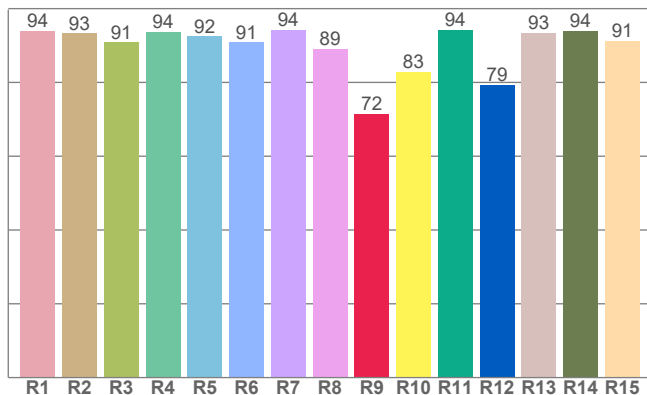
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - Warm White Only

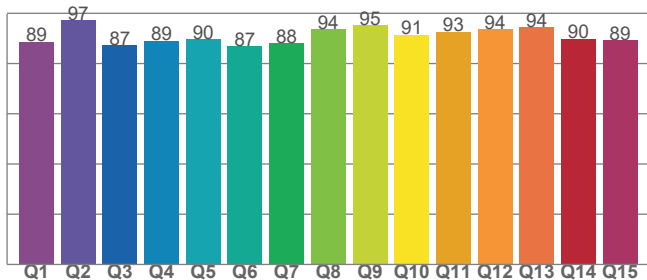
## Chromaticity



CRI: 92.3 (R1-R8)



CQS: 90.5



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3070 K	0.434	0.406

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0011	0.406	0.248

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
92.3	71.5	90.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
90	90.8	102.7

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# Photometric & Chromaticity Report

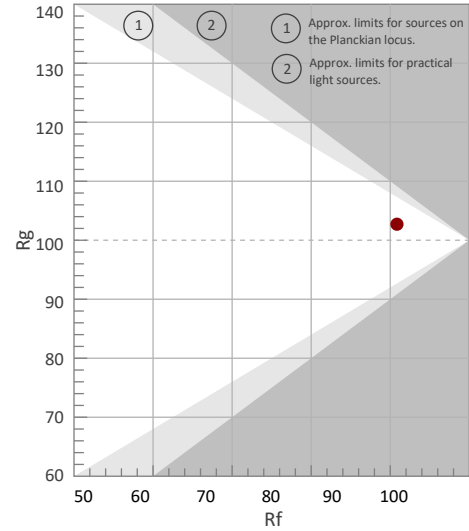
Logic MR16 Downlight S: Medium Filter Lens with Honeycomb - Warm White Only

## TM-30 Details

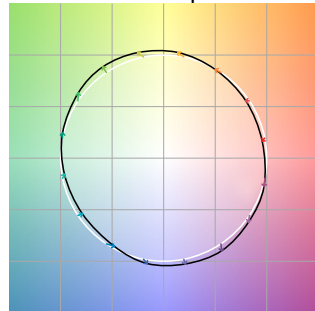
**Rf 90.8**  
Fidelity Index  
(Rg)

**Rg 102.7**  
Gammut Index (Rg)

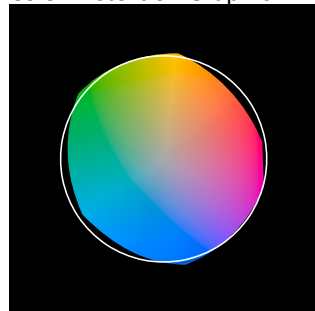
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	-3%	-2%
2	94	-3%	2%
3	88	-1%	6%
4	89	3%	7%
5	91	5%	5%
6	90	6%	0%
7	88	4%	-6%
8	93	1%	-5%
9	93	-3%	-3%
10	91	-4%	1%
11	88	-2%	8%
12	91	3%	4%
13	93	5%	1%
14	91	6%	-3%
15	90	3%	-6%
16	90	1%	-8%



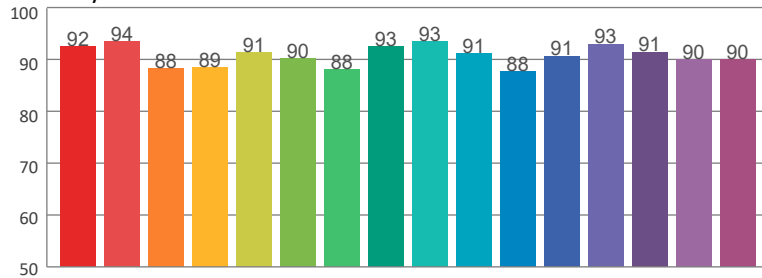
Color Vector Graphic



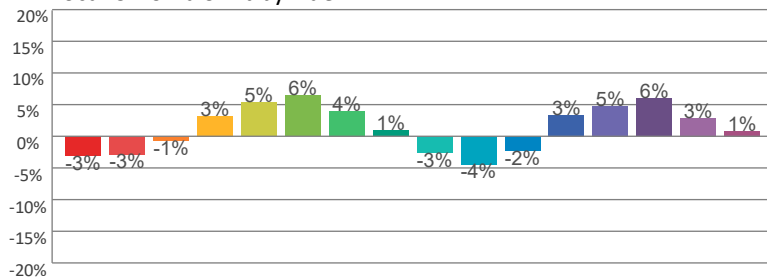
Color Distortion Graphic



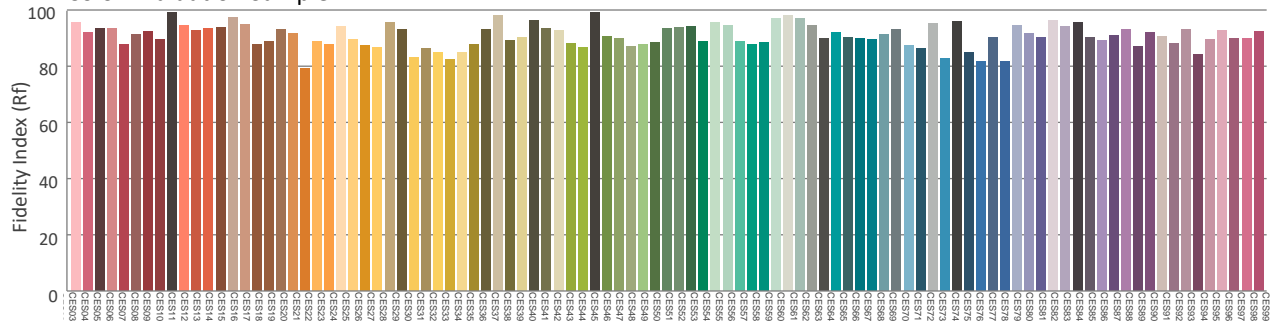
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - RGBW - Full Power

## Report Summary

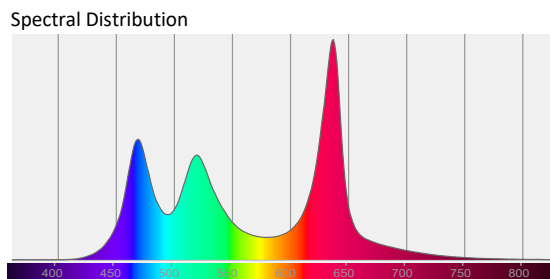
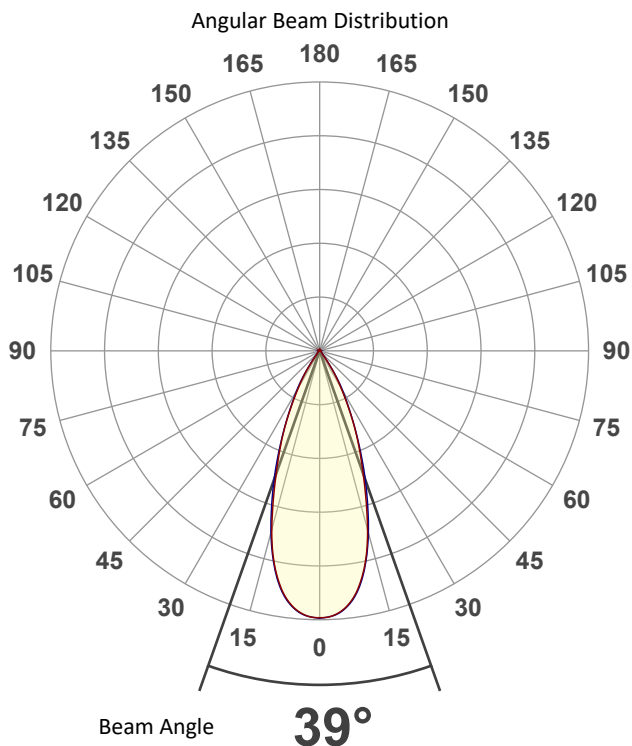
### Measurements

Fixture Output: 98.6 lm  
Fixture Peak: 203 cd  
Fixture Efficacy: 5 lm/W  
Intensity @ 5m: 8 lux  
Color Temperature: 5039 K  
CRI: 44.4      CRI R9 Value: -147.1  
CQS: 62.8  
TLCI: 27  
TM-30 Rf: 61.9  
TM-30 Rg: 106.3  
Beam Angle (50%): 39°  
Field Angle (10%): 66.2°  
Cutoff Angle (3%): 77.5°  
Conditions  
AC Supply: 121 V, 60 Hz  
Power: 23.05 W  
Current: 0.191 A  
Power Factor: 0.89



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/2/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):

X: 0.344

Y: 0.346

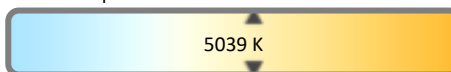


Light Quality

CRI: 44.4

Color Temperature

5039 K



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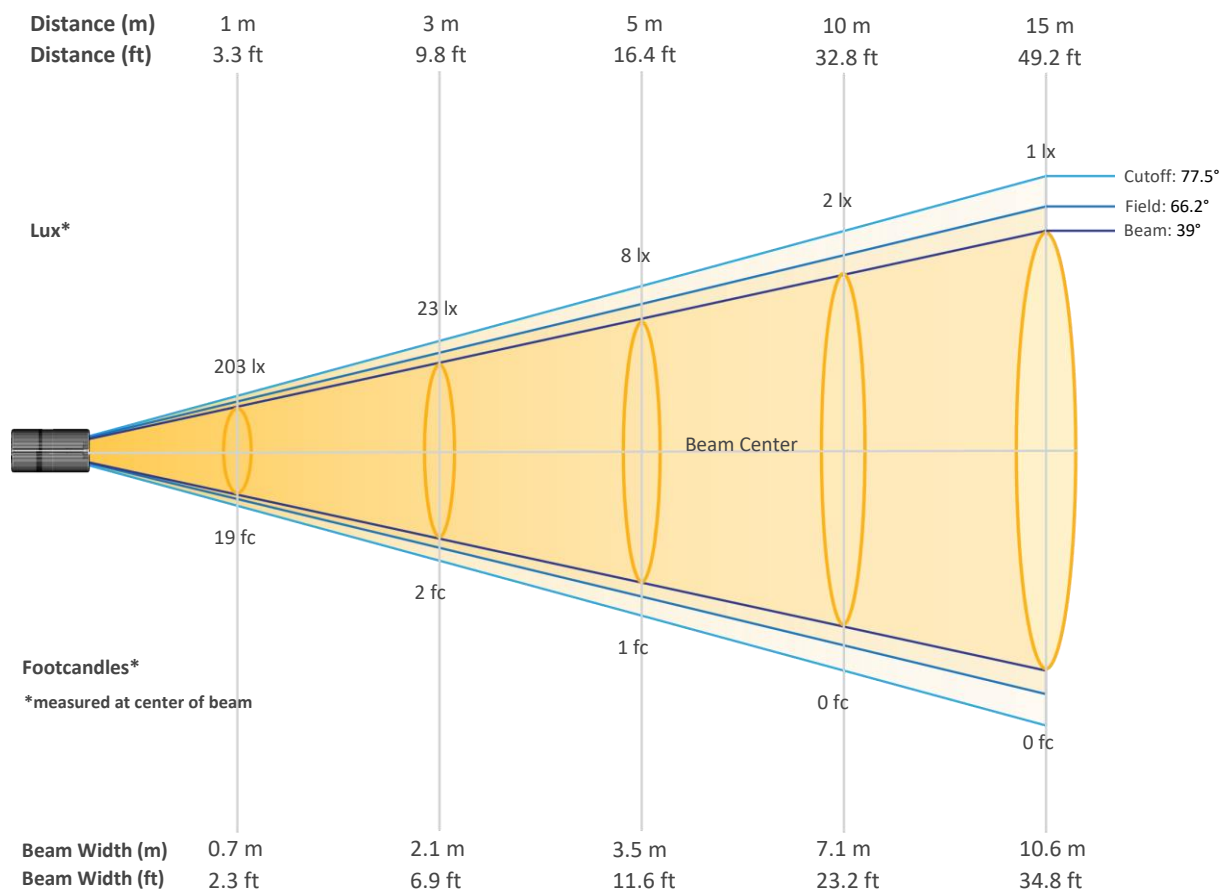
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - RGBW - Full Power

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	203	51	23	13	8	6	4	3	3	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	1	1	1	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	19	5	2	1	1	1	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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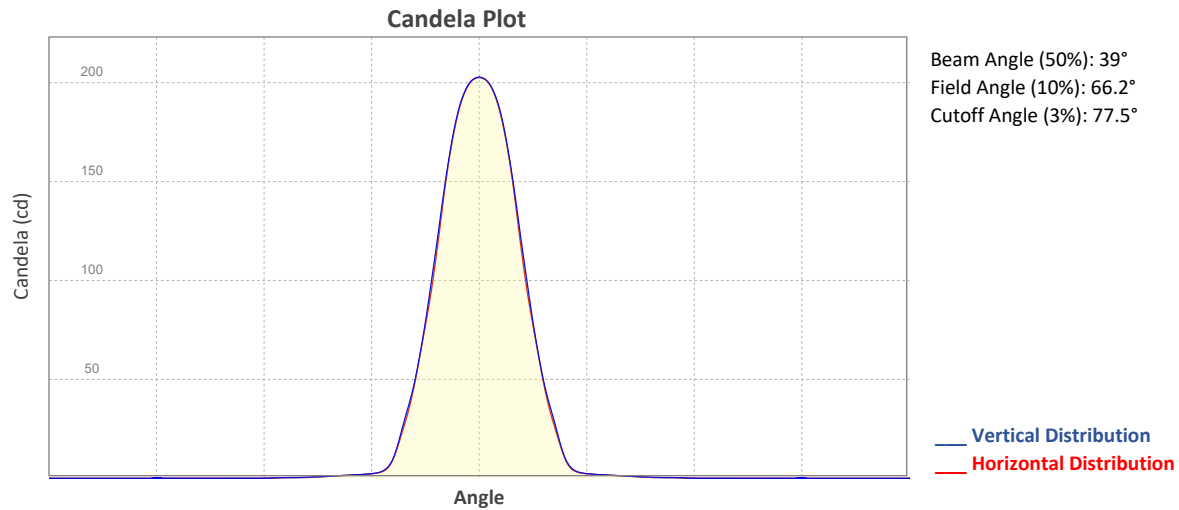
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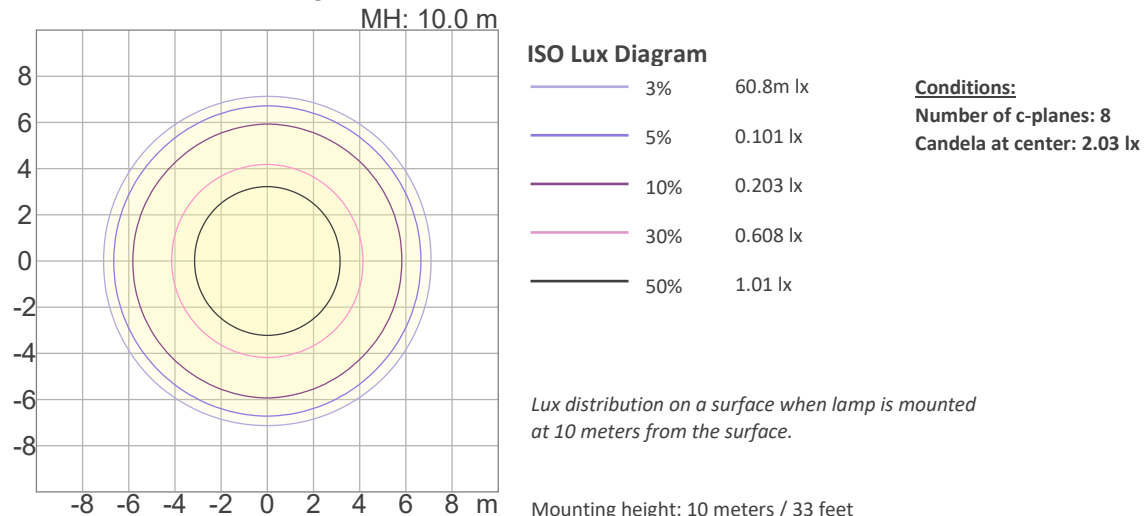
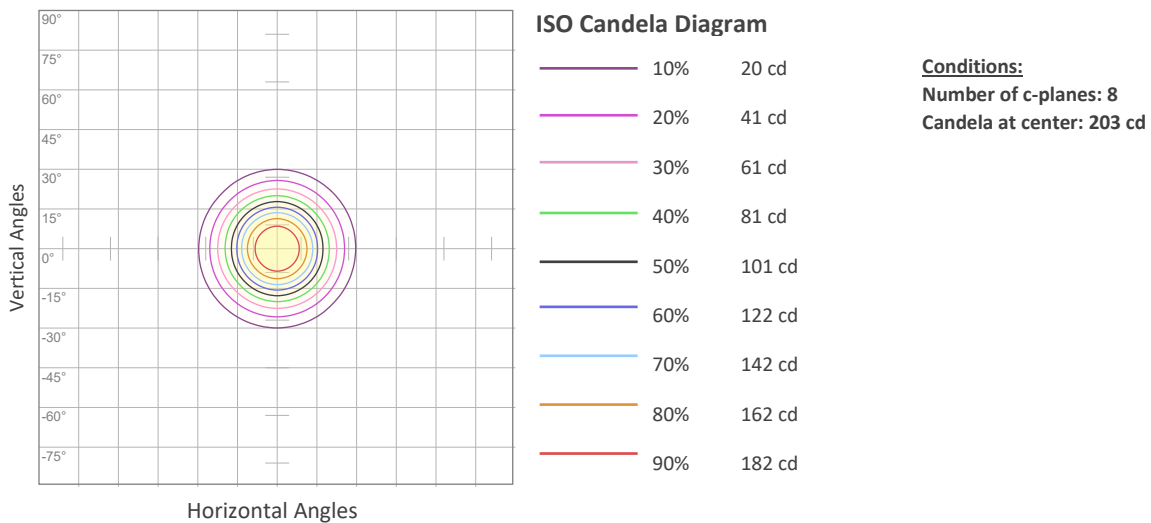
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - RGBW - Full Power



## ISO Diagrams



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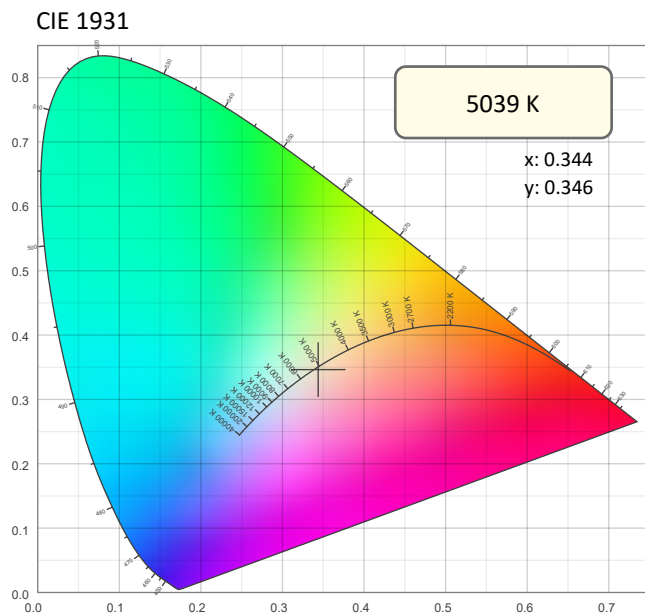
All product specifications, measurements and dimensions are subject to change without notice

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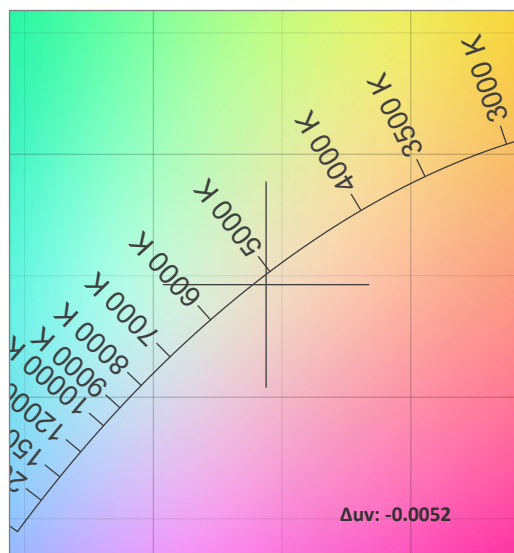
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - RGBW - Full Power

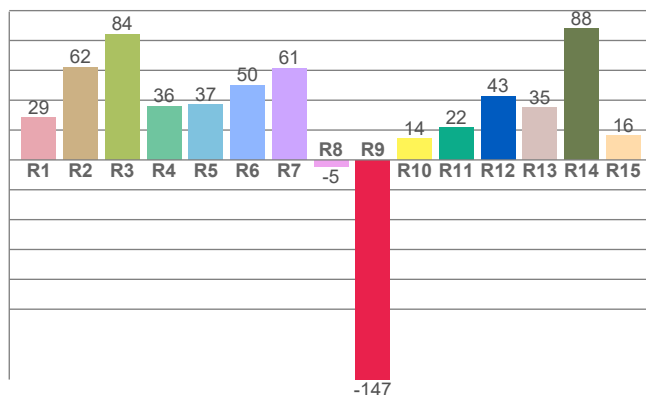
## Chromaticity



CIE 1931 - Zoom



CRI: 44.4 (R1-R8)

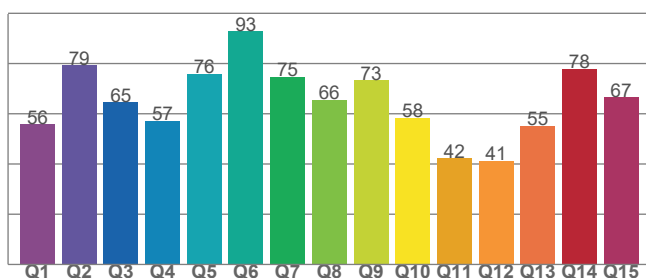


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5039 K	0.344	0.346

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0052	0.346	0.213

CQS: 62.8



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
44.4	-147.1	62.8

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
27	61.9	106.3

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# Photometric & Chromaticity Report

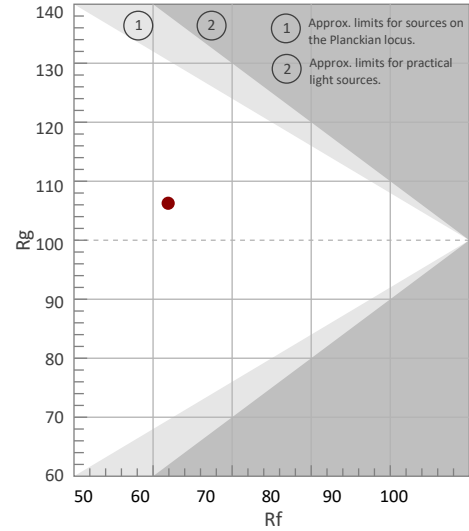
Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - RGBW - Full Power

## TM-30 Details

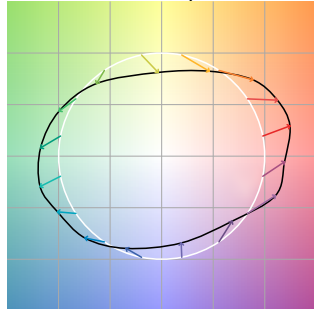
**Rf 61.9**  
Fidelity Index (Rg)

**Rg 106.3**  
Gammut Index (Rg)

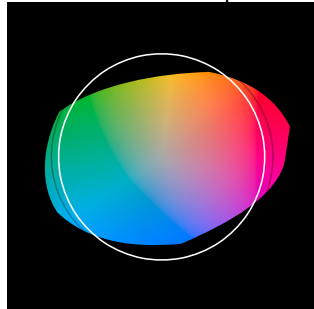
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	49	28%	4%
2	56	23%	-17%
3	38	11%	-32%
4	52	-10%	-29%
5	67	-20%	-13%
6	78	-6%	13%
7	68	7%	19%
8	64	17%	15%
9	70	21%	6%
10	67	14%	-11%
11	66	7%	-18%
12	74	-6%	-16%
13	76	-14%	2%
14	61	-10%	22%
15	58	13%	29%
16	56	18%	18%



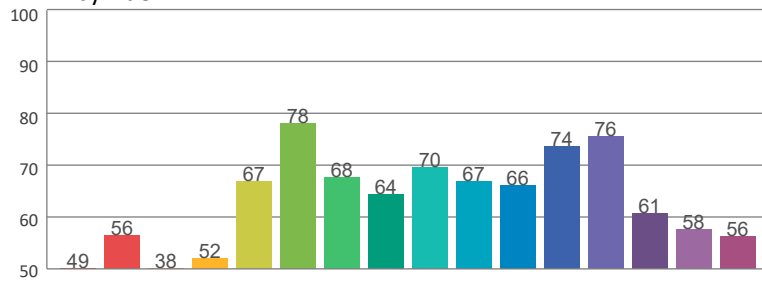
Color Vector Graphic



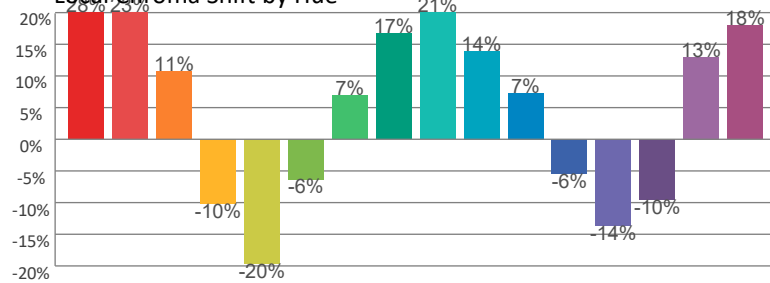
Color Distortion Graphic



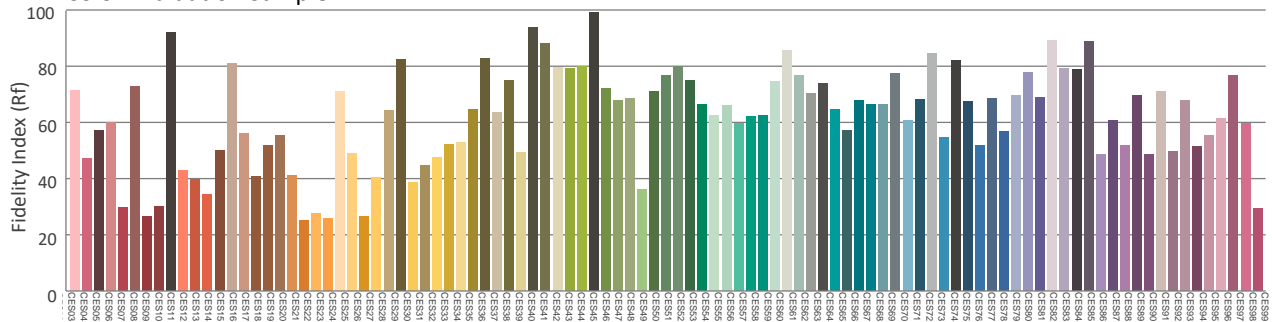
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - Red Only

## Report Summary

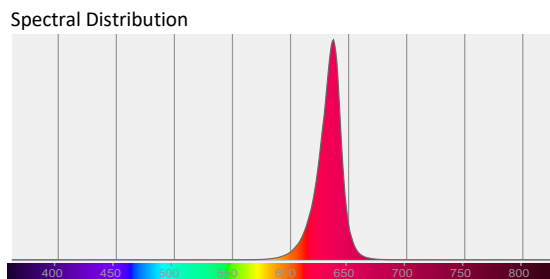
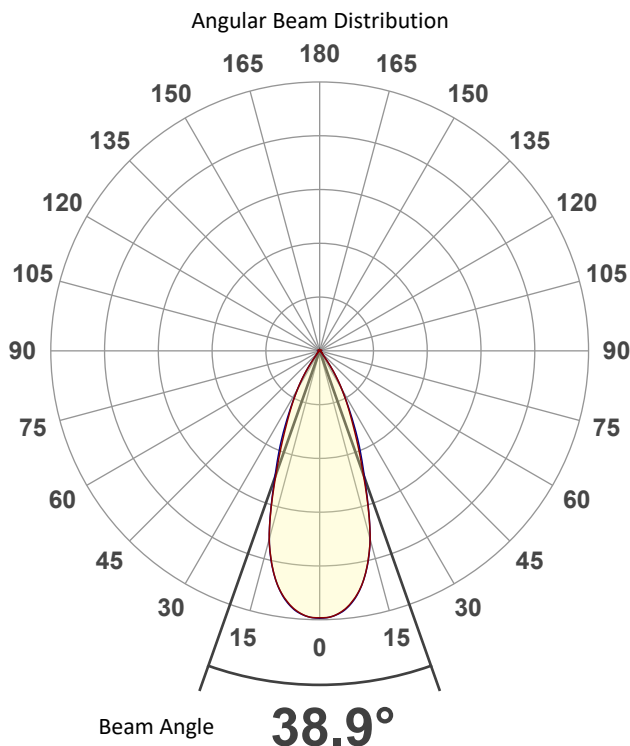
### Measurements

Fixture Output: 26.9 lm  
Fixture Peak: 54.6 cd  
Fixture Efficacy: 2 lm/W  
Intensity @ 5m: 2 lux  
Color Temperature: 0 K  
CRI: 0.0      CRI R9 Value: 0.0  
CQS: 0.0  
TLCl: n/a  
TM-30 Rf: 0.0  
TM-30 Rg: 0.0  
Beam Angle (50%): 38.9°  
Field Angle (10%): 66.4°  
Cutoff Angle (3%): 77.1°  
Conditions  
AC Supply: 121 V, 60 Hz  
Power: 17.01 W  
Current: 0.141 A  
Power Factor: 0.81



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/2/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.699  
Y: 0.300



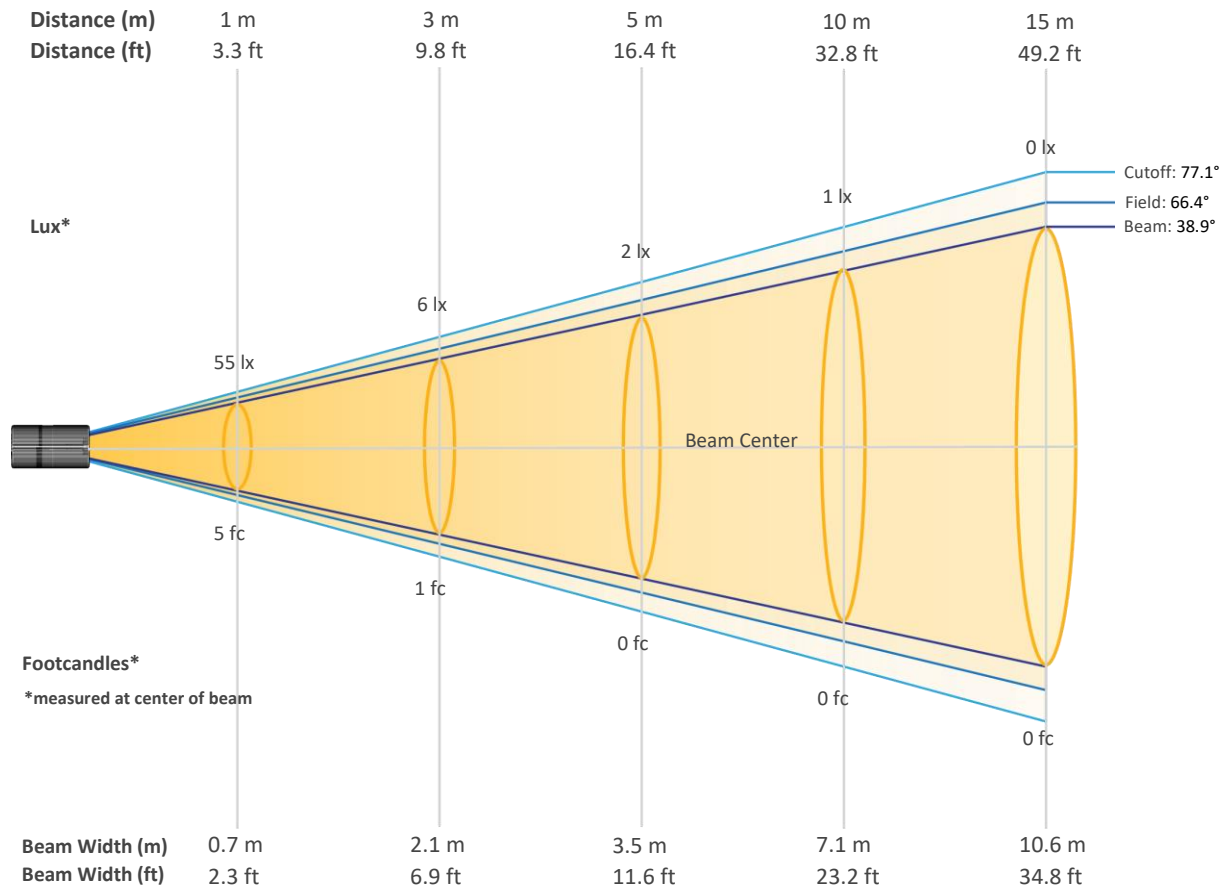
Light Quality  
CRI: 0.0

Color Temperature  
0 K

# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - Red Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	55	14	6	3	2	2	1	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	0	0	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	5	1	1	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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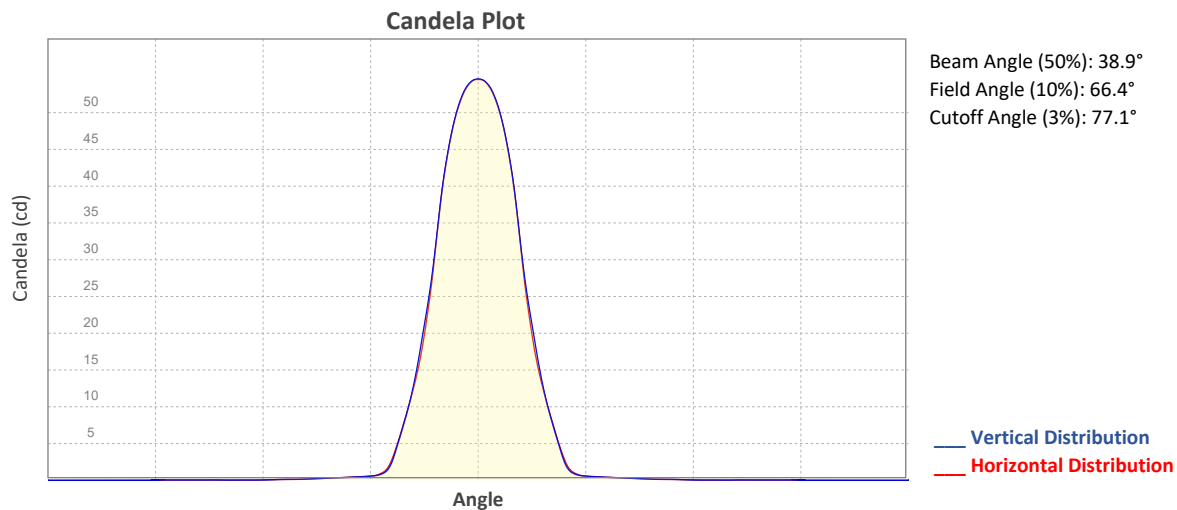
All product specifications, measurements and dimensions are subject to change without notice

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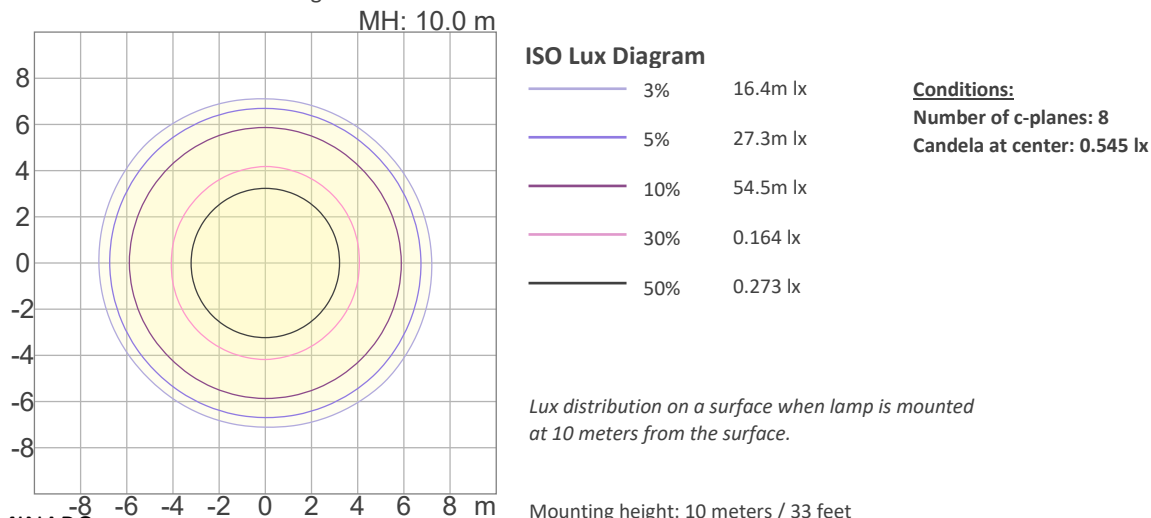
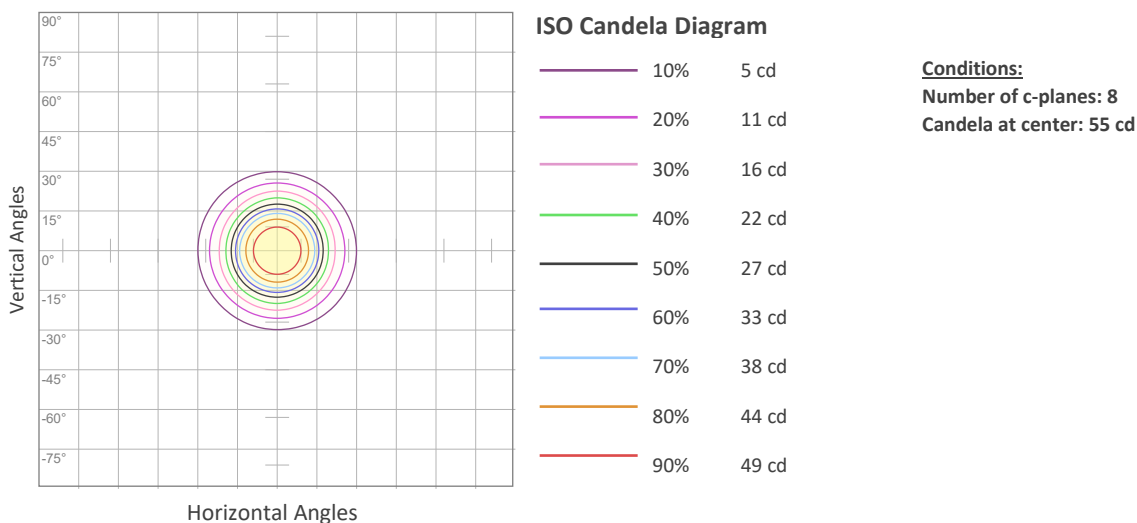


# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - Red Only



## ISO Diagrams



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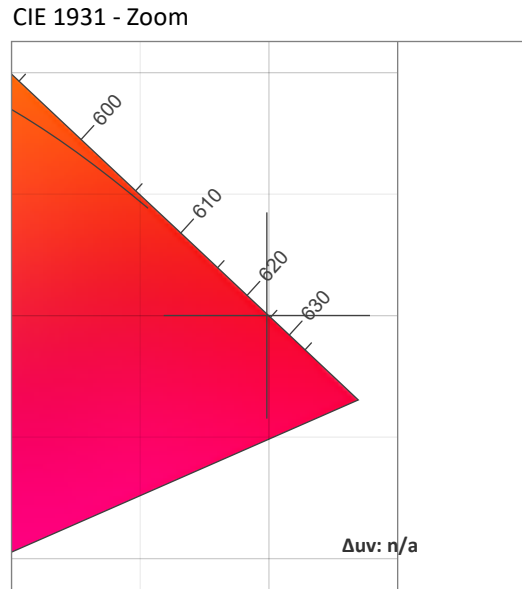
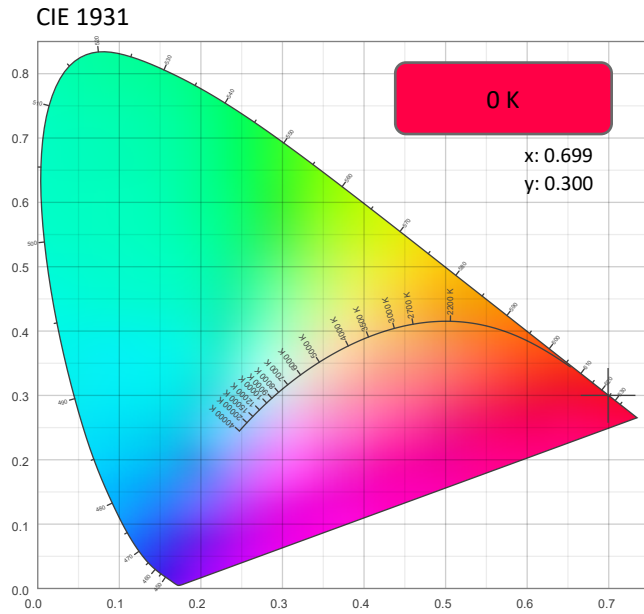
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - Red Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.699	0.300

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.300	0.538

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

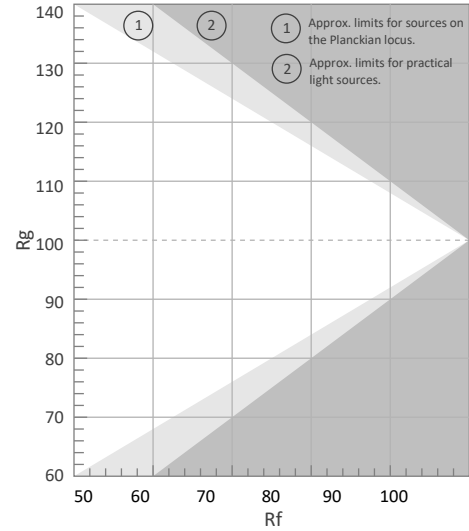
Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - Red Only

## TM-30 Details

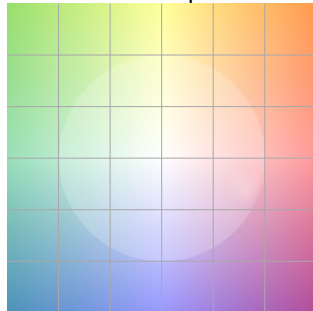
**Rf 0.0**  
Fidelity Index (Rg)

**Rg 0.0**  
Gammut Index (Rg)

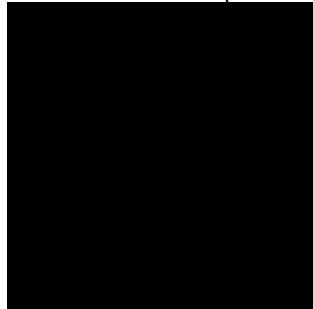
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



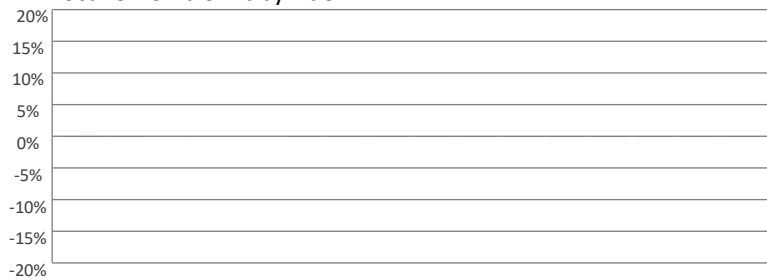
Color Distortion Graphic



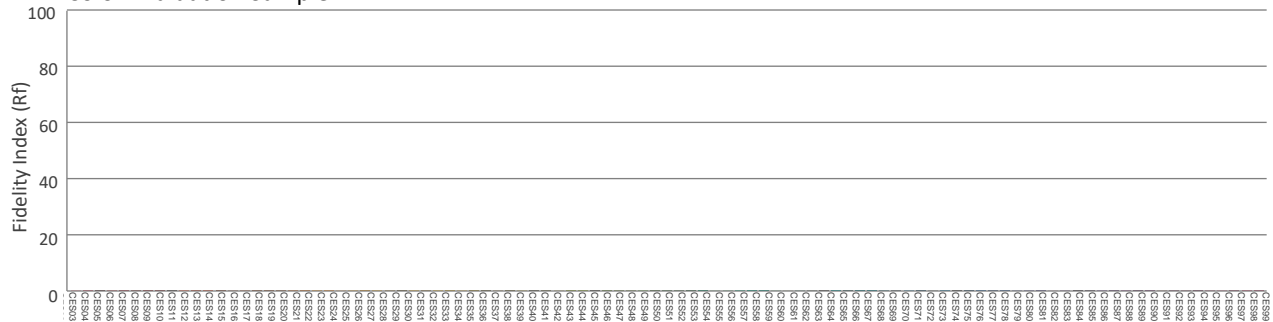
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - Green Only

## Report Summary

### Measurements

Fixture Output: 45.8 lm

Fixture Peak: 94.5 cd

Fixture Efficacy: 3 lm/W

Intensity @ 5m: 4 lux

Color Temperature: 0 K

CRI: 0.0      CRI R9 Value: 0.0

CQS: 0.0

TLCl: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 38.3°

Field Angle (10%): 66.8°

Cutoff Angle (3%): 77.7°

### Conditions

AC Supply: 120 V, 60 Hz

Power: 17.65 W

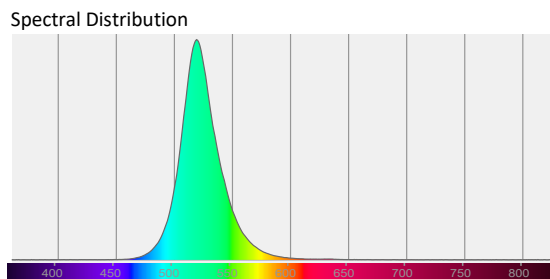
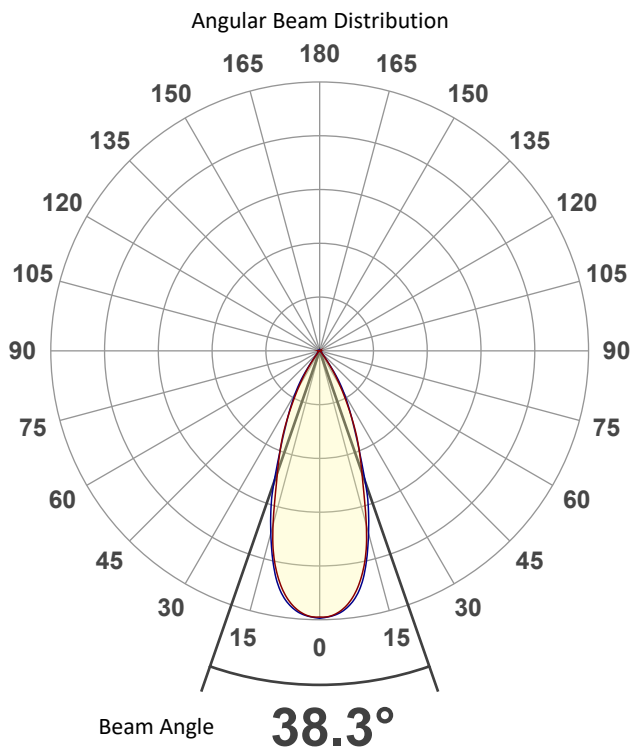
Current: 0.147 A

Power Factor: 0.82



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/2/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):

X: 0.161

Y: 0.720



Light Quality

CRI: 0.0

Color Temperature

0 K

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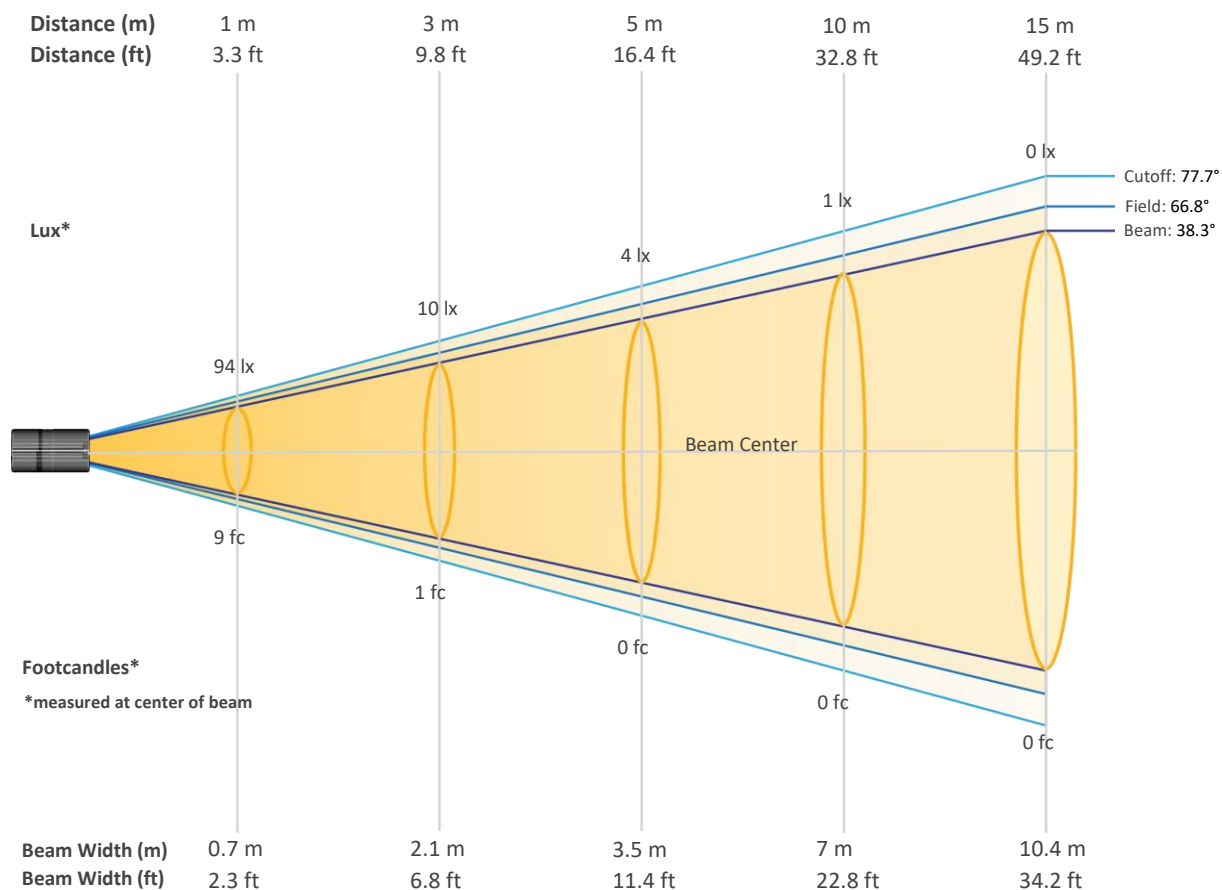
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - Green Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	94	24	10	6	4	3	2	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	9	2	1	1	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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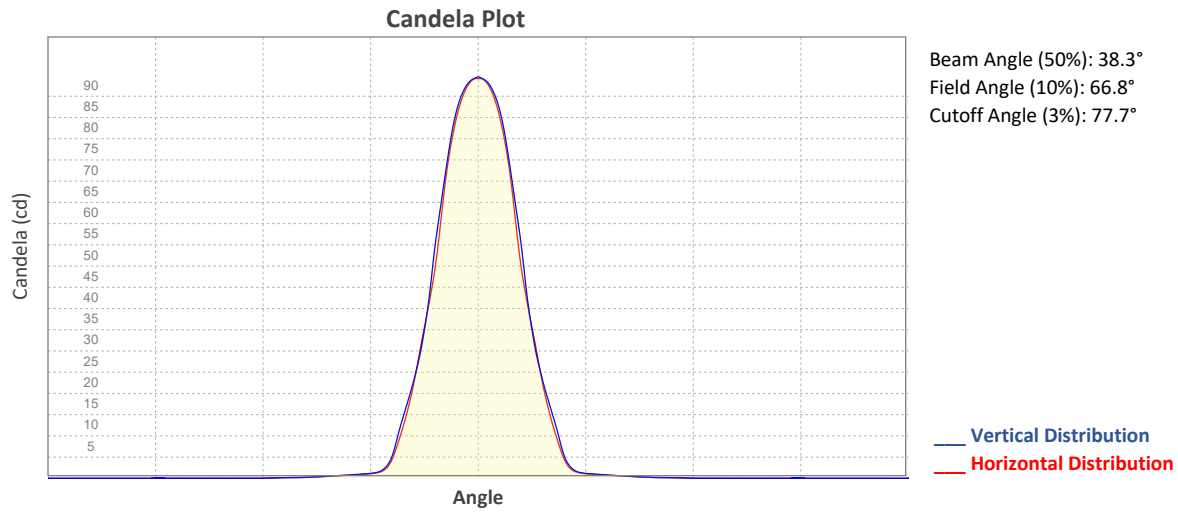
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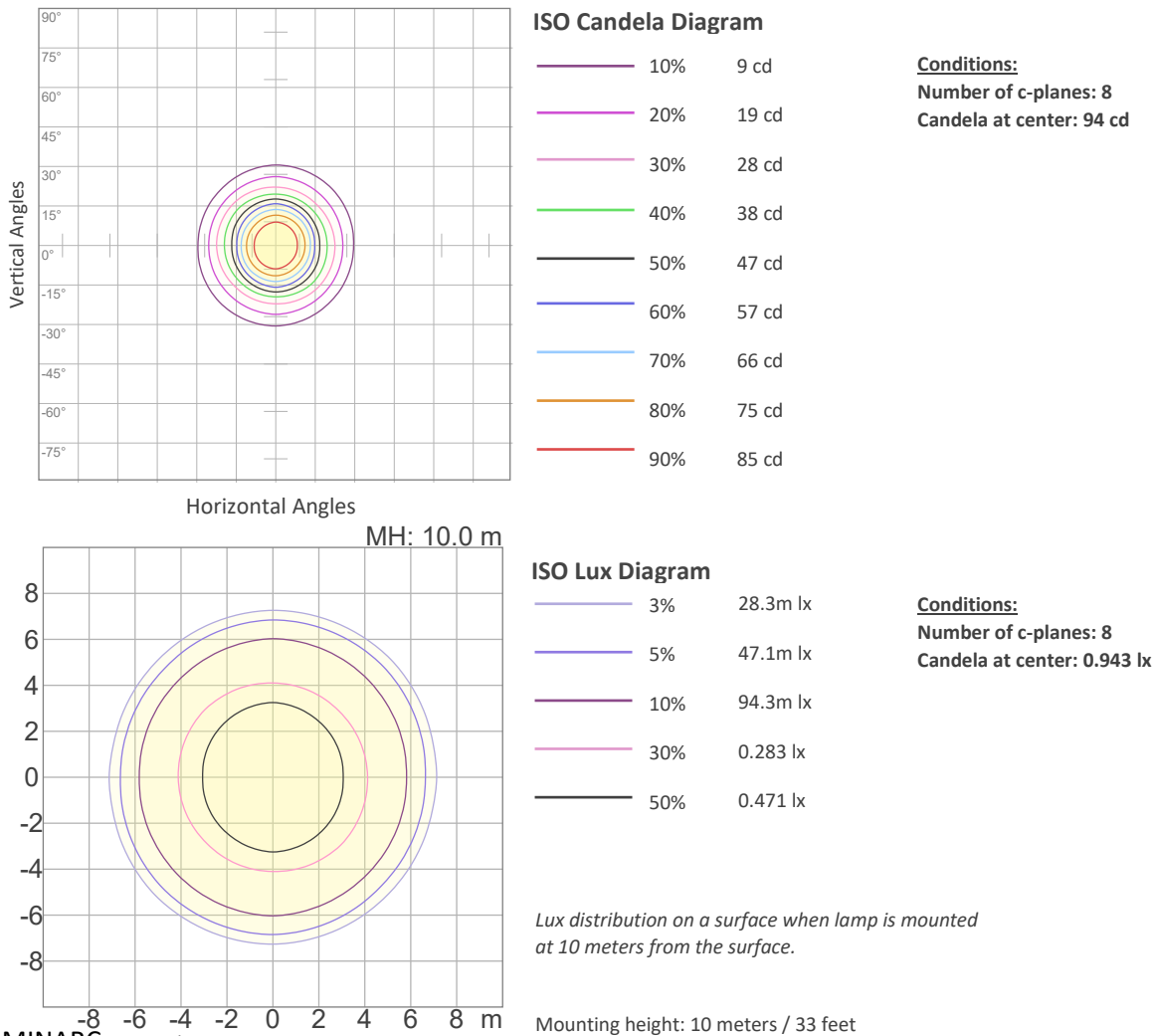
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - Green Only



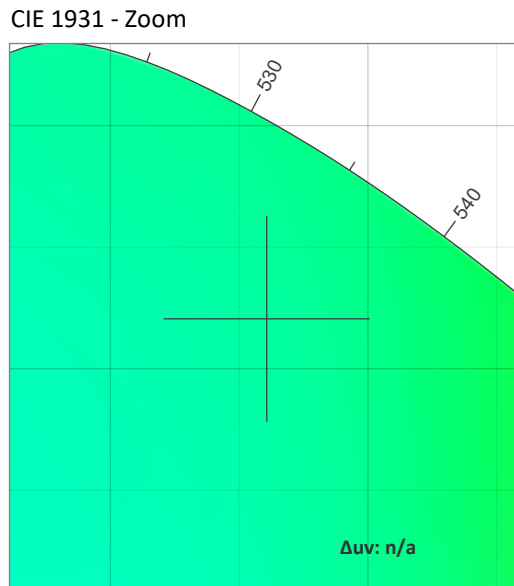
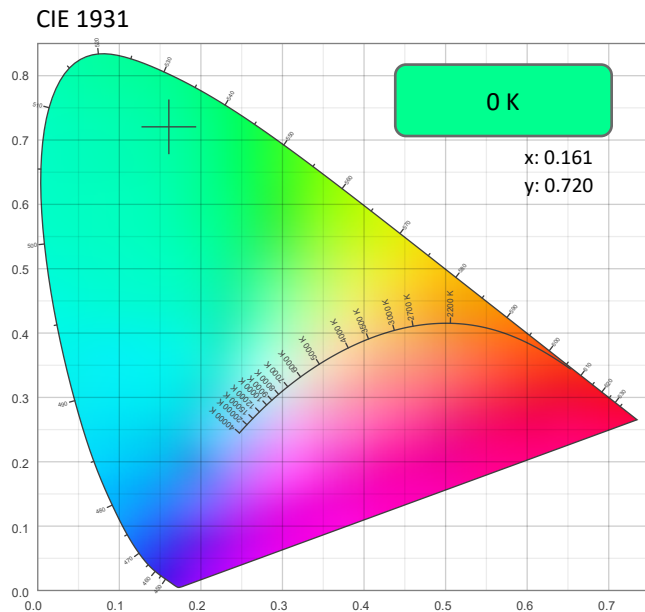
## ISO Diagrams



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - Green Only

## Chromaticity



### CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

### CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.161	0.720

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
n/a	0.720	0.057

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

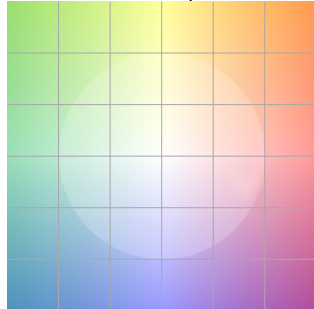
Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - Green Only

## TM-30 Details

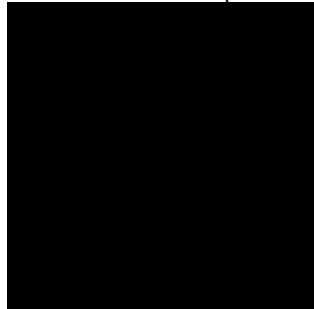
**Rf 0.0**  
Fidelity Index (Rg)

**Rg 0.0**  
Gammut Index (Rg)

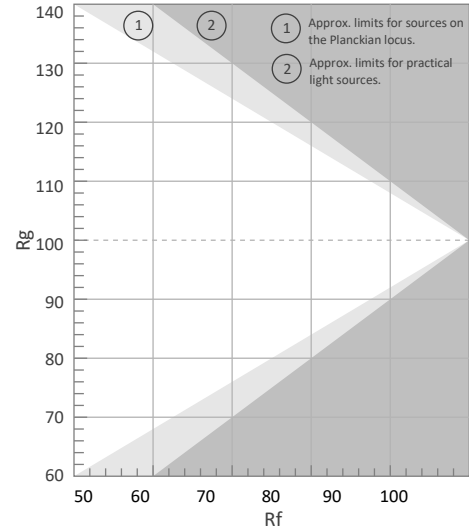
Color Vector Graphic



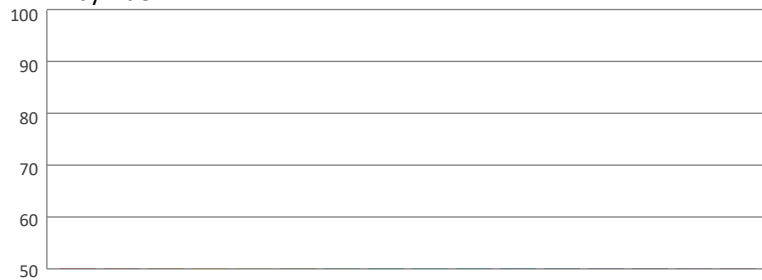
Color Distortion Graphic



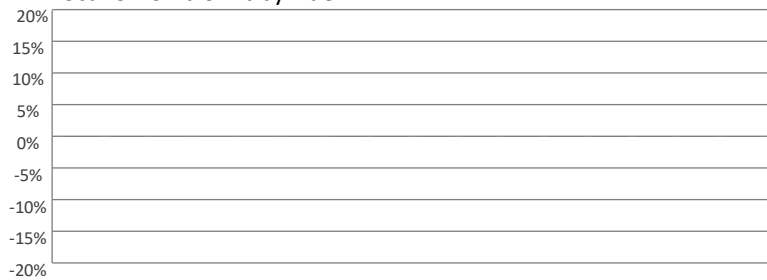
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



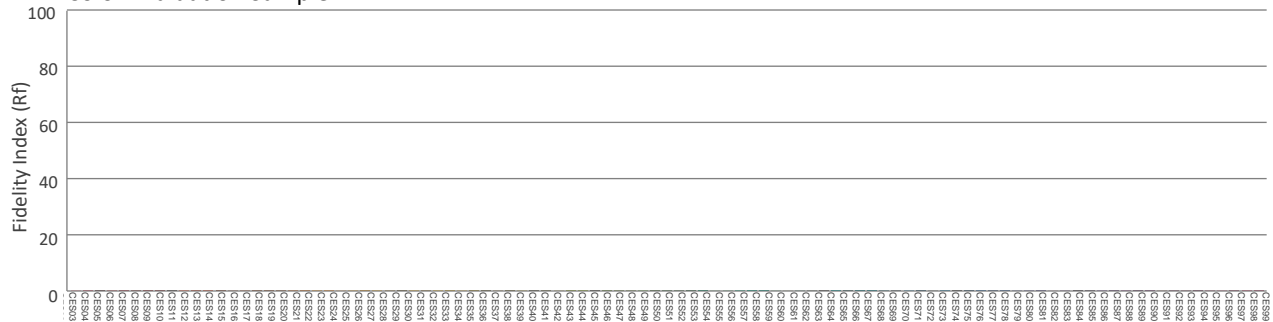
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample





# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - Blue Only

## Report Summary

### Measurements

Fixture Output: 13.3 lm

Fixture Peak: 27.0 cd

Fixture Efficacy: 1 lm/W

Intensity @ 5m: 1 lux

Color Temperature: 0 K

CRI: 0.0      CRI R9 Value: 0.0

CQS: 0.0

TLCl: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 38.4°

Field Angle (10%): 67°

Cutoff Angle (3%): 78.6°

### Conditions

AC Supply: 120 V, 60 Hz

Power: 17.51 W

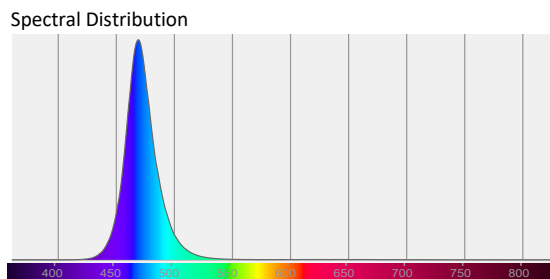
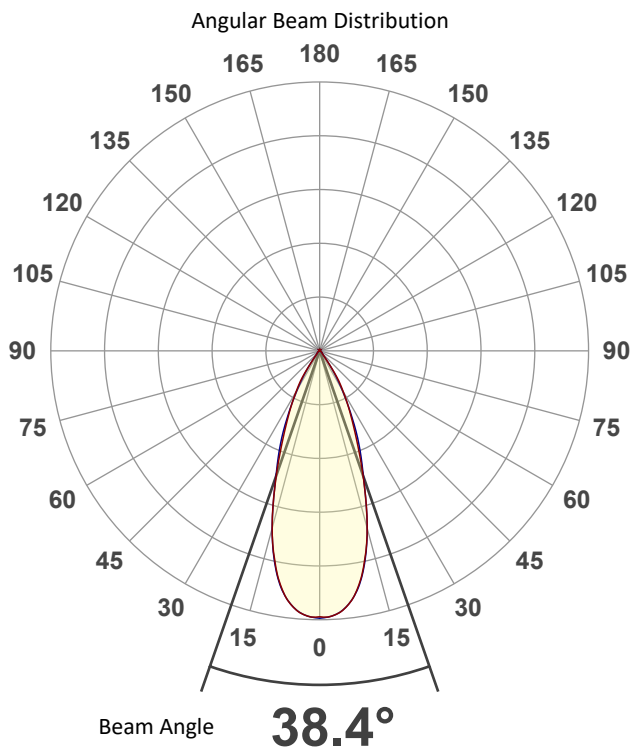
Current: 0.146 A

Power Factor: 0.82



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/2/2022 to LM-63-2002 Standards.

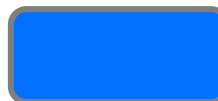
## Overall Measurement



Tested Color (CIE 1931):

X: 0.126

Y: 0.085

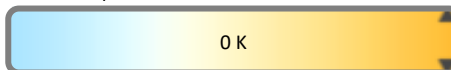


Light Quality

CRI: 0.0

Color Temperature

0 K



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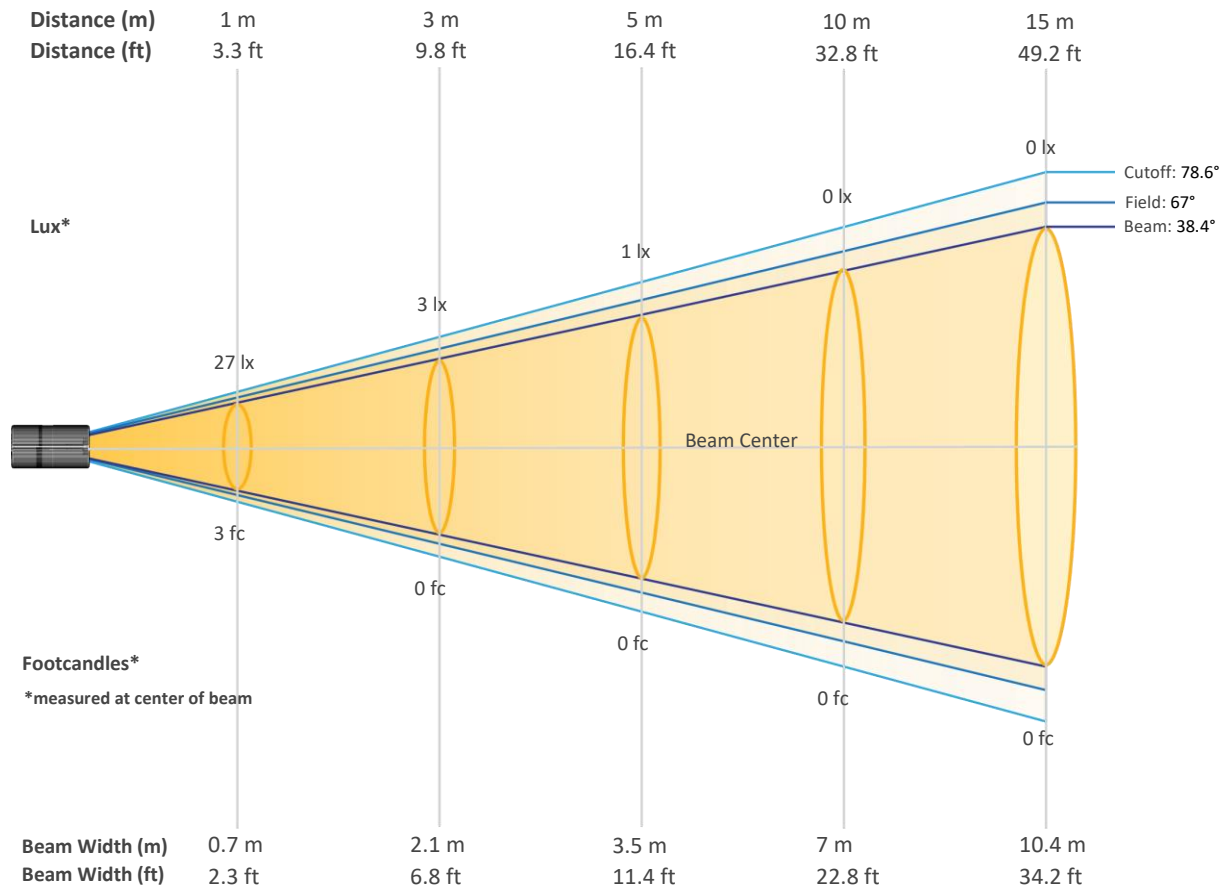
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - Blue Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	27	7	3	2	1	1	1	0	0	0
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	0	0	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	3	1	0	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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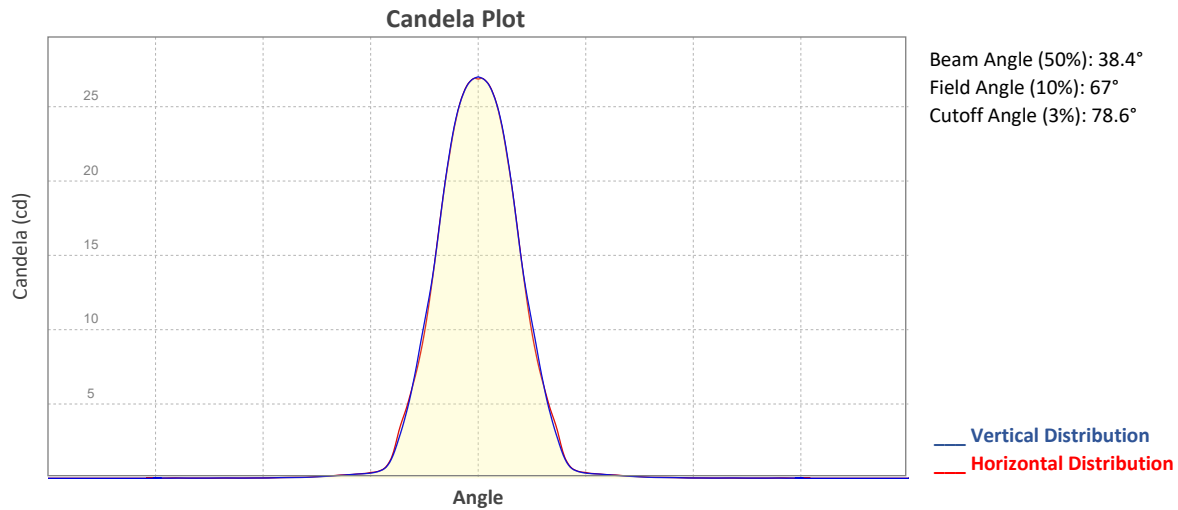
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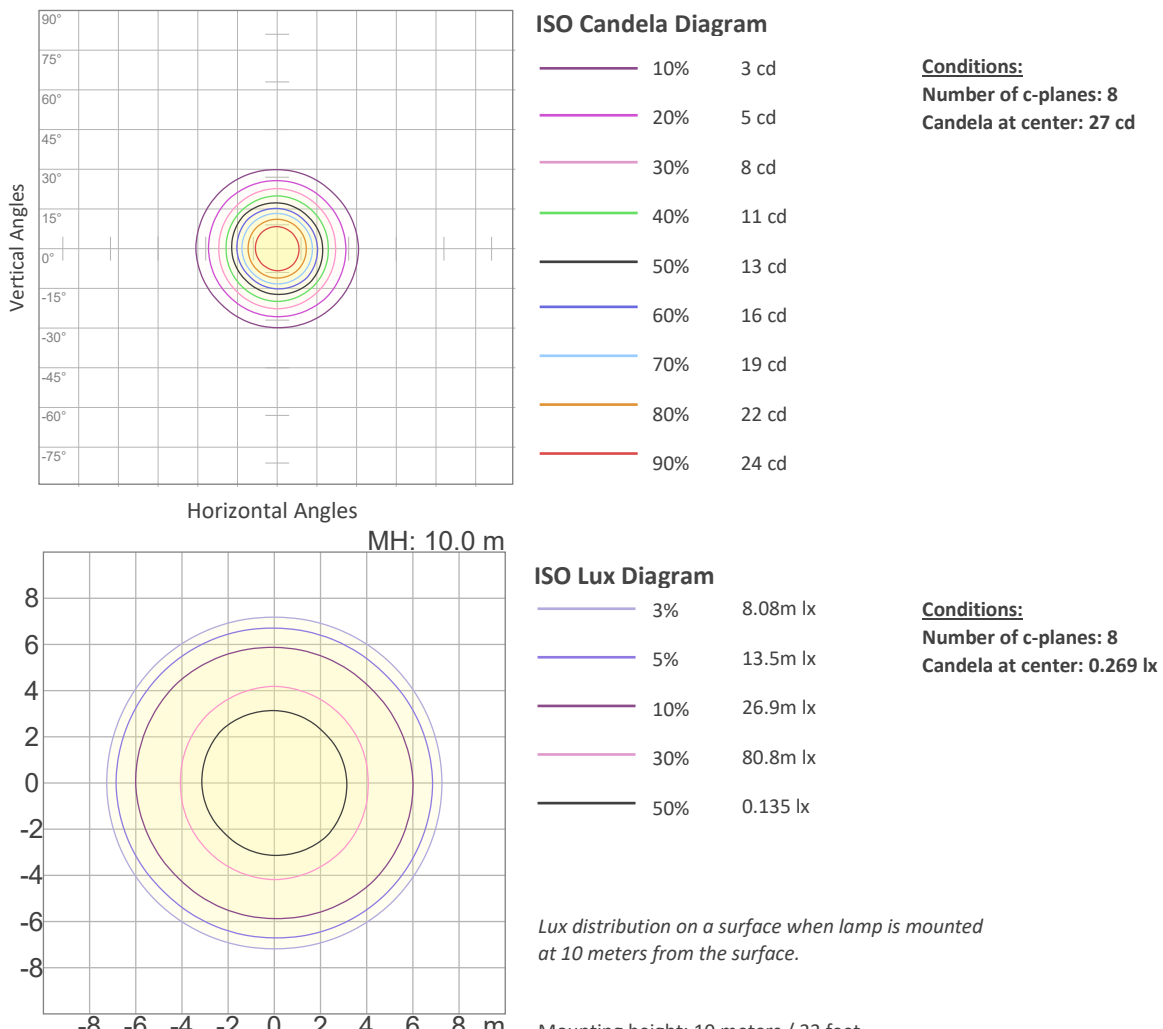
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - Blue Only



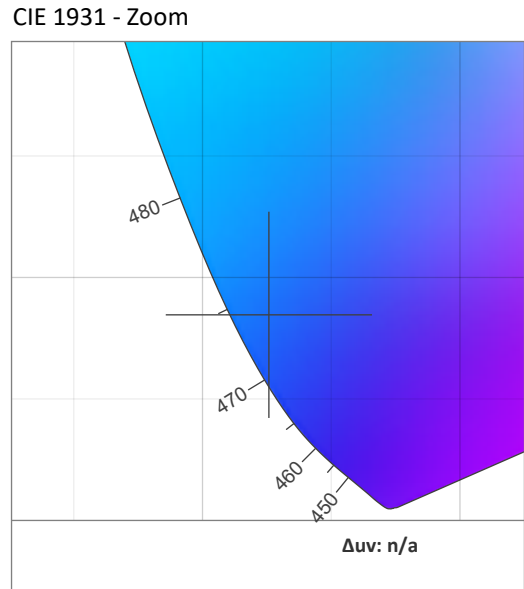
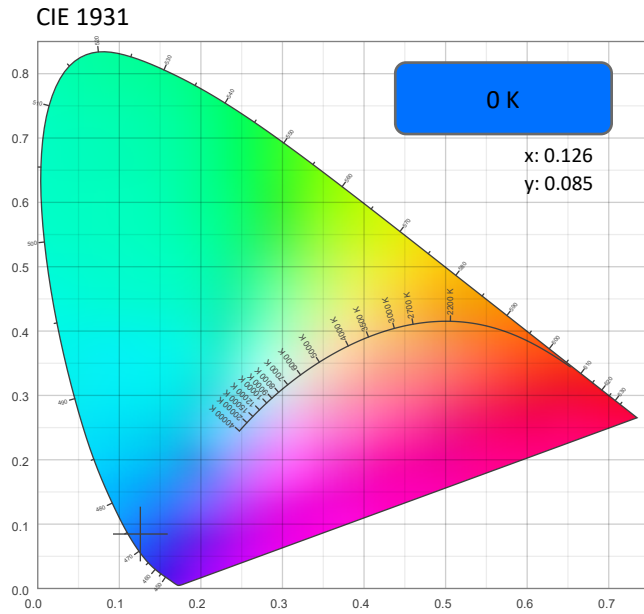
## ISO Diagrams



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - Blue Only

## Chromaticity



### CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	

### CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	

### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.126	0.085

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
n/a	0.085	0.134

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

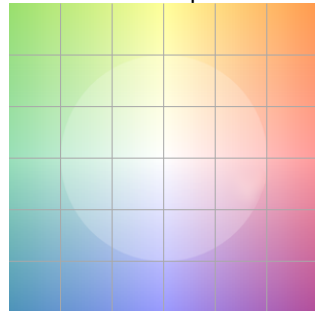
Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - Blue Only

## TM-30 Details

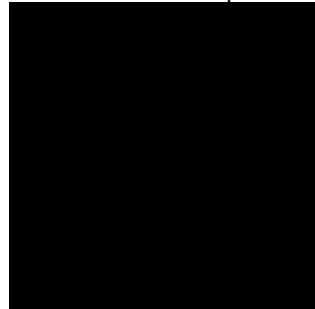
**Rf 0.0**  
Fidelity Index (Rg)

**Rg 0.0**  
Gammut Index (Rg)

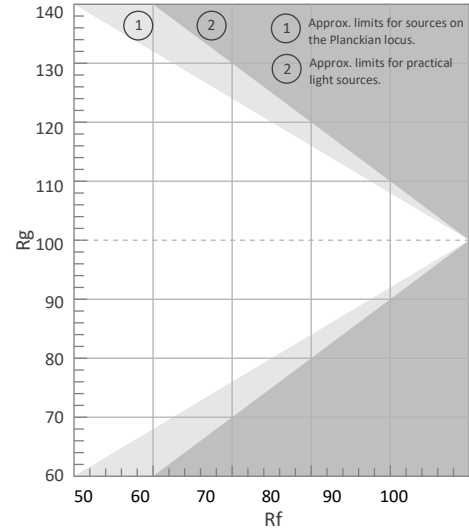
Color Vector Graphic



Color Distortion Graphic



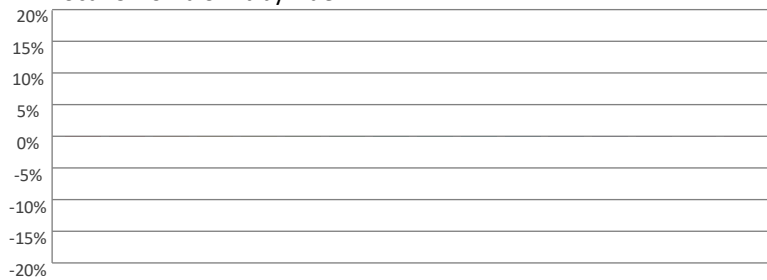
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



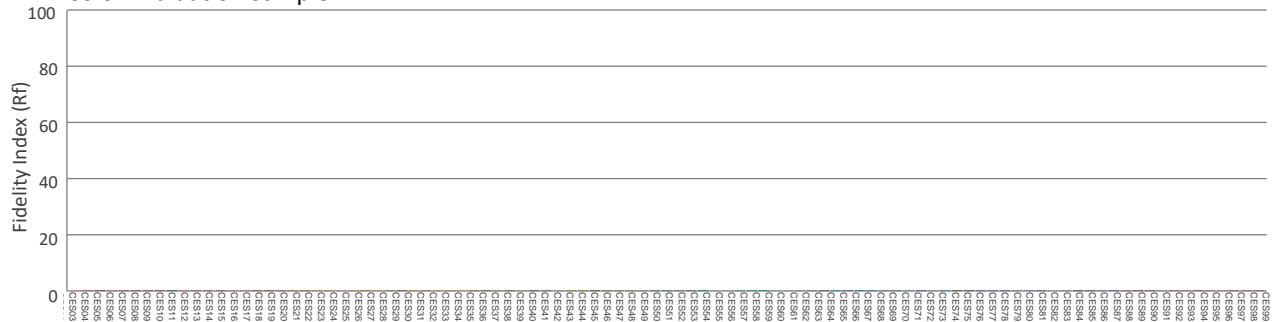
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - Warm White Only

## Report Summary

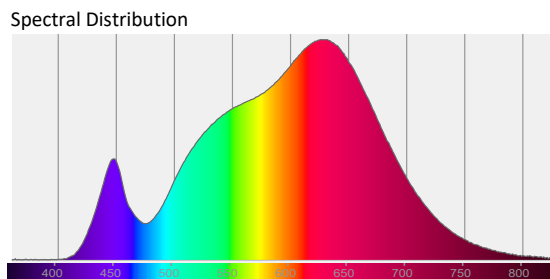
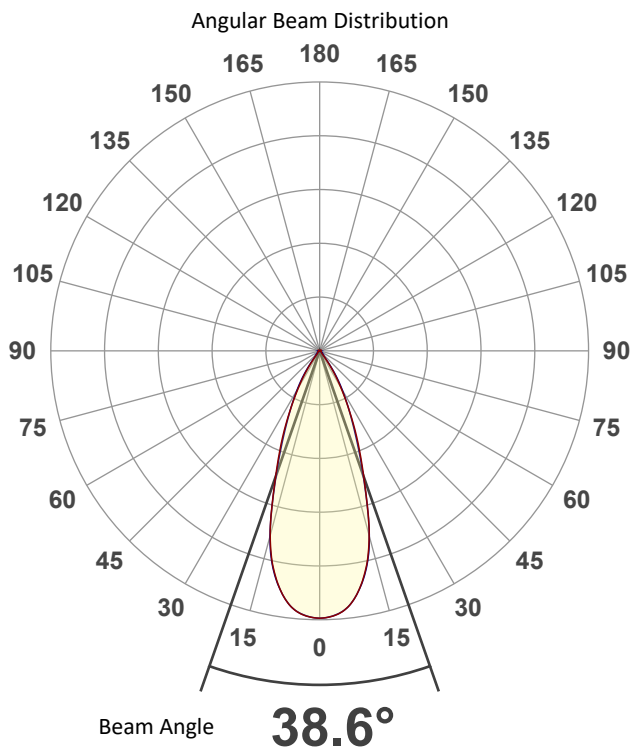
### Measurements

Fixture Output: 36.5 lm  
Fixture Peak: 75.4 cd  
Fixture Efficacy: 3 lm/W  
Intensity @ 5m: 3 lux  
Color Temperature: 3064 K  
CRI: 92.2      CRI R9 Value: 71.3  
CQS: 90.5  
TLCI: 90  
TM-30 Rf: 90.8  
TM-30 Rg: 102.7  
Beam Angle (50%): 38.6°  
Field Angle (10%): 66.8°  
Cutoff Angle (3%): 77.5°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 17.27 W  
Current: 0.144 A  
Power Factor: 0.82



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/2/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.434  
Y: 0.406

Light Quality  
CRI: 92.2

Color Temperature  
3064 K

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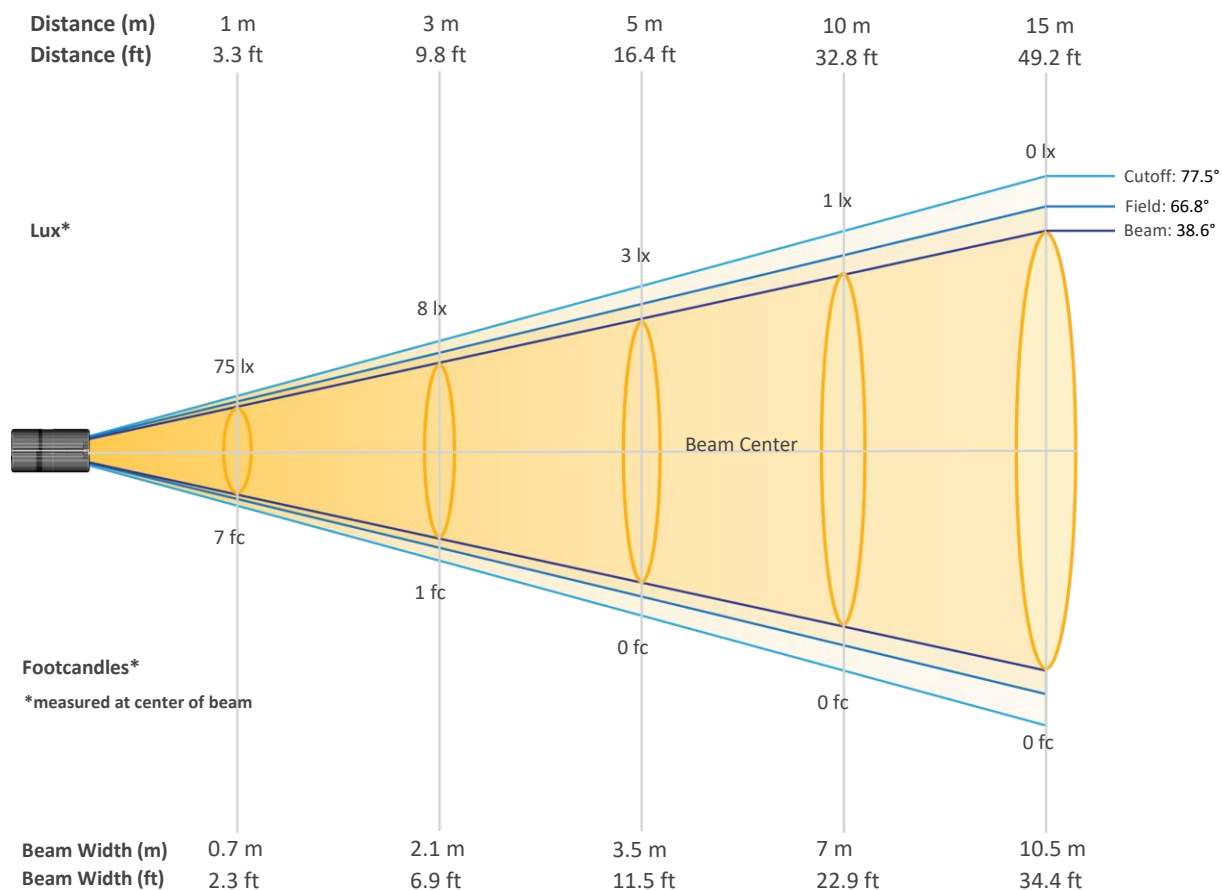
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - Warm White Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	75	19	8	5	3	2	2	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	7	2	1	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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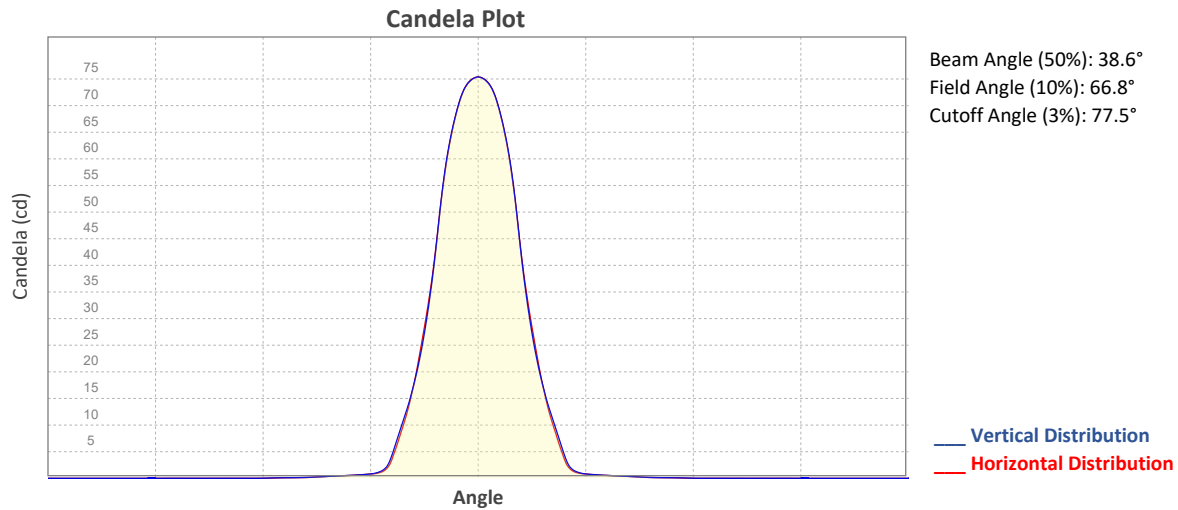
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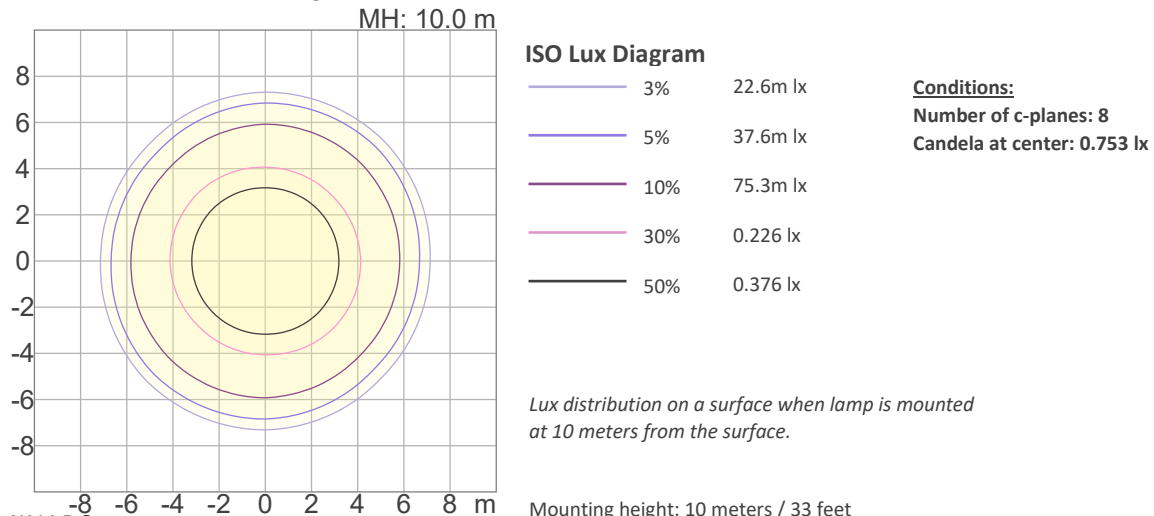
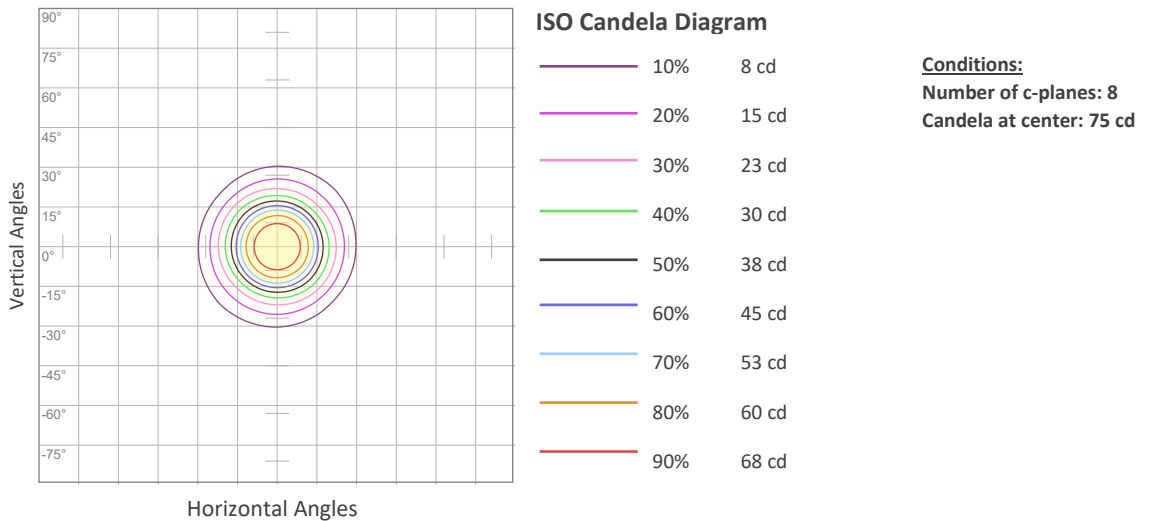
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - Warm White Only



## ISO Diagrams



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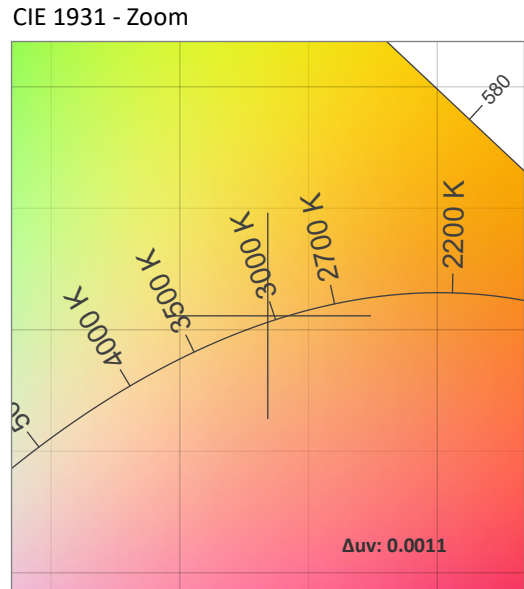
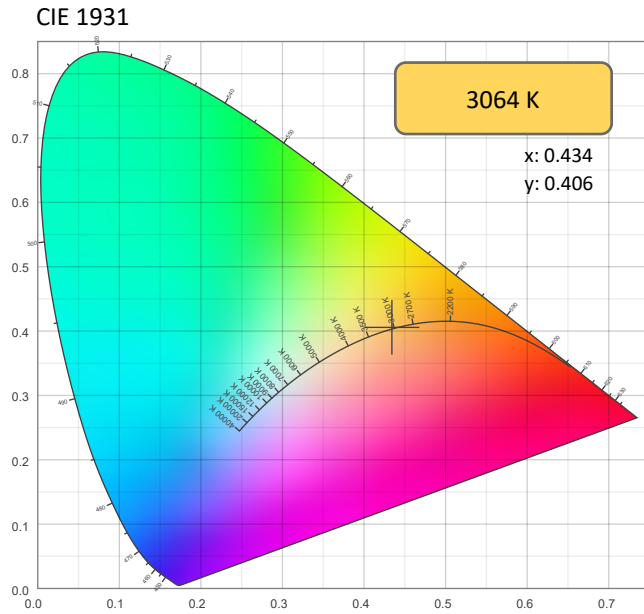
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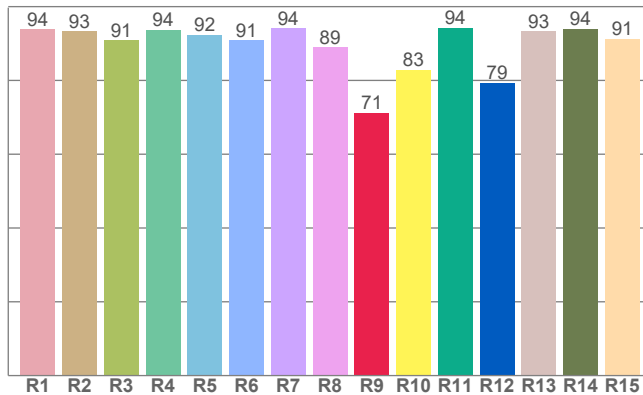
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - Warm White Only

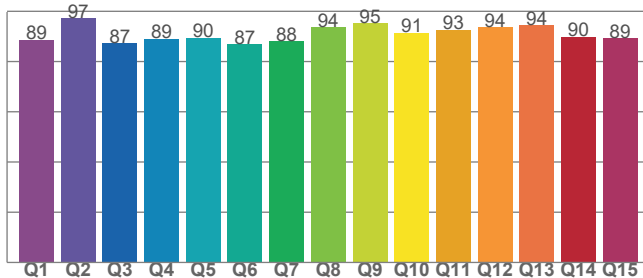
## Chromaticity



CRI: 92.2 (R1-R8)



CQS: 90.5



## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3064 K	0.434	0.406

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0011	0.406	0.248

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
92.2	71.3	90.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
90	90.8	102.7

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# Photometric & Chromaticity Report

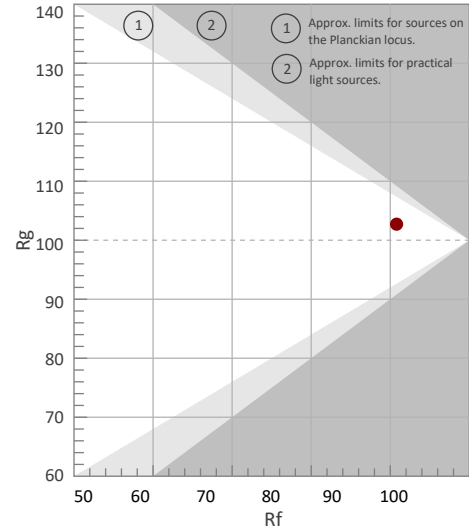
Logic MR16 Downlight S: Medium Filter Lens with Trim Kit - Warm White Only

## TM-30 Details

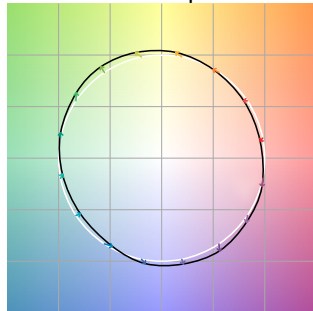
**Rf 90.8**  
Fidelity Index  
(Rg)

**Rg 102.7**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	-3%	-2%
2	93	-3%	2%
3	88	-1%	6%
4	88	3%	7%
5	91	5%	5%
6	90	6%	0%
7	88	4%	-7%
8	93	1%	-5%
9	93	-3%	-3%
10	91	-4%	1%
11	88	-2%	8%
12	91	3%	4%
13	93	5%	1%
14	91	6%	-3%
15	90	3%	-6%
16	90	1%	-8%



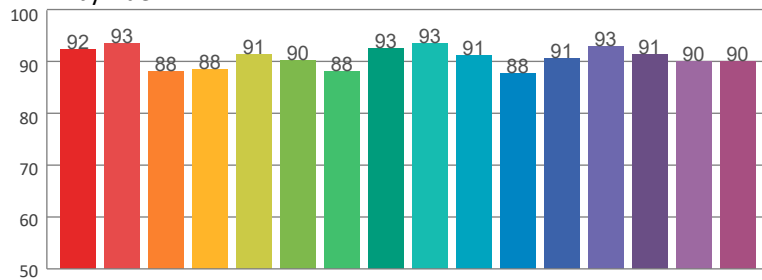
Color Vector Graphic



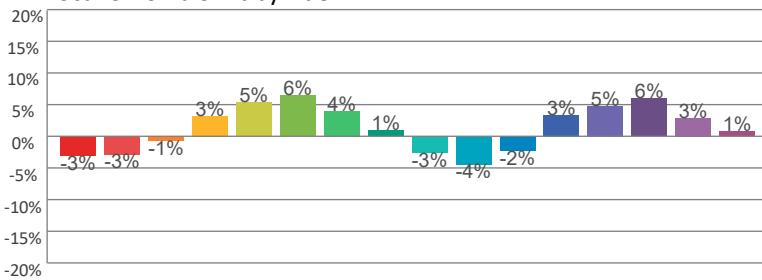
Color Distortion Graphic



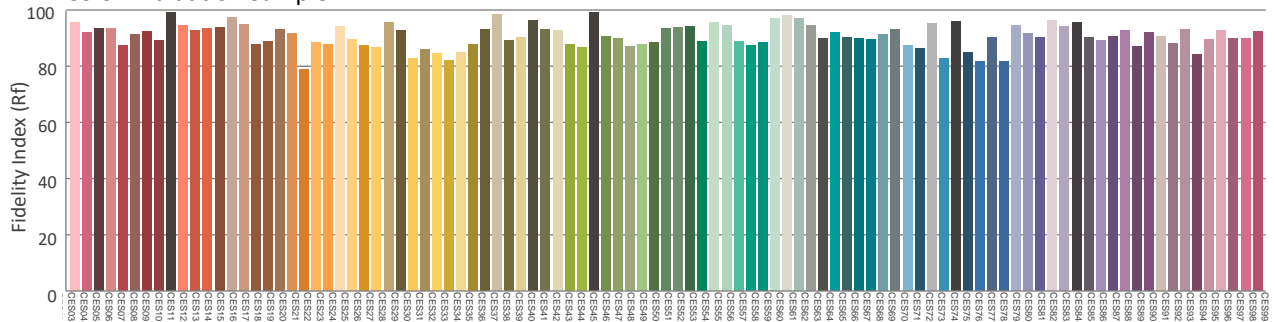
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens - RGBW - Full Power

## Report Summary

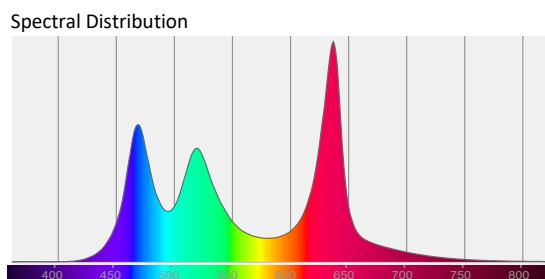
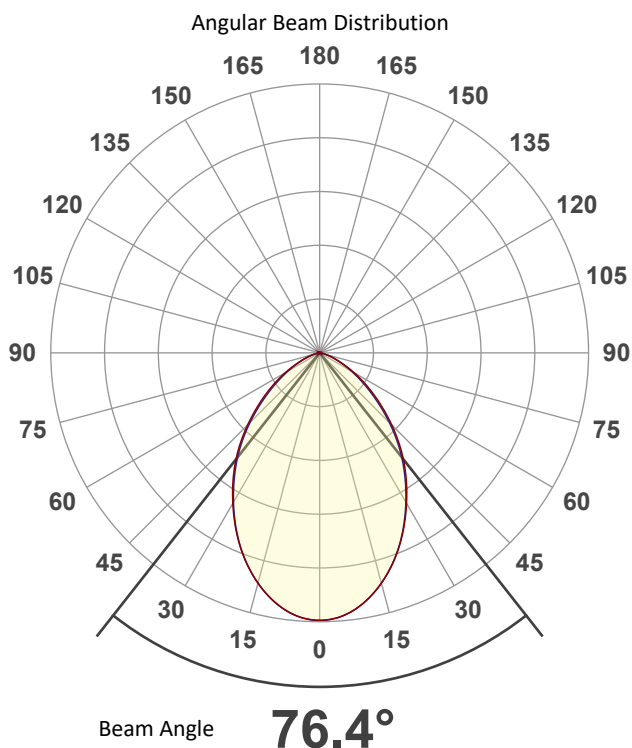
### Measurements

Fixture Output: 251 lm  
Fixture Peak: 154 cd  
Fixture Efficacy: 12 lm/W  
Intensity @ 5m: 6 lux  
Color Temperature: 5527 K  
CRI: 47.0      CRI R9 Value: -147.3  
CQS: 62.3  
TLCI: 27  
TM-30 Rf: 61.8  
TM-30 Rg: 104.9  
Beam Angle (50%): 76.4°  
Field Angle (10%): 127.7°  
Cutoff Angle (3%): 149.8°  
Conditions  
AC Supply: 121 V, 60 Hz  
Power: 23.05 W  
Current: 0.191 A  
Power Factor: 0.89



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):

X: 0.332

Y: 0.343



Light Quality

CRI: 47.0

Color Temperature

5527 K

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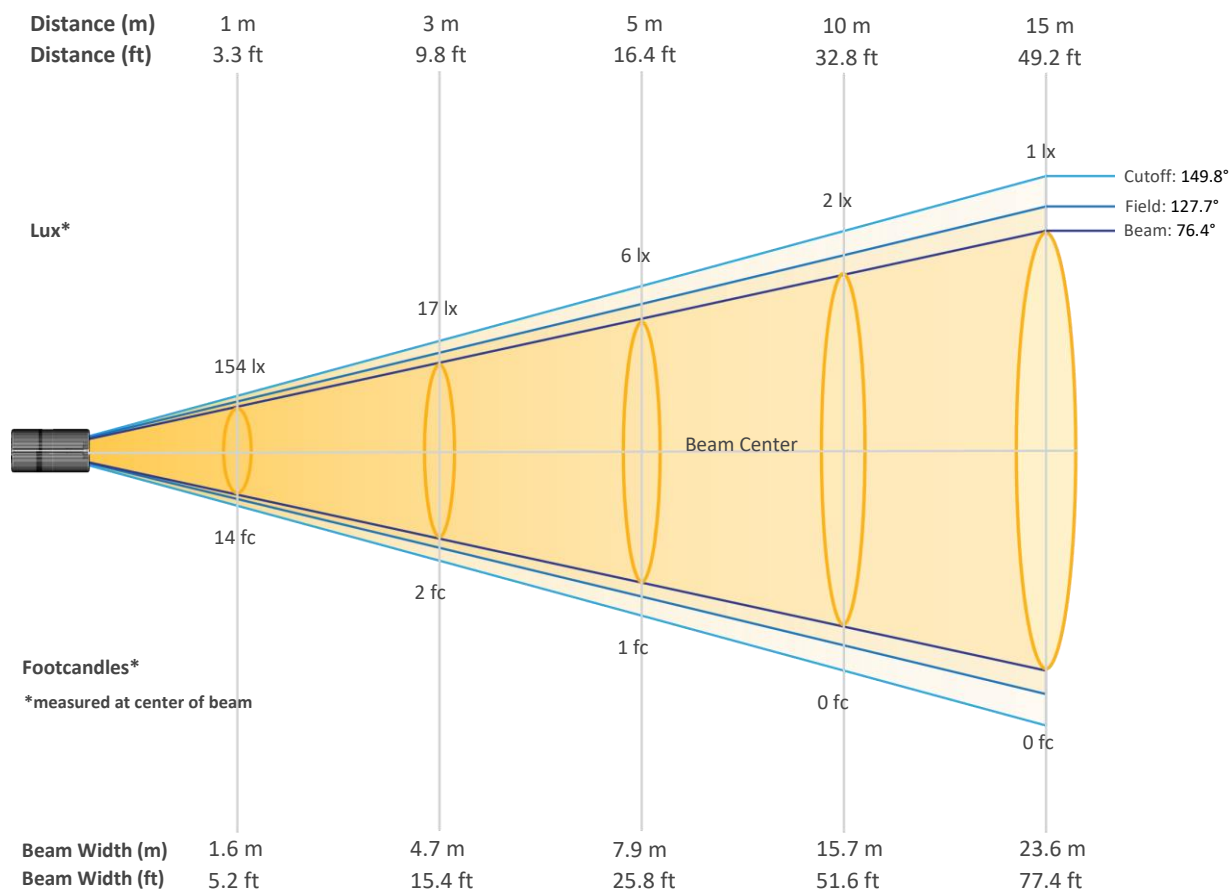
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens - RGBW - Full Power

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	154	38	17	10	6	4	3	2	2	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	1	1	1	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	14	4	2	1	1	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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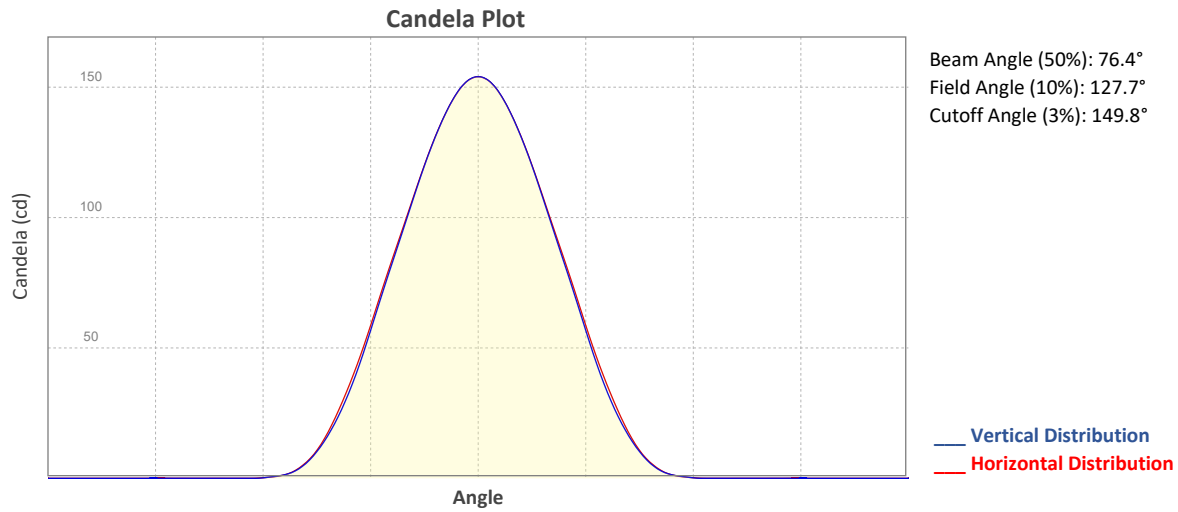
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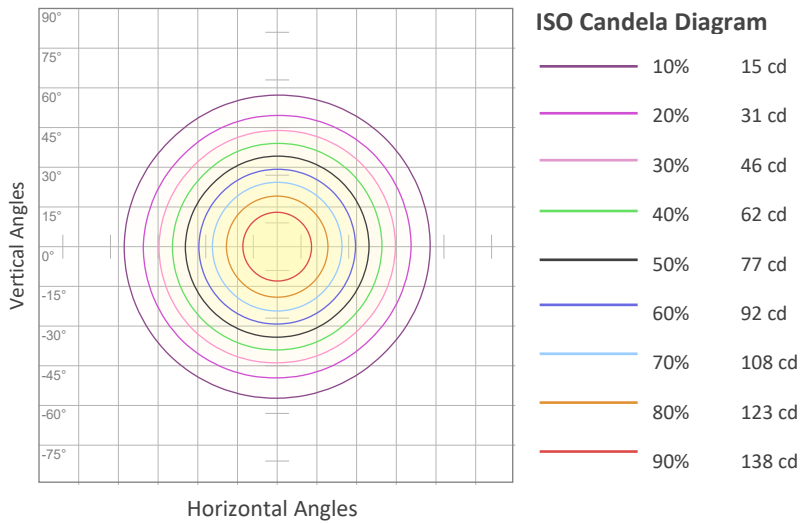
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# Photometric & Chromaticity Report

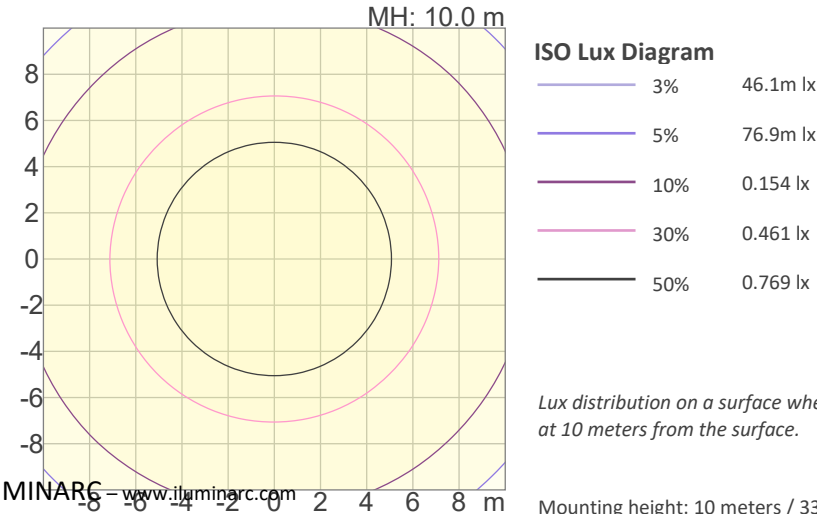
Logic MR16 Downlight S: Wide Filter Lens - RGBW - Full Power



## ISO Diagrams



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 154 cd



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 1.54 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

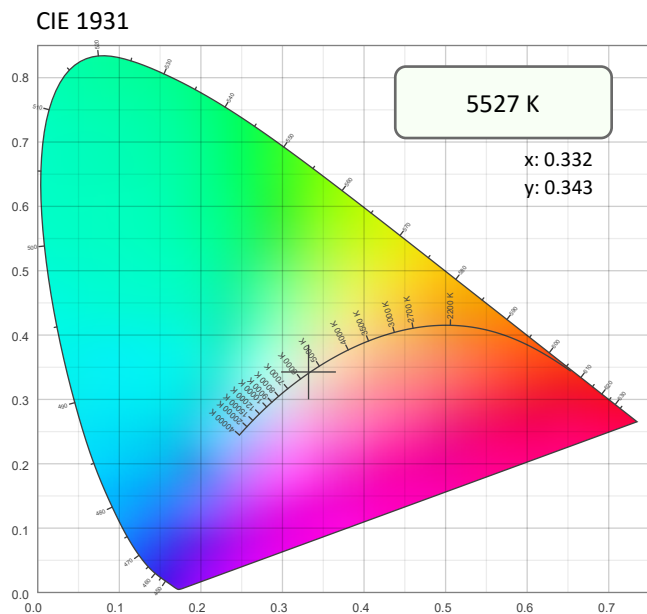
Mounting height: 10 meters / 33 feet

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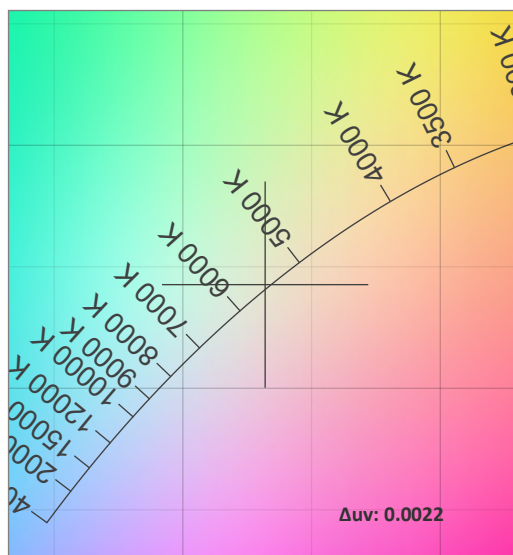
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens - RGBW - Full Power

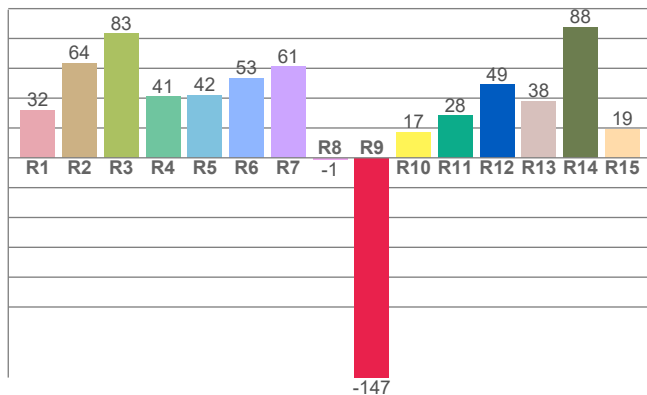
## Chromaticity



CIE 1931 - Zoom



CRI: 47.0 (R1-R8)

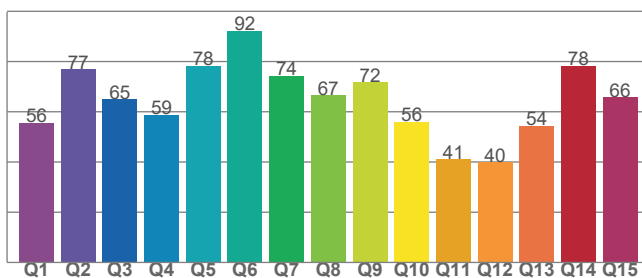


## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5527 K	0.332	0.343

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
0.0022	0.343	0.206

CQS: 62.3



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
47.0	-147.3	62.3

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
27	61.8	104.9

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# Photometric & Chromaticity Report

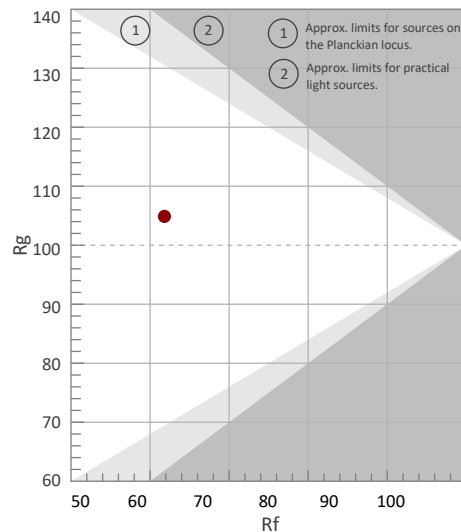
Logic MR16 Downlight S: Wide Filter Lens - RGBW - Full Power

## TM-30 Details

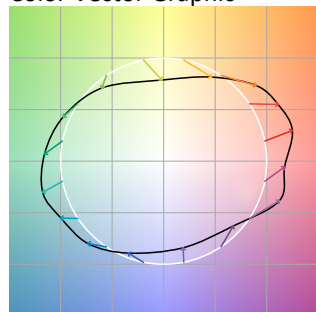
**Rf 61.8**  
Fidelity Index (Rg)

**Rg 104.9**  
Gammut Index (Rg)

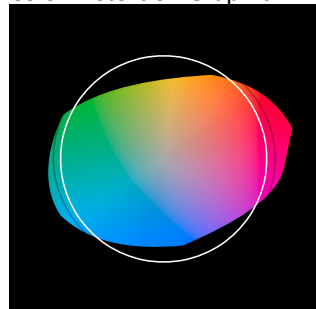
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	46	28%	5%
2	57	23%	-16%
3	40	11%	-34%
4	51	-11%	-30%
5	62	-23%	-14%
6	79	-8%	11%
7	69	5%	19%
8	64	15%	16%
9	73	21%	7%
10	69	13%	-9%
11	67	7%	-17%
12	73	-6%	-16%
13	75	-14%	2%
14	61	-10%	21%
15	56	15%	31%
16	60	16%	17%



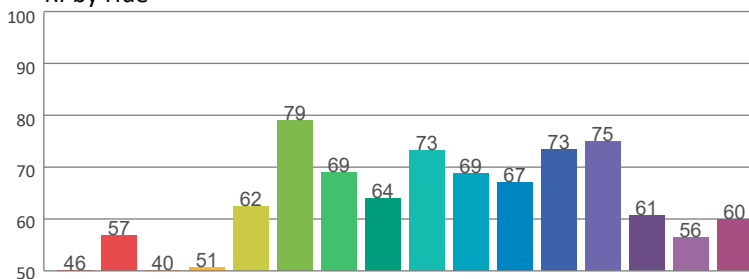
Color Vector Graphic



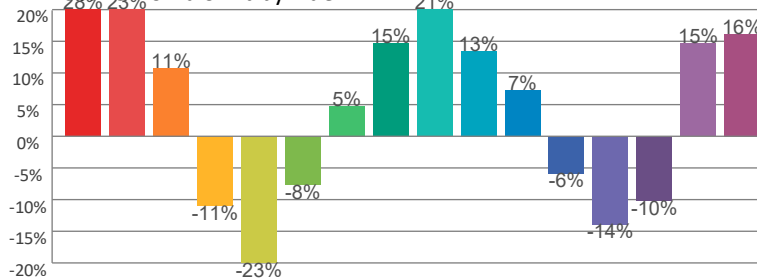
Color Distortion Graphic



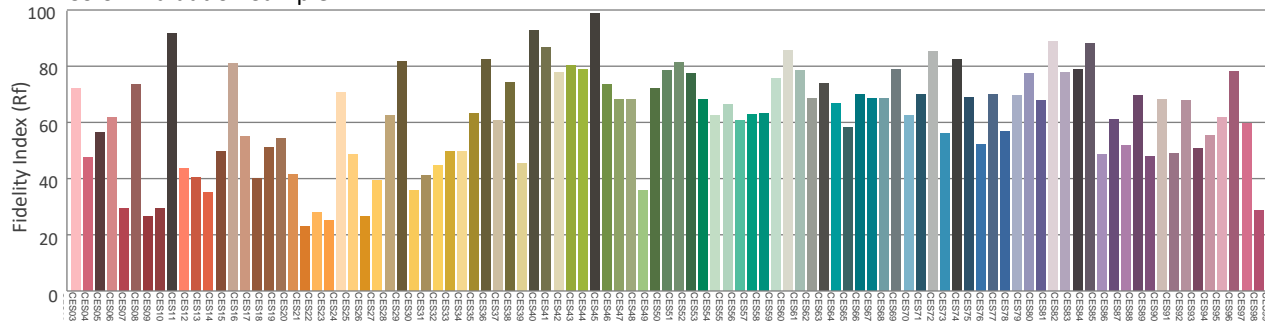
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens Optics - Red Only

## Report Summary

### Measurements

Fixture Output: 63.7 lm

Fixture Peak: 40.8 cd

Fixture Efficacy: 5 lm/W

Intensity @ 5m: 2 lux

Color Temperature: 0 K

CRI: 0.0      CRI R9 Value: 0.0

CQS: 0.0

TLCl: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 73.9°

Field Angle (10%): 125.9°

Cutoff Angle (3%): 147.5°

### Conditions

AC Supply: 120 V, 60 Hz

Power: 17.0 W

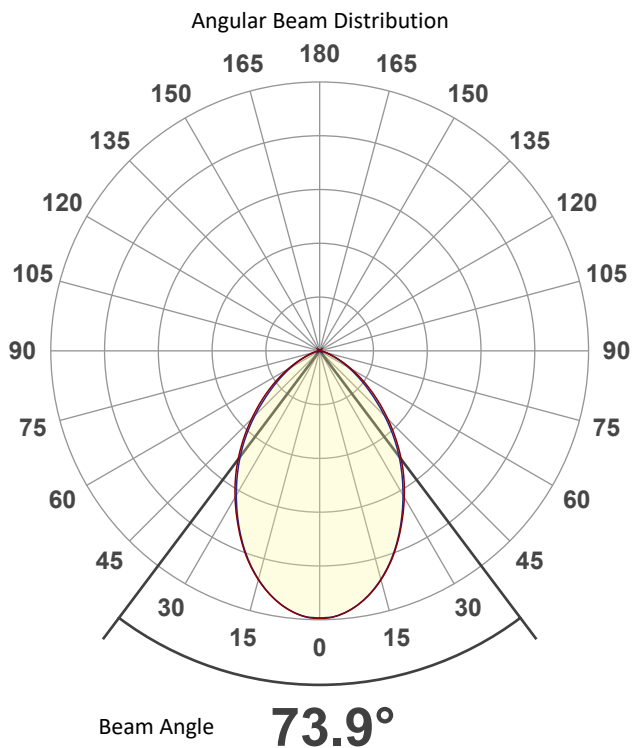
Current: 0.141 A

Power Factor: 0.81

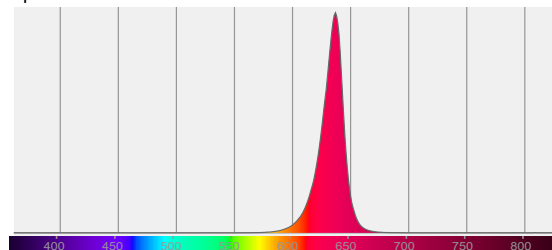


This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

## Overall Measurement



### Spectral Distribution



Tested Color (CIE 1931):

X: 0.700

Y: 0.300



Light Quality

CRI: 0.0

Color Temperature

0 K

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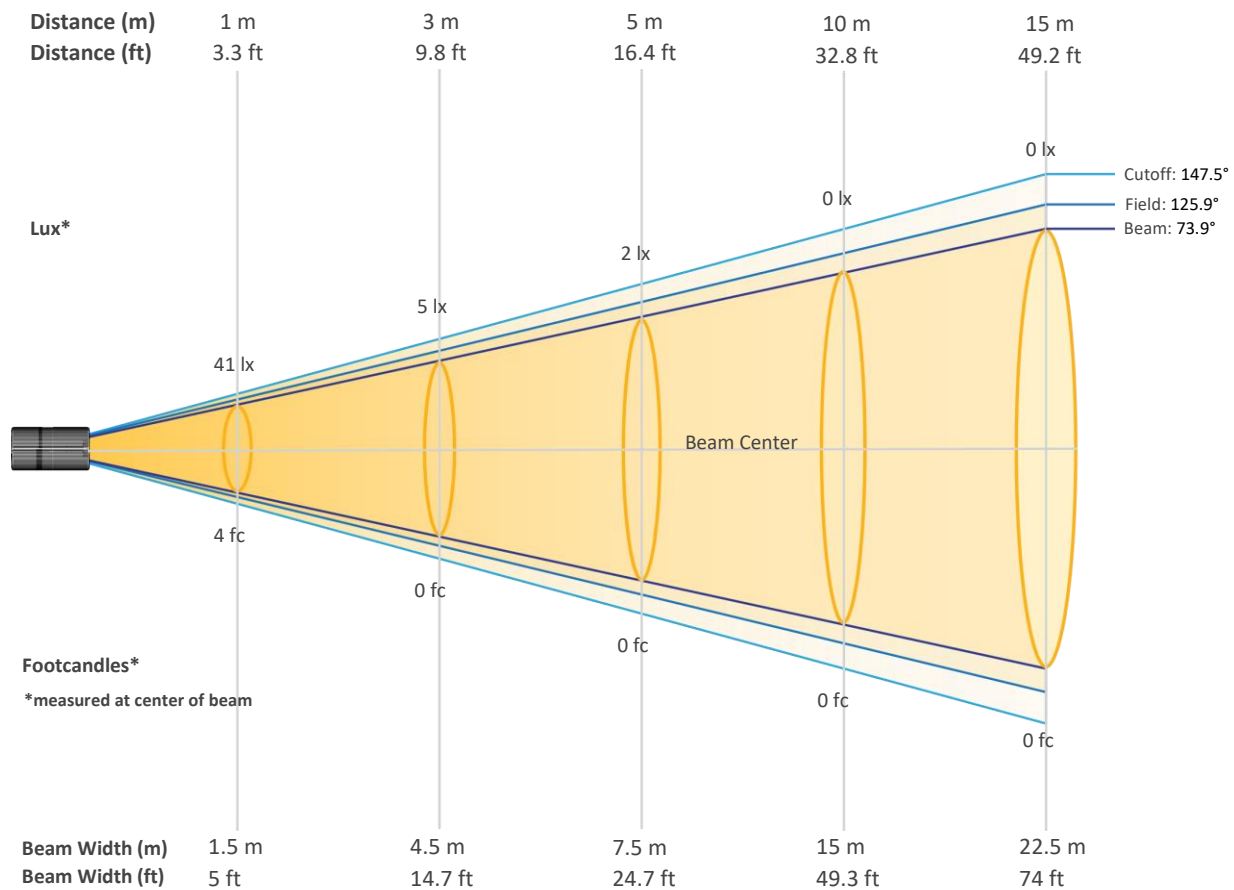
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens Optics - Red Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	41	10	5	3	2	1	1	1	1	0
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	0	0	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	4	1	0	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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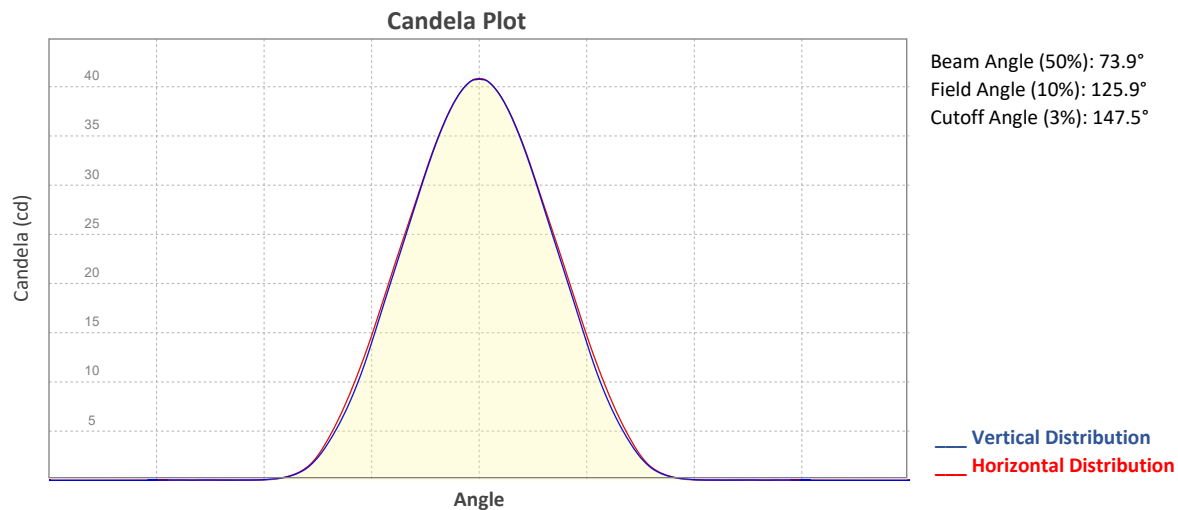
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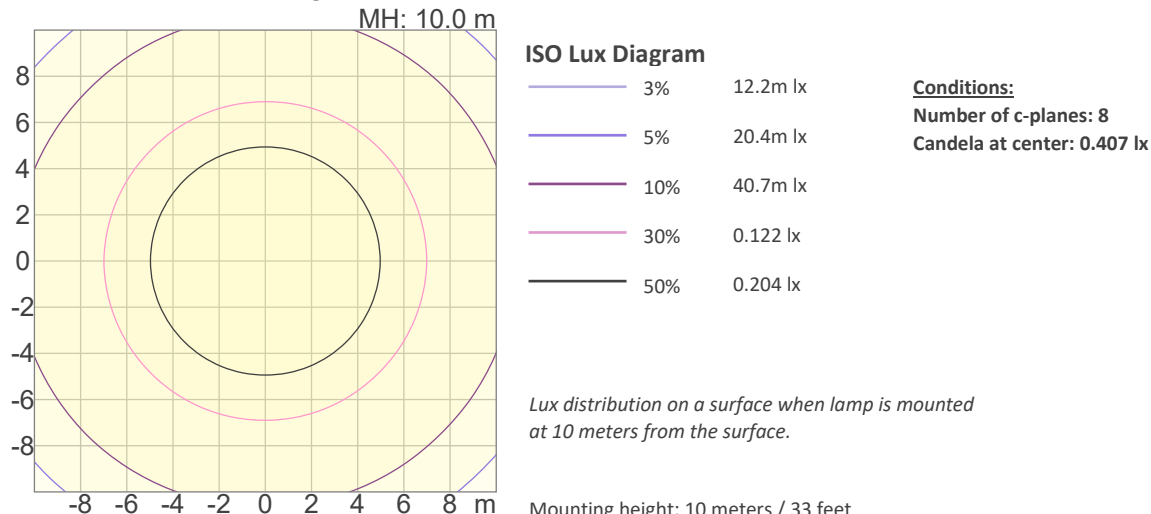
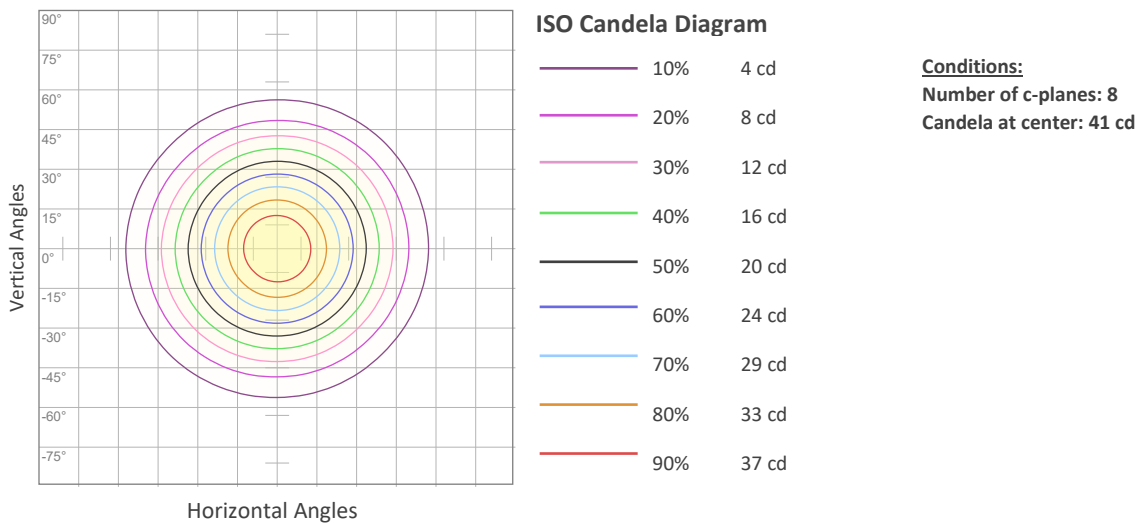
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens Optics - Red Only



## ISO Diagrams



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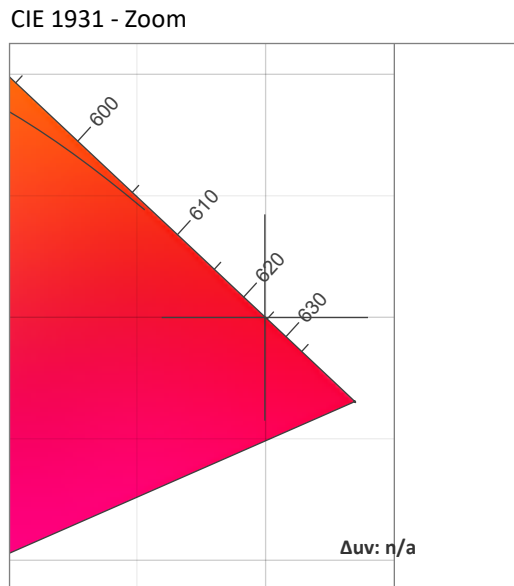
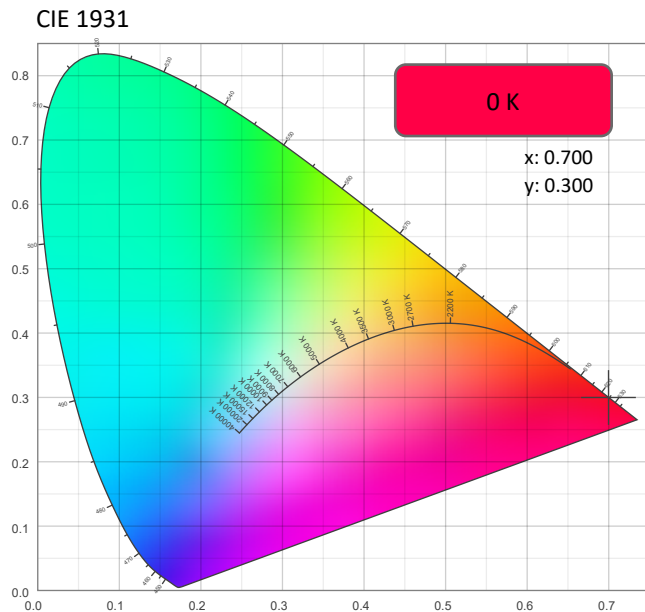
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens Optics - Red Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.700	0.300

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.300	0.538

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

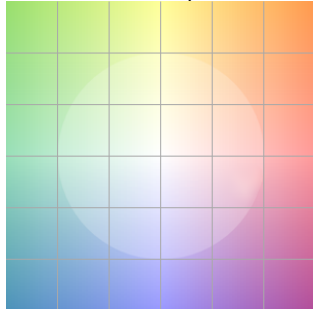
Logic MR16 Downlight S: Wide Filter Lens Optics - Red Only

## TM-30 Details

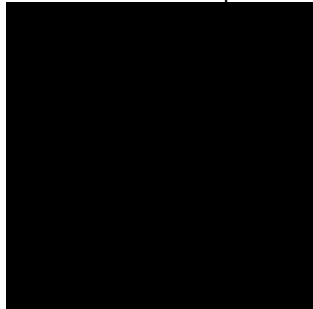
**Rf 0.0**  
Fidelity Index  
(Rg)

**Rg 0.0**  
Gammut Index (Rg)

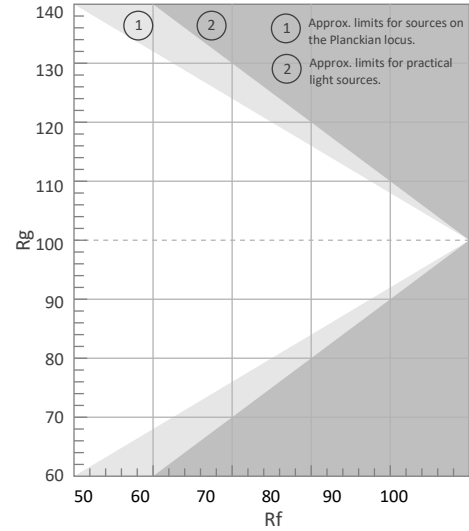
Color Vector Graphic



Color Distortion Graphic



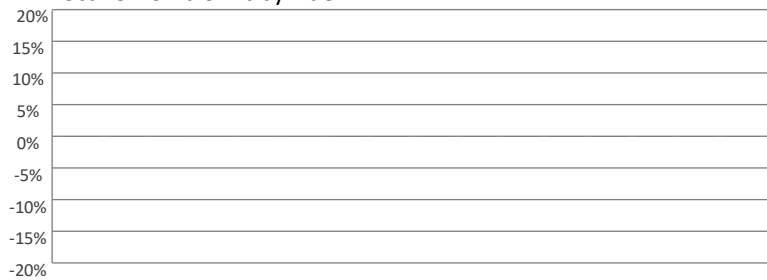
		Graphic shifts (%)	
Hue Bin	R <sub>f</sub>	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



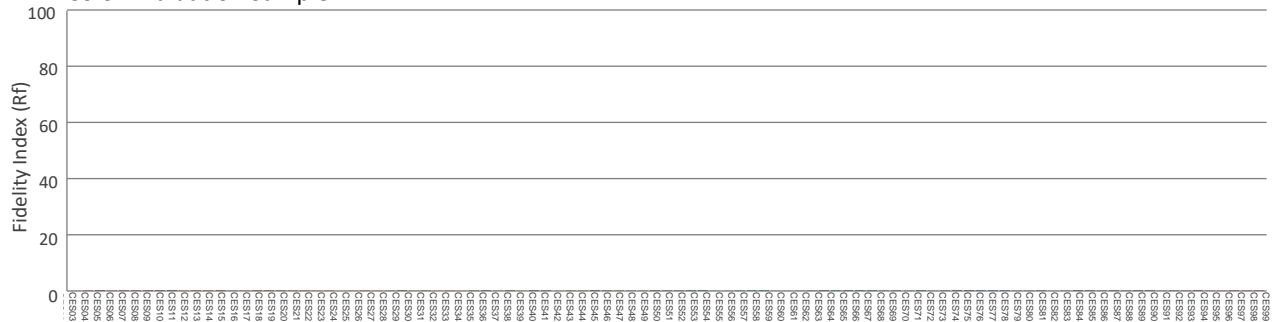
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens Optics - Green Only

## Report Summary

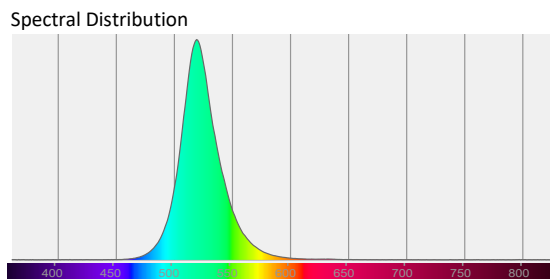
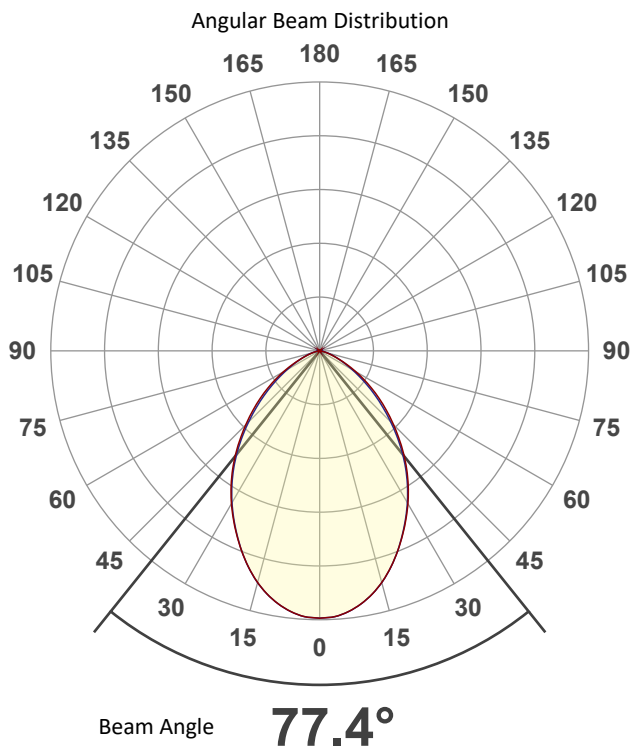
### Measurements

Fixture Output: 119 lm  
Fixture Peak: 72.0 cd  
Fixture Efficacy: 8 lm/W  
Intensity @ 5m: 3 lux  
Color Temperature: 0 K  
CRI: 0.0      CRI R9 Value: 0.0  
CQS: 0.0  
TLCl: n/a  
TM-30 Rf: 0.0  
TM-30 Rg: 0.0  
Beam Angle (50%): 77.4°  
Field Angle (10%): 128.3°  
Cutoff Angle (3%): 150.9°  
Conditions  
AC Supply: 120 V, 60.1 Hz  
Power: 17.6 W  
Current: 0.147 A  
Power Factor: 0.82



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):

X: 0.161

Y: 0.720



Light Quality

CRI: 0.0

Color Temperature

0 K

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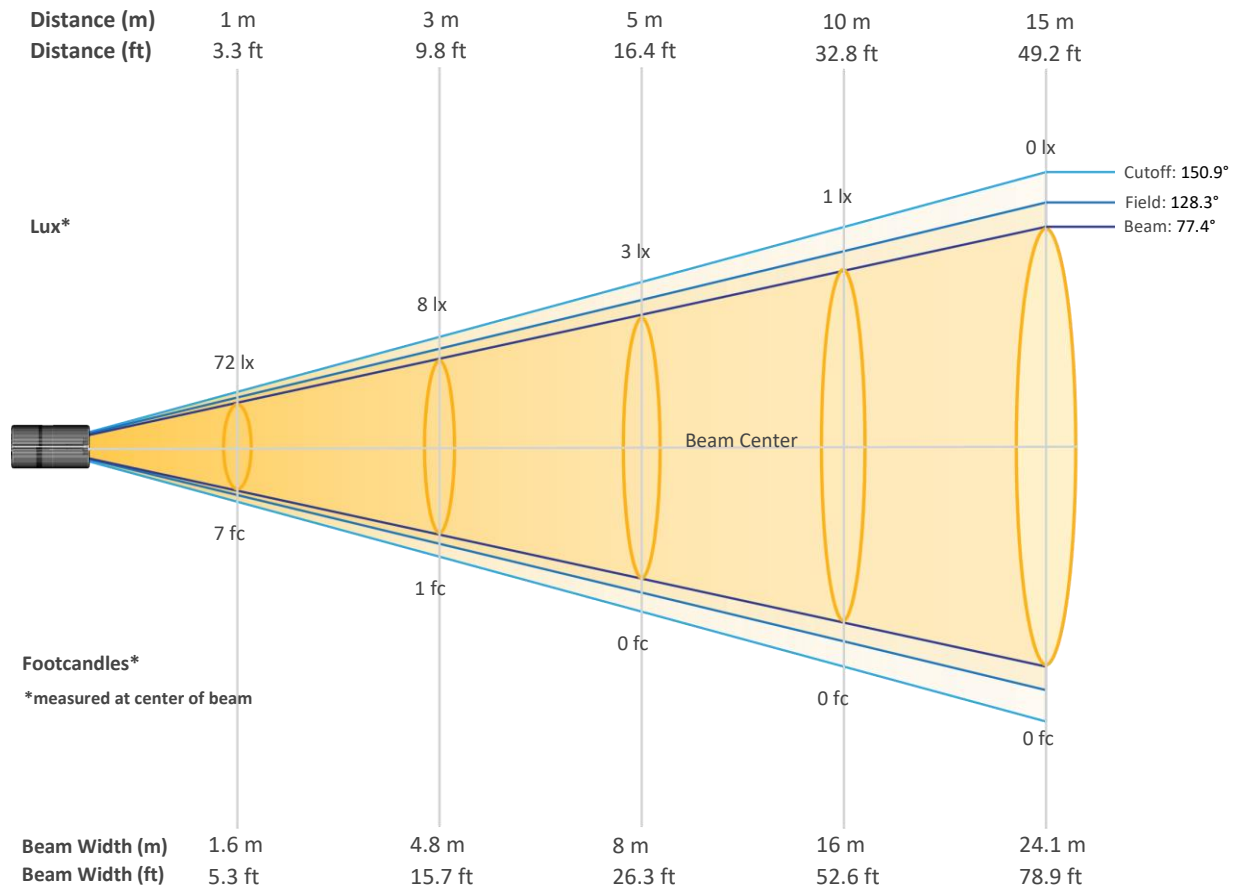
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens Optics - Green Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	72	18	8	4	3	2	1	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	0	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	7	2	1	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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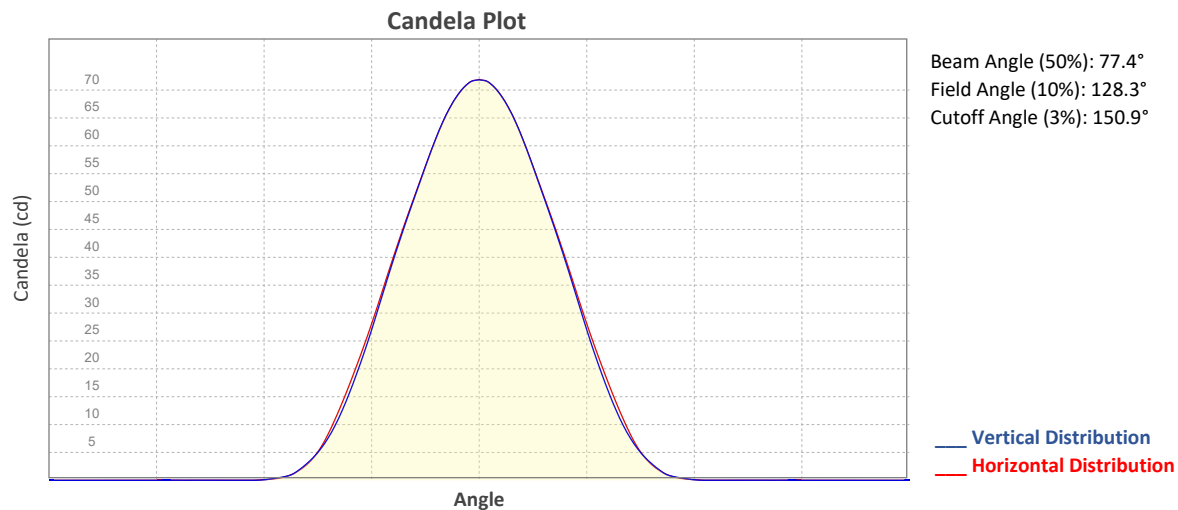
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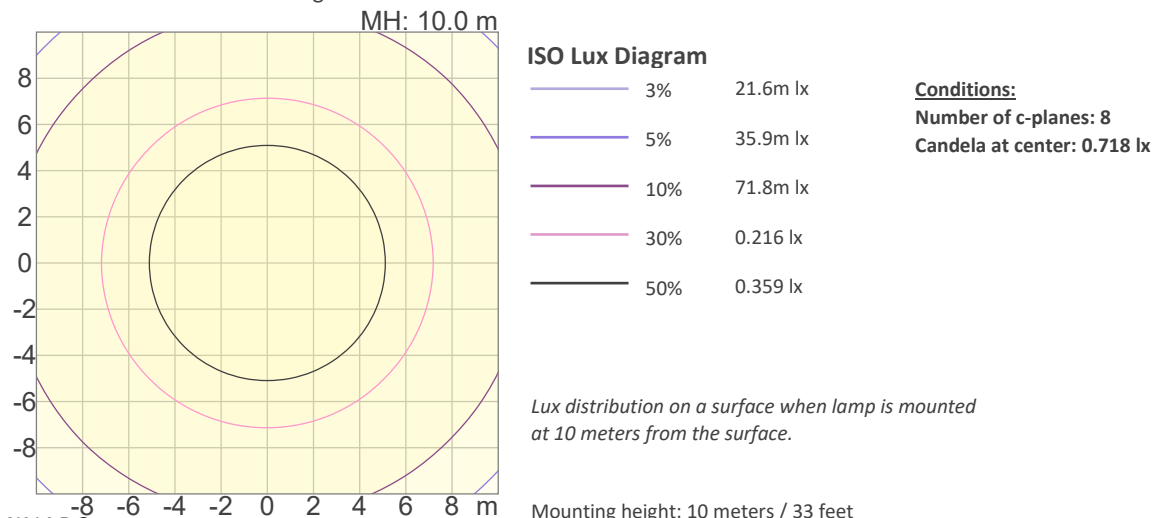
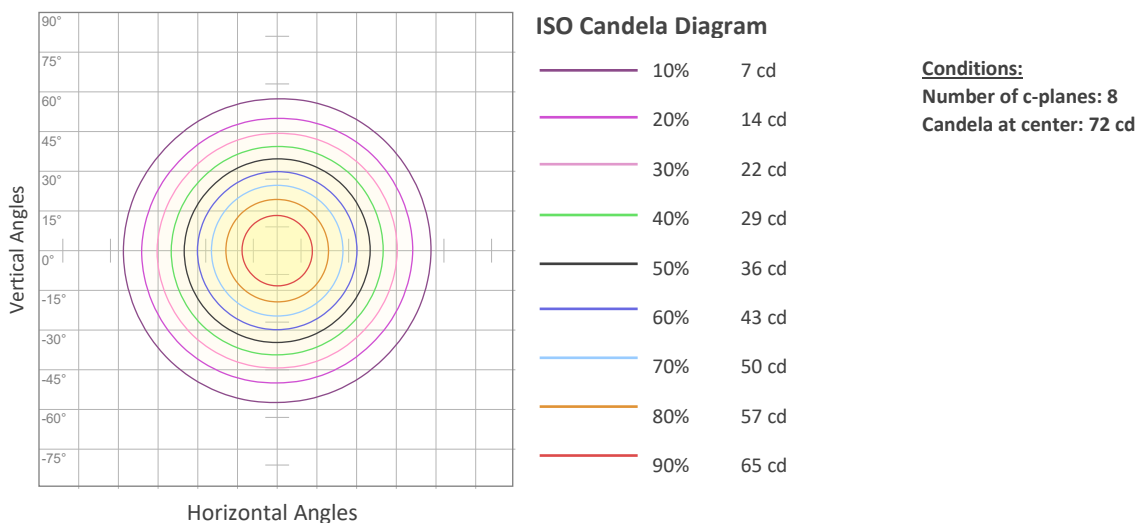
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens Optics - Green Only



## ISO Diagrams



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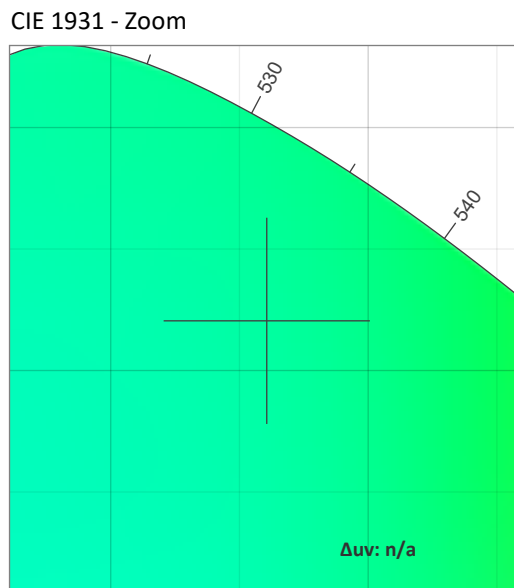
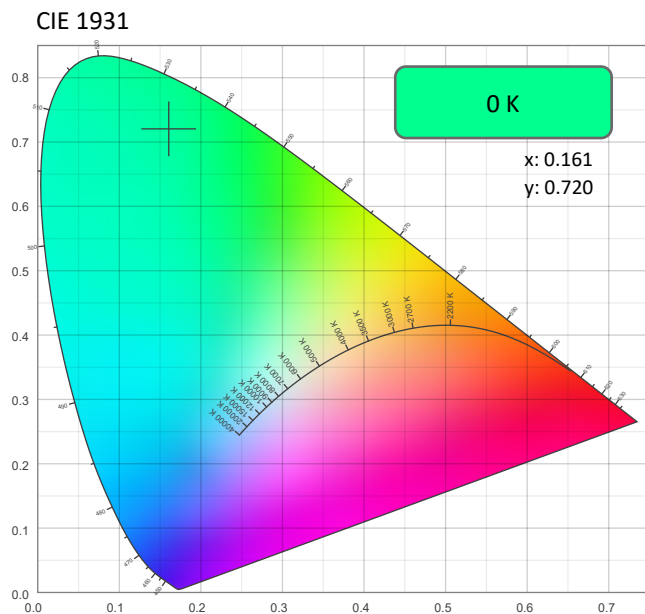
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens Optics - Green Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.161	0.720

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
n/a	0.720	0.057

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

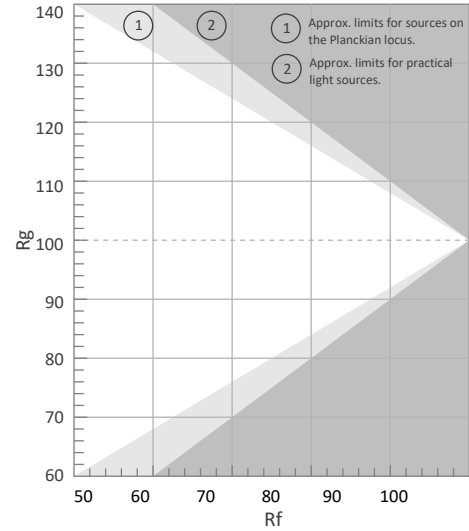
Logic MR16 Downlight S: Wide Filter Lens Optics - Green Only

## TM-30 Details

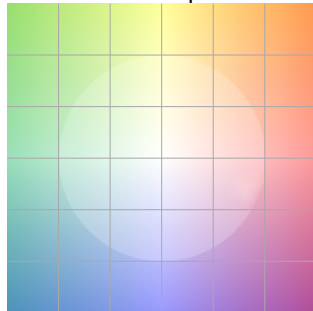
**Rf 0.0**  
Fidelity Index (Rg)

**Rg 0.0**  
Gammut Index (Rg)

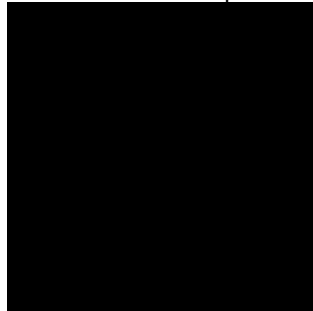
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



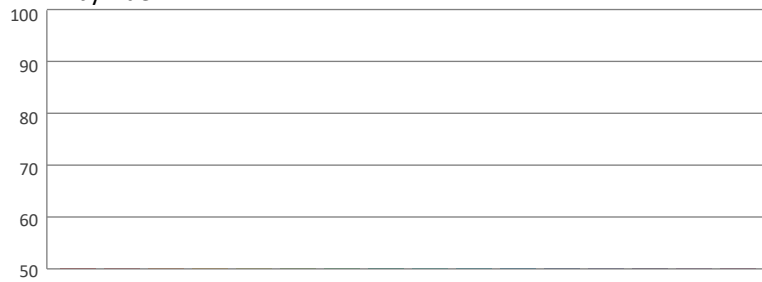
Color Vector Graphic



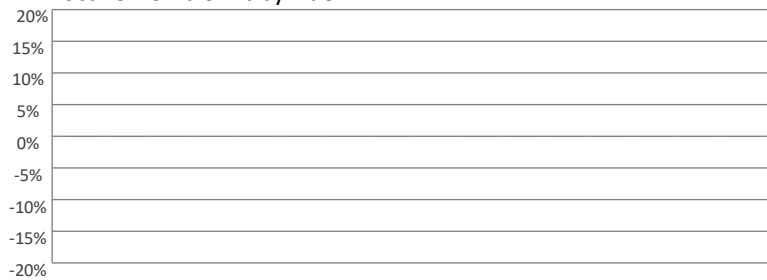
Color Distortion Graphic



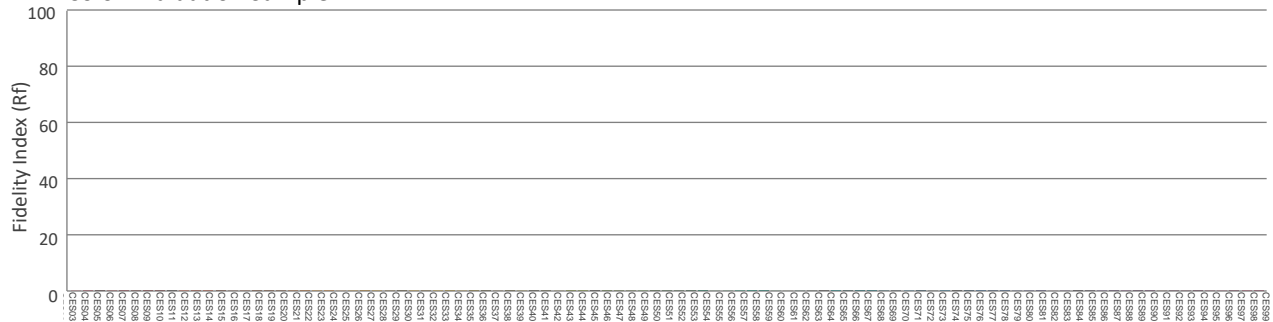
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens Optics - Blue Only

## Report Summary

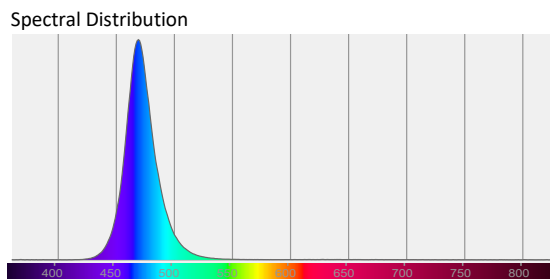
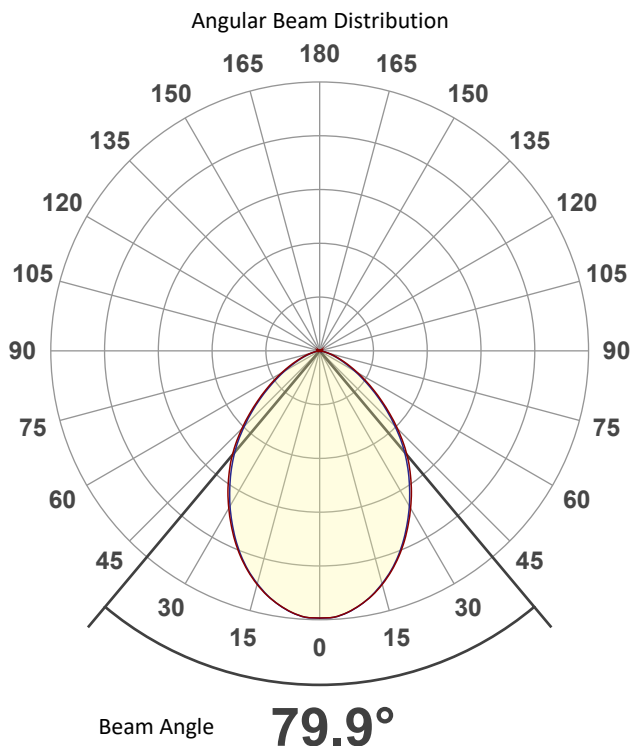
### Measurements

Fixture Output: 36.3 lm  
Fixture Peak: 21.0 cd  
Fixture Efficacy: 3 lm/W  
Intensity @ 5m: 1 lux  
Color Temperature: 0 K  
CRI: 0.0      CRI R9 Value: 0.0  
CQS: 0.0  
TLCl: n/a  
TM-30 Rf: 0.0  
TM-30 Rg: 0.0  
Beam Angle (50%): 79.9°  
Field Angle (10%): 130.4°  
Cutoff Angle (3%): 152.8°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 17.47 W  
Current: 0.145 A  
Power Factor: 0.82



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.126  
Y: 0.085

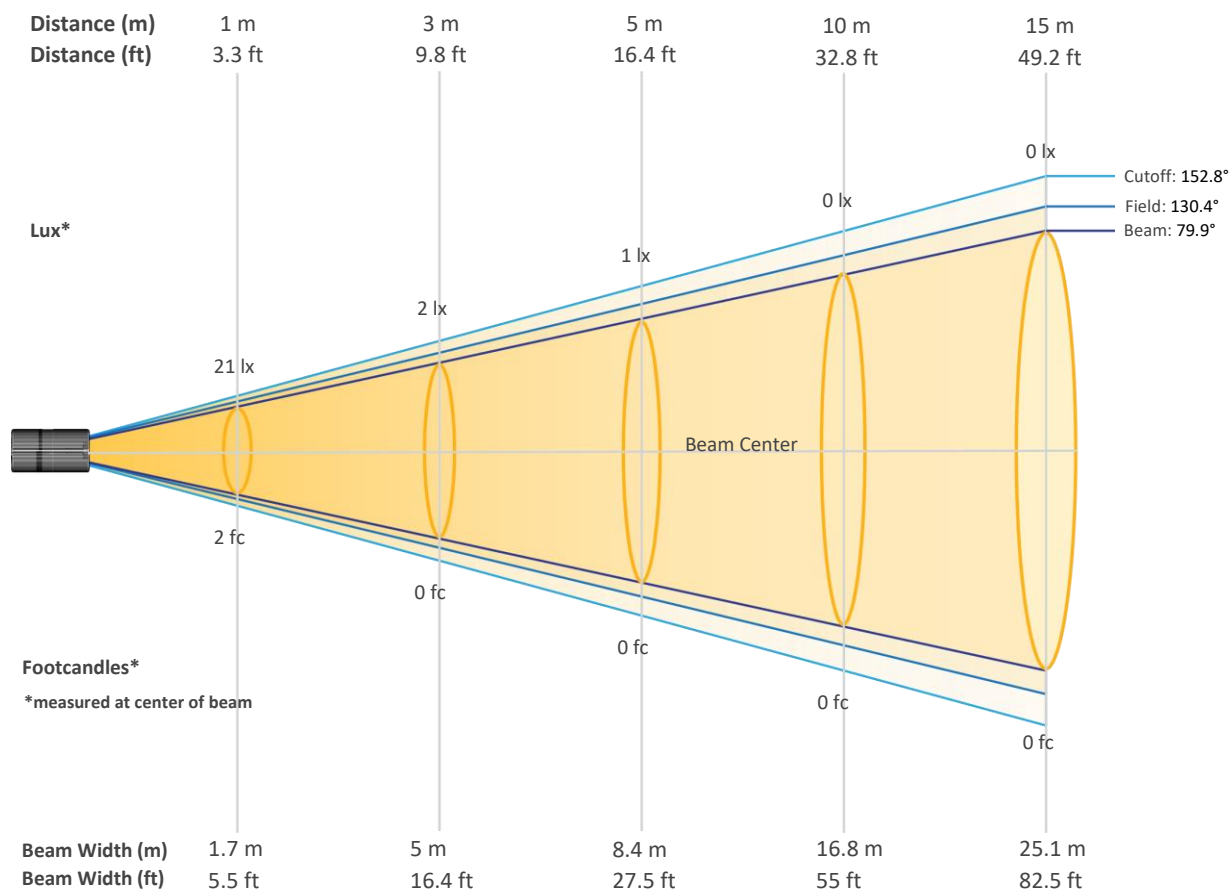
Light Quality  
CRI: 0.0

Color Temperature  
0 K

# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens Optics - Blue Only

## Beam Details



### Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	21	5	2	1	1	1	0	0	0	0
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	0	0	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	2	0	0	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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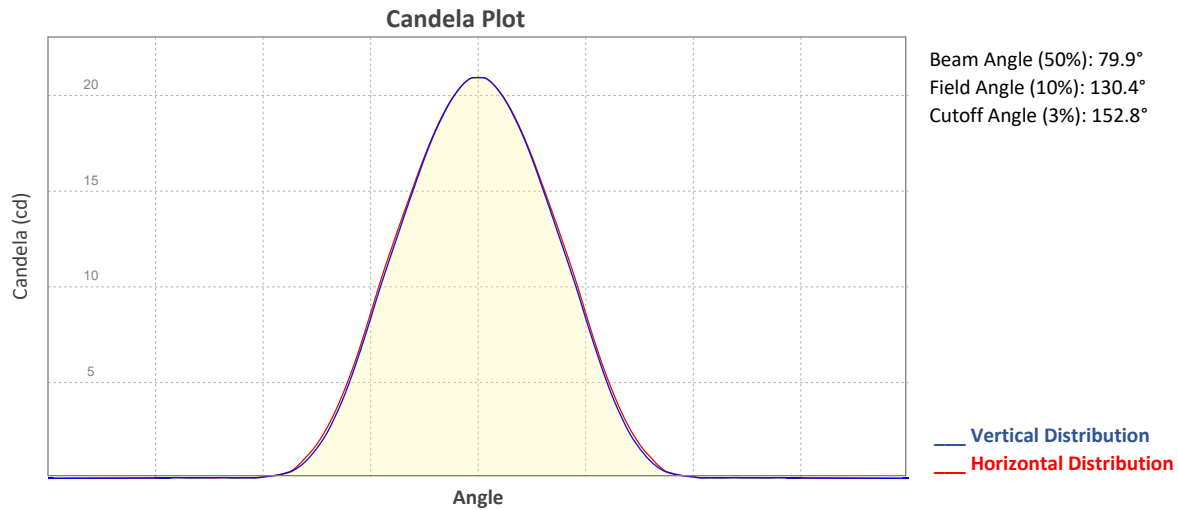
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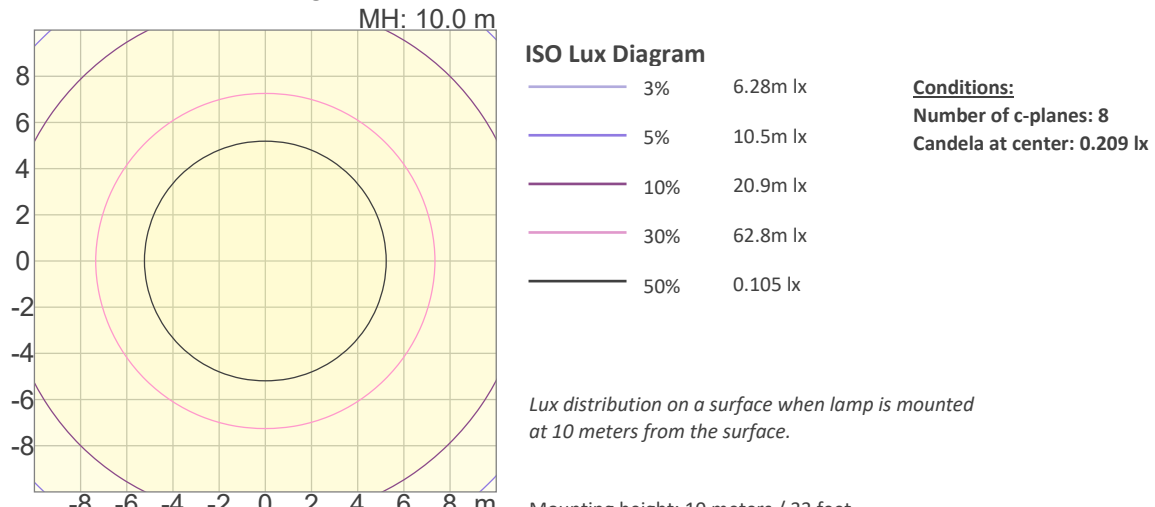
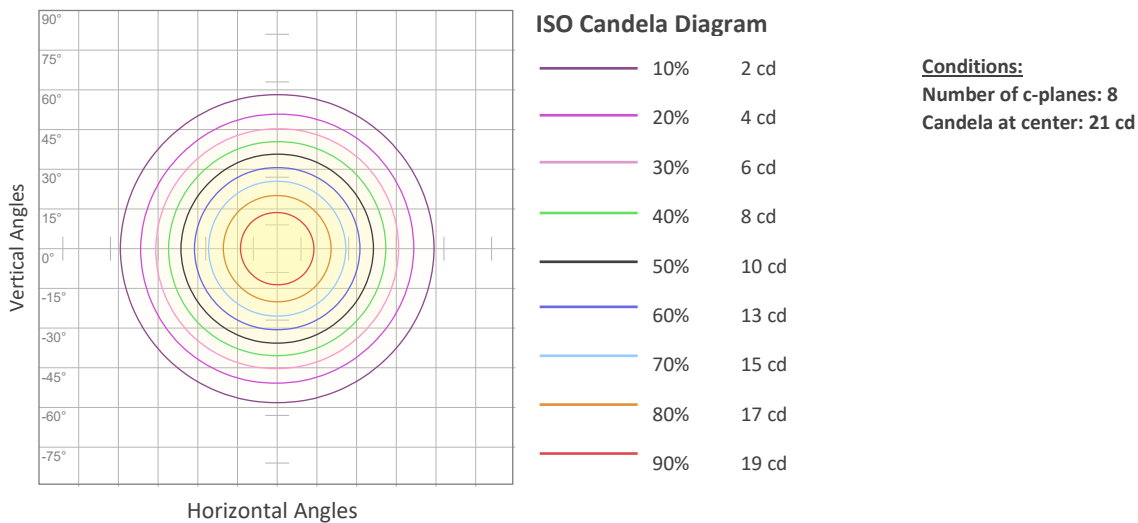
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens Optics - Blue Only



## ISO Diagrams



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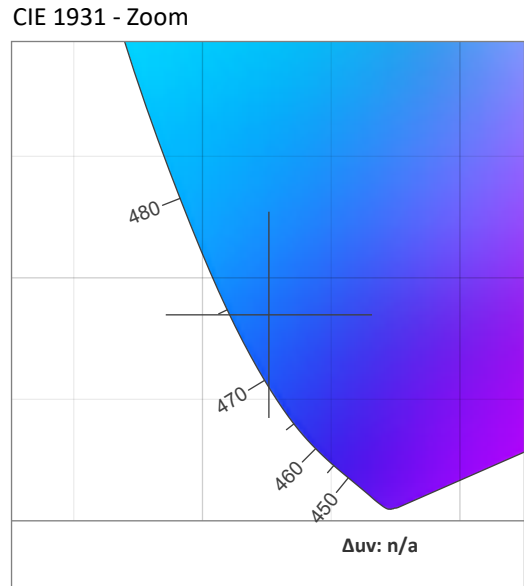
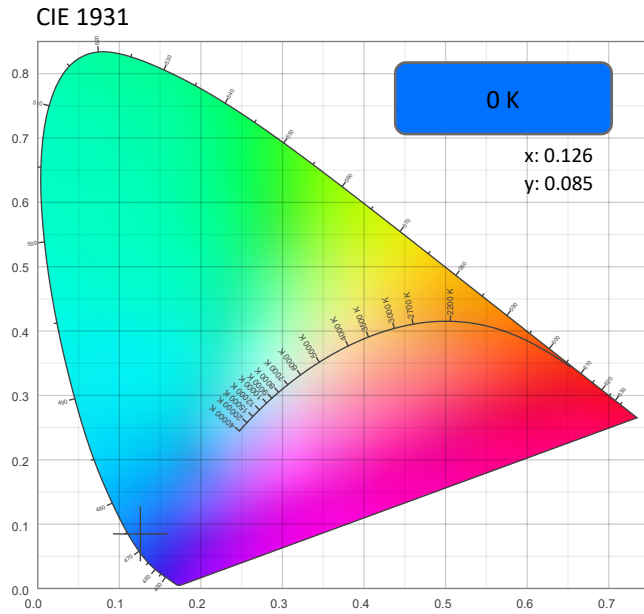
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens Optics - Blue Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.126	0.085

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.085	0.134

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

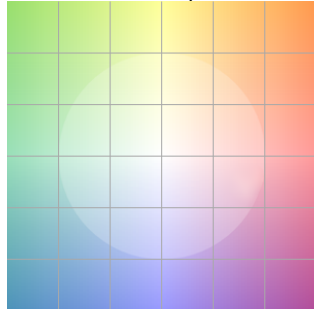
Logic MR16 Downlight S: Wide Filter Lens Optics - Blue Only

## TM-30 Details

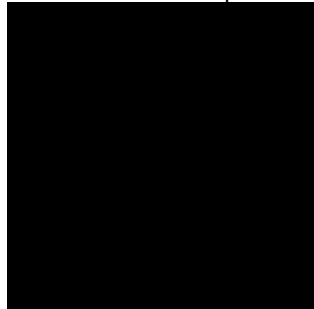
**Rf 0.0**  
Fidelity Index (Rg)

**Rg 0.0**  
Gammut Index (Rg)

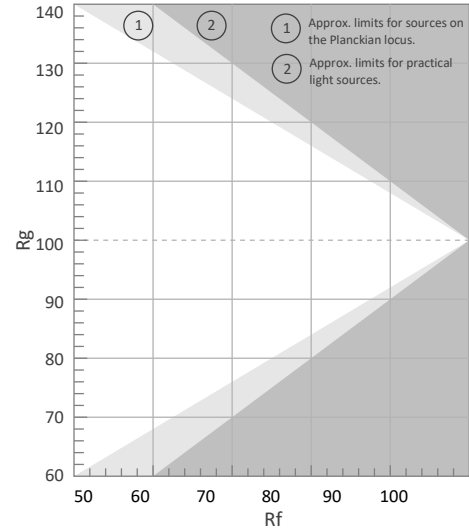
Color Vector Graphic



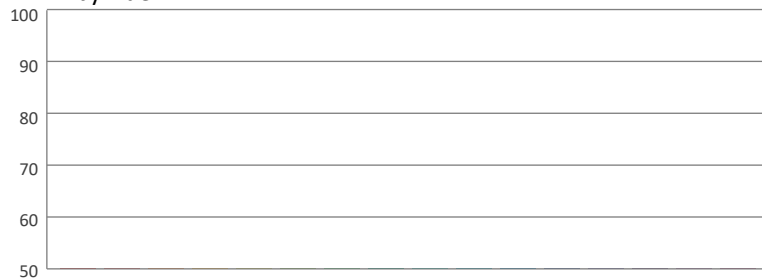
Color Distortion Graphic



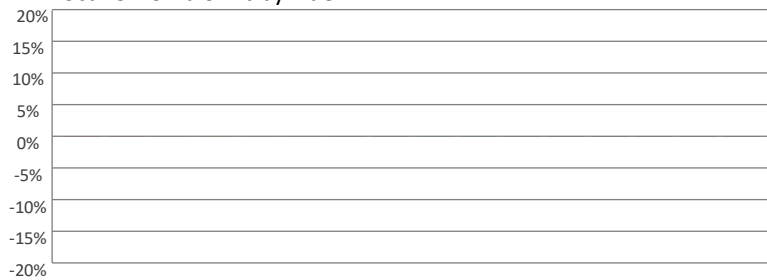
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



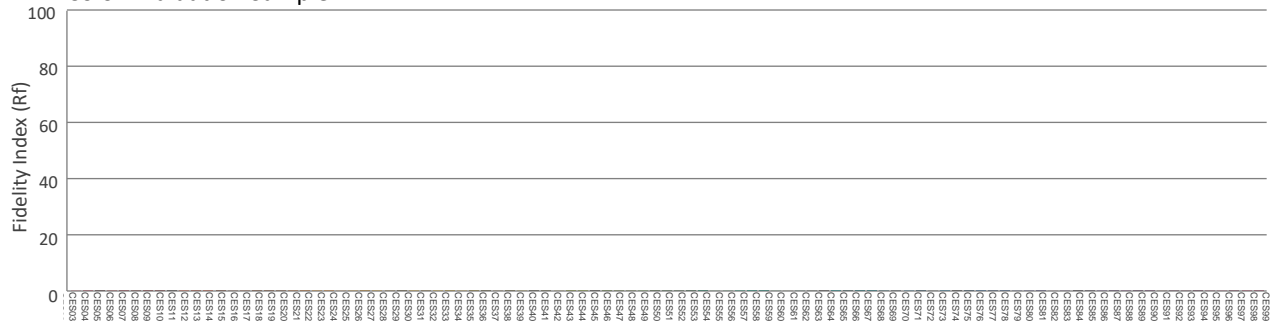
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens Optics - Warm White Only

## Report Summary

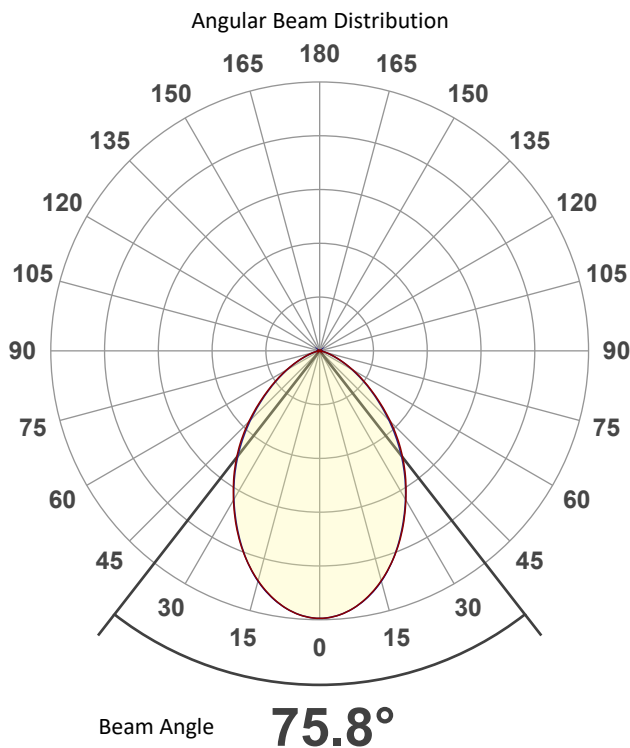
### Measurements

Fixture Output: 92.2 lm  
Fixture Peak: 57.2 cd  
Fixture Efficacy: 7 lm/W  
Intensity @ 5m: 2 lux  
Color Temperature: 3080 K  
CRI: 92.2      CRI R9 Value: 71.4  
CQS: 90.6  
TLCI: 91  
TM-30 Rf: 90.9  
TM-30 Rg: 102.6  
Beam Angle (50%): 75.8°  
Field Angle (10%): 127.4°  
Cutoff Angle (3%): 149.1°  
Conditions  
AC Supply: 121 V, 60 Hz  
Power: 17.36 W  
Current: 0.144 A  
Power Factor: 0.81



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/1/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.433  
Y: 0.406

Light Quality  
CRI: 92.2

Color Temperature  
3080 K

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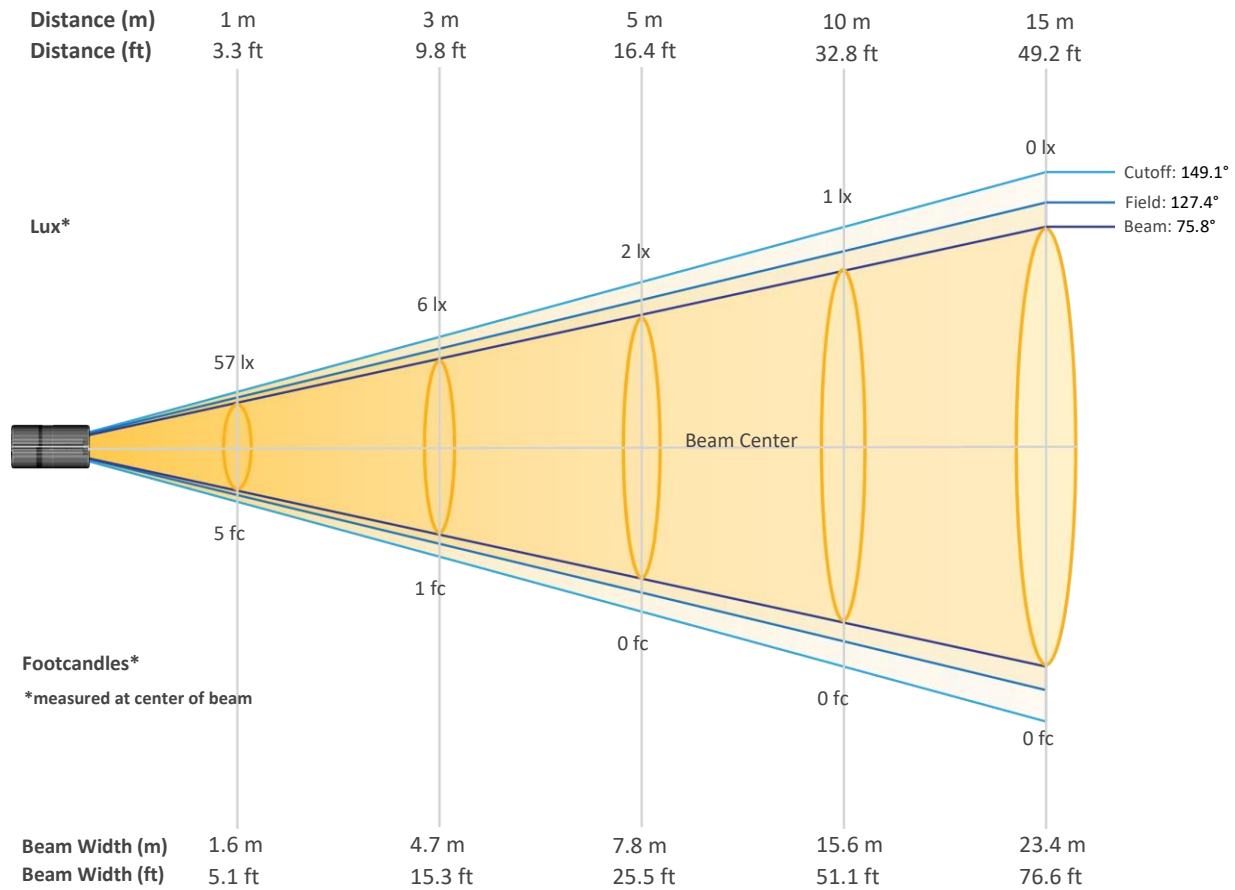
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens Optics - Warm White Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	57	14	6	4	2	2	1	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	0	0	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	5	1	1	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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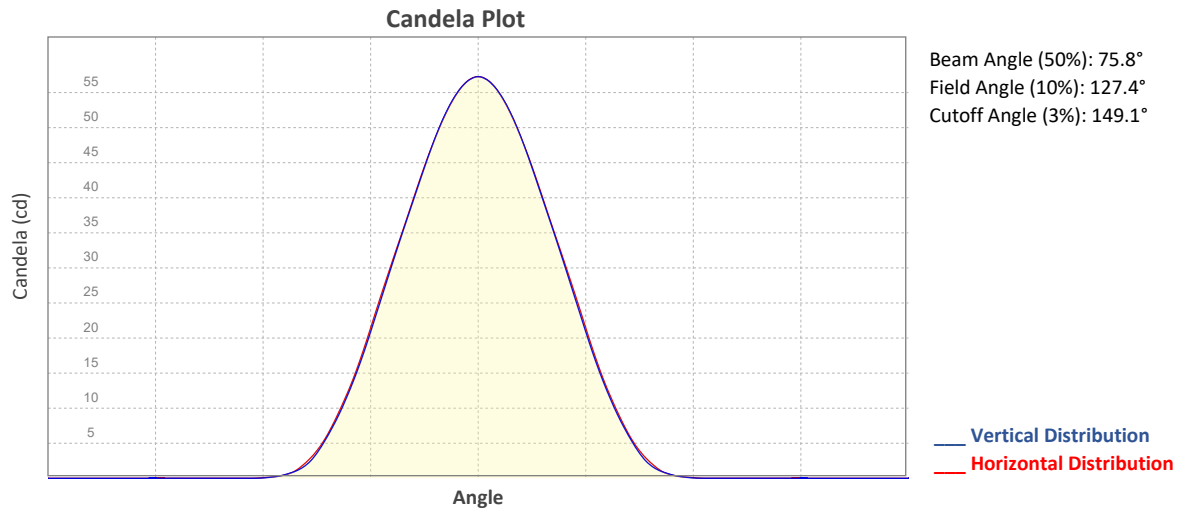
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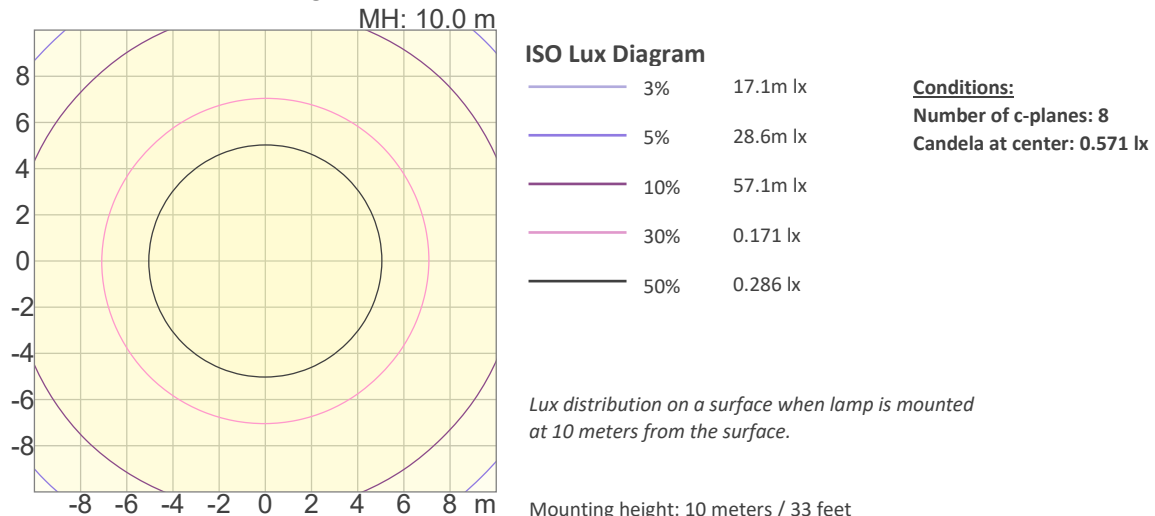
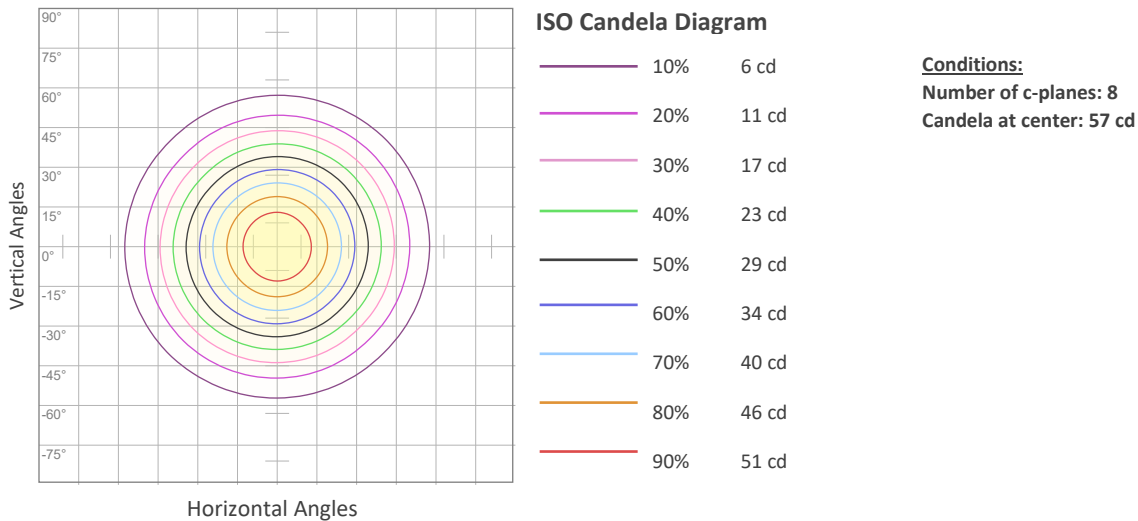


# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens Optics - Warm White Only



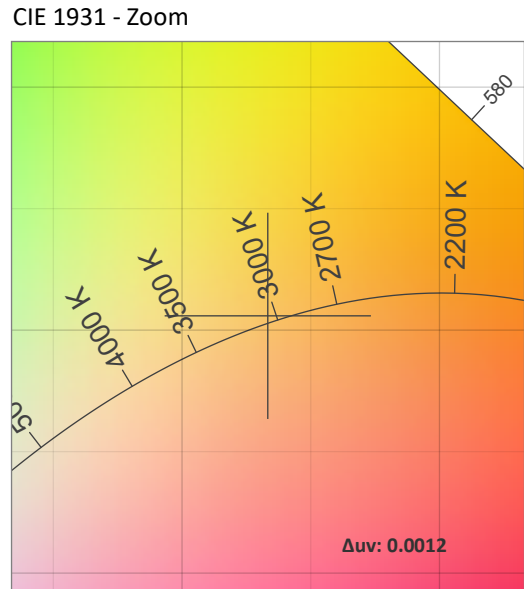
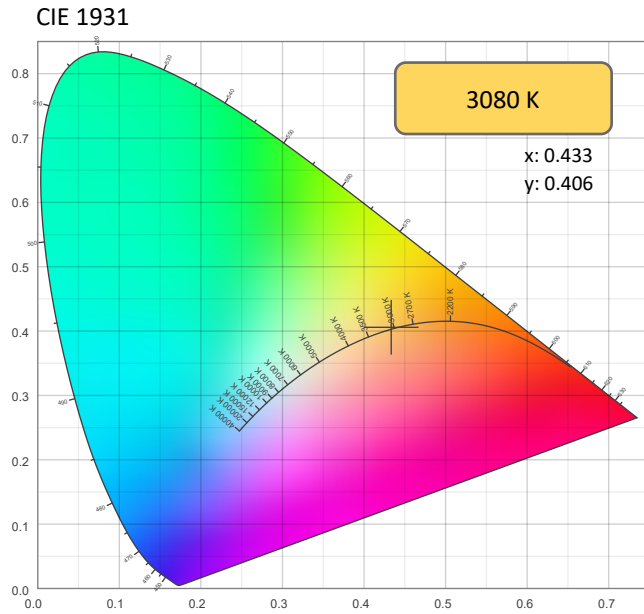
## ISO Diagrams



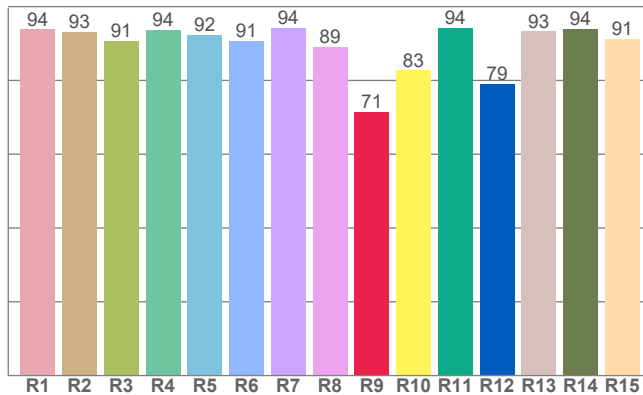
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens Optics - Warm White Only

## Chromaticity



CRI: 92.2 (R1-R8)

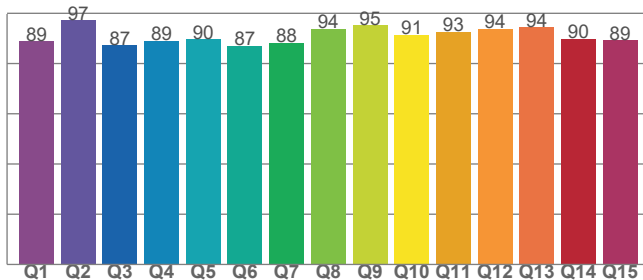


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3080 K	0.433	0.406

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0012	0.406	0.247

CQS: 90.6



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
92.2	71.4	90.6

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
91	90.9	102.6

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# Photometric & Chromaticity Report

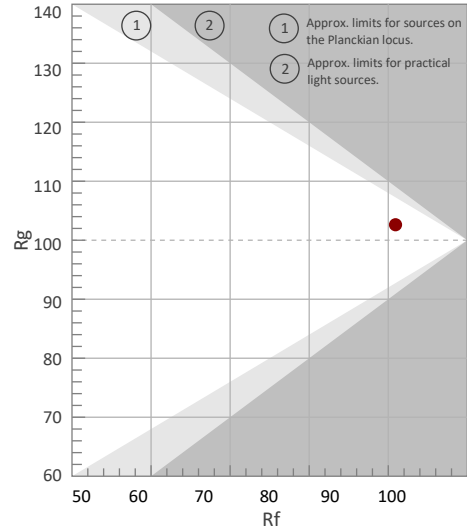
Logic MR16 Downlight S: Wide Filter Lens Optics - Warm White Only

## TM-30 Details

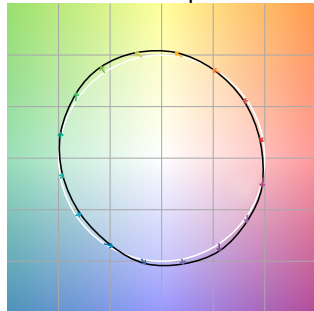
**Rf 90.9**  
Fidelity Index (Rg)

**Rg 102.6**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	-3%	-2%
2	94	-3%	2%
3	88	-1%	6%
4	89	3%	6%
5	92	5%	5%
6	90	6%	0%
7	88	4%	-6%
8	93	1%	-5%
9	94	-3%	-3%
10	91	-4%	1%
11	88	-2%	8%
12	91	3%	4%
13	93	5%	1%
14	91	6%	-3%
15	90	3%	-6%
16	90	1%	-8%



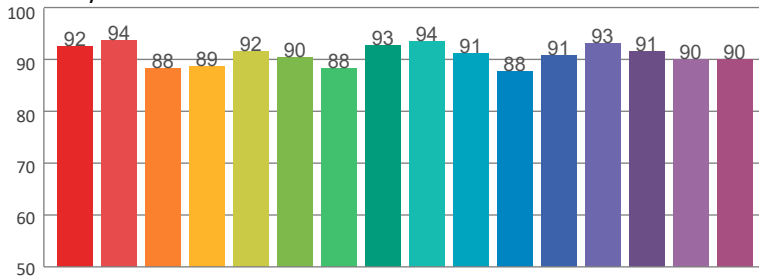
Color Vector Graphic



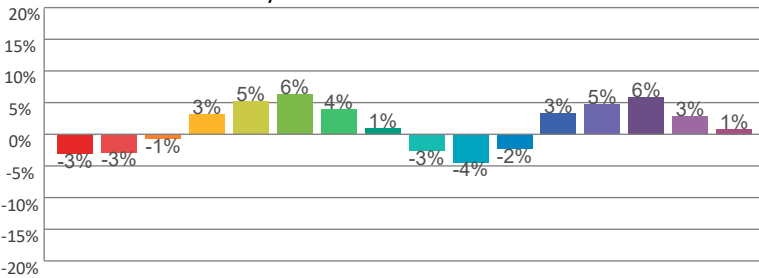
Color Distortion Graphic



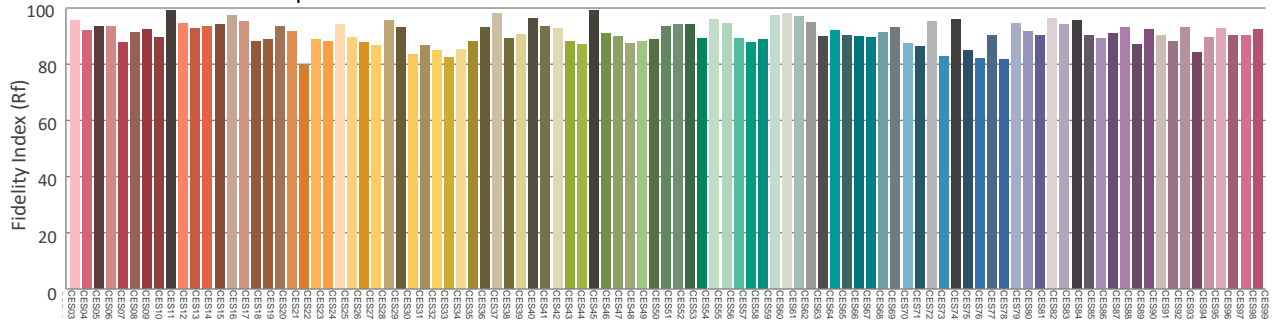
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - RGBW - Full Power

## Report Summary

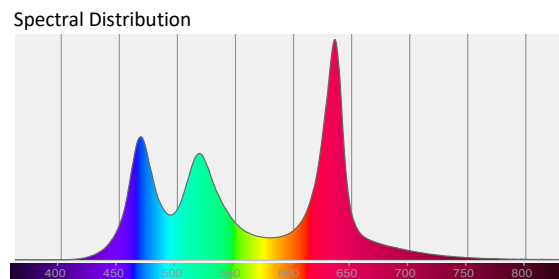
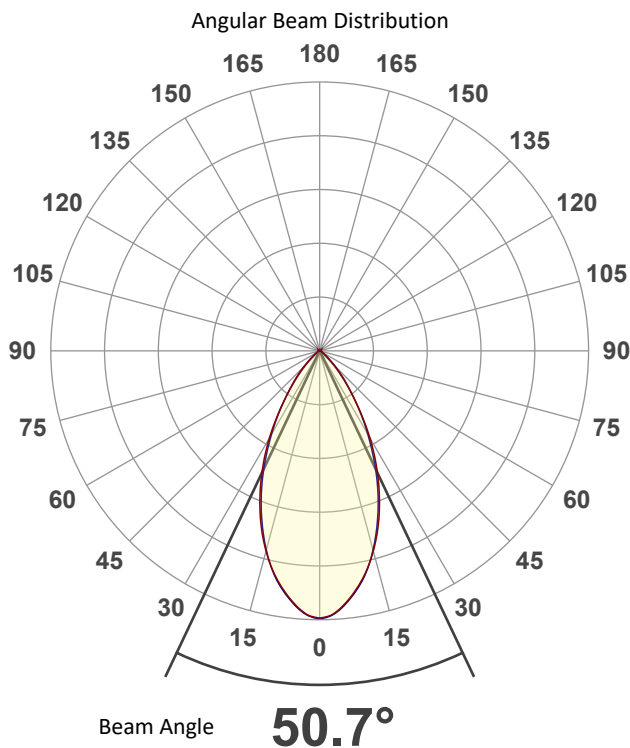
### Measurements

Fixture Output: 108 lm  
Fixture Peak: 136 cd  
Fixture Efficacy: 5 lm/W  
Intensity @ 5m: 5 lux  
Color Temperature: 5089 K  
CRI: 44.1      CRI R9 Value: -146.2  
CQS: 62.4  
TLCI: 27  
TM-30 Rf: 61.6  
TM-30 Rg: 106.1  
Beam Angle (50%): 50.7°  
Field Angle (10%): 86.7°  
Cutoff Angle (3%): 106.2°  
Conditions  
AC Supply: 119 V, 60 Hz  
Power: 23.14 W  
Current: 0.195 A  
Power Factor: 0.89



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/2/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):

X: 0.342

Y: 0.345



Light Quality

CRI: 44.1

Color Temperature

5089 K



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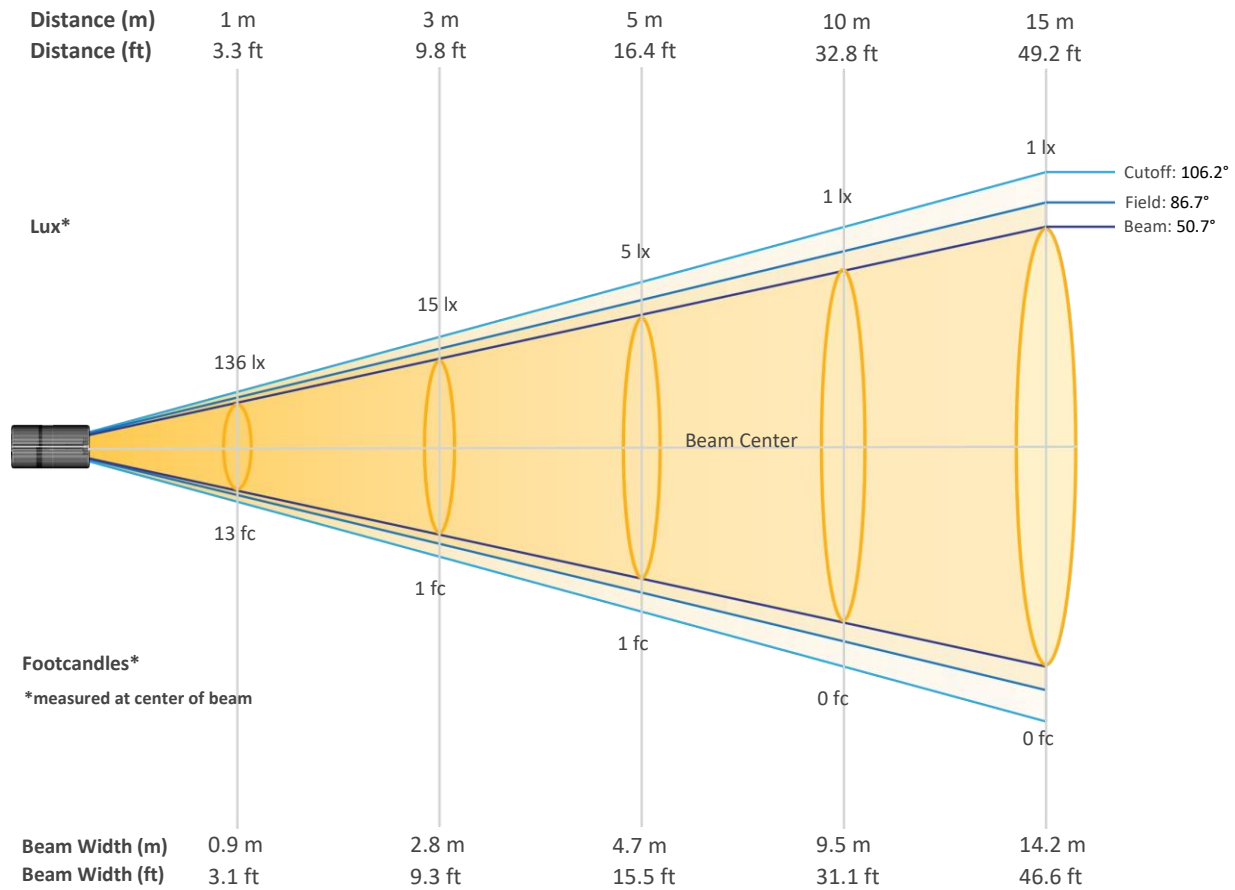
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - RGBW - Full Power

## Beam Details



### Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	136	34	15	9	5	4	3	2	2	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	1	1	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	13	3	1	1	1	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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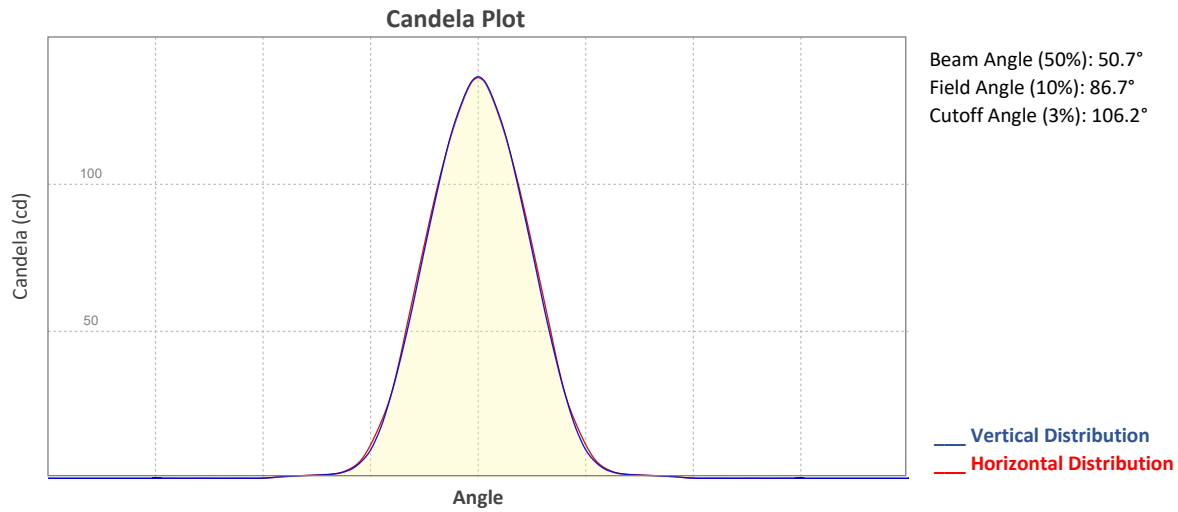
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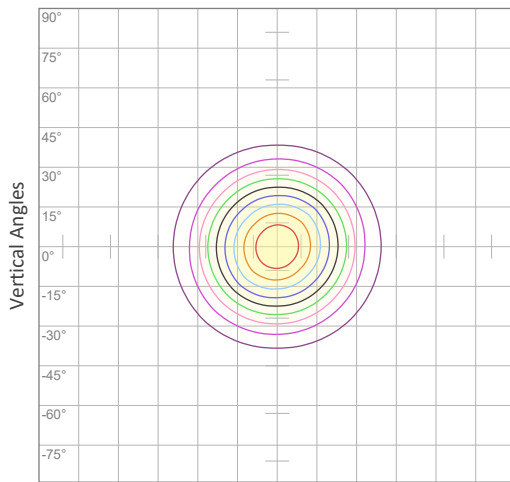
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - RGBW - Full Power



## ISO Diagrams



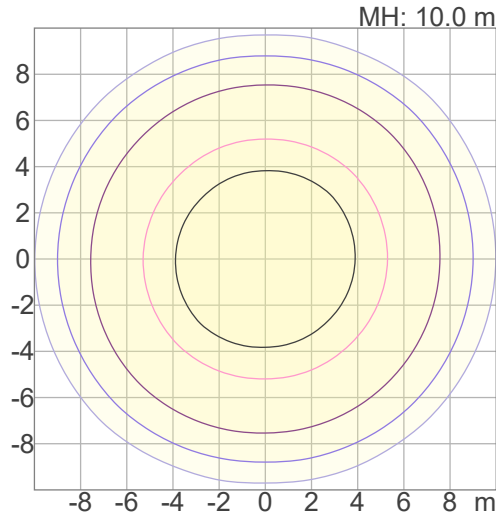
ISO Candela Diagram

10%	14 cd
20%	27 cd
30%	41 cd
40%	54 cd
50%	68 cd
60%	82 cd
70%	95 cd
80%	109 cd
90%	123 cd

**Conditions:**

Number of c-planes: 8  
Candela at center: 136 cd

Horizontal Angles



ISO Lux Diagram

3%	40.9m lx
5%	68.1m lx
10%	0.136 lx
30%	0.409 lx
50%	0.681 lx

**Conditions:**

Number of c-planes: 8  
Candela at center: 1.36 lx

*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

Mounting height: 10 meters / 33 feet

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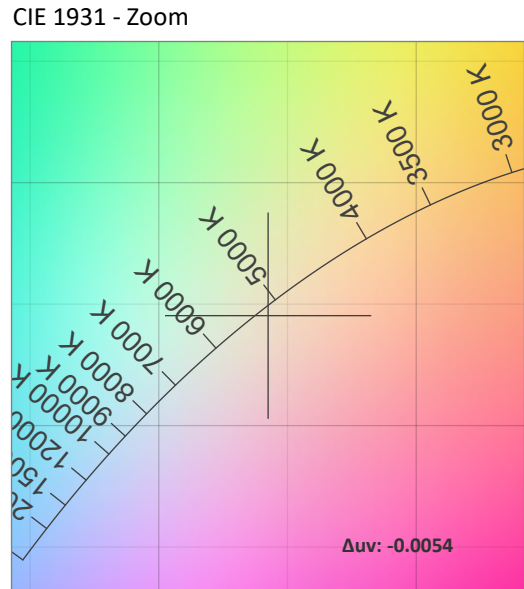
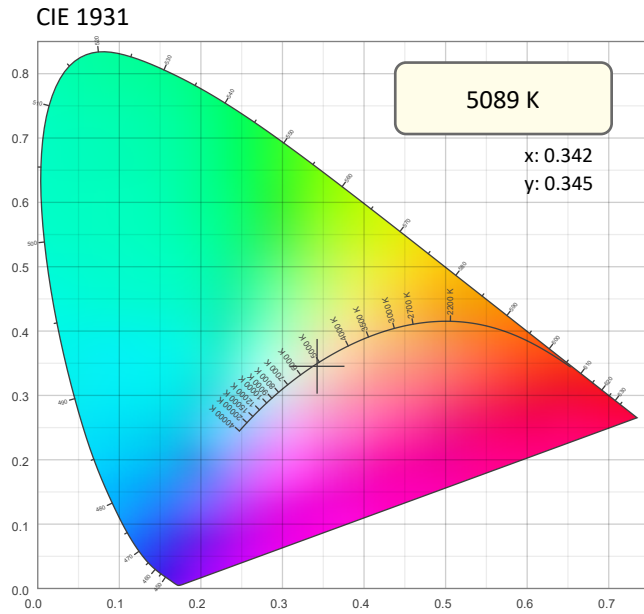
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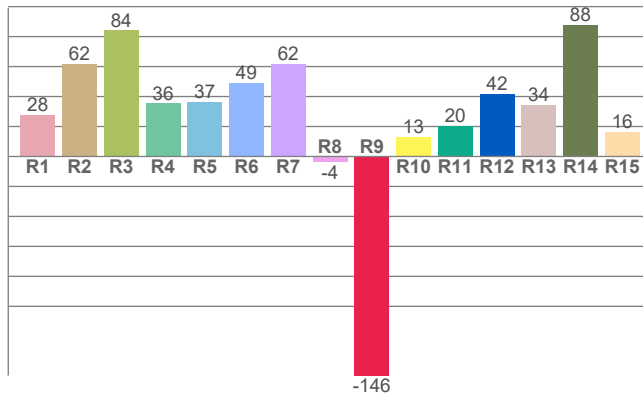
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - RGBW - Full Power

## Chromaticity



CRI: 44.1 (R1-R8)

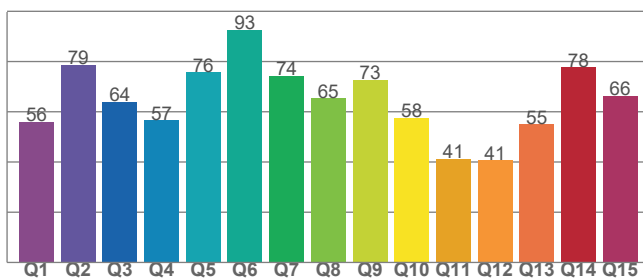


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5089 K	0.342	0.345

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
-0.0054	0.345	0.212

CQS: 62.4



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
44.1	-146.2	62.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
27	61.6	106.1

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# Photometric & Chromaticity Report

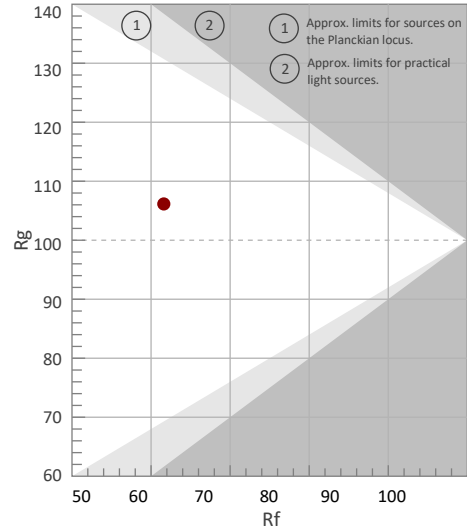
Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - RGBW - Full Power

## TM-30 Details

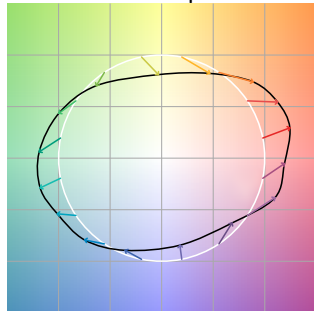
**Rf 61.6**  
Fidelity Index (Rg)

**Rg 106.1**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	49	28%	5%
2	56	24%	-17%
3	38	11%	-33%
4	51	-10%	-30%
5	66	-20%	-13%
6	78	-6%	14%
7	67	7%	19%
8	64	18%	17%
9	70	21%	5%
10	67	14%	-11%
11	66	7%	-18%
12	73	-5%	-17%
13	76	-14%	1%
14	60	-10%	22%
15	58	13%	29%
16	56	18%	18%



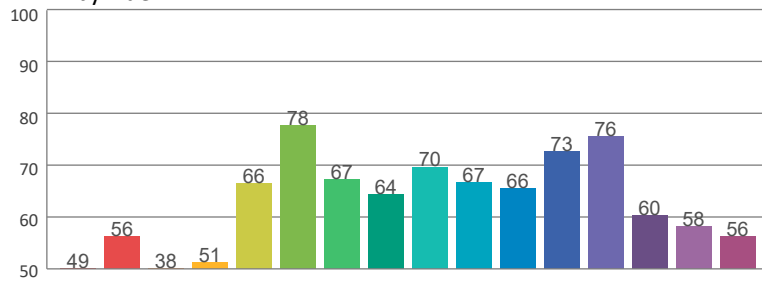
Color Vector Graphic



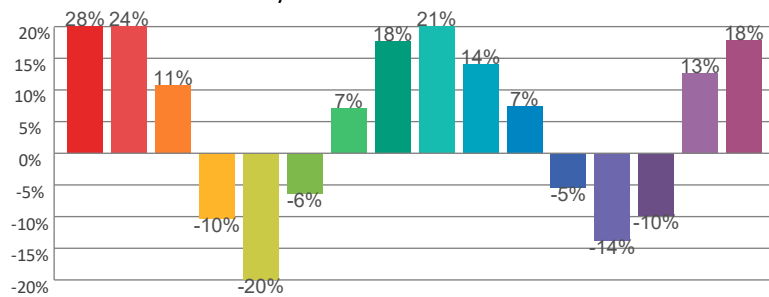
Color Distortion Graphic



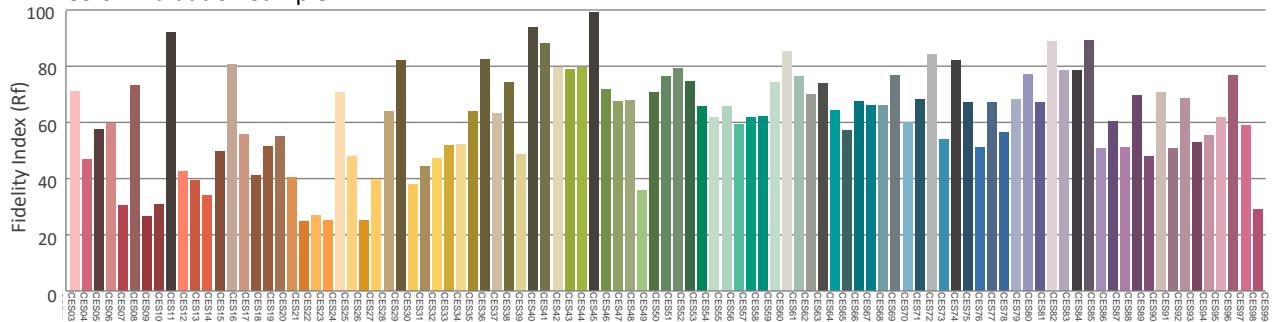
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample





# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - Red Only

## Report Summary

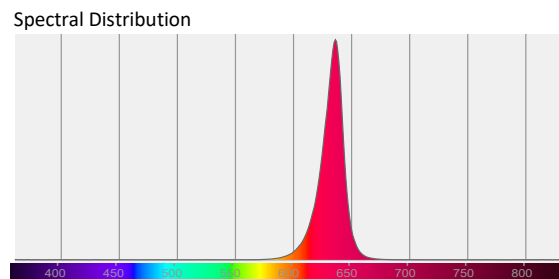
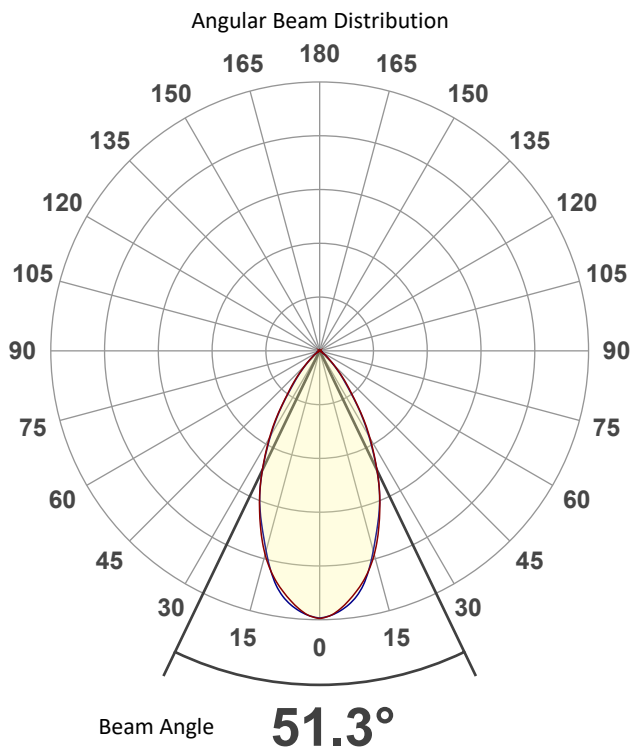
### Measurements

Fixture Output: 29.2 lm  
Fixture Peak: 36.5 cd  
Fixture Efficacy: 2 lm/W  
Intensity @ 5m: 1 lux  
Color Temperature: 0 K  
CRI: 0.0      CRI R9 Value: 0.0  
CQS: 0.0  
TLCl: n/a  
TM-30 Rf: 0.0  
TM-30 Rg: 0.0  
Beam Angle (50%): 51.3°  
Field Angle (10%): 86.1°  
Cutoff Angle (3%): 106.4°  
Conditions  
AC Supply: 119 V, 60.1 Hz  
Power: 16.9 W  
Current: 0.142 A  
Power Factor: 0.82



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/2/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.699  
Y: 0.300



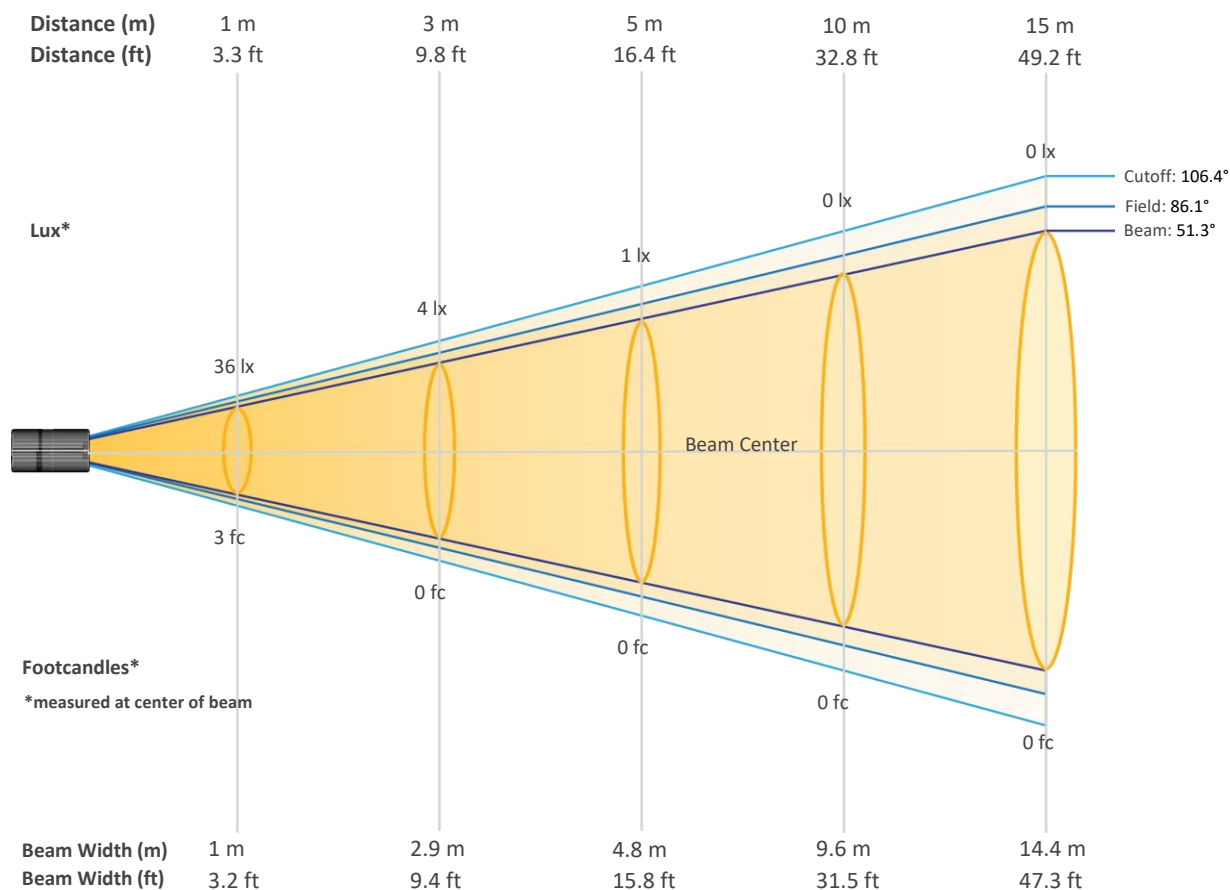
Light Quality  
CRI: 0.0

Color Temperature  
0 K

# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - Red Only

## Beam Details



### Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	36	9	4	2	1	1	1	1	0	0
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	0	0	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	3	1	0	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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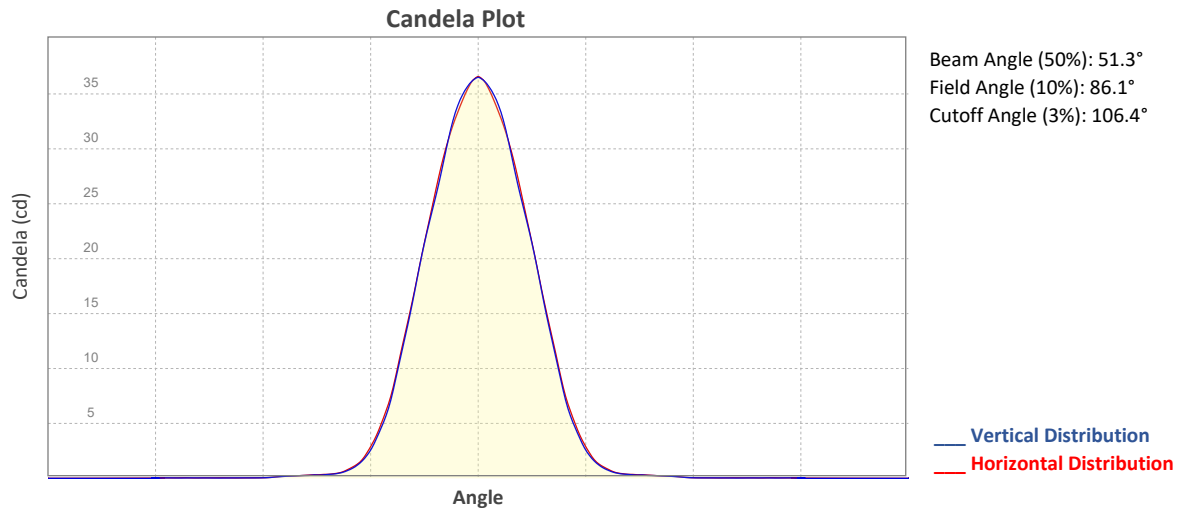
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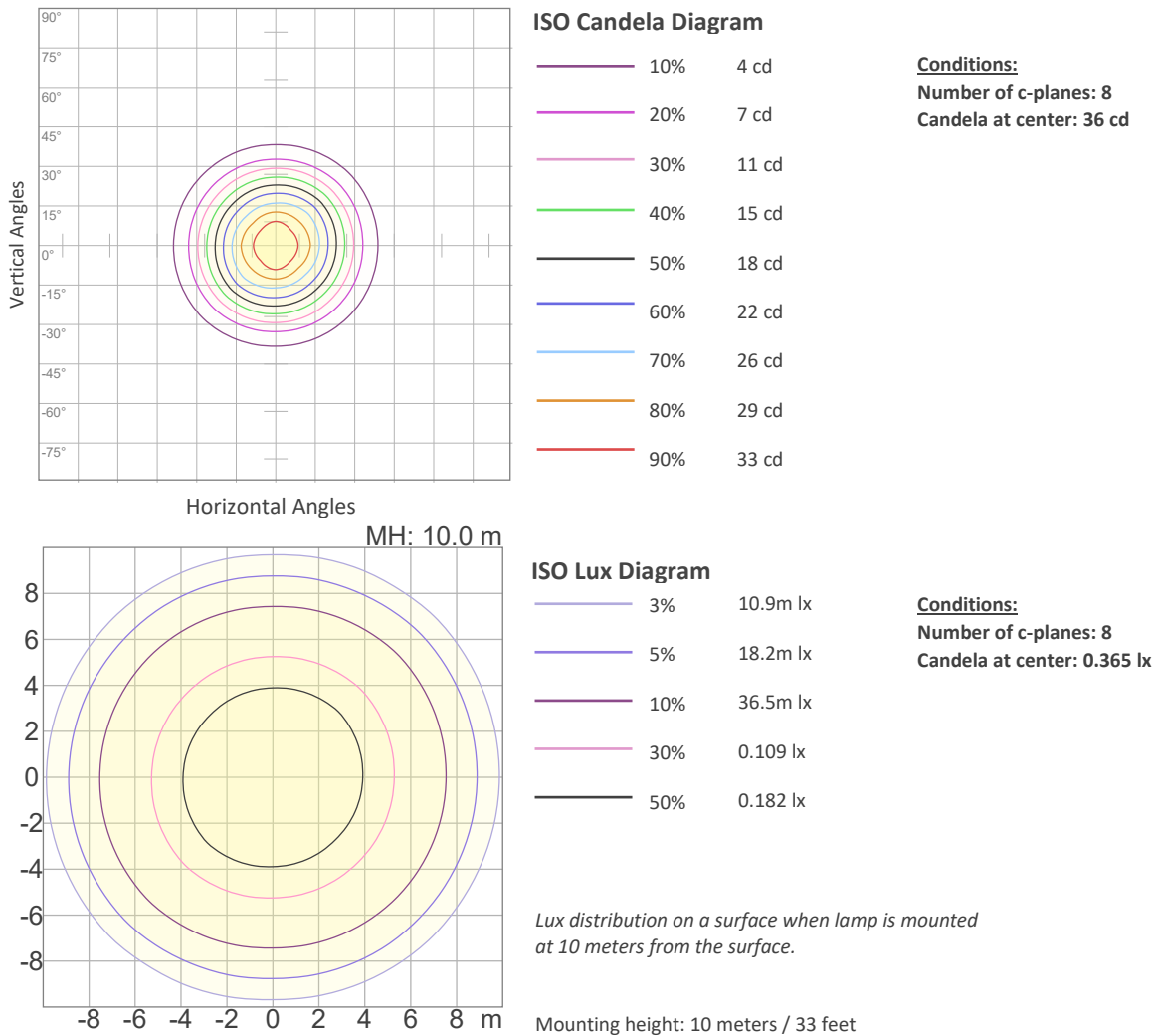
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - Red Only



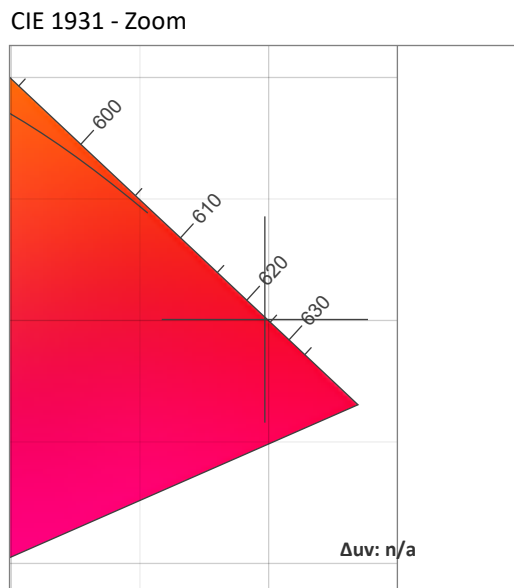
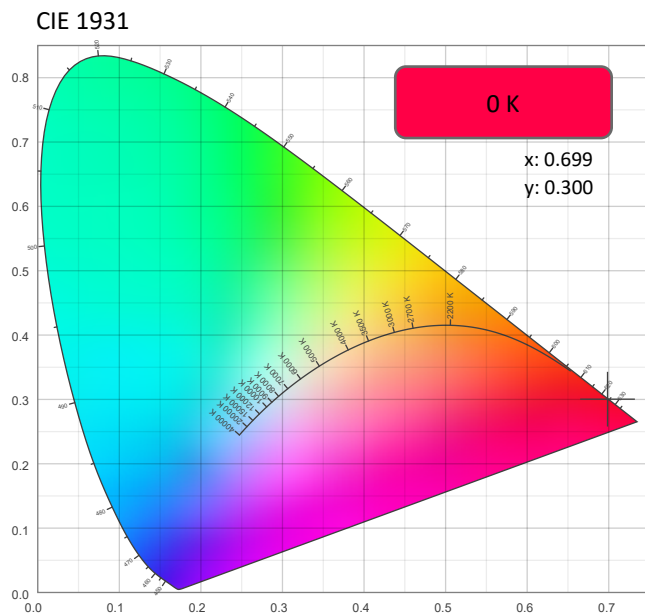
## ISO Diagrams



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - Red Only

## Chromaticity



### CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

### CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.699	0.300

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.300	0.537

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

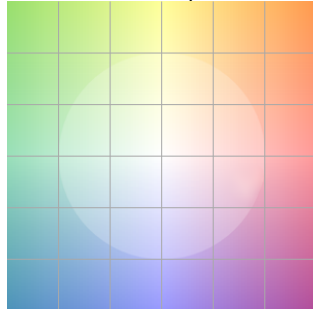
Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - Red Only

## TM-30 Details

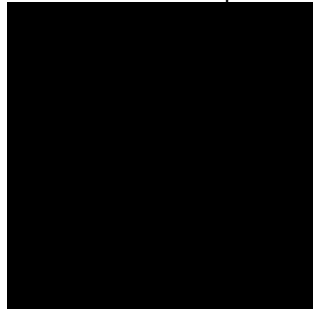
**Rf 0.0**  
Fidelity Index (Rg)

**Rg 0.0**  
Gammut Index (Rg)

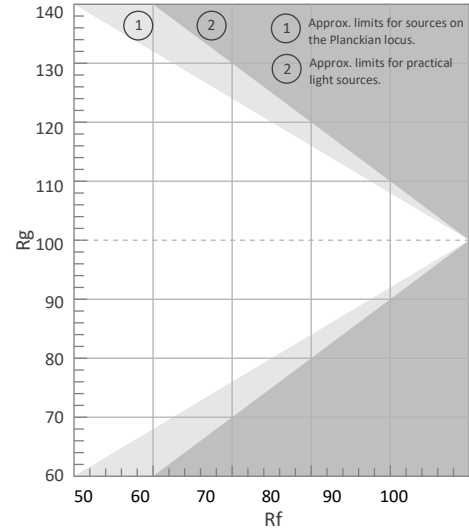
Color Vector Graphic



Color Distortion Graphic



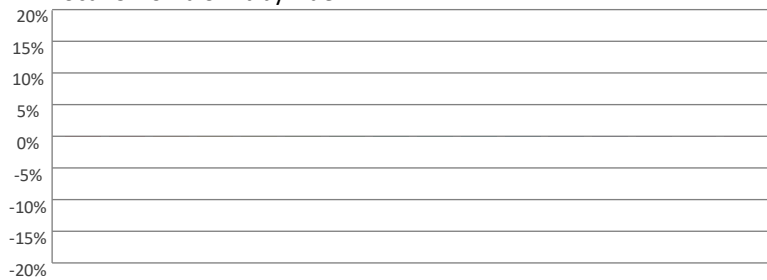
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



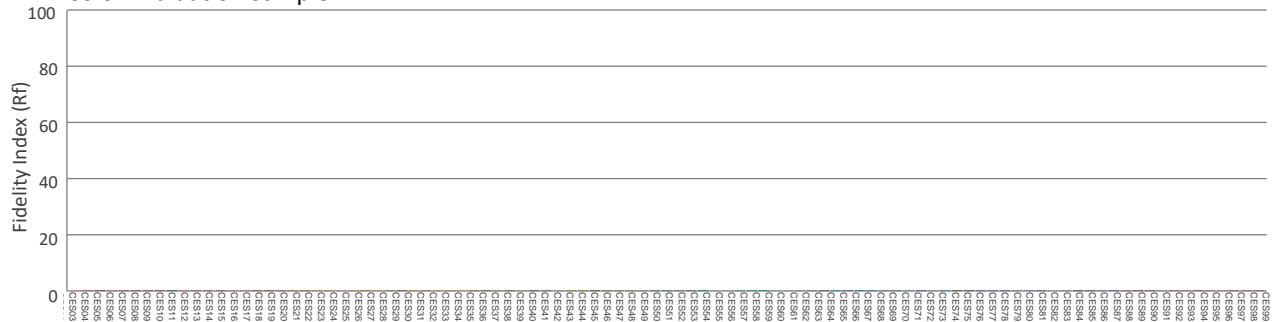
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - Green Only

## Report Summary

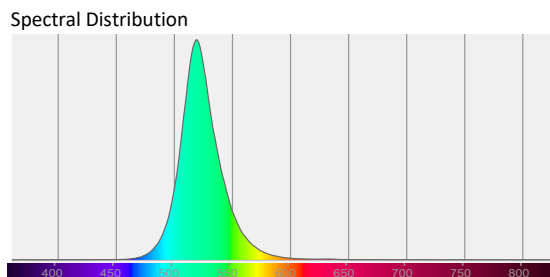
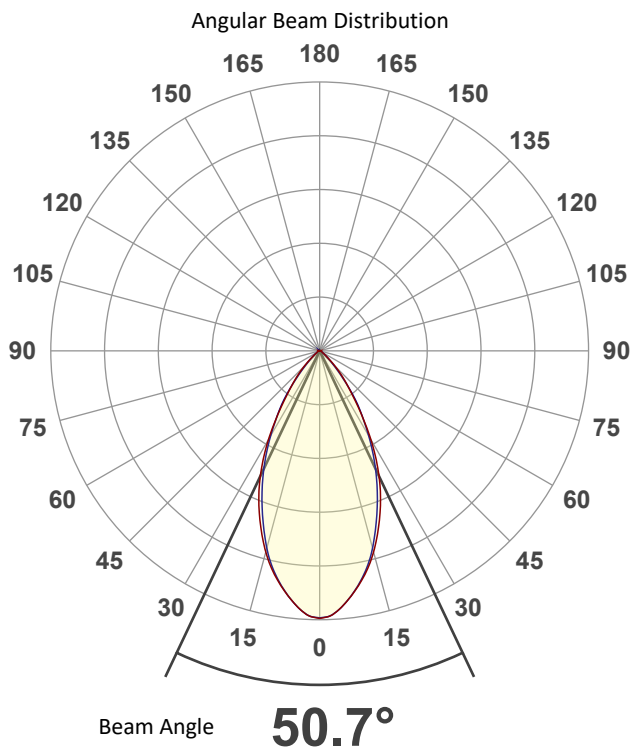
### Measurements

Fixture Output: 49.9 lm  
Fixture Peak: 63.1 cd  
Fixture Efficacy: 3 lm/W  
Intensity @ 5m: 3 lux  
Color Temperature: 0 K  
CRI: 0.0      CRI R9 Value: 0.0  
CQS: 0.0  
TLCl: n/a  
TM-30 Rf: 0.0  
TM-30 Rg: 0.0  
Beam Angle (50%): 50.7°  
Field Angle (10%): 86.7°  
Cutoff Angle (3%): 106.3°  
Conditions  
AC Supply: 118 V, 60 Hz  
Power: 17.52 W  
Current: 0.148 A  
Power Factor: 0.83



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/2/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):

X: 0.160

Y: 0.721



Light Quality

CRI: 0.0

Color Temperature

0 K

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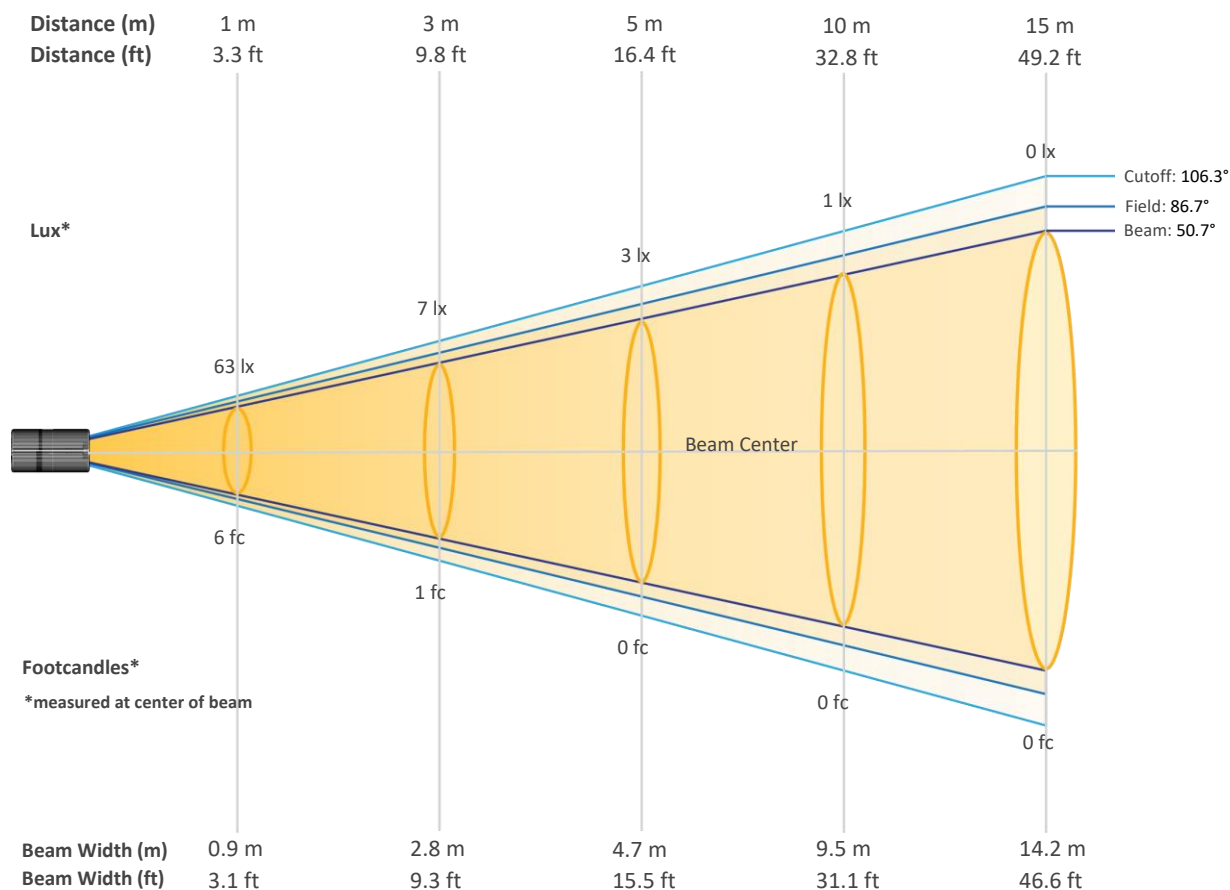
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - Green Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	63	16	7	4	3	2	1	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	0	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	6	1	1	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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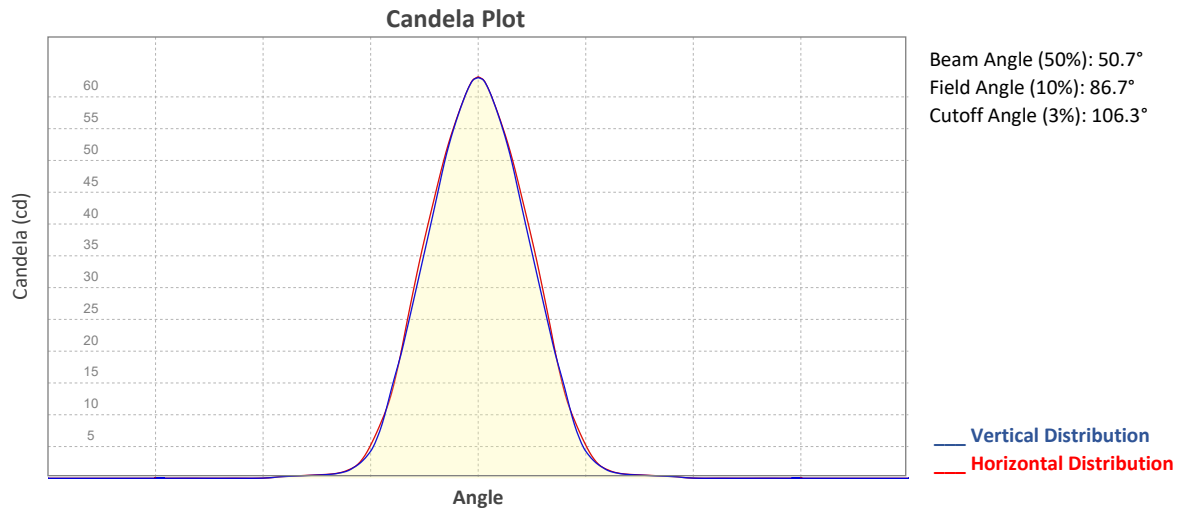
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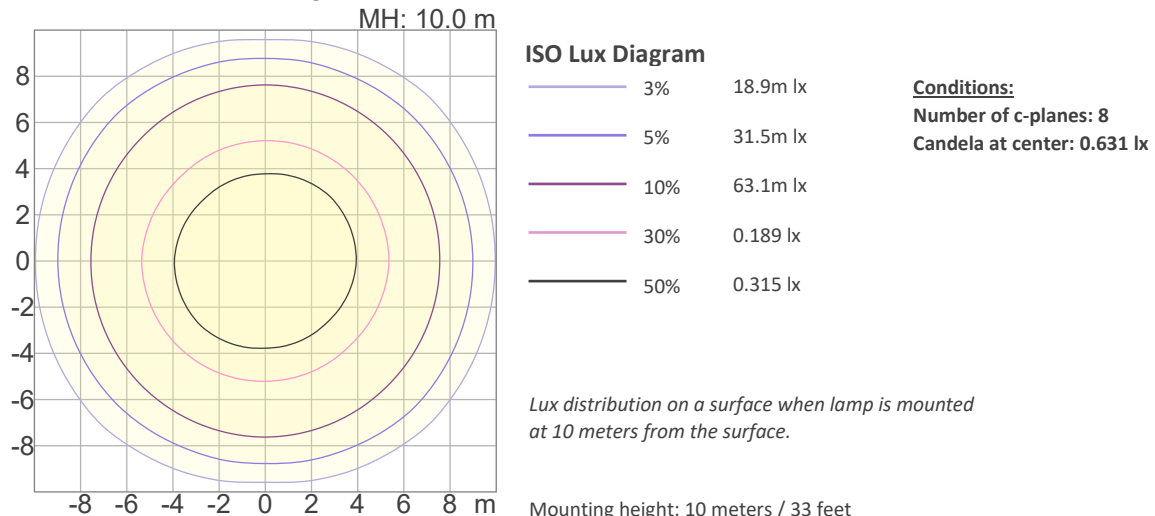
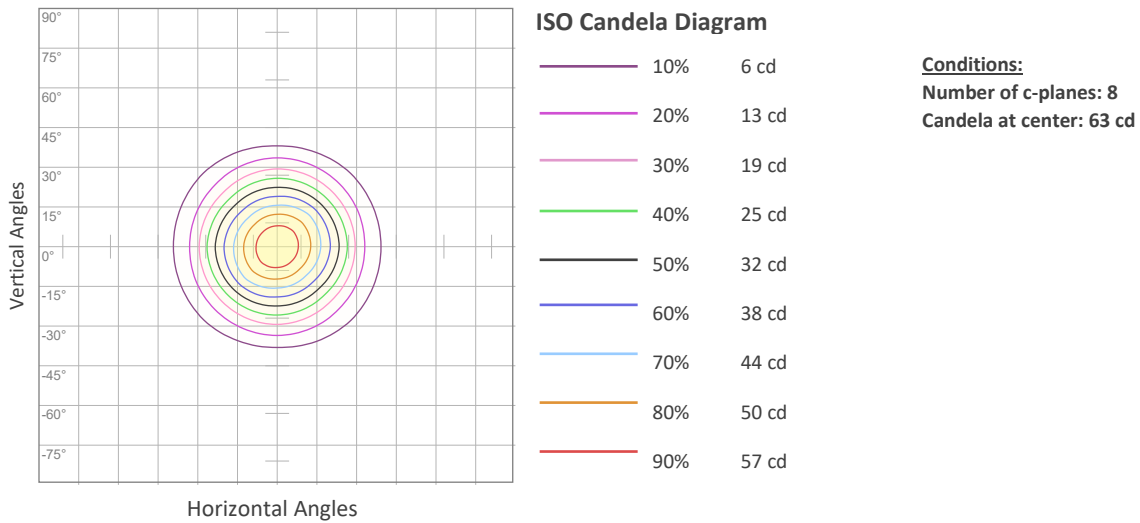
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - Green Only



## ISO Diagrams

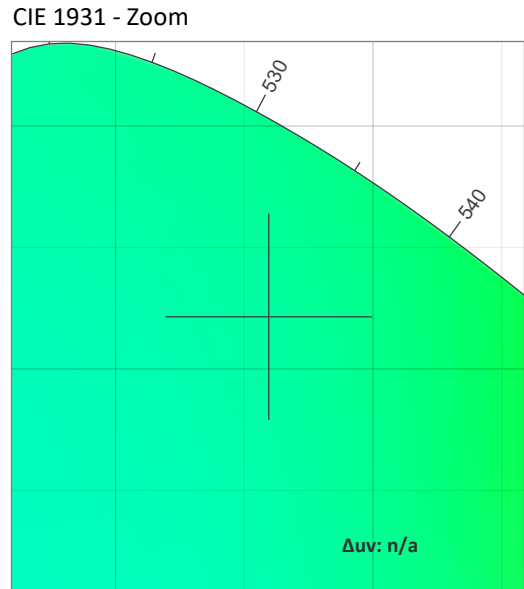
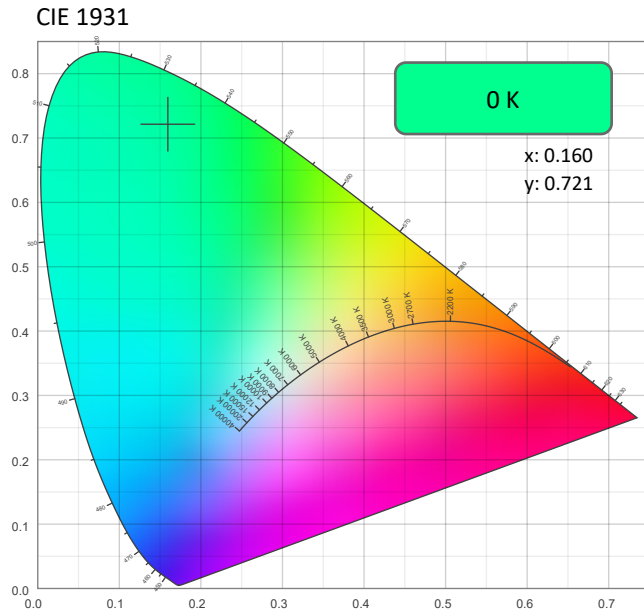




# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - Green Only

## Chromaticity



### CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

### CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.160	0.721

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
n/a	0.721	0.056

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

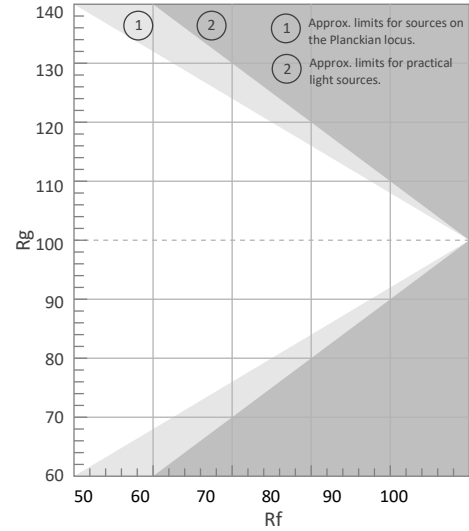
Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - Green Only

## TM-30 Details

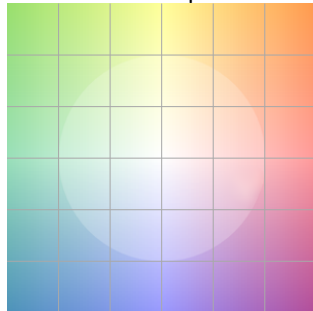
**Rf 0.0**  
Fidelity Index (Rg)

**Rg 0.0**  
Gammut Index (Rg)

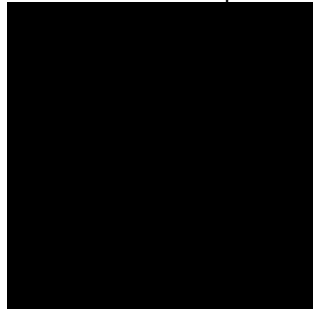
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



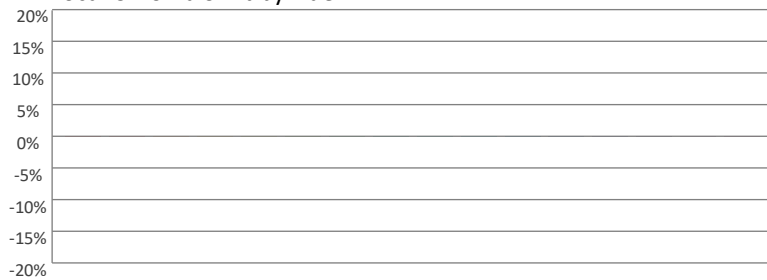
Color Distortion Graphic



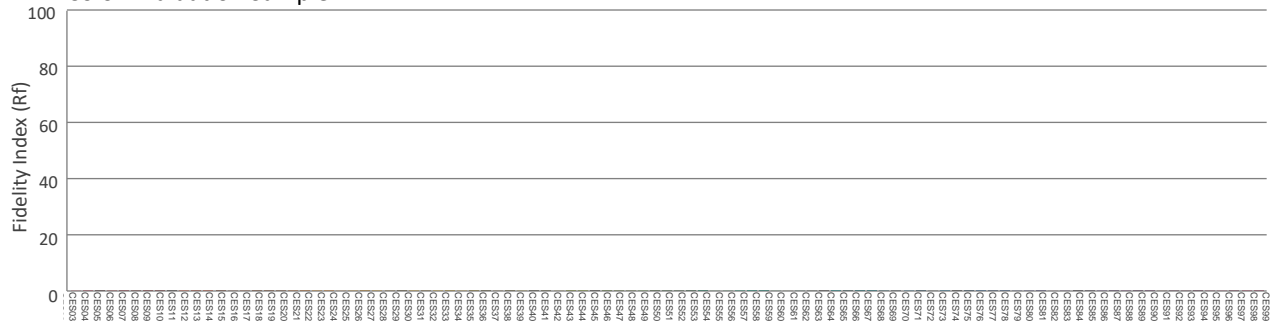
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - Blue Only

## Report Summary

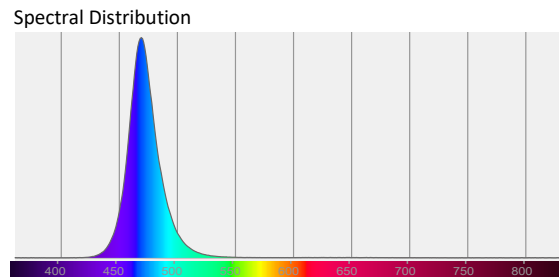
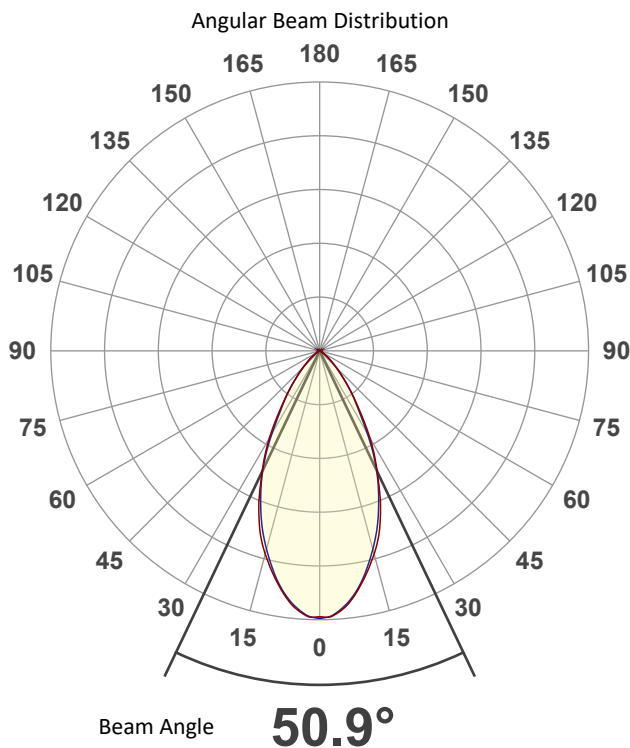
### Measurements

Fixture Output: 14.6 lm  
Fixture Peak: 18.0 cd  
Fixture Efficacy: 1 lm/W  
Intensity @ 5m: 1 lux  
Color Temperature: 0 K  
CRI: 0.0      CRI R9 Value: 0.0  
CQS: 0.0  
TLCl: n/a  
TM-30 Rf: 0.0  
TM-30 Rg: 0.0  
Beam Angle (50%): 50.9°  
Field Angle (10%): 87.7°  
Cutoff Angle (3%): 107.8°  
Conditions  
AC Supply: 118 V, 60 Hz  
Power: 17.35 W  
Current: 0.147 A  
Power Factor: 0.83



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/2/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):

X: 0.126

Y: 0.085



Light Quality

CRI: 0.0

Color Temperature

0 K

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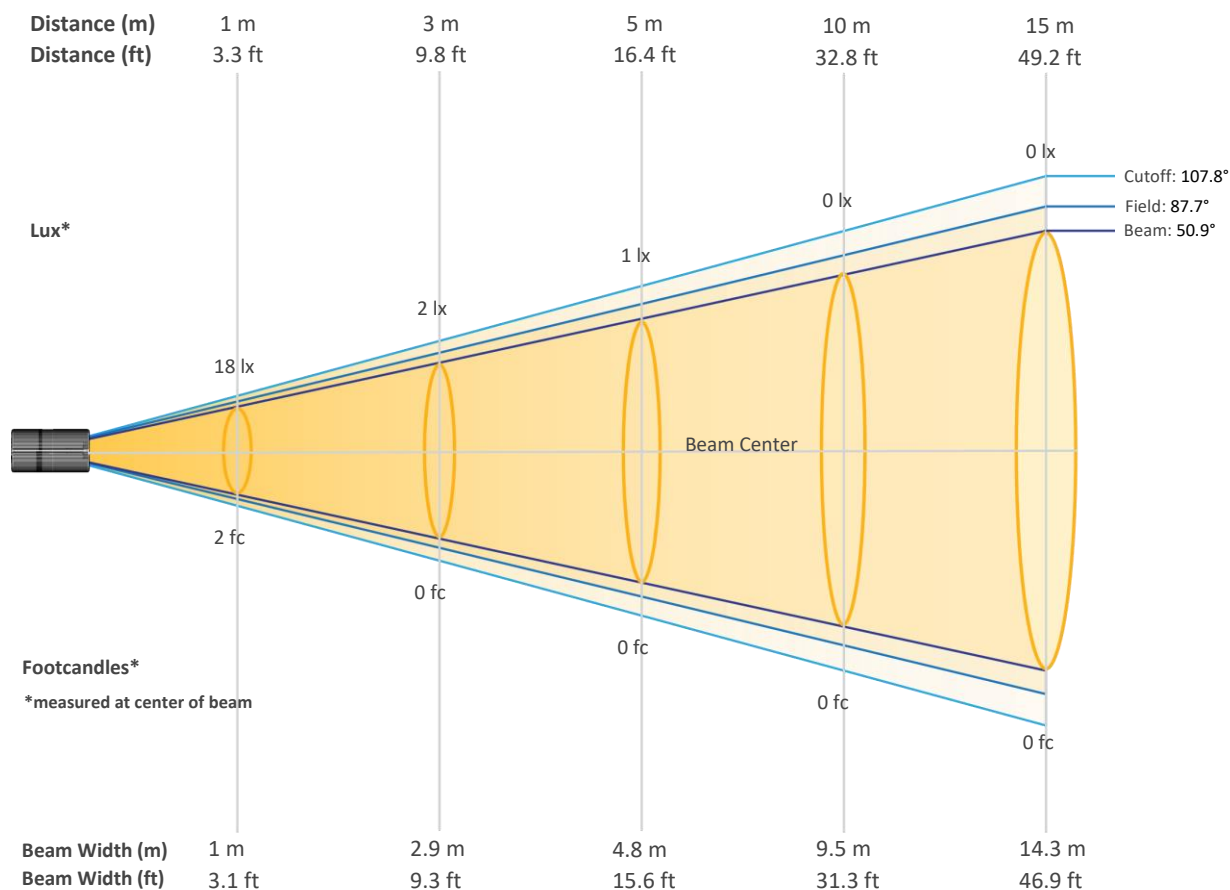
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - Blue Only

## Beam Details



### Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	18	4	2	1	1	0	0	0	0	0
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	0	0	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	2	0	0	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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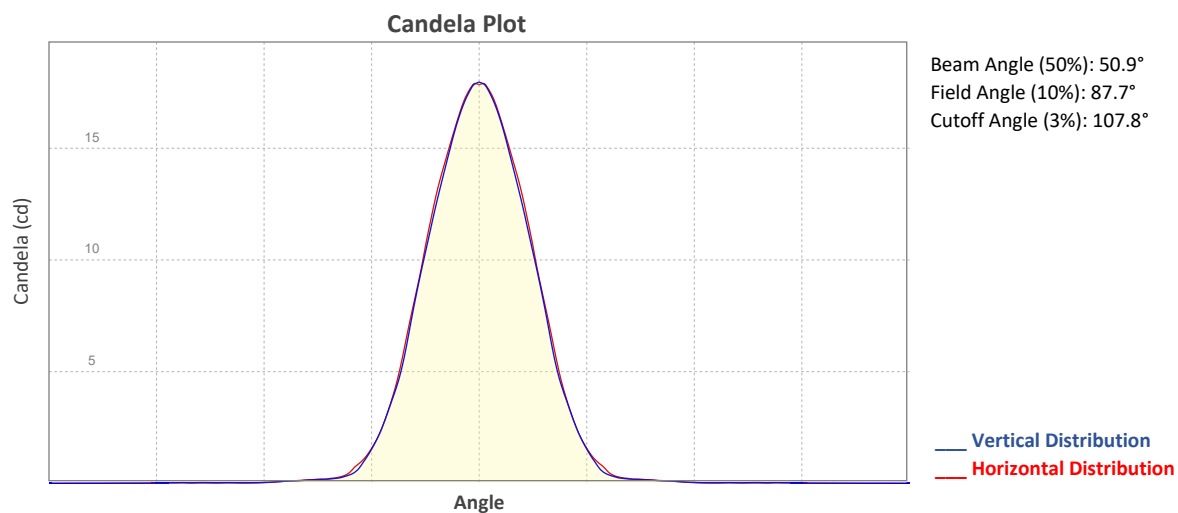
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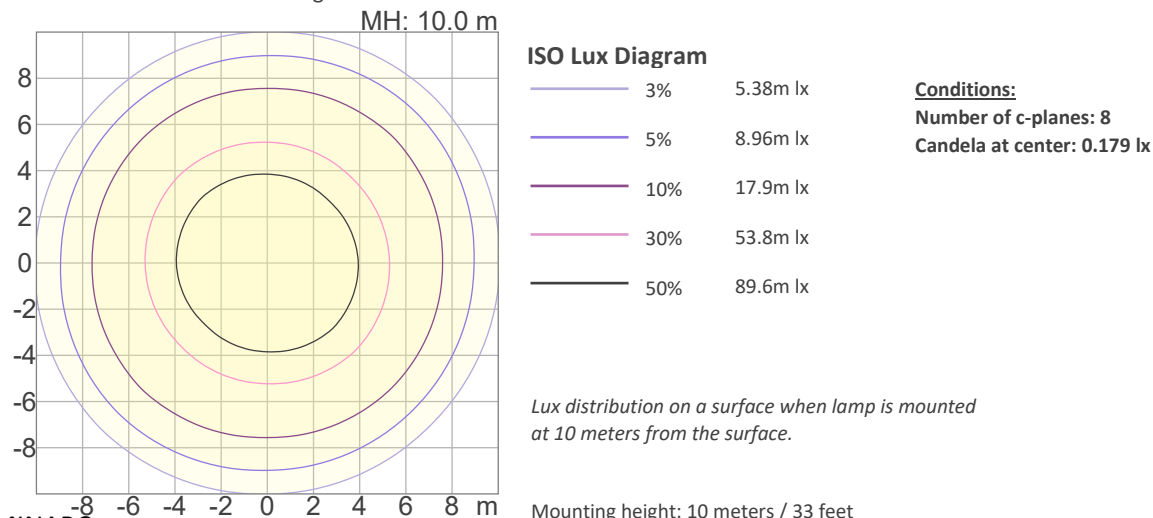
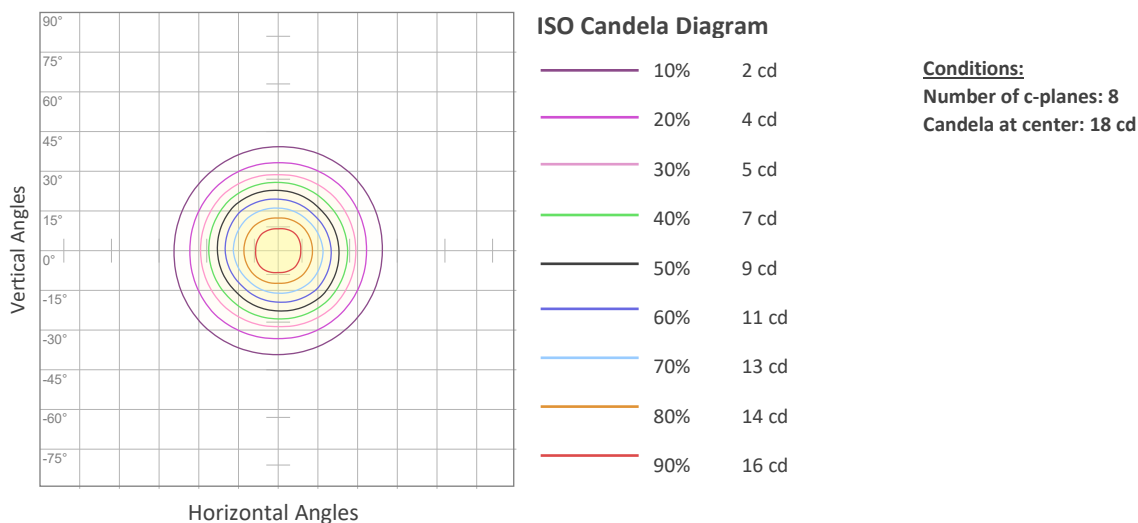
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - Blue Only



## ISO Diagrams



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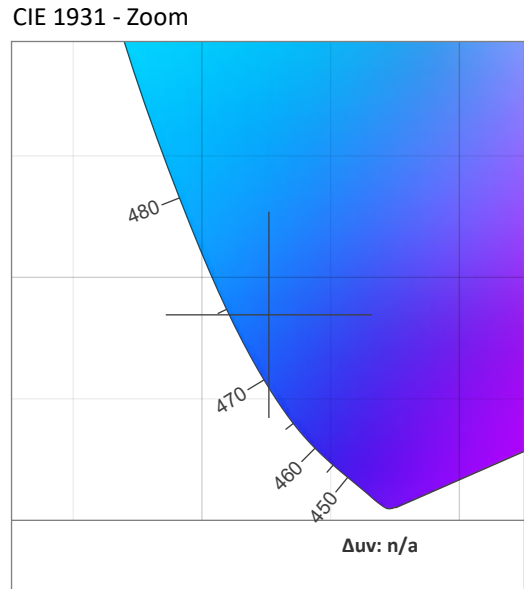
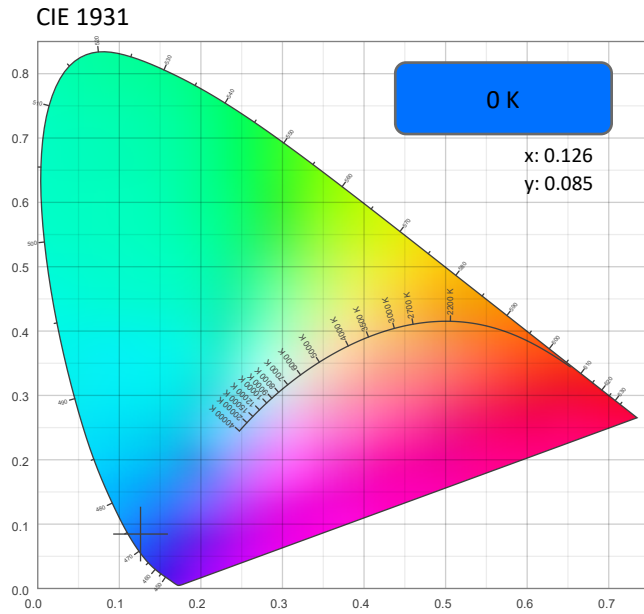
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - Blue Only

## Chromaticity



### CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

### CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.126	0.085

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.085	0.134

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

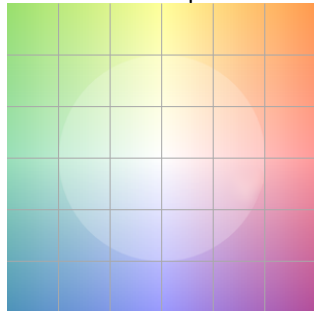
Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - Blue Only

## TM-30 Details

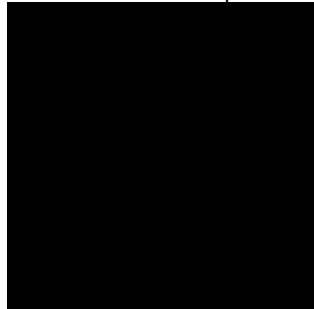
**Rf 0.0**  
Fidelity Index (Rg)

**Rg 0.0**  
Gammut Index (Rg)

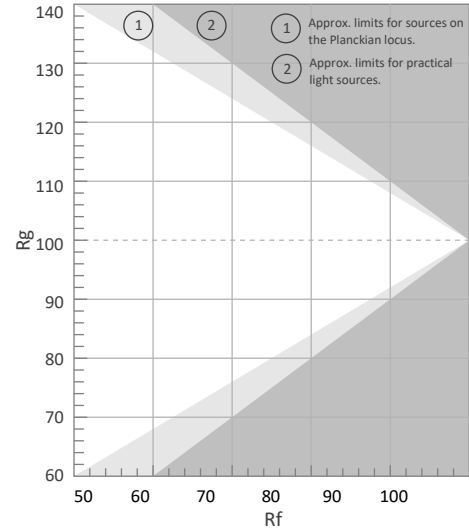
Color Vector Graphic



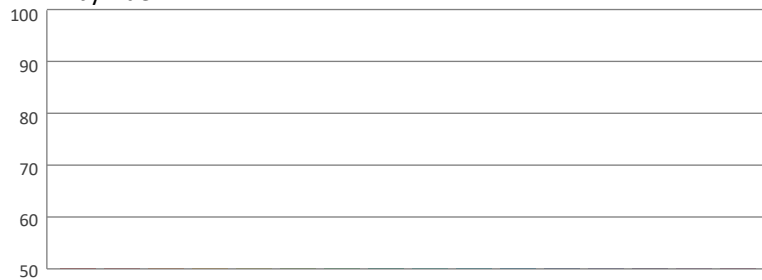
Color Distortion Graphic



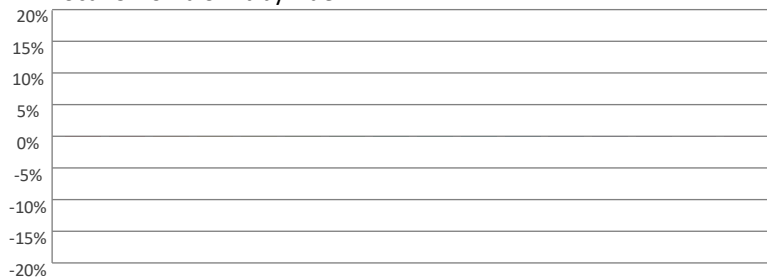
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



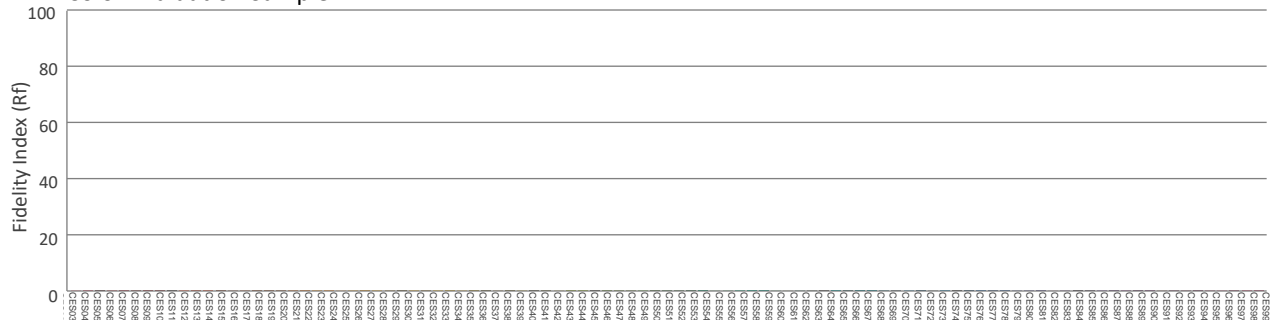
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - Warm White Only

## Report Summary

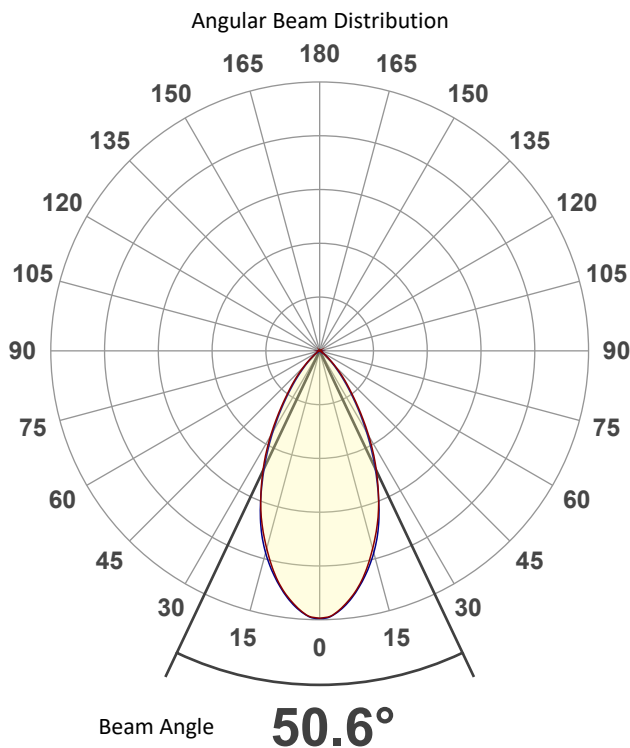
### Measurements

Fixture Output: 39.1 lm  
Fixture Peak: 49.6 cd  
Fixture Efficacy: 3 lm/W  
Intensity @ 5m: 2 lux  
Color Temperature: 3068 K  
CRI: 92.2      CRI R9 Value: 71.5  
CQS: 90.5  
TLCI: 90  
TM-30 Rf: 90.8  
TM-30 Rg: 102.7  
Beam Angle (50%): 50.6°  
Field Angle (10%): 86.1°  
Cutoff Angle (3%): 106.1°  
Conditions  
AC Supply: 119 V, 60 Hz  
Power: 17.26 W  
Current: 0.145 A  
Power Factor: 0.82



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/2/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.434  
Y: 0.406

Light Quality  
CRI: 92.2

Color Temperature  
3068 K

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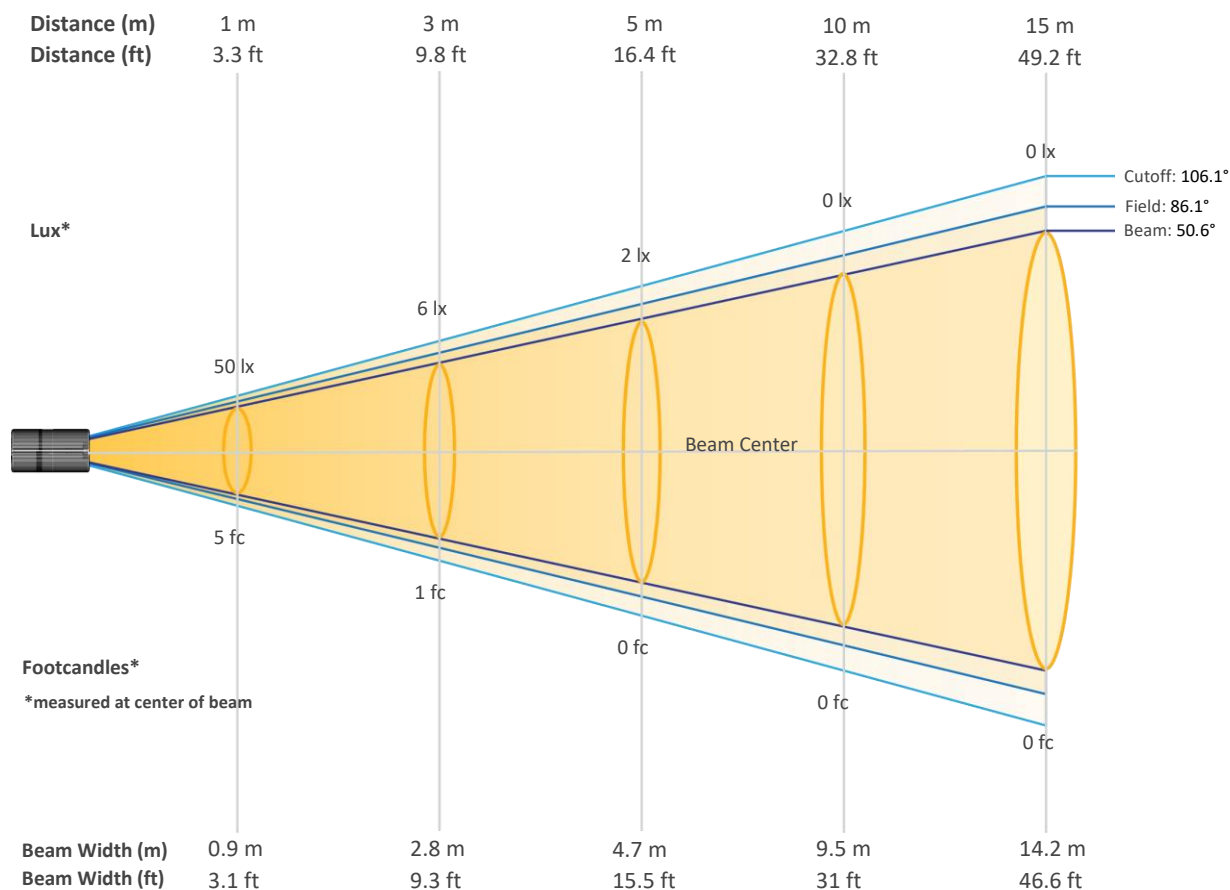
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - Warm White Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	50	12	6	3	2	1	1	1	1	0
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	0	0	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	5	1	1	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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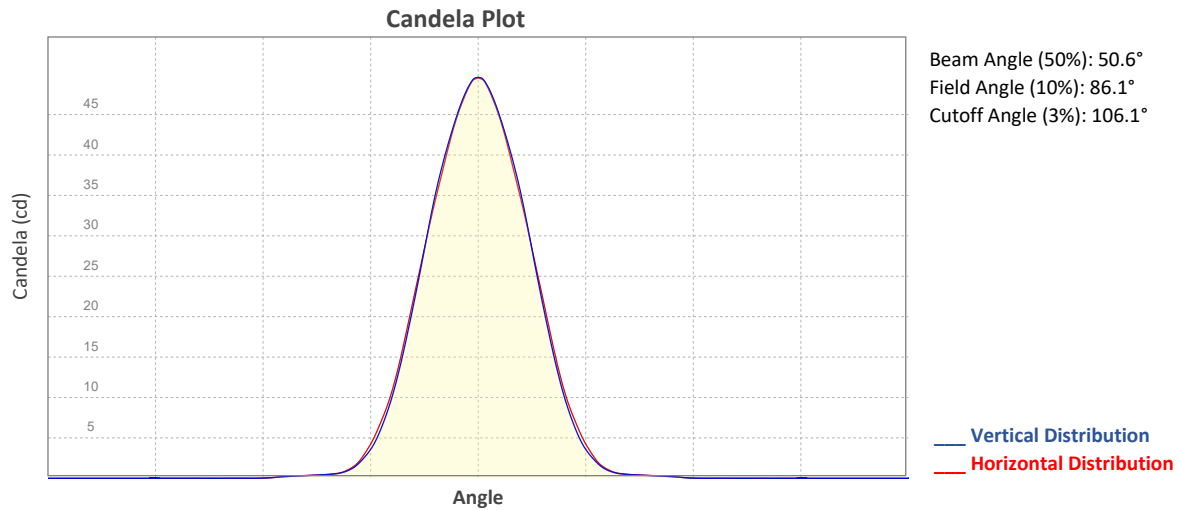
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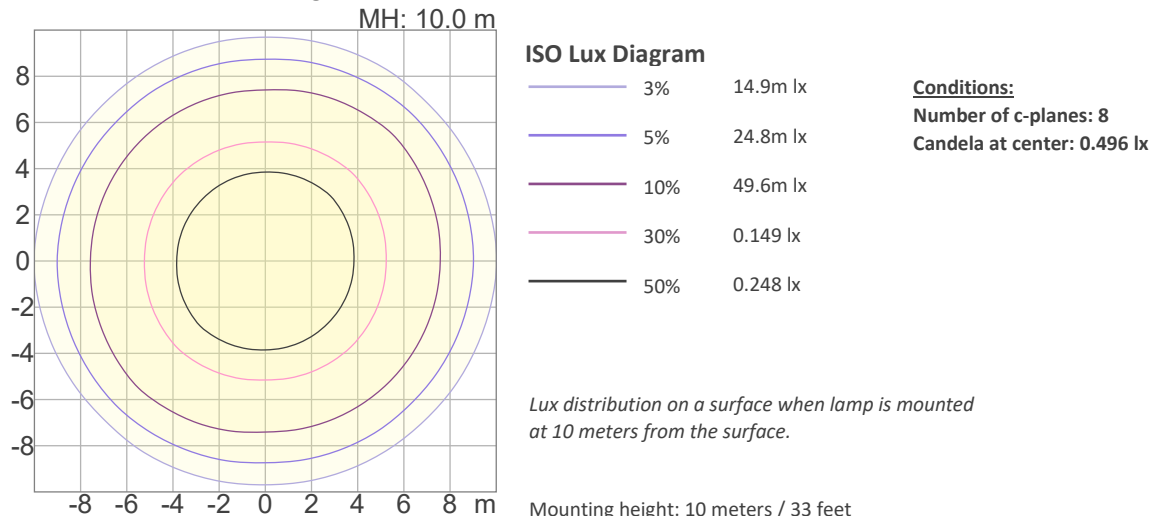
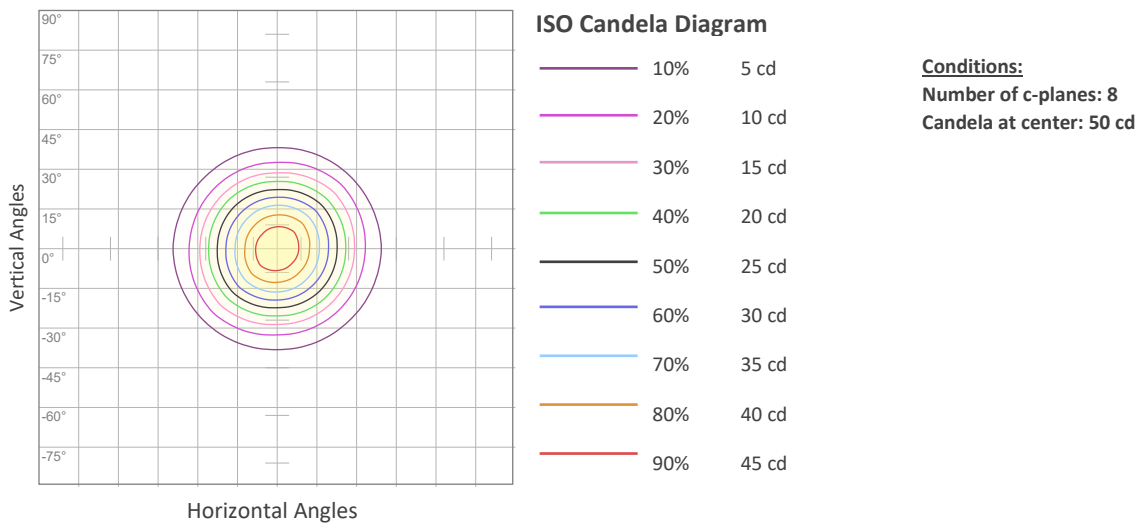
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - Warm White Only



## ISO Diagrams



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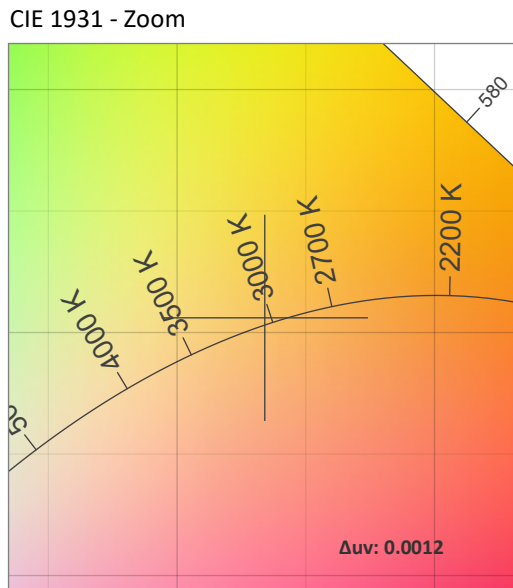
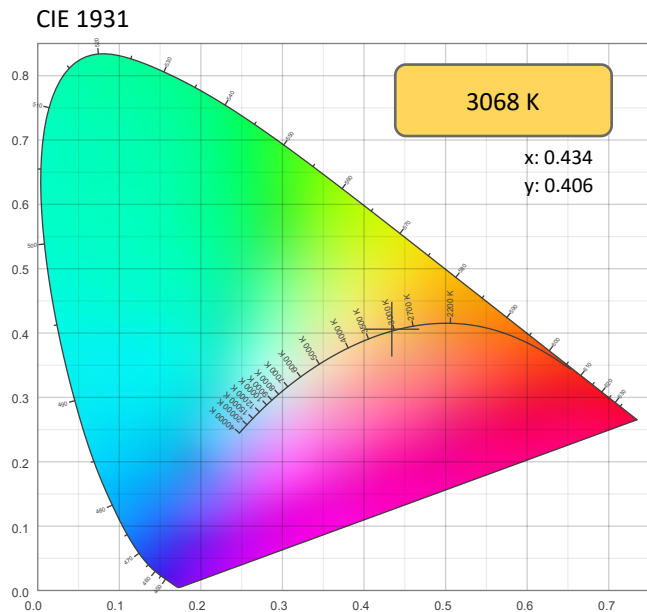
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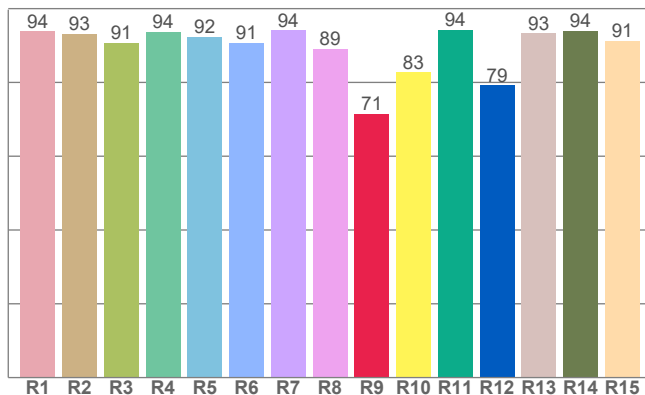
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - Warm White Only

## Chromaticity



CRI: 92.2 (R1-R8)

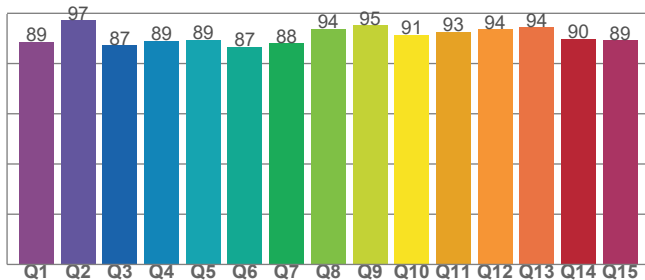


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3068 K	0.434	0.406

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0012	0.406	0.248

CQS: 90.5



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
92.2	71.5	90.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
90	90.8	102.7

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# Photometric & Chromaticity Report

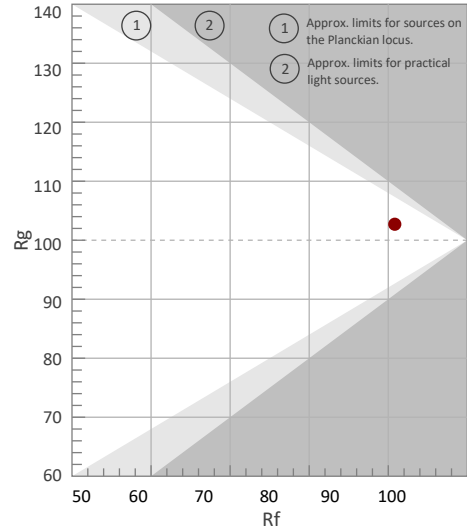
Logic MR16 Downlight S: Wide Filter Lens with Honeycomb - Warm White Only

## TM-30 Details

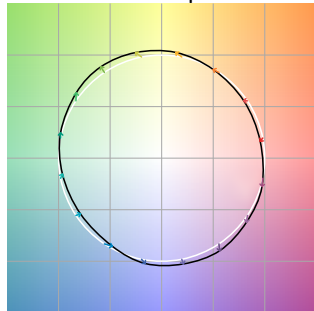
**Rf 90.8**  
Fidelity Index (Rg)

**Rg 102.7**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	-3%	-3%
2	94	-3%	2%
3	88	-1%	6%
4	88	3%	7%
5	91	5%	5%
6	90	6%	0%
7	88	4%	-7%
8	92	1%	-5%
9	93	-3%	-3%
10	91	-5%	1%
11	88	-2%	8%
12	91	3%	4%
13	93	5%	1%
14	91	6%	-3%
15	90	3%	-6%
16	90	1%	-8%



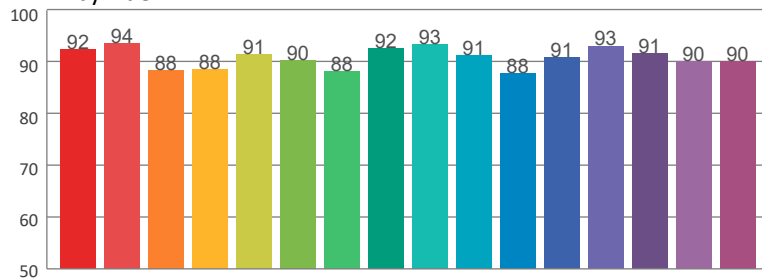
Color Vector Graphic



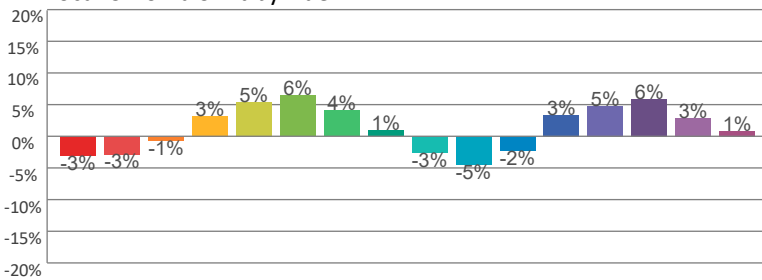
Color Distortion Graphic



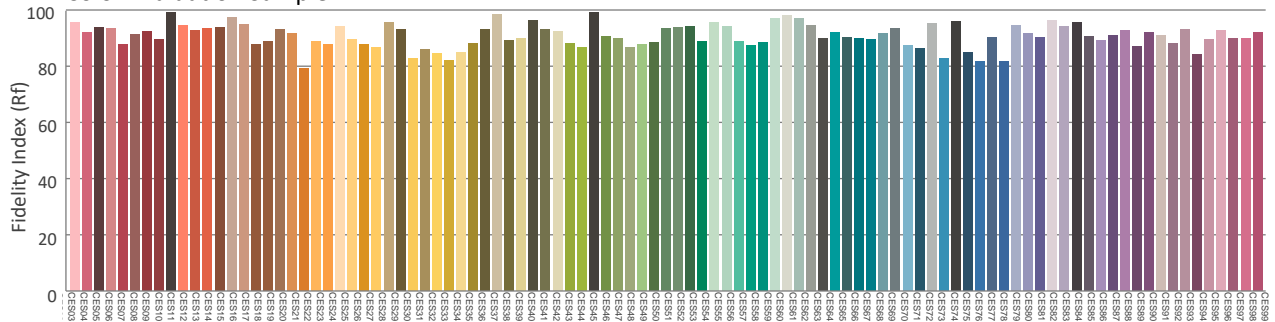
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - RGBW - Full Power

## Report Summary

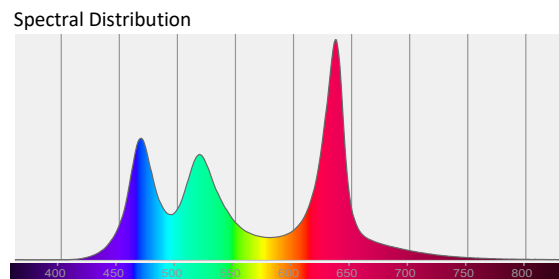
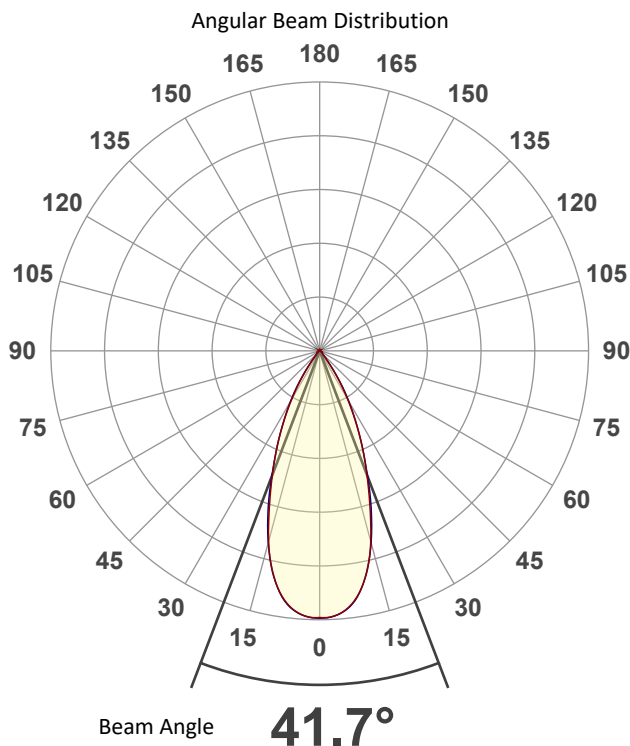
### Measurements

Fixture Output: 84.1 lm  
Fixture Peak: 153 cd  
Fixture Efficacy: 4 lm/W  
Intensity @ 5m: 6 lux  
Color Temperature: 5063 K  
CRI: 44.3      CRI R9 Value: -147.3  
CQS: 62.6  
TLCI: 27  
TM-30 Rf: 61.8  
TM-30 Rg: 106.2  
Beam Angle (50%): 41.7°  
Field Angle (10%): 69.5°  
Cutoff Angle (3%): 81.1°  
Conditions  
AC Supply: 119 V, 60 Hz  
Power: 23.01 W  
Current: 0.193 A  
Power Factor: 0.89



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/2/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.343  
Y: 0.346

Light Quality  
CRI: 44.3

Color Temperature  
5063 K

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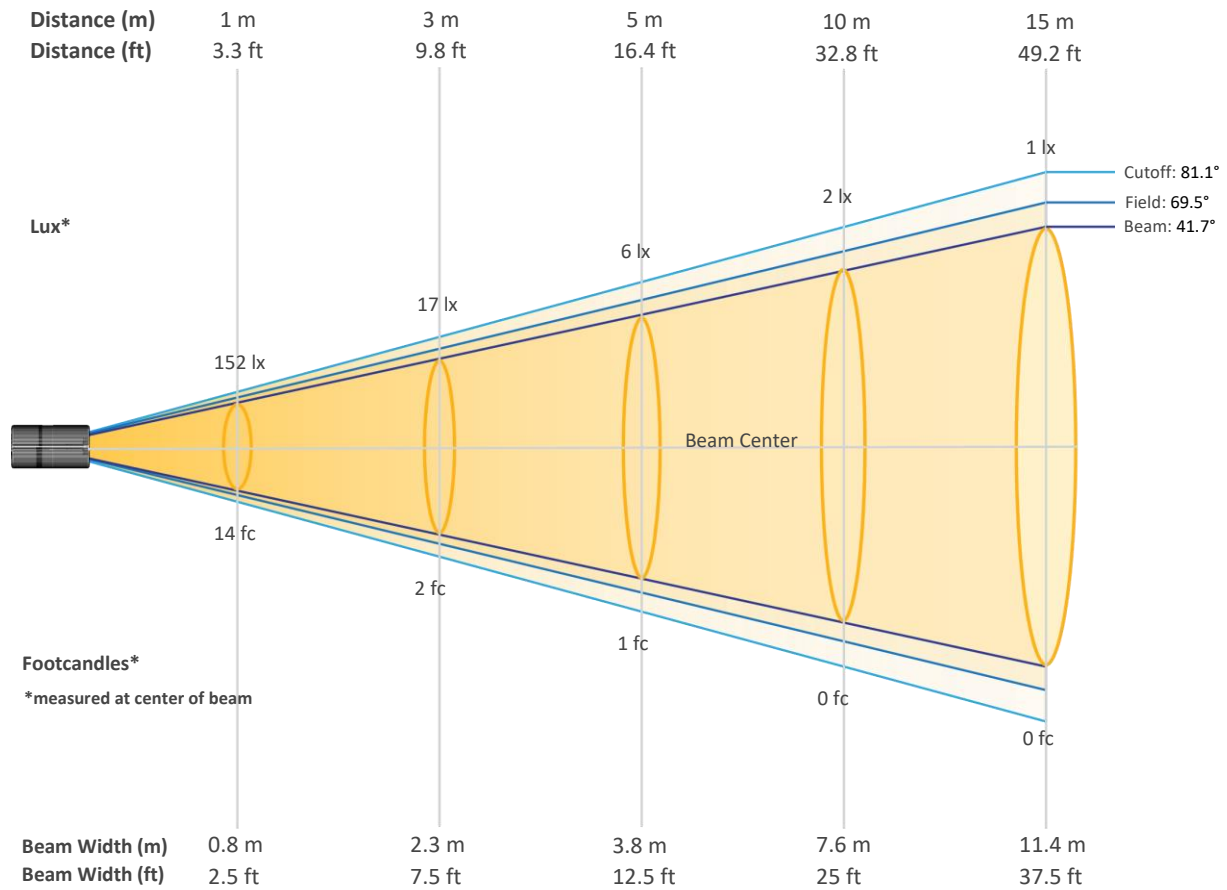
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - RGBW - Full Power

## Beam Details



### Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	152	38	17	10	6	4	3	2	2	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	1	1	1	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	14	4	2	1	1	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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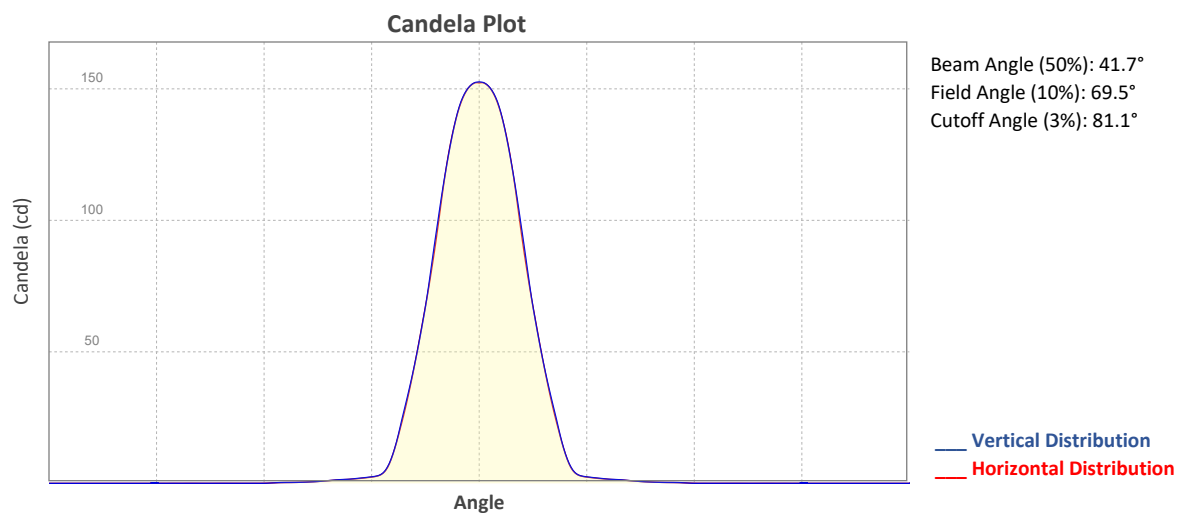
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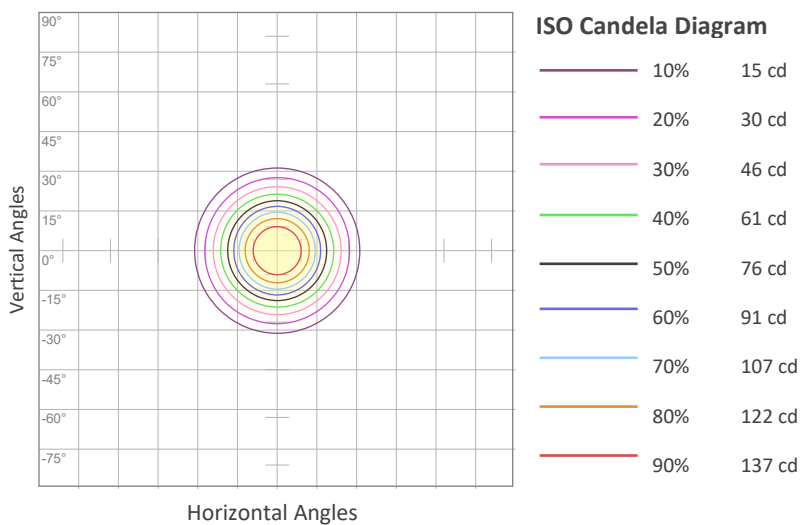
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# Photometric & Chromaticity Report

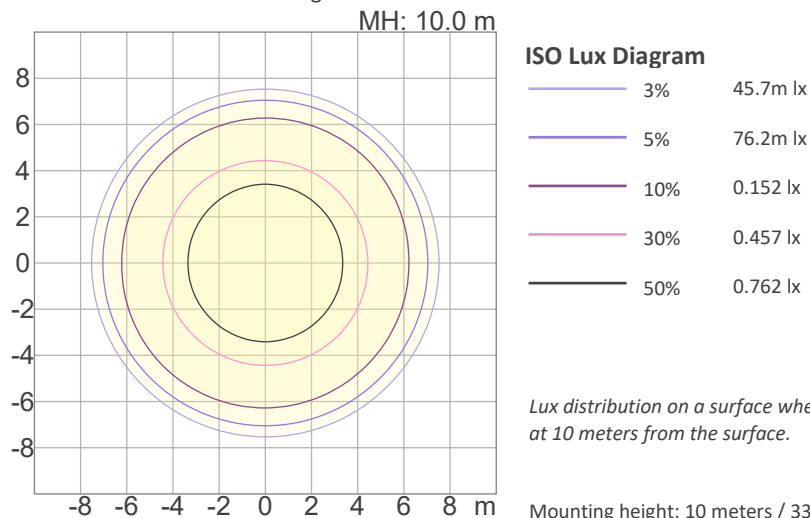
Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - RGBW - Full Power



## ISO Diagrams



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 152 cd



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 1.52 lx

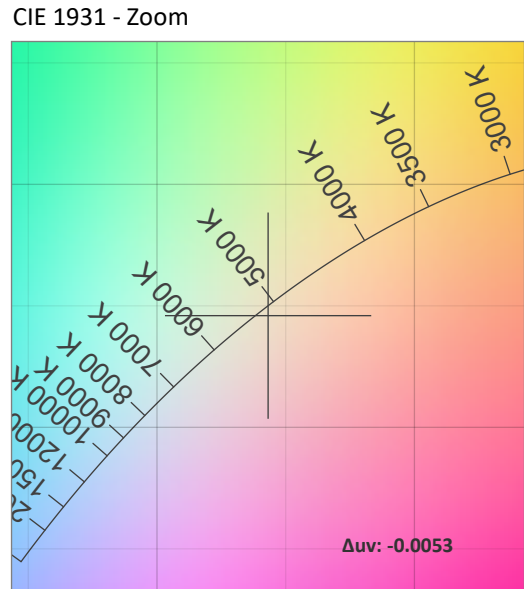
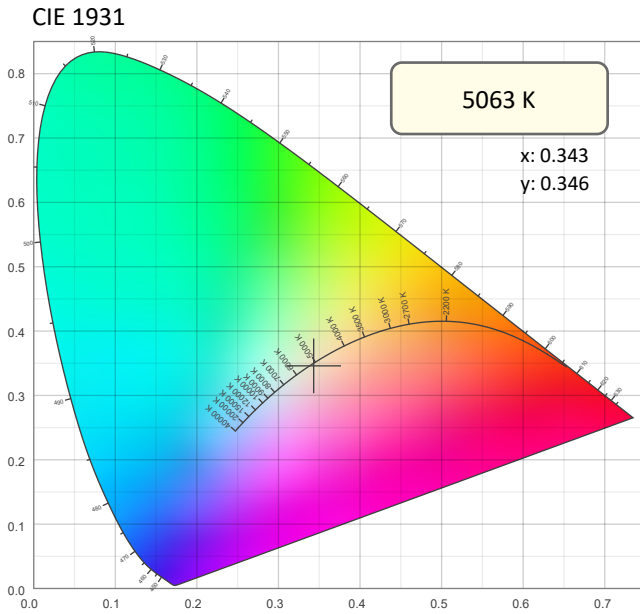
*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

Mounting height: 10 meters / 33 feet

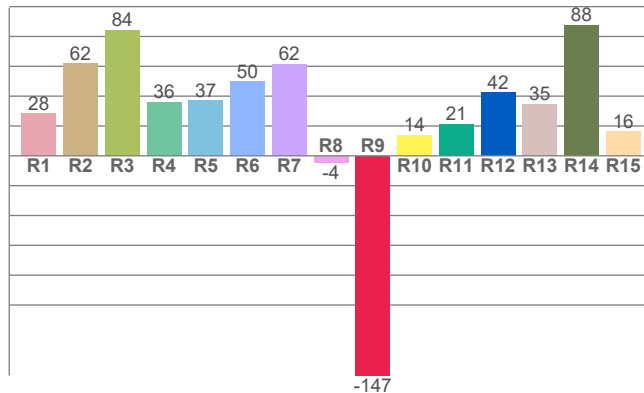
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - RGBW - Full Power

## Chromaticity



CRI: 44.3 (R1-R8)

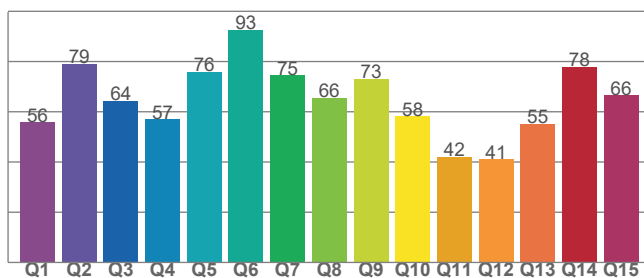


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5063 K	0.343	0.346

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0053	0.346	0.212

CQS: 62.6



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
44.3	-147.3	62.6

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
27	61.8	106.2

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# Photometric & Chromaticity Report

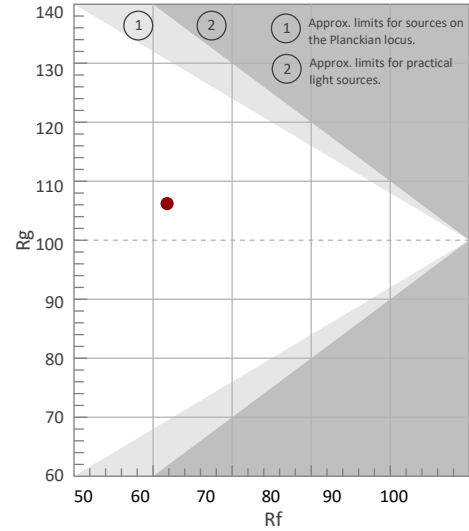
Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - RGBW - Full Power

## TM-30 Details

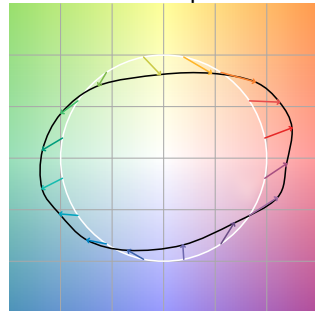
**Rf 61.8**  
Fidelity Index (Rg)

**Rg 106.2**  
Gammut Index (Rg)

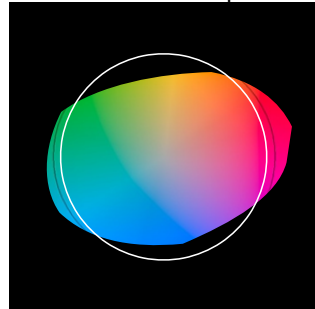
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	49	28%	5%
2	56	24%	-17%
3	38	11%	-32%
4	52	-10%	-29%
5	67	-20%	-13%
6	78	-6%	13%
7	68	7%	19%
8	64	17%	15%
9	69	21%	6%
10	67	14%	-11%
11	66	7%	-18%
12	73	-6%	-17%
13	76	-14%	2%
14	61	-10%	22%
15	58	13%	29%
16	56	18%	18%



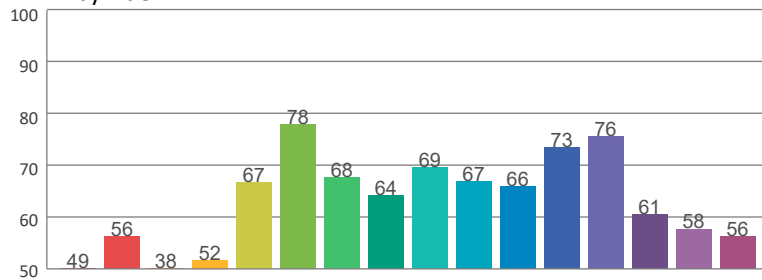
Color Vector Graphic



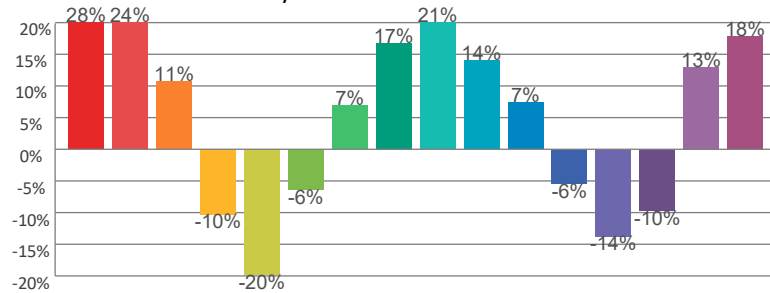
Color Distortion Graphic



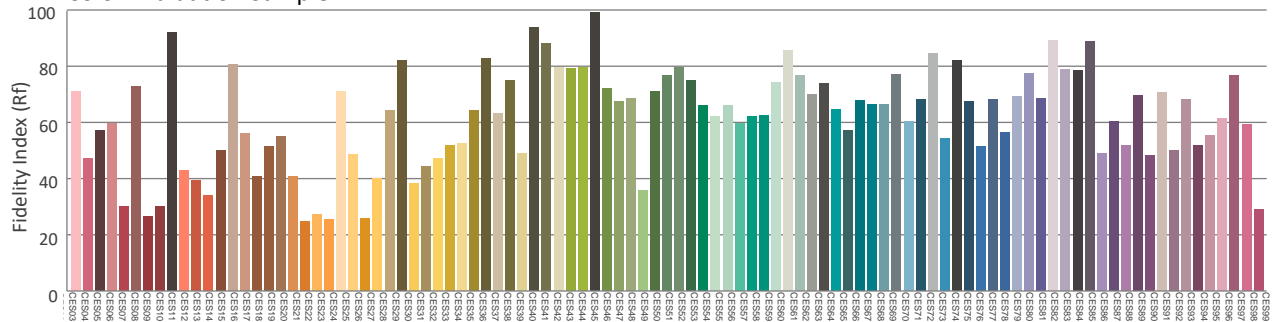
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - Red Only

## Report Summary

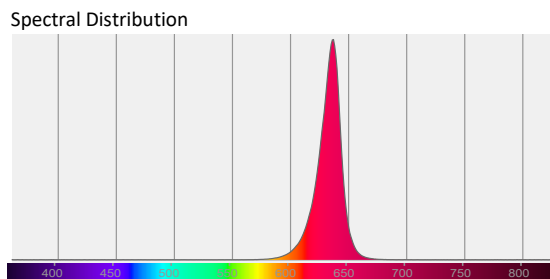
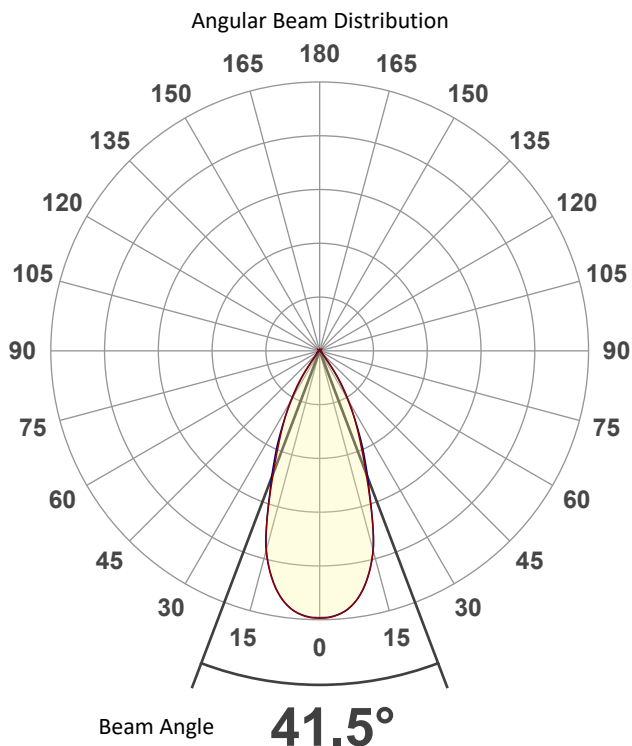
### Measurements

Fixture Output: 23.1 lm  
Fixture Peak: 41.2 cd  
Fixture Efficacy: 2 lm/W  
Intensity @ 5m: 2 lux  
Color Temperature: 0 K  
CRI: 0.0      CRI R9 Value: 0.0  
CQS: 0.0  
TLCl: n/a  
TM-30 Rf: 0.0  
TM-30 Rg: 0.0  
Beam Angle (50%): 41.5°  
Field Angle (10%): 69.8°  
Cutoff Angle (3%): 80.5°  
Conditions  
AC Supply: 121 V, 60 Hz  
Power: 17.04 W  
Current: 0.141 A  
Power Factor: 0.81



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/2/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):

X: 0.699

Y: 0.300



Light Quality

CRI: 0.0

Color Temperature

0 K

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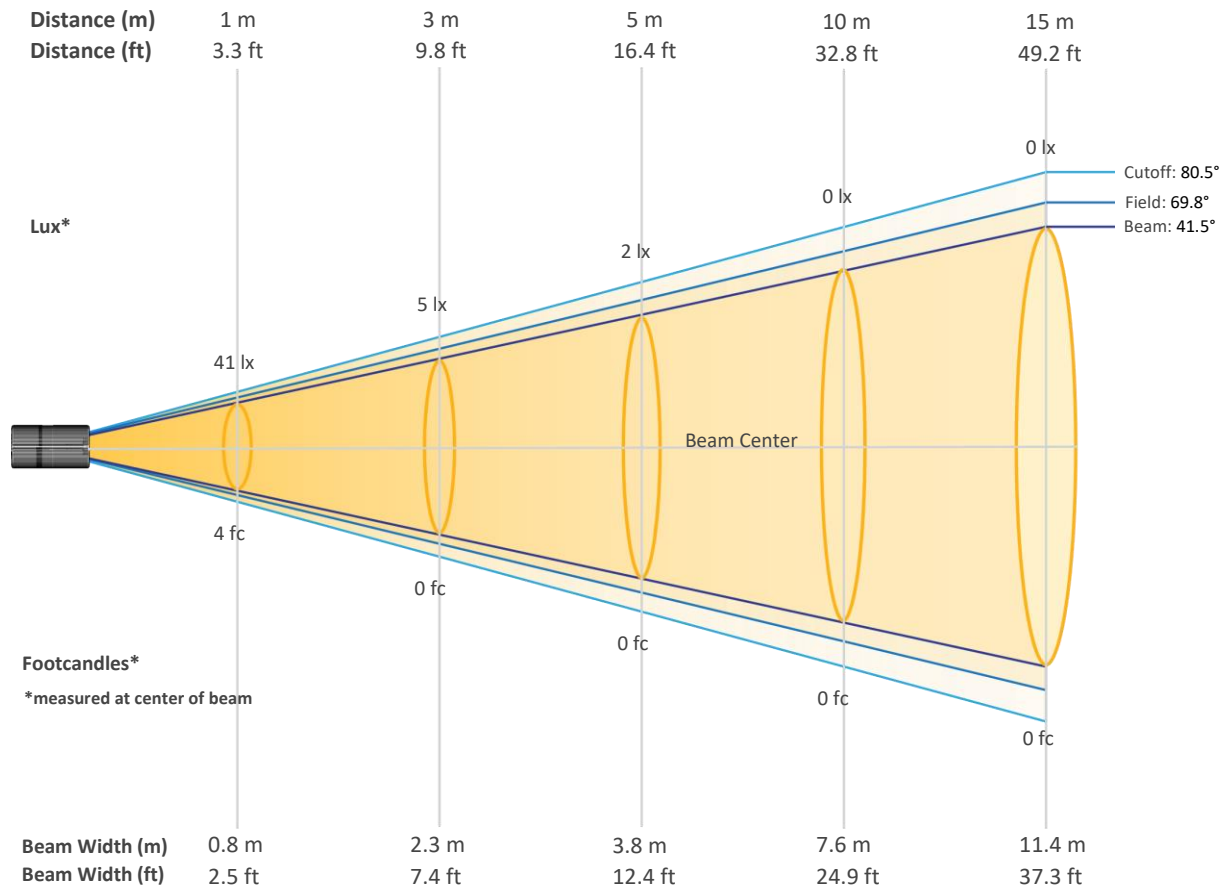
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - Red Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	41	10	5	3	2	1	1	1	1	0
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	0	0	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	4	1	0	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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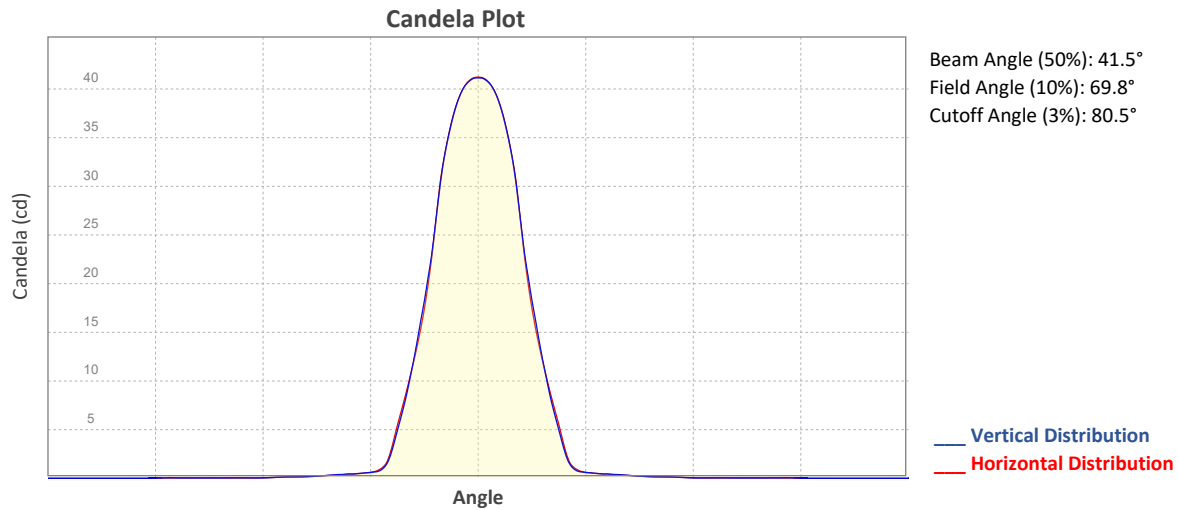
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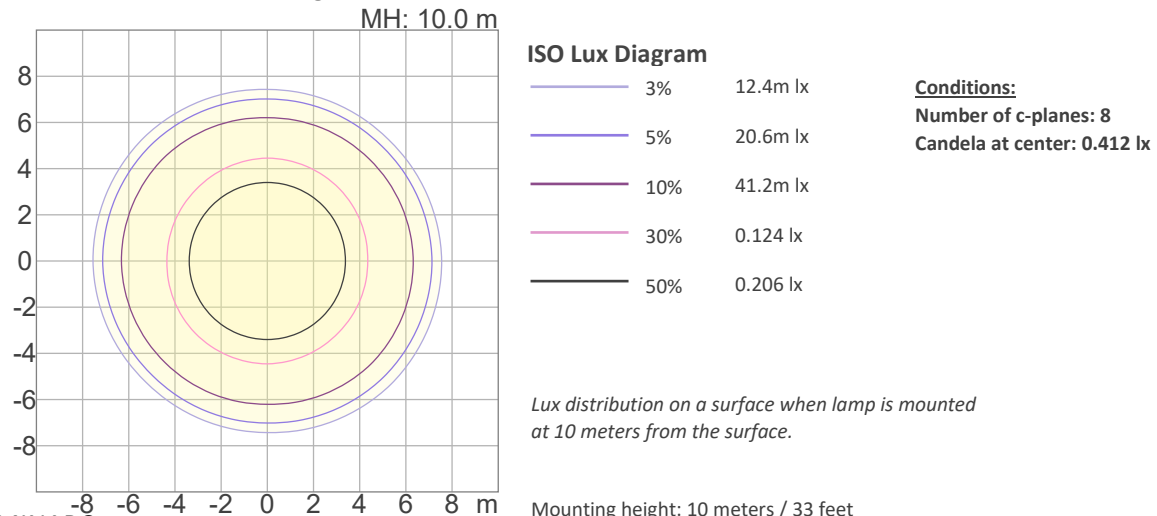
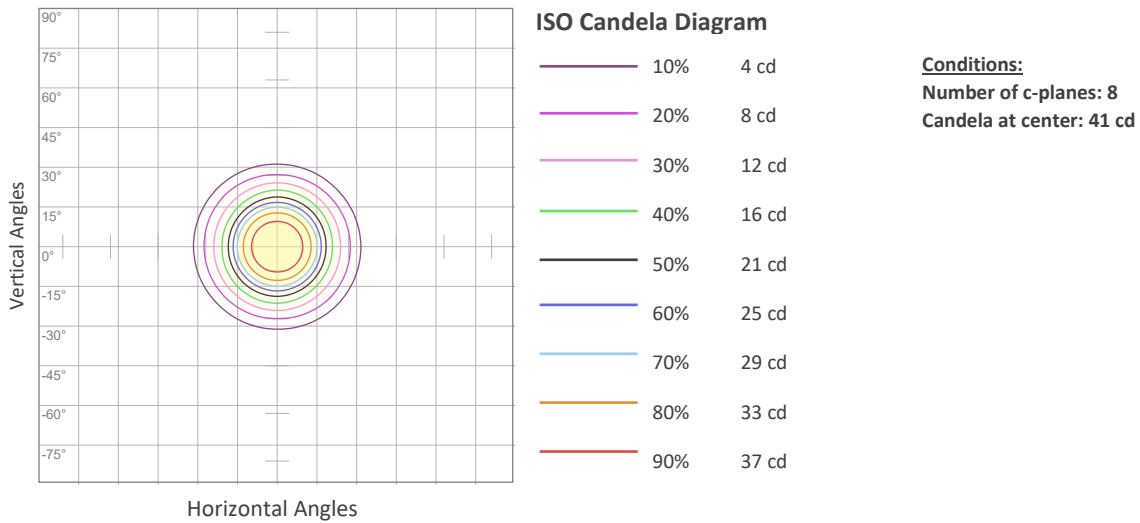
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - Red Only



## ISO Diagrams



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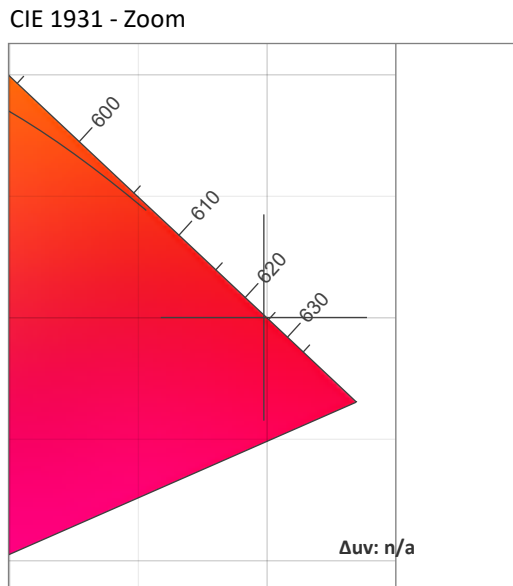
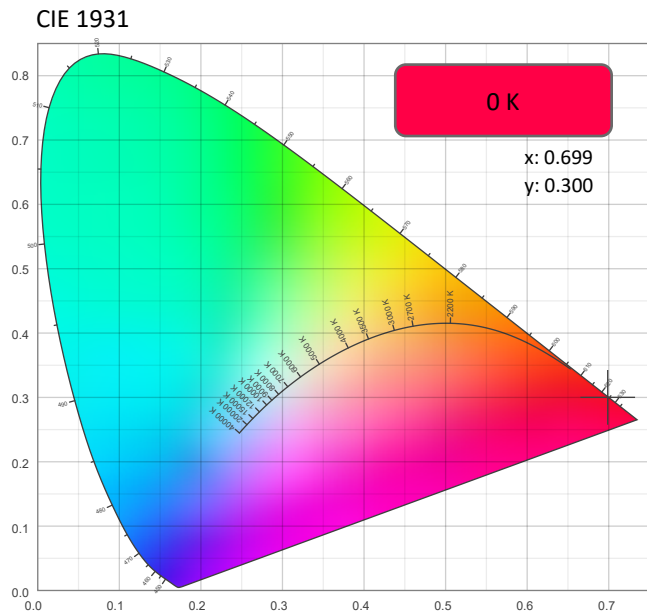
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - Red Only

## Chromaticity



### CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

### CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.699	0.300

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
n/a	0.300	0.537

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

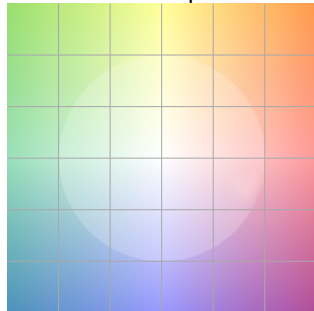
Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - Red Only

## TM-30 Details

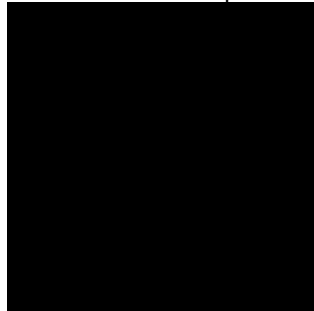
**Rf 0.0**  
Fidelity Index (Rg)

**Rg 0.0**  
Gammut Index (Rg)

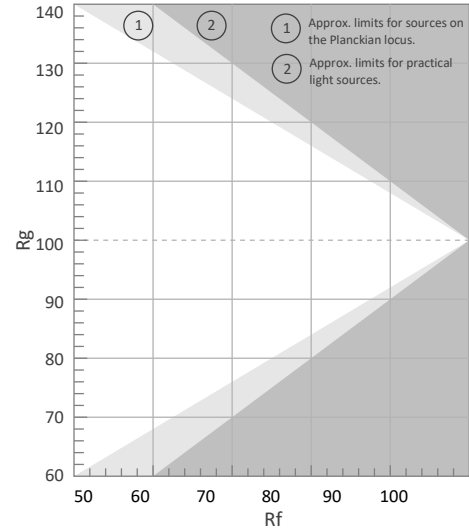
Color Vector Graphic



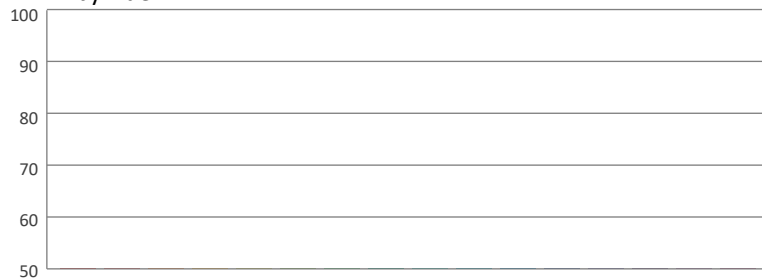
Color Distortion Graphic



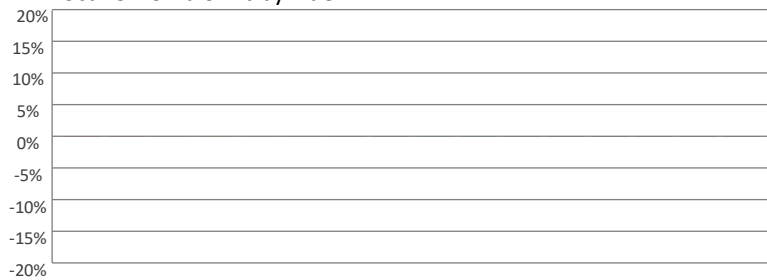
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



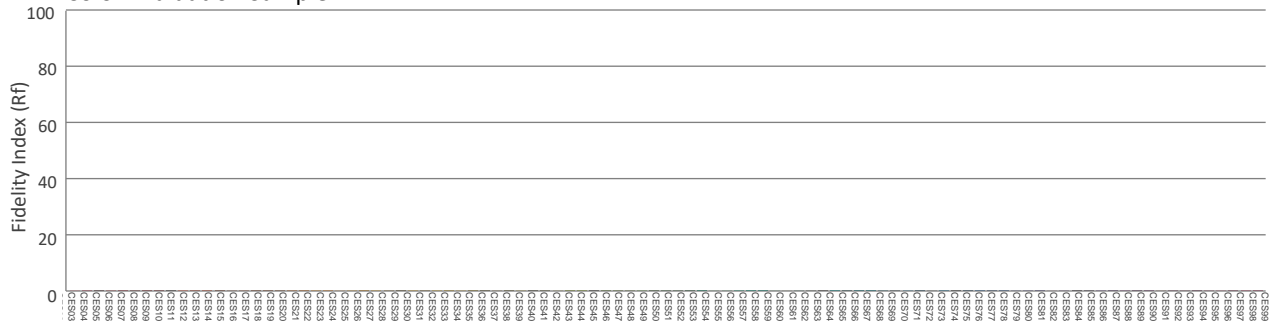
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - Green Only

## Report Summary

### Measurements

Fixture Output: 39.0 lm

Fixture Peak: 71.0 cd

Fixture Efficacy: 3 lm/W

Intensity @ 5m: 3 lux

Color Temperature: 0 K

CRI: 0.0      CRI R9 Value: 0.0

CQS: 0.0

TLCl: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 41.1°

Field Angle (10%): 69.9°

Cutoff Angle (3%): 81.4°

### Conditions

AC Supply: 121 V, 60 Hz

Power: 17.66 W

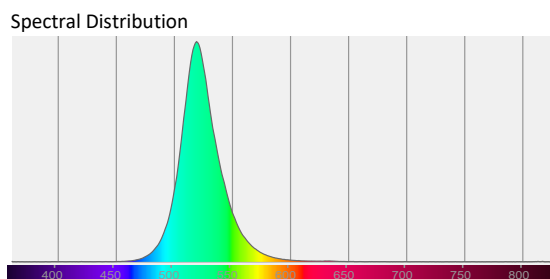
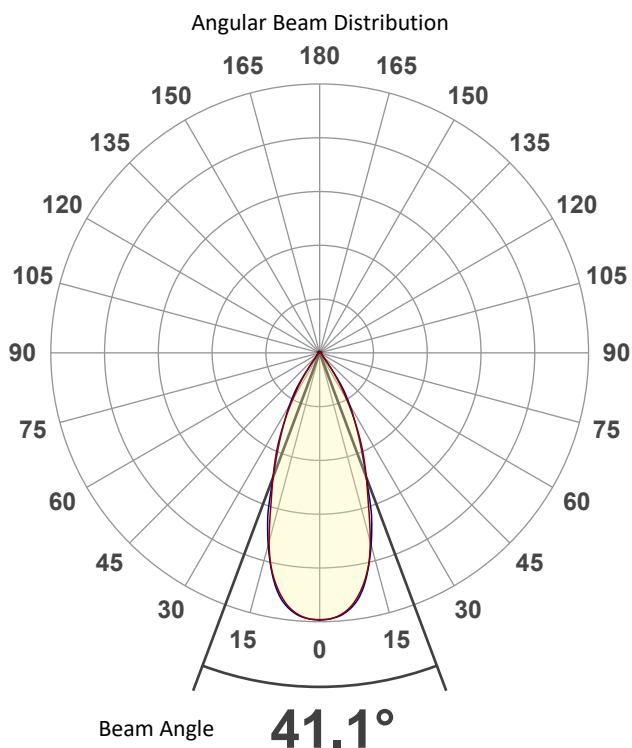
Current: 0.146 A

Power Factor: 0.82



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/2/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):

X: 0.160

Y: 0.721



Light Quality

CRI: 0.0

Color Temperature

0 K

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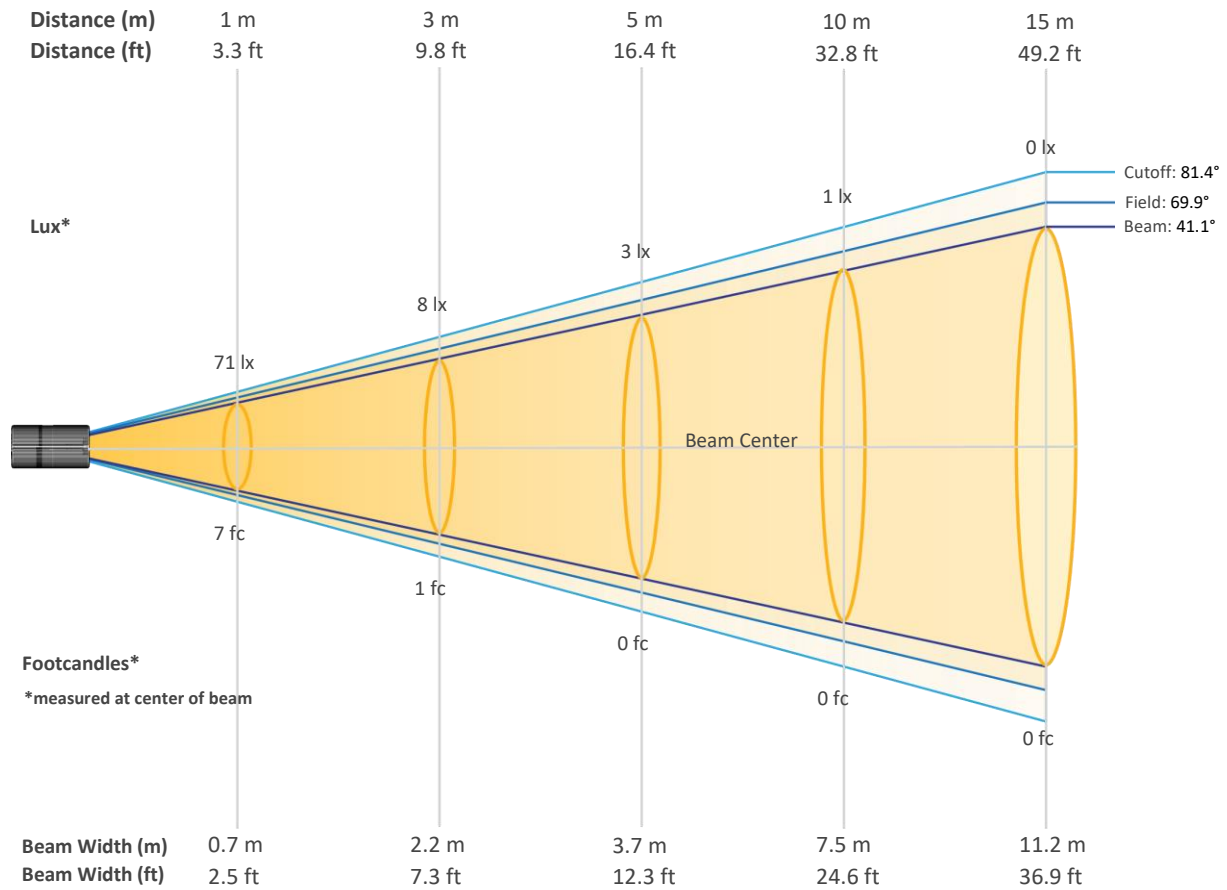
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - Green Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	71	18	8	4	3	2	1	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	0	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	7	2	1	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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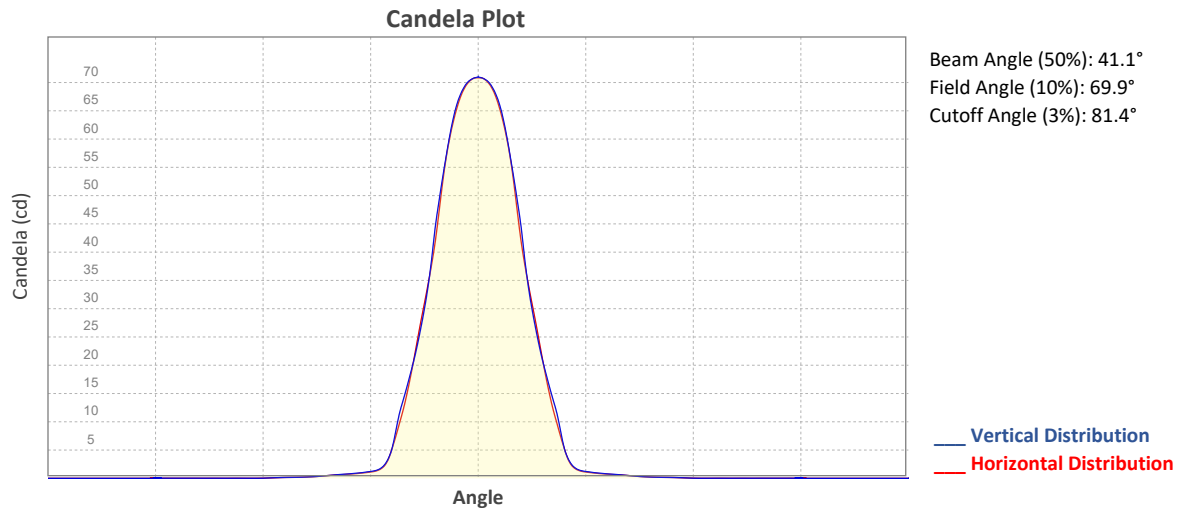
All product specifications, measurements and dimensions are subject to change without notice

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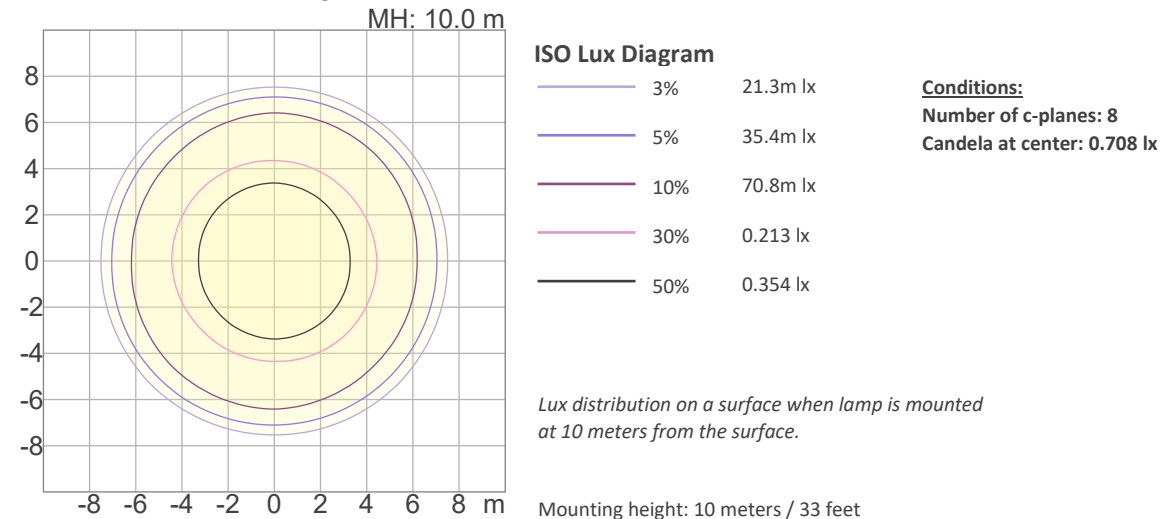
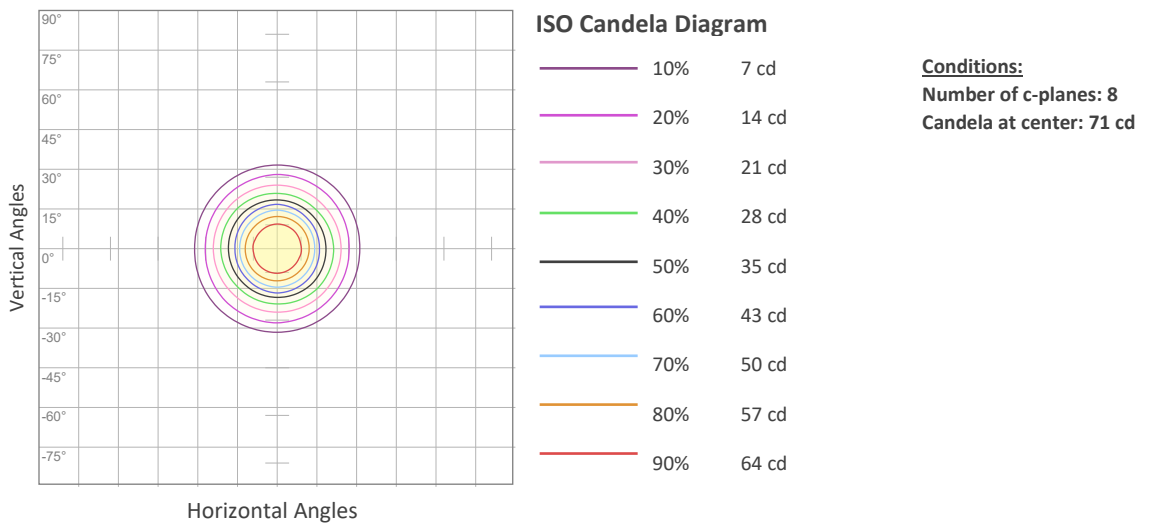


# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - Green Only



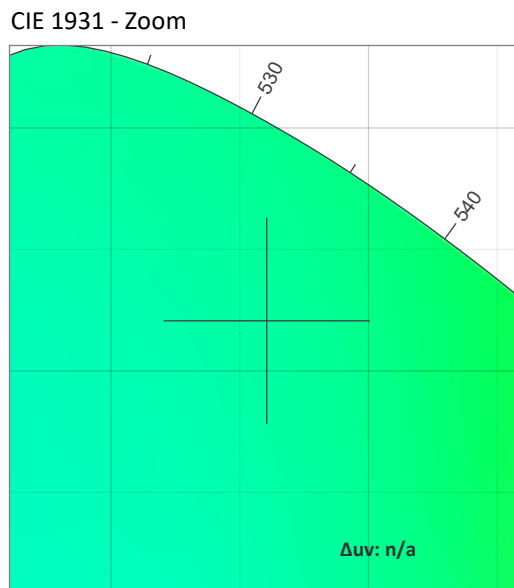
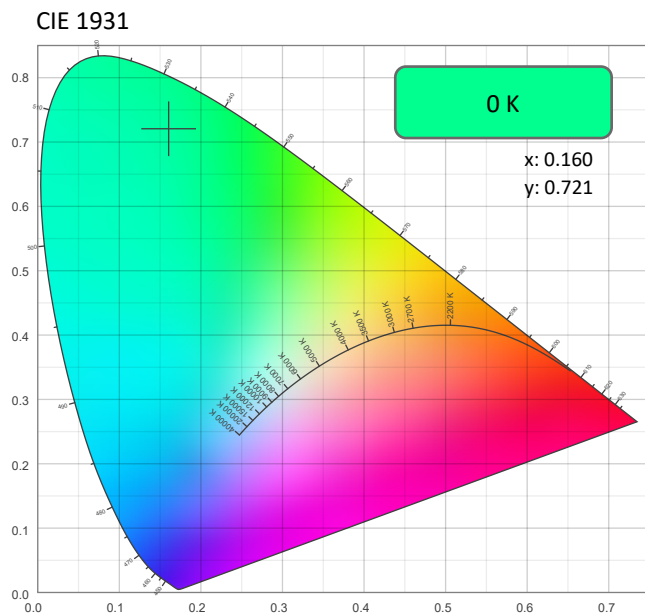
## ISO Diagrams



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - Green Only

## Chromaticity



### CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

### CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.160	0.721

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
n/a	0.721	0.057

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

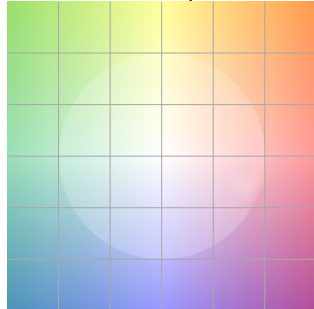
Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - Green Only

## TM-30 Details

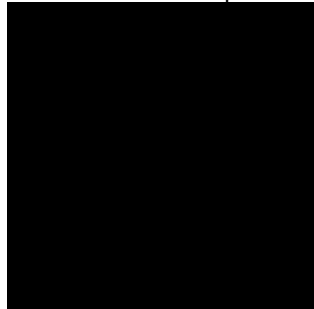
**Rf 0.0**  
Fidelity Index  
(Rg)

**Rg 0.0**  
Gammut Index (Rg)

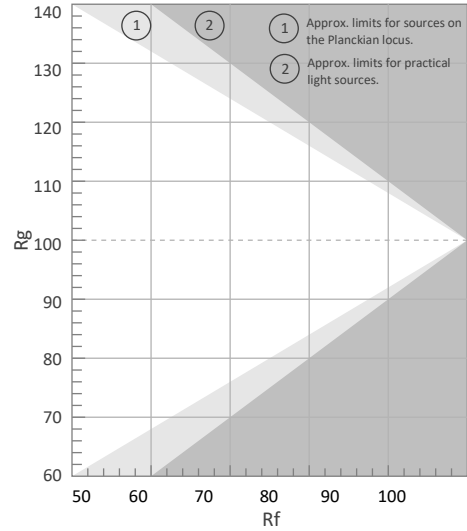
Color Vector Graphic



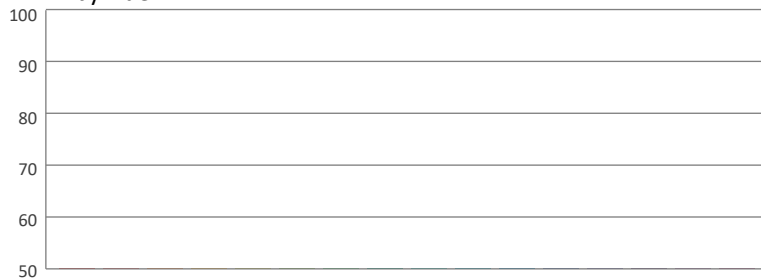
Color Distortion Graphic



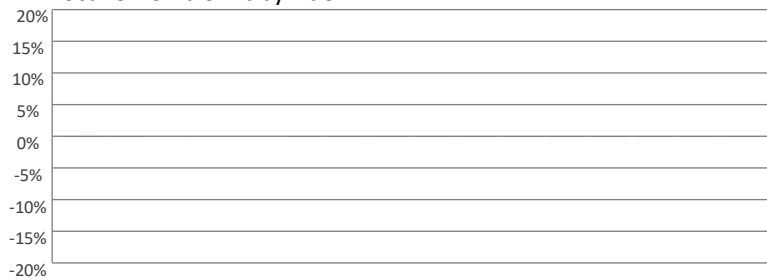
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



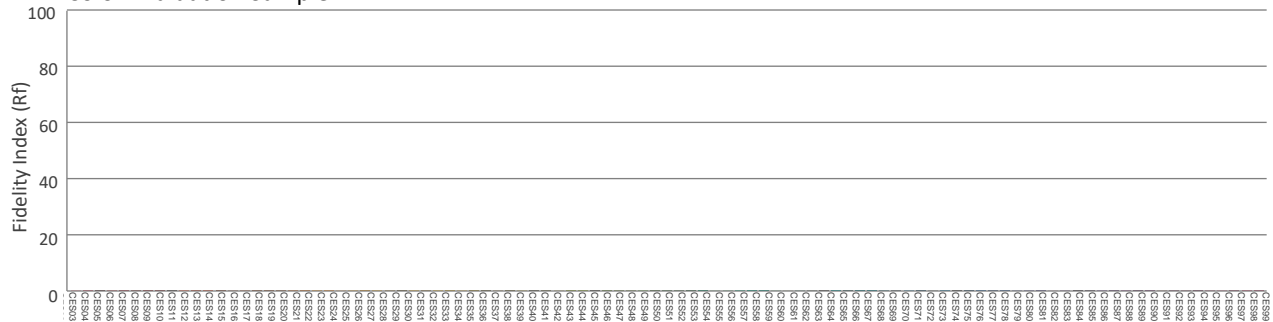
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - Blue Only

## Report Summary

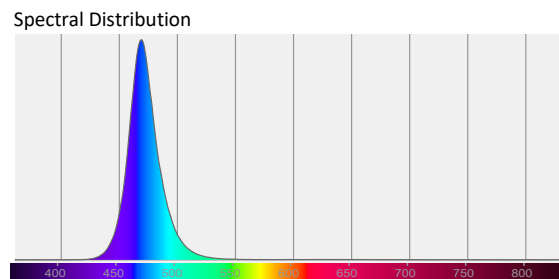
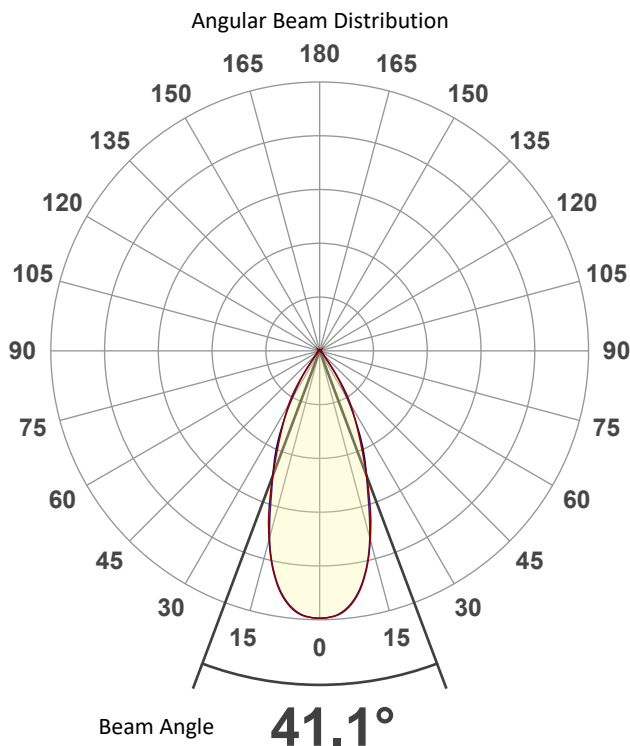
### Measurements

Fixture Output: 11.6 lm  
Fixture Peak: 20.4 cd  
Fixture Efficacy: 1 lm/W  
Intensity @ 5m: 1 lux  
Color Temperature: 0 K  
CRI: 0.0      CRI R9 Value: 0.0  
CQS: 0.0  
TLCl: n/a  
TM-30 Rf: 0.0  
TM-30 Rg: 0.0  
Beam Angle (50%): 41.1°  
Field Angle (10%): 70.1°  
Cutoff Angle (3%): 83.5°  
Conditions  
AC Supply: 121 V, 60 Hz  
Power: 17.55 W  
Current: 0.145 A  
Power Factor: 0.82



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/2/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.126  
Y: 0.085



Light Quality  
CRI: 0.0

Color Temperature  
0 K

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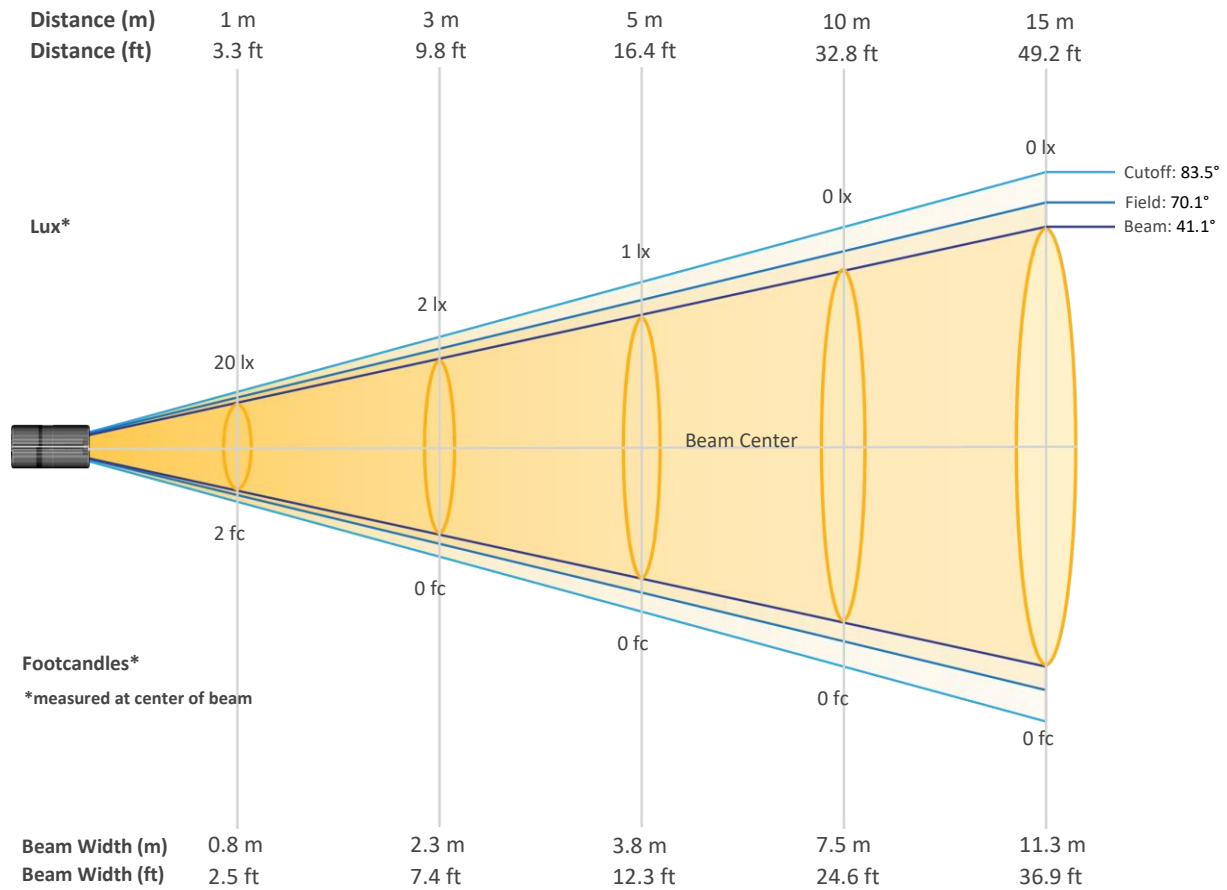
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - Blue Only

## Beam Details



### Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	20	5	2	1	1	1	0	0	0	0
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	0	0	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	2	0	0	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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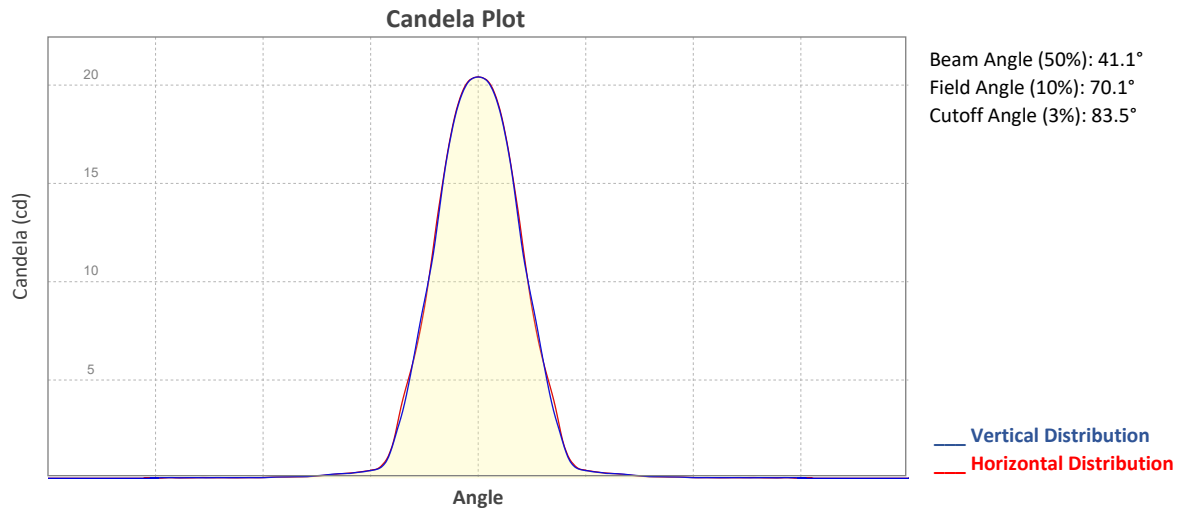
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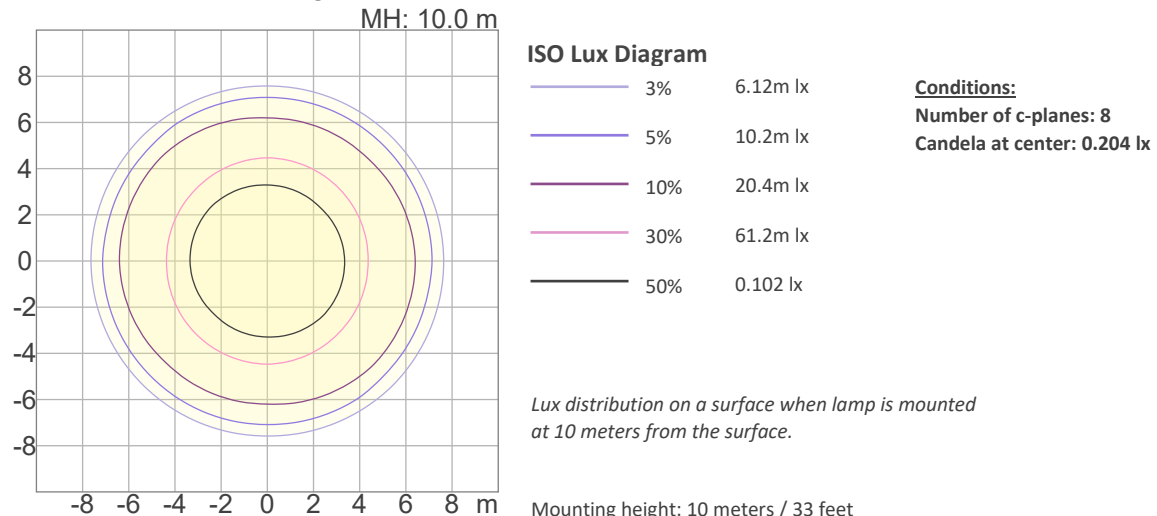
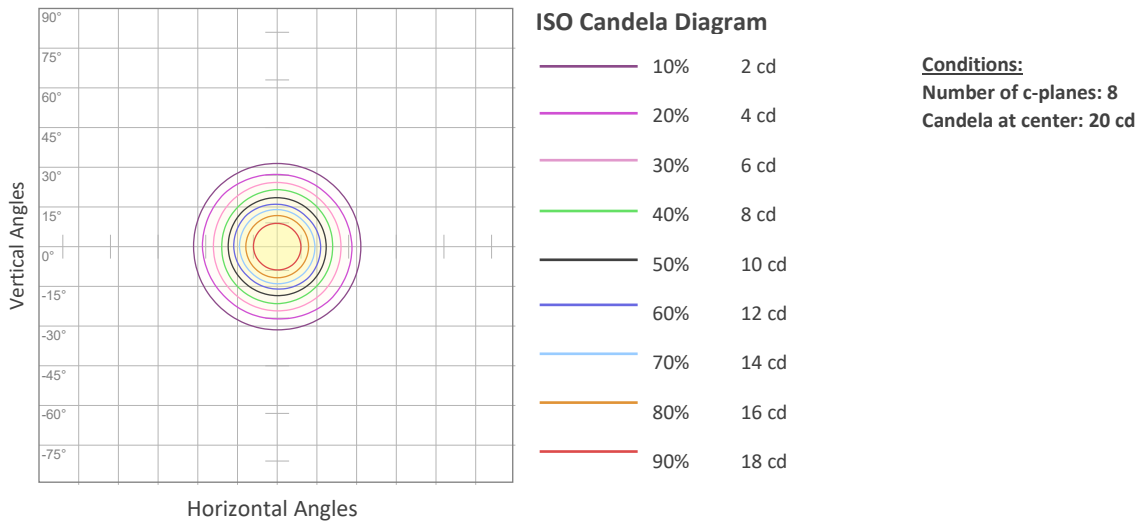
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - Blue Only



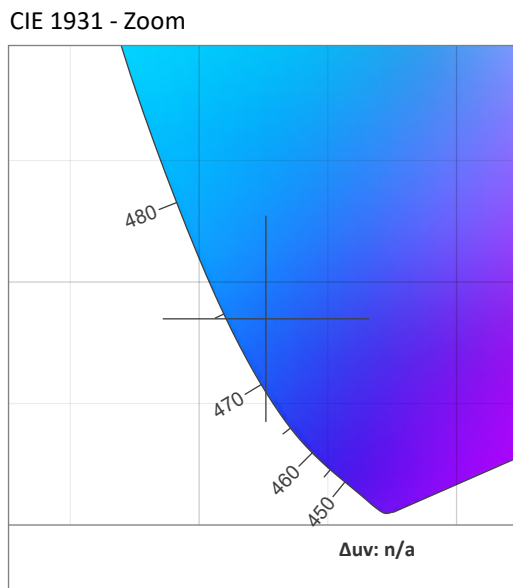
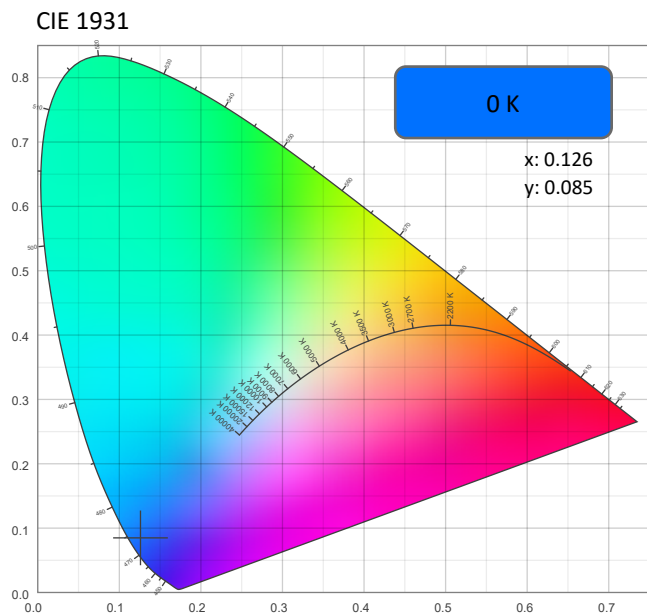
## ISO Diagrams



# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - Blue Only

## Chromaticity



CRI: 0.0 (R1-R8)

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CQS: 0.0

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.126	0.085

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.085	0.134

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

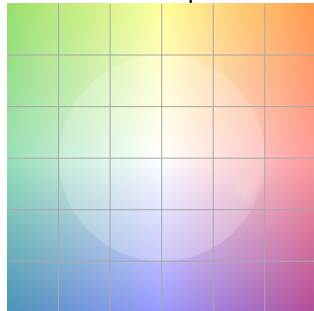
Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - Blue Only

## TM-30 Details

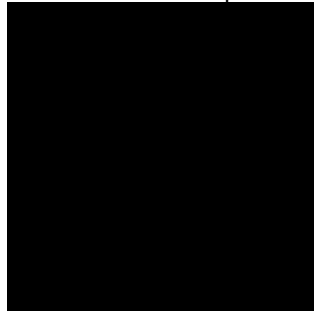
**Rf 0.0**  
Fidelity Index (Rg)

**Rg 0.0**  
Gammut Index (Rg)

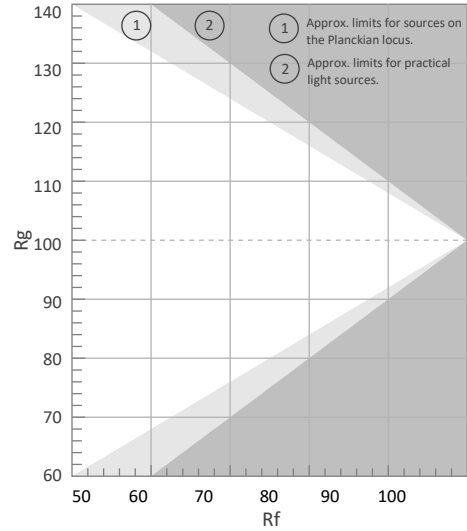
Color Vector Graphic



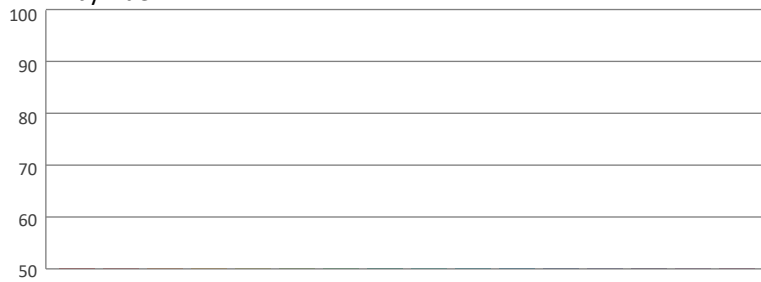
Color Distortion Graphic



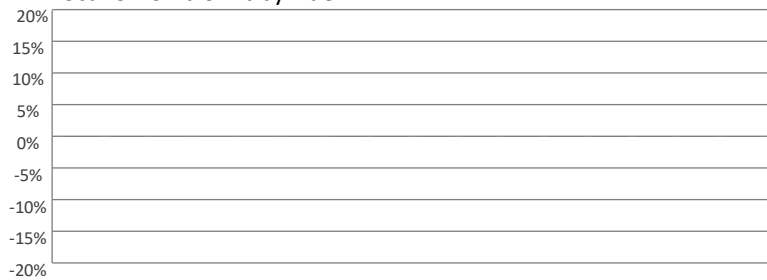
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



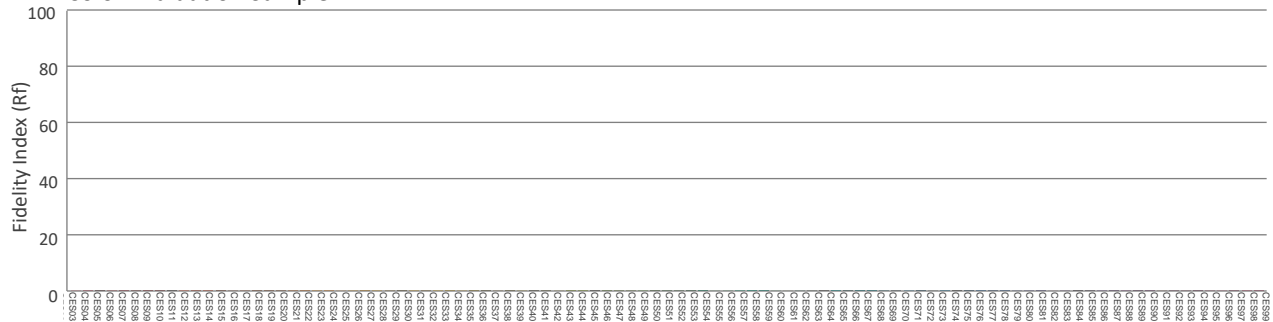
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample





# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - Warm White Only

## Report Summary

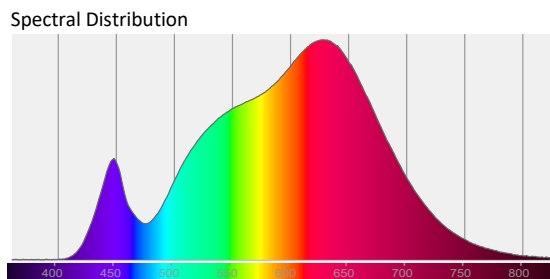
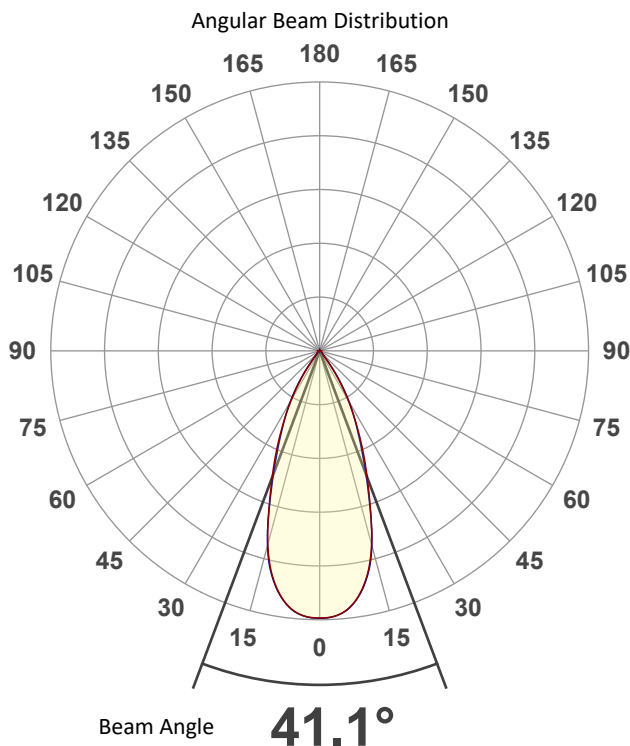
### Measurements

Fixture Output: 31.1 lm  
Fixture Peak: 56.4 cd  
Fixture Efficacy: 2 lm/W  
Intensity @ 5m: 2 lux  
Color Temperature: 3067 K  
CRI: 92.3      CRI R9 Value: 71.6  
CQS: 90.5  
TLCI: 90  
TM-30 Rf: 90.9  
TM-30 Rg: 102.7  
Beam Angle (50%): 41.1°  
Field Angle (10%): 70.1°  
Cutoff Angle (3%): 81.2°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 17.33 W  
Current: 0.144 A  
Power Factor: 0.81



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/2/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.434  
Y: 0.406

Light Quality  
CRI: 92.3

Color Temperature  
3067 K

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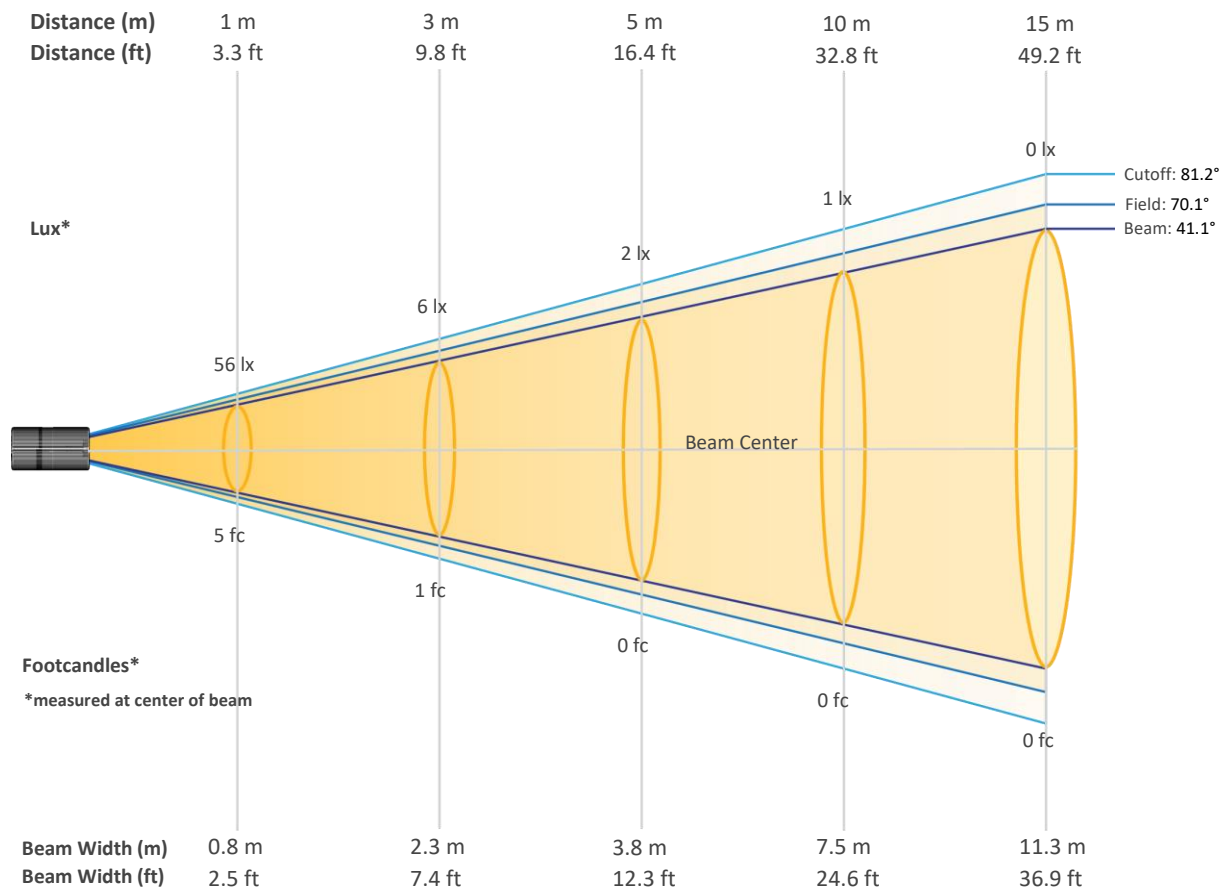
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - Warm White Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	56	14	6	4	2	2	1	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	0	0	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	5	1	1	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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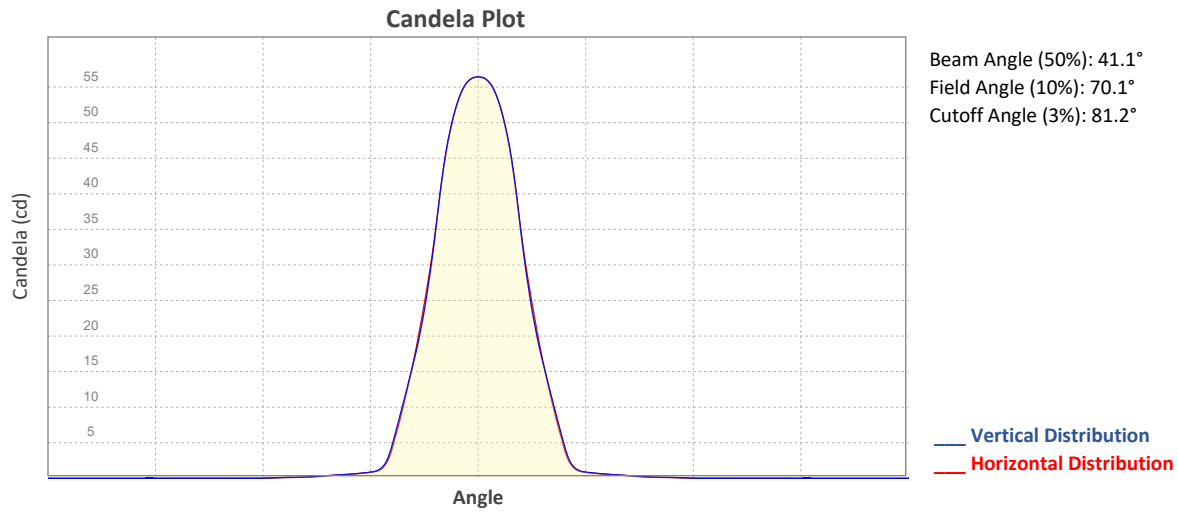
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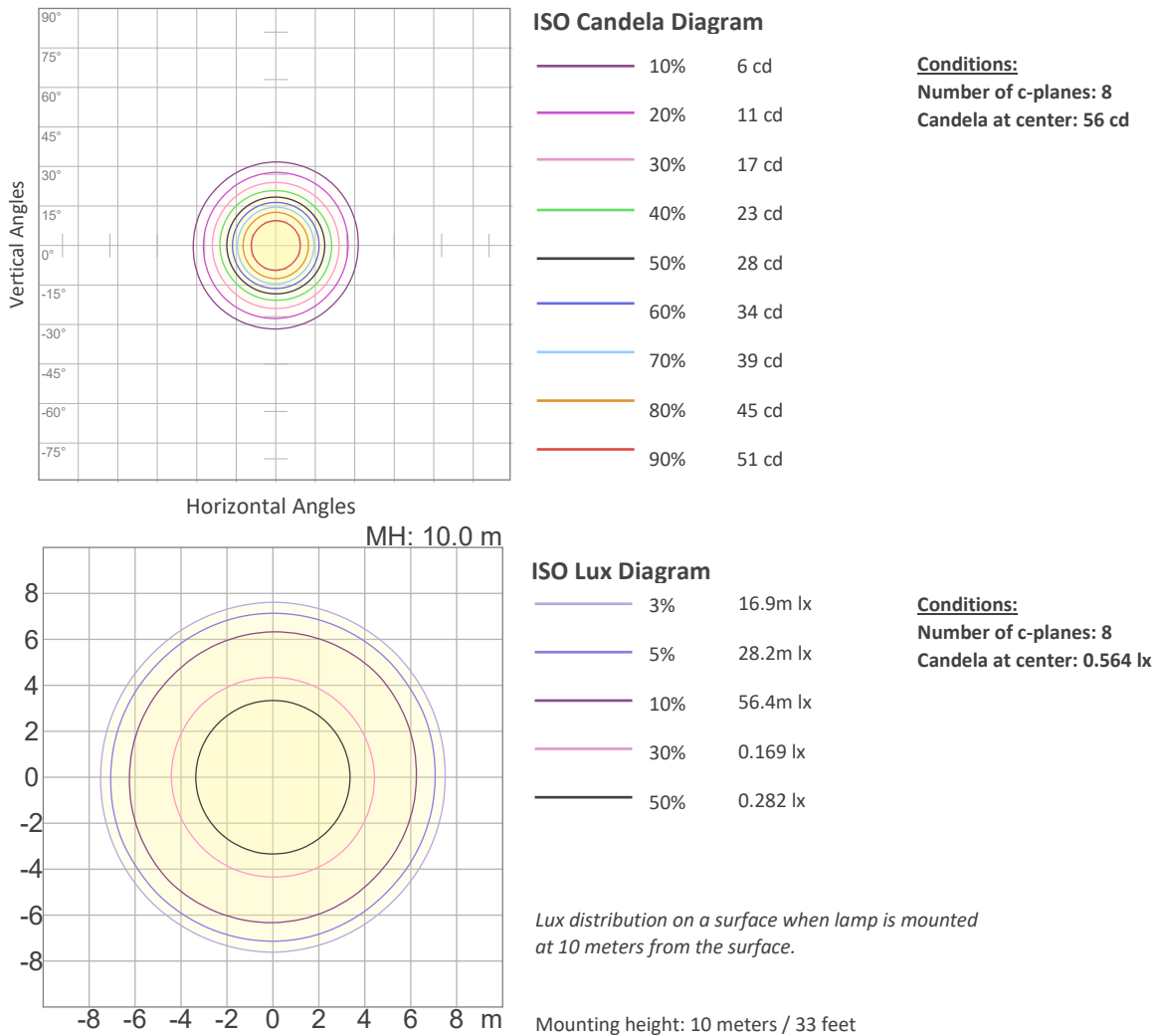
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# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - Warm White Only



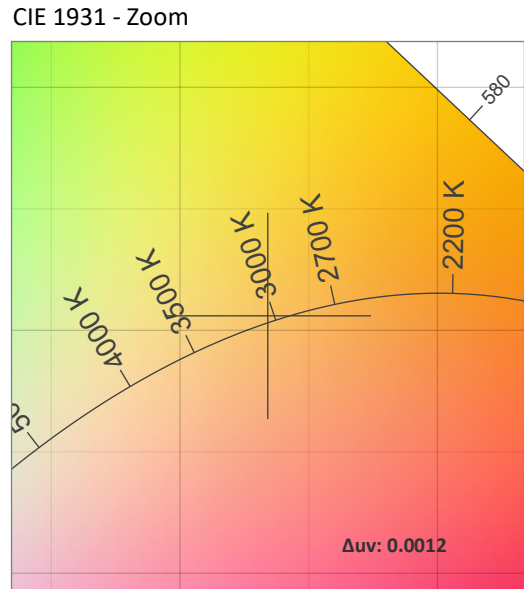
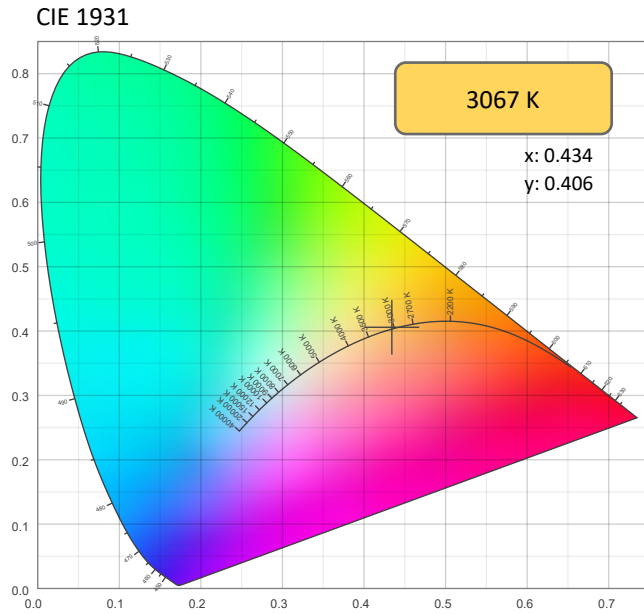
## ISO Diagrams



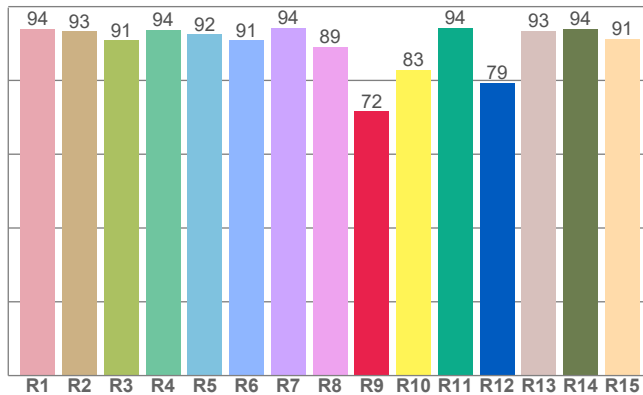
# Photometric & Chromaticity Report

Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - Warm White Only

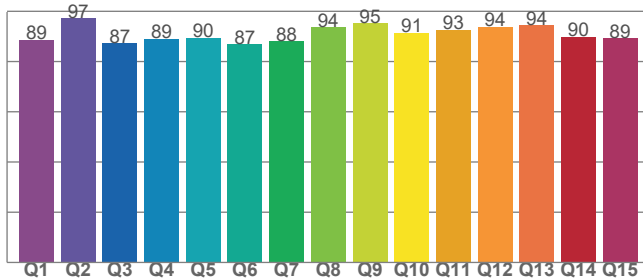
## Chromaticity



CRI: 92.3 (R1-R8)



CQS: 90.5



## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3067 K	0.434	0.406

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0012	0.406	0.248

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
92.3	71.6	90.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
90	90.9	102.7

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# Photometric & Chromaticity Report

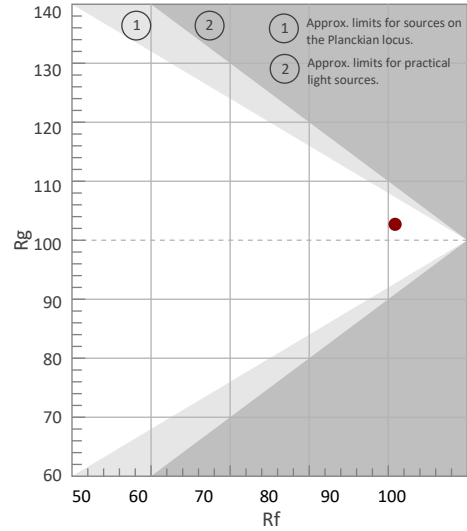
Logic MR16 Downlight S: Wide Filter Lens with Trim Kit - Warm White Only

## TM-30 Details

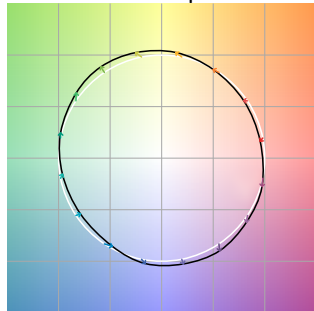
**Rf 90.9**  
Fidelity Index (Rg)

**Rg 102.7**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	-3%	-2%
2	94	-3%	2%
3	88	-1%	6%
4	89	3%	7%
5	91	5%	5%
6	90	6%	0%
7	88	4%	-6%
8	93	1%	-5%
9	93	-3%	-3%
10	91	-4%	1%
11	88	-2%	8%
12	91	3%	4%
13	93	5%	1%
14	91	6%	-3%
15	90	3%	-6%
16	90	1%	-8%



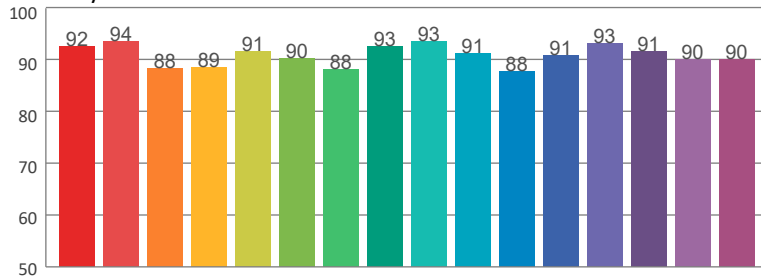
Color Vector Graphic



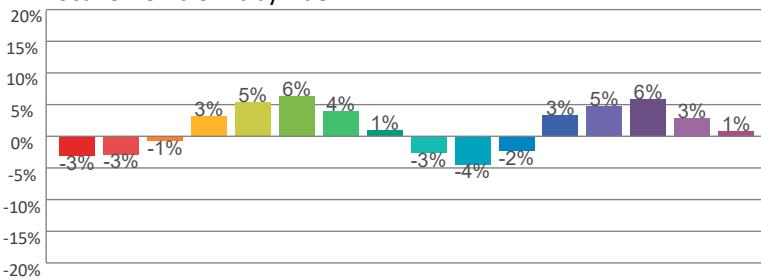
Color Distortion Graphic



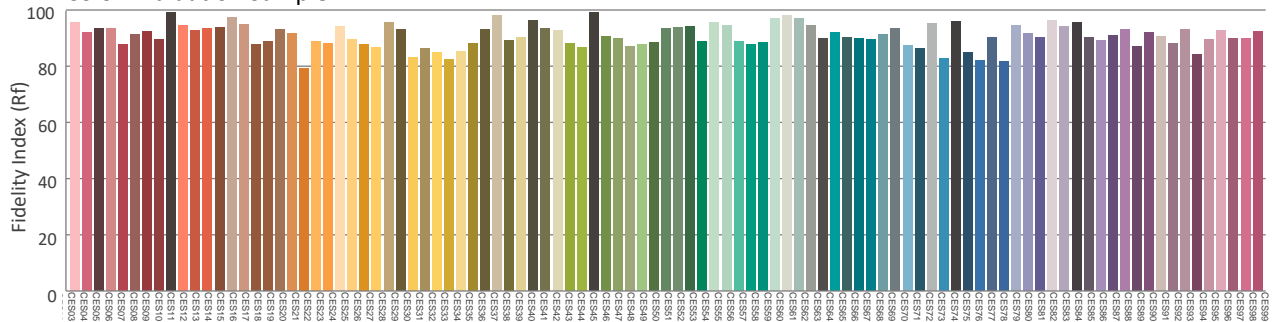
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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All product specifications, measurements and dimensions are subject to change without notice

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