

PHOTOMETRICS REPORT
LOGIC Graze S



ILUMINARC®

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Testing Process

Total Illuminance Measurements

Illuminance is measured using the Viso Systems LabSpion[®], 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[®] 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[®] system every six months as recommended by Viso Systems.

LOGIC Graze S

Photometrics & Chromaticity Reports

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Photometric & Chromaticity Report

Logic GZS: No Optics - RGBW - Full Power

Report Summary

Measurements

Fixture Output: 871 lm
Fixture Peak: 284 cd
Fixture Efficacy: 38 lm/W
Intensity @ 5m: 11 lux
Color Temperature: 5562 K
CRI: 75.5 CRI R9 Value: 47.8
CQS: 81.6
TLCI: 79
TM-30 Rf: 75.1
TM-30 Rg: 92.4
Beam Angle (50%): 123.8°
Field Angle (10%): 153.6°
Cutoff Angle (2%): 161.8°

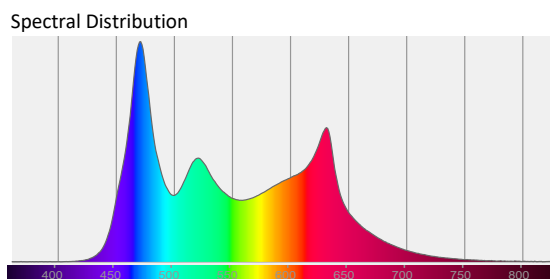
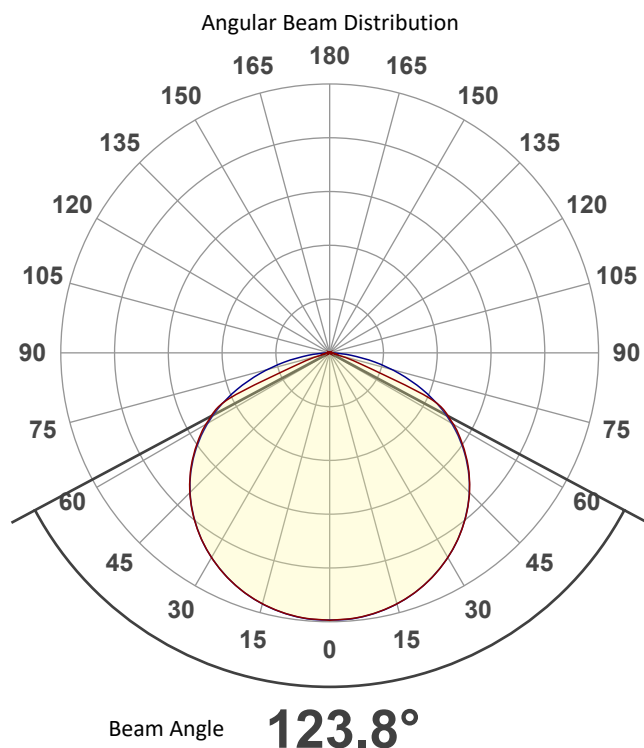
Conditions

AC Supply: 119 V, 60 Hz
Power: 25.24 W
Current: 0.212 A
Power Factor: 0.9



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 5/25/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.331

Y: 0.336



Light Quality

CRI: 75.5

Color Temperature

5562 K

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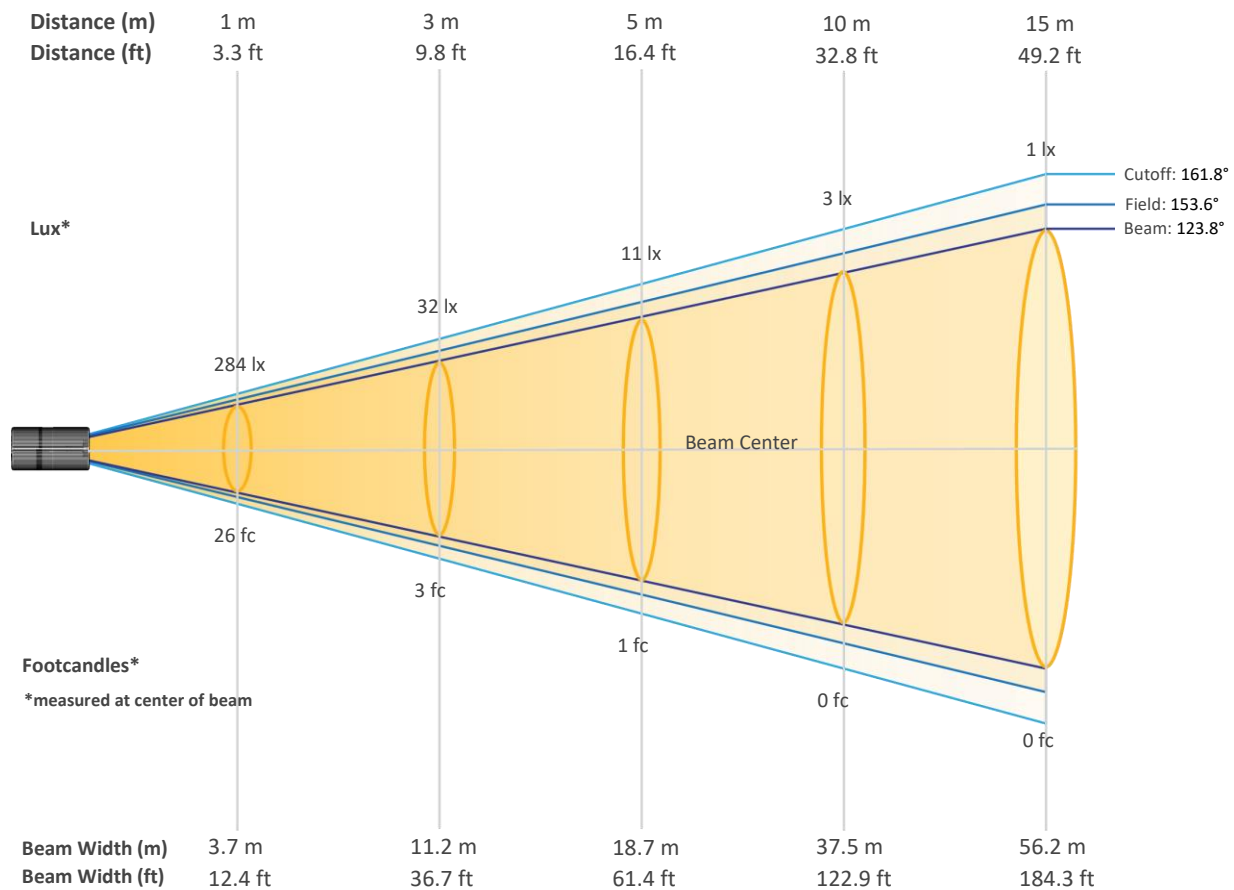
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Photometric & Chromaticity Report

Logic GZS: No 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	284	71	32	18	11	8	6	4	4	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	2	2	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	26	7	3	2	1	1	1	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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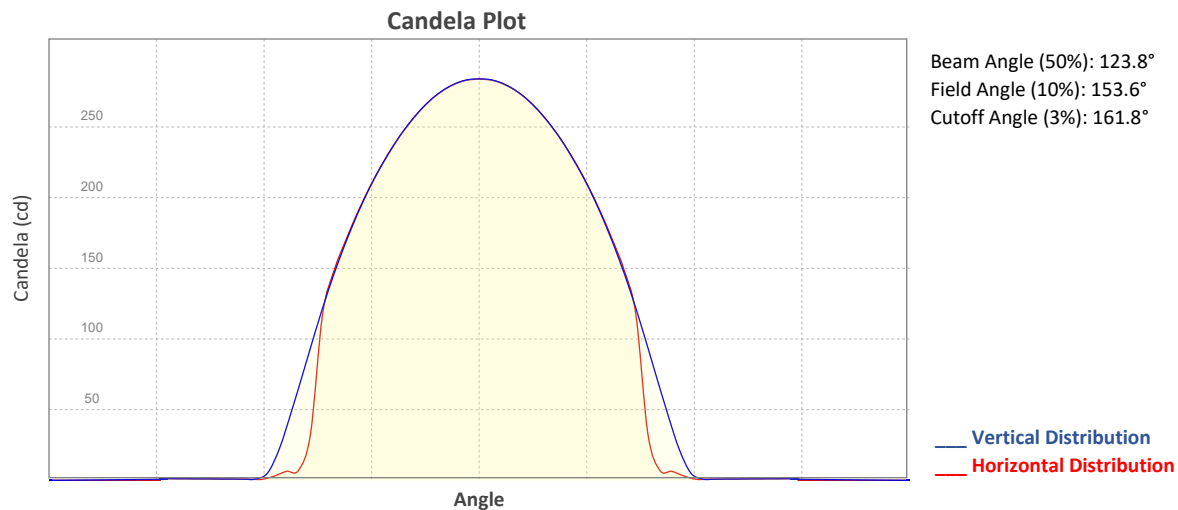
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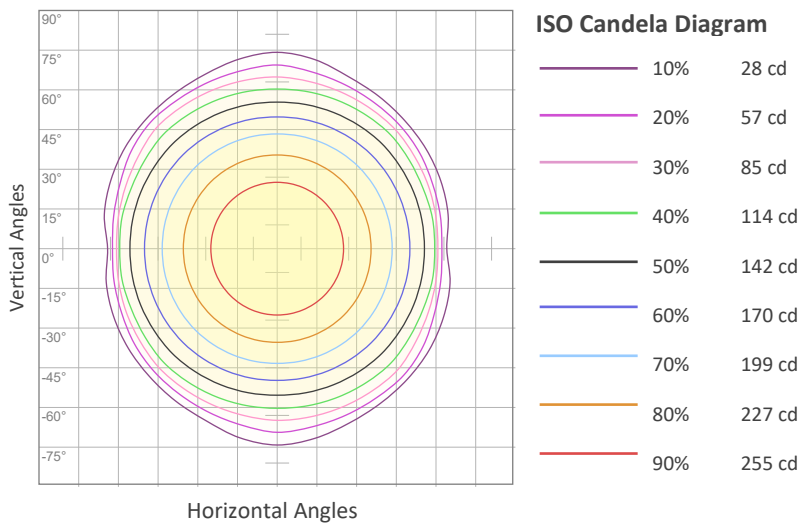
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Photometric & Chromaticity Report

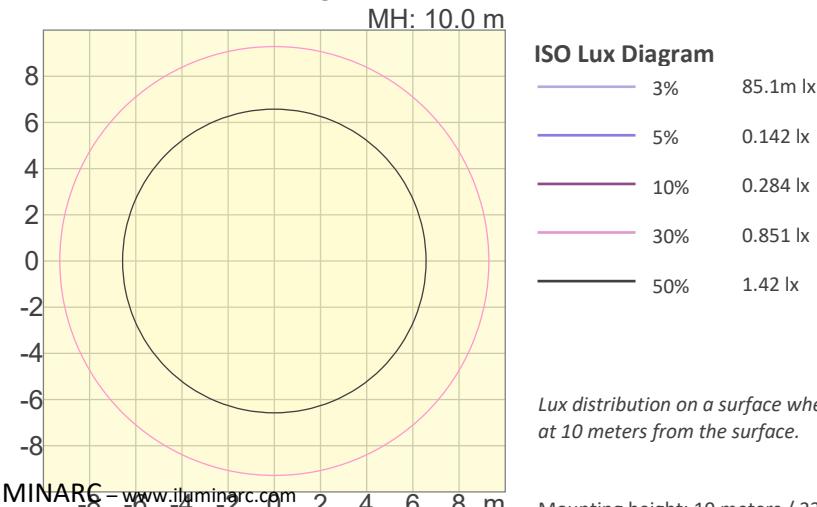
Logic GZS: No Optics - RGBW - Full Power



ISO Diagrams



Conditions:
 Number of c-planes: 8
 Candela at center: 284 cd



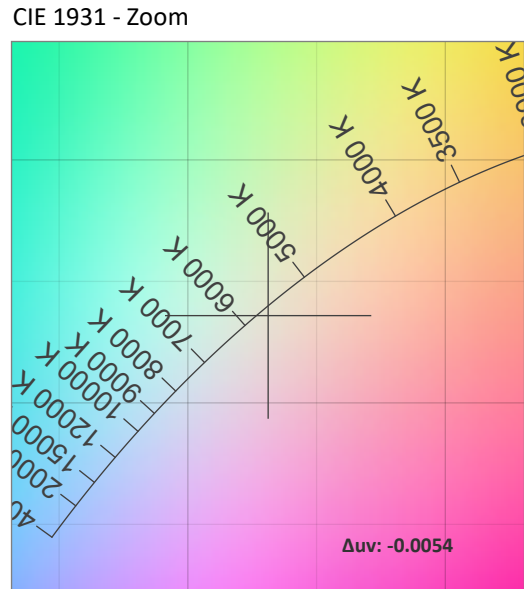
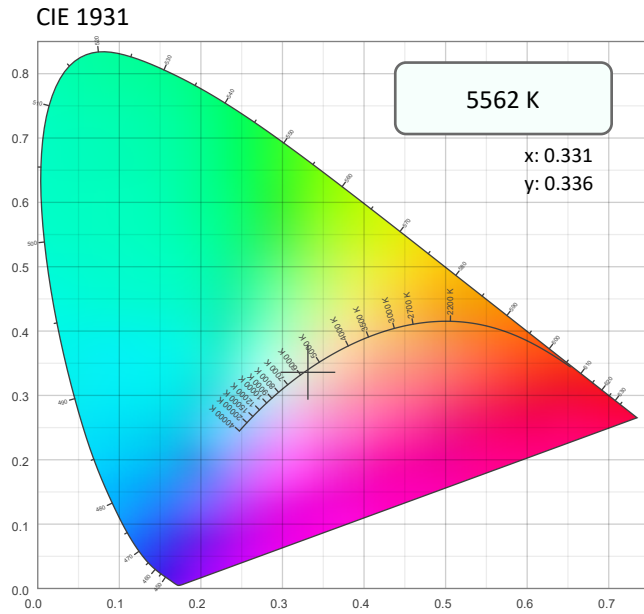
Conditions:
 Number of c-planes: 8
 Candela at center: 2.84 lx

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

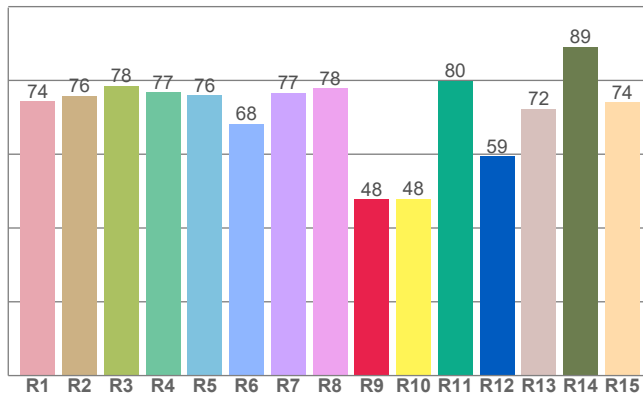
Photometric & Chromaticity Report

Logic GZS: No Optics - RGBW - Full Power

Chromaticity



CRI: 75.5 (R1-R8)

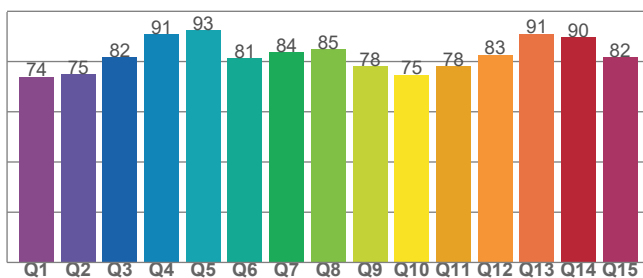


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5562 K	0.331	0.336

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0054	0.336	0.208

CQS: 81.6



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
75.5	47.8	81.6

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
79	75.1	92.4

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Photometric & Chromaticity Report

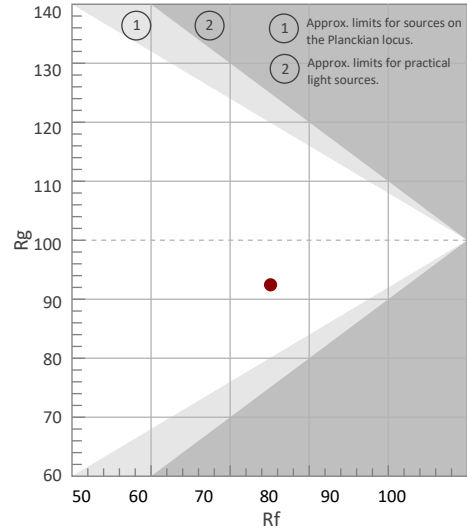
Logic GZS: No Optics - RGBW - Full Power

TM-30 Details

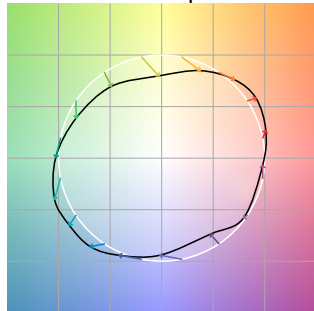
Rf 75.1
Fidelity Index
(Rg)

Rg 92.4
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	81	4%	7%
2	85	8%	-2%
3	72	2%	-16%
4	65	-9%	-20%
5	65	-21%	-13%
6	78	-15%	2%
7	76	-9%	14%
8	68	1%	19%
9	77	10%	19%
10	81	11%	4%
11	75	10%	-10%
12	69	0%	-22%
13	75	-8%	-20%
14	79	-12%	-2%
15	81	-2%	-4%
16	80	-3%	12%



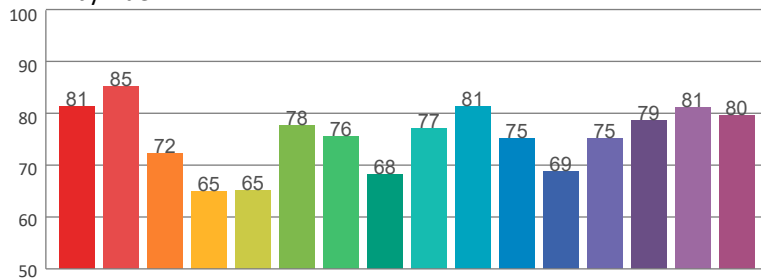
Color Vector Graphic



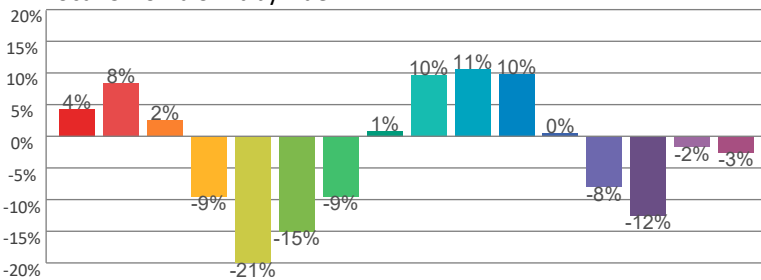
Color Distortion Graphic



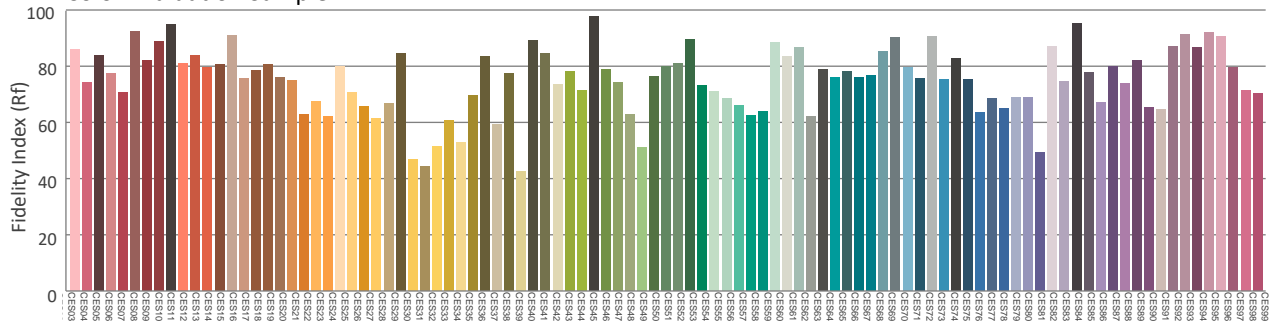
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: Standard Optics - RGBW - Full Power

Report Summary

Measurements

Fixture Output: 686 lm
Fixture Peak: 1263 cd
Fixture Efficacy: 30 lm/W
Intensity @ 5m: 50 lux
Color Temperature: 5581 K
CRI: 74.9 CRI R9 Value: 42.7
CQS: 81.1
TLCI: 77
TM-30 Rf: 74.7
TM-30 Rg: 92.5
Beam Angle (50%): 33.9°
Field Angle (10%): 69.5°
Cutoff Angle (2%): 109.6°

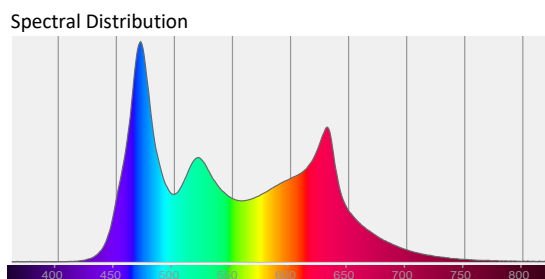
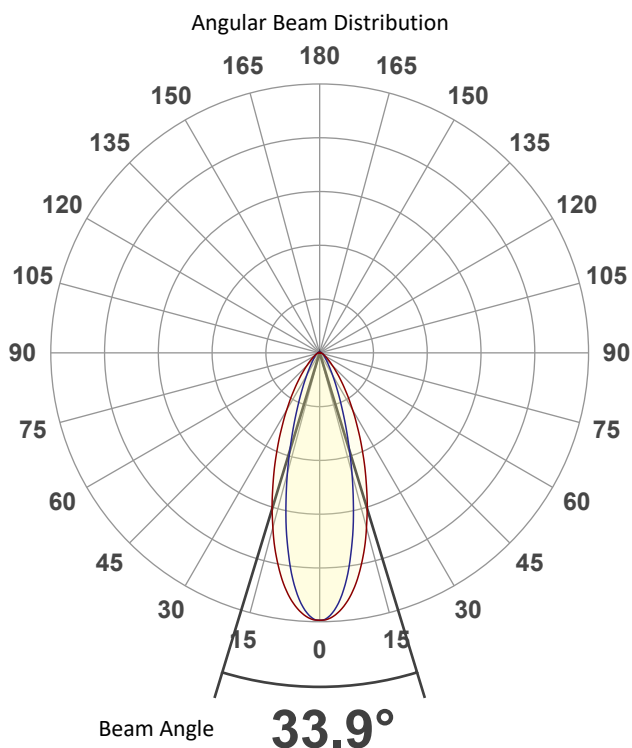
Conditions

AC Supply: 120 V, 60 Hz
Power: 25.42 W
Current: 0.212 A
Power Factor: 0.9



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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

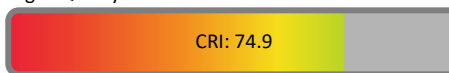
X: 0.331

Y: 0.336



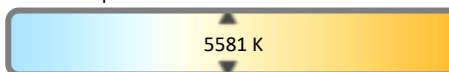
Light Quality

CRI: 74.9



Color Temperature

5581 K



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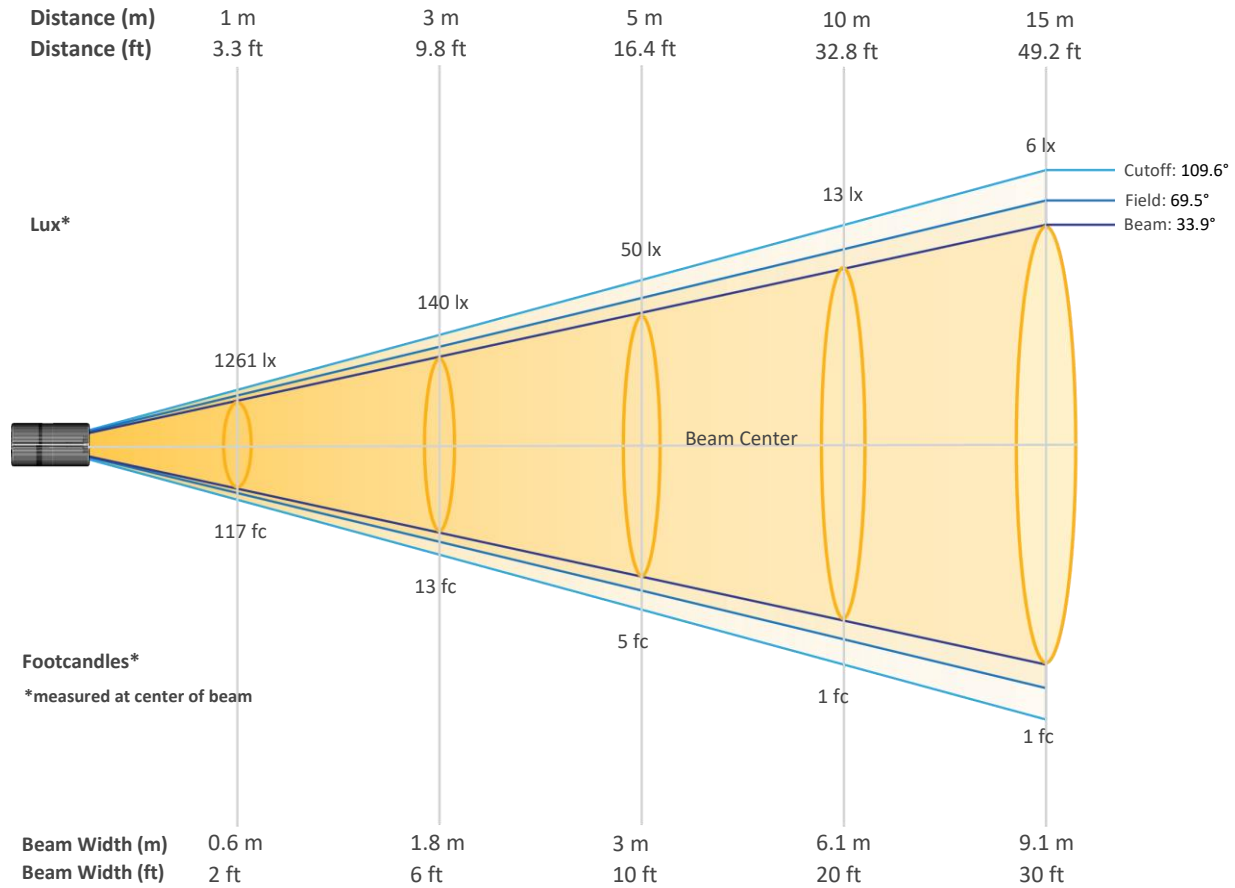
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Photometric & Chromaticity Report

Logic GZS: 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	1261	315	140	79	50	35	26	20	16	13
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	10	9	7	6	6	5	4	4	3	3
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	117	29	13	7	5	3	2	2	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	1	1	1	1	0	0	0	0	0

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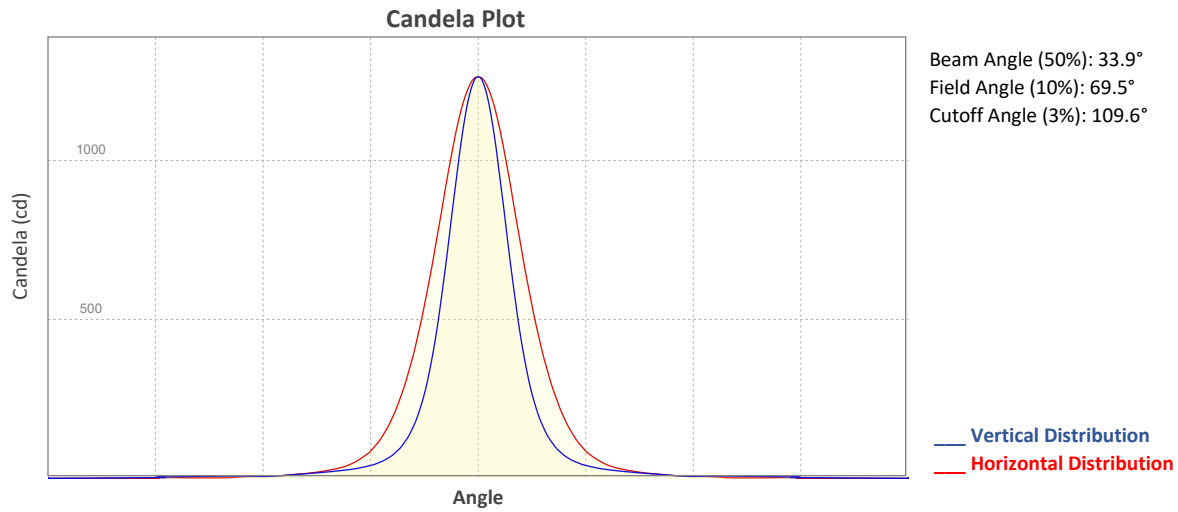
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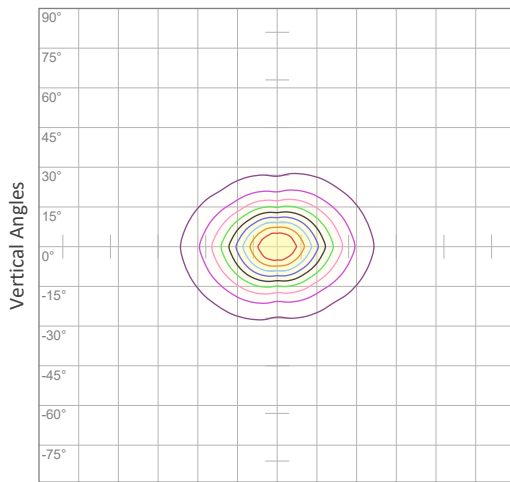
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - RGBW - Full Power



ISO Diagrams



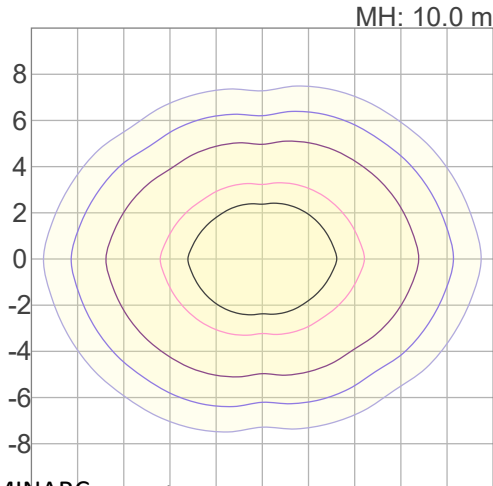
ISO Candela Diagram

10%	126 cd
20%	252 cd
30%	378 cd
40%	505 cd
50%	631 cd
60%	757 cd
70%	883 cd
80%	1009 cd
90%	1135 cd

Conditions:

Number of c-planes: 8
Candela at center: 1261 cd

Horizontal Angles



ISO Lux Diagram

3%	0.378 lx
5%	0.631 lx
10%	1.26 lx
30%	3.78 lx
50%	6.31 lx

Conditions:

Number of c-planes: 8
Candela at center: 12.6 lx

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

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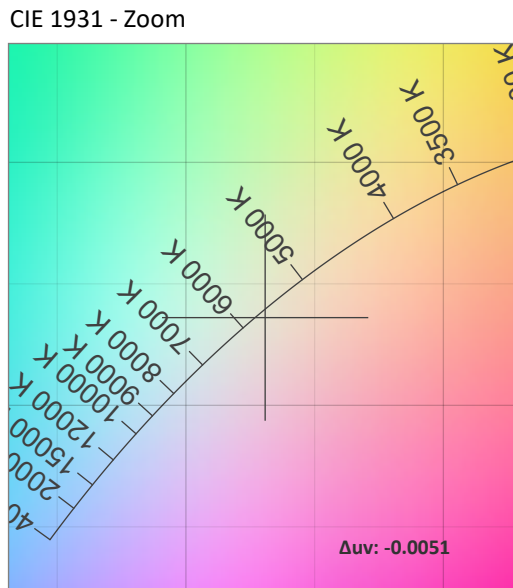
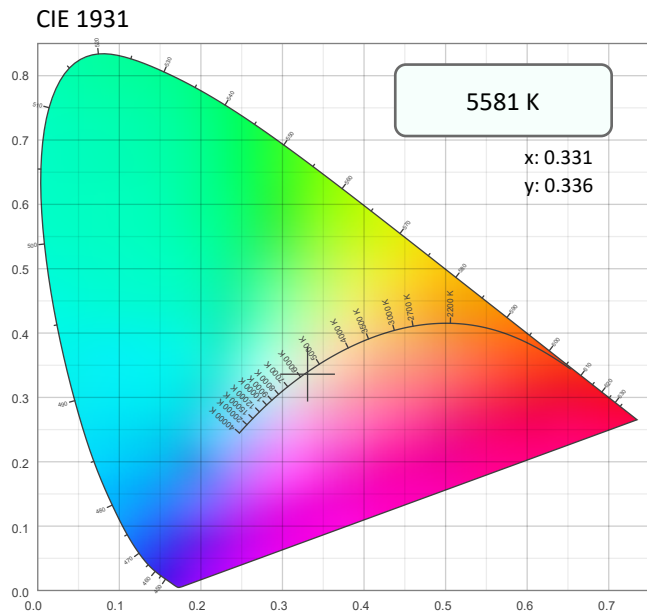
Mounting height: 10 meters / 33 feet

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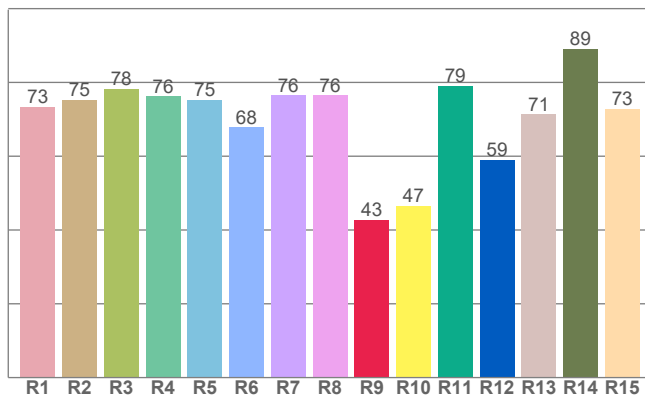
Photometric & Chromaticity Report

Logic GZS: Standard Optics - RGBW - Full Power

Chromaticity



CRI: 74.9 (R1-R8)

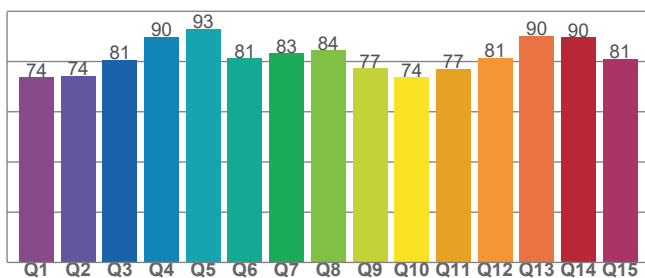


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5581 K	0.331	0.336

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0051	0.336	0.208

CQS: 81.1



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
74.9	42.7	81.1

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
77	74.7	92.5

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Photometric & Chromaticity Report

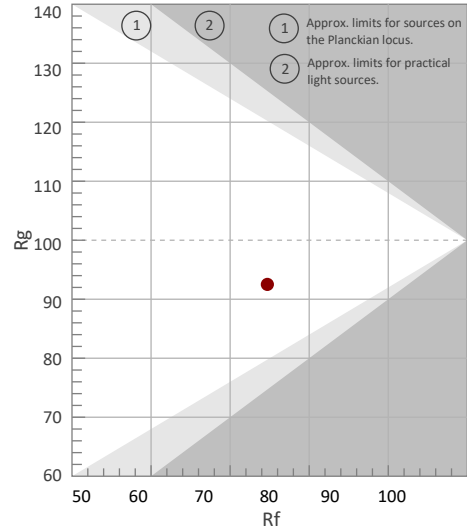
Logic GZS: Standard Optics - RGBW - Full Power

TM-30 Details

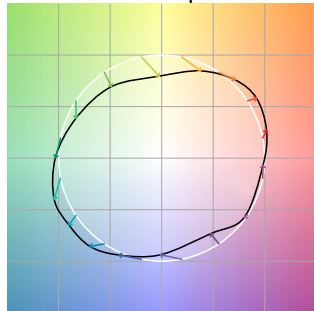
Rf 74.7
Fidelity Index
(Rg)

Rg 92.5
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	81	5%	7%
2	85	9%	-3%
3	71	3%	-17%
4	64	-10%	-20%
5	65	-22%	-13%
6	77	-15%	2%
7	75	-9%	14%
8	68	1%	19%
9	77	10%	19%
10	81	11%	4%
11	75	10%	-10%
12	69	0%	-22%
13	75	-8%	-19%
14	78	-13%	-1%
15	81	-1%	-3%
16	79	-2%	12%



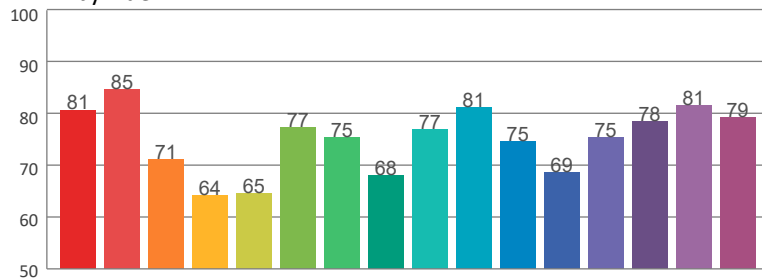
Color Vector Graphic



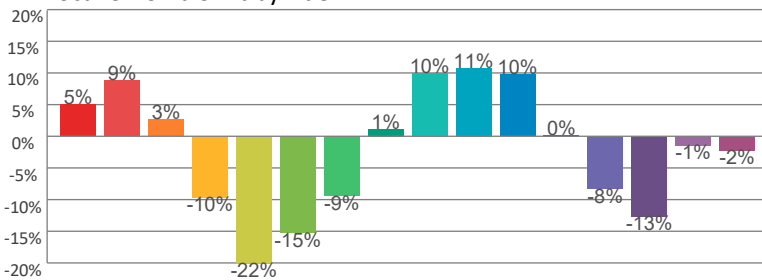
Color Distortion Graphic



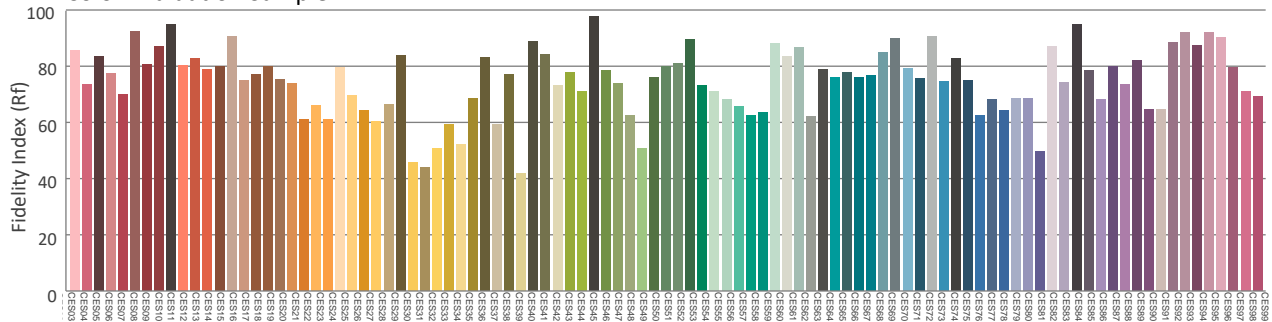
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: Standard Optics - Red Only

Report Summary

Measurements

Fixture Output: 144 lm

Fixture Peak: 310 cd

Fixture Efficacy: 9 lm/W

Intensity @ 5m: 12 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%): 30°

Field Angle (10%): 64.7°

Cutoff Angle (2%): 101.9°

Conditions

AC Supply: 120 V, 60.1 Hz

Power: 19.3 W

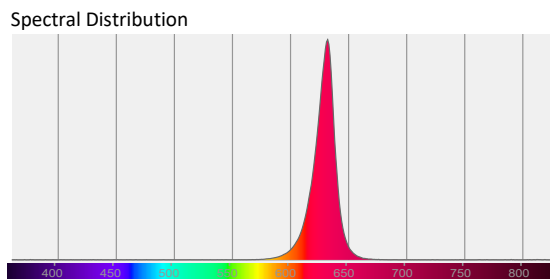
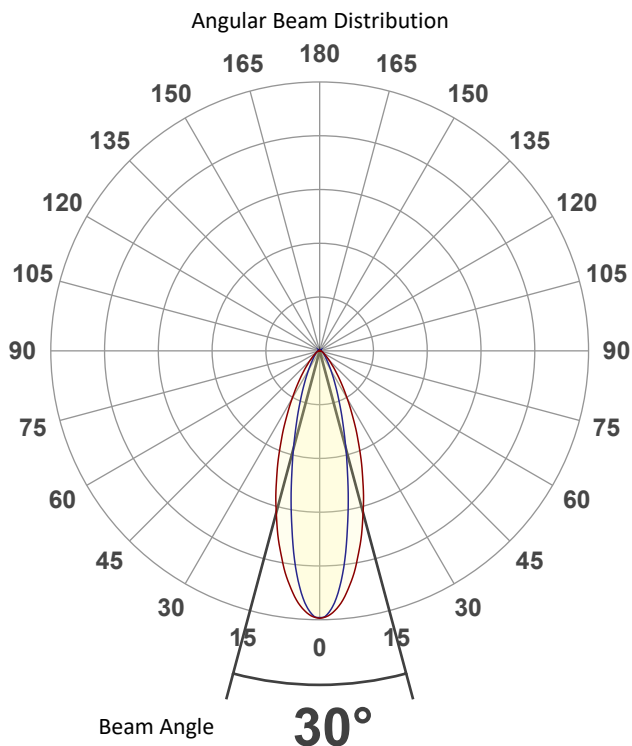
Current: 0.161 A

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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.695

Y: 0.305



Light Quality

CRI: 0.0

Color Temperature

0 K

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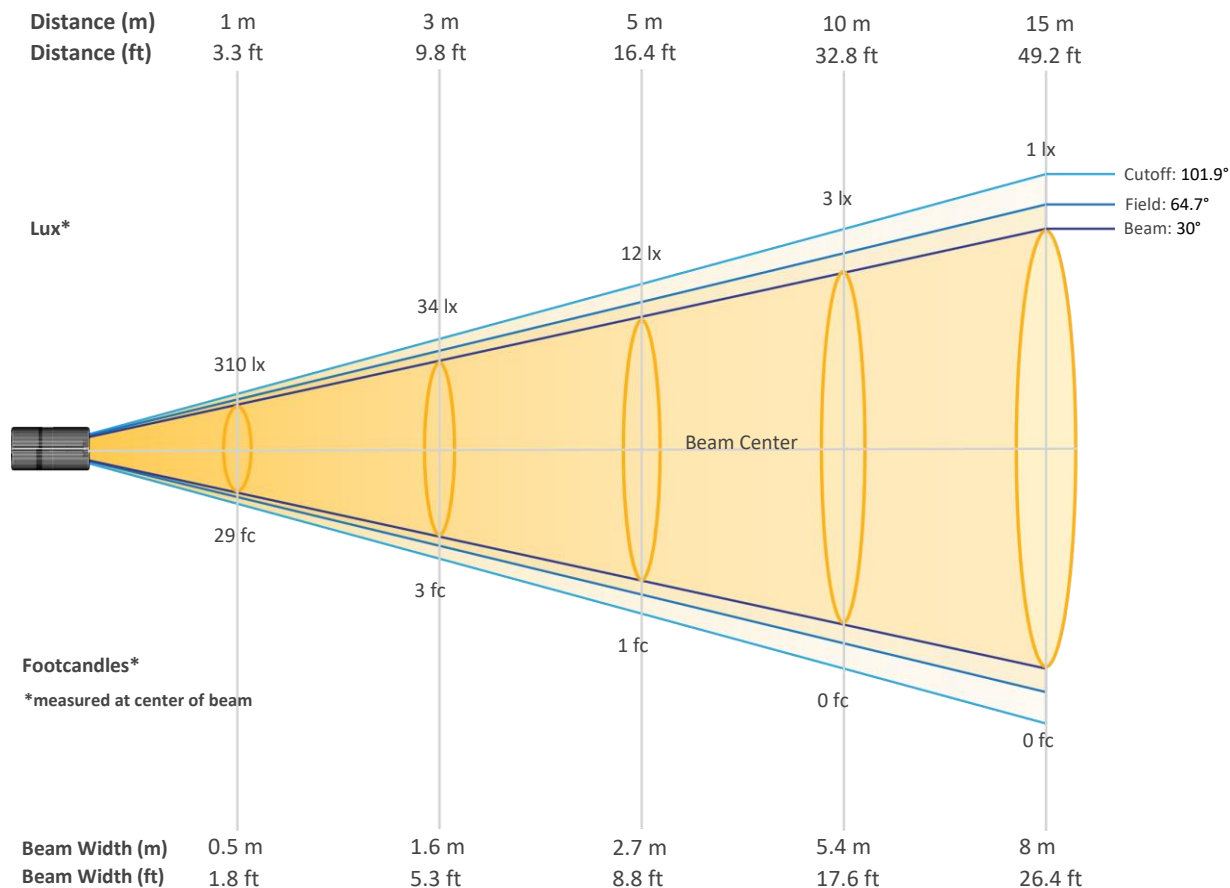
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Photometric & Chromaticity Report

Logic GZS: Standard 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	310	77	34	19	12	9	6	5	4	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	3	2	2	2	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	29	7	3	2	1	1	1	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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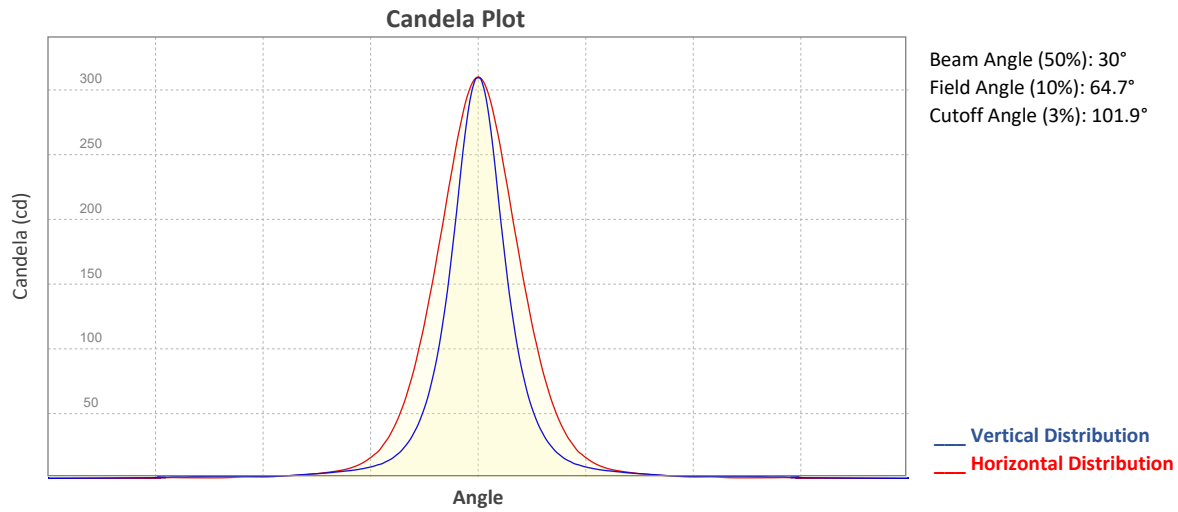
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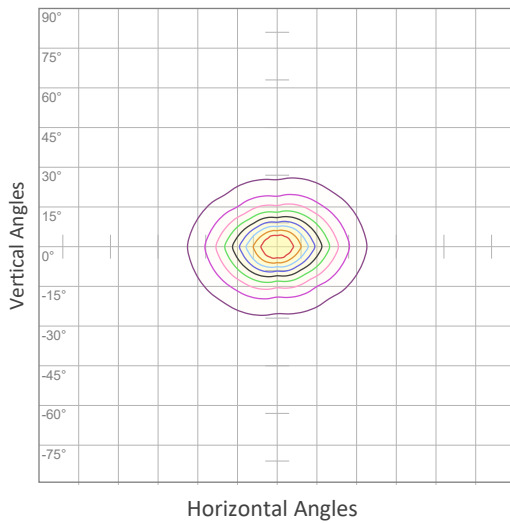
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - Red Only



ISO Diagrams

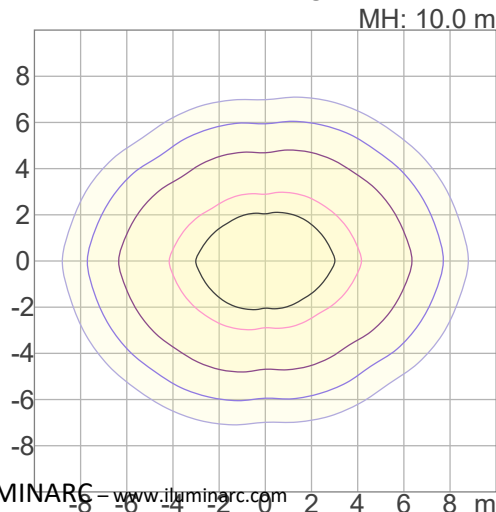


ISO Candela Diagram

10%	31 cd
20%	62 cd
30%	93 cd
40%	124 cd
50%	155 cd
60%	186 cd
70%	217 cd
80%	248 cd
90%	279 cd

Conditions:

Number of c-planes: 8
Candela at center: 310 cd



ISO Lux Diagram

3%	92.9m lx
5%	0.155 lx
10%	0.310 lx
30%	0.929 lx
50%	1.55 lx

Conditions:

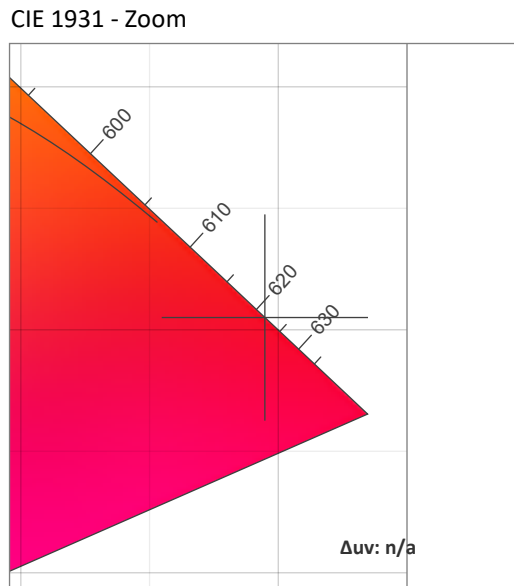
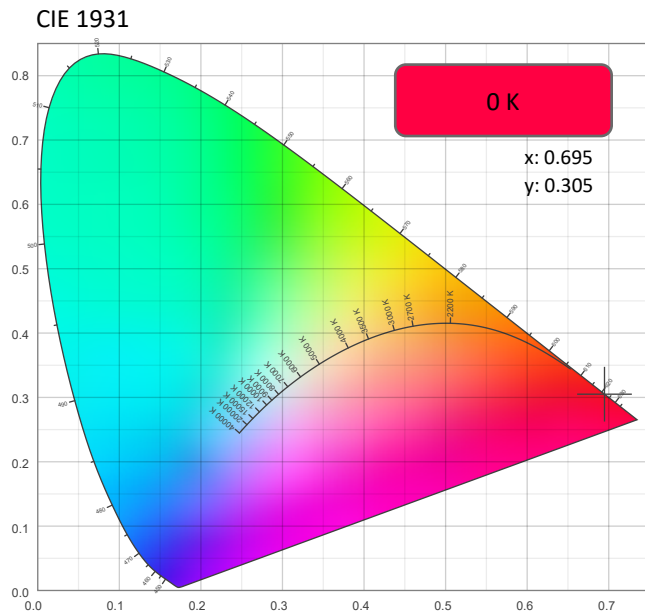
Number of c-planes: 8
Candela at center: 3.10 lx

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

Photometric & Chromaticity Report

Logic GZS: Standard Optics - 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	0.695	0.305

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.305	0.527

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

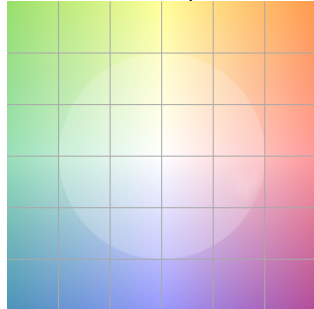
Logic GZS: Standard Optics - Red Only

TM-30 Details

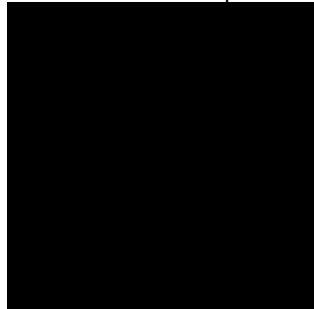
Rf 0.0
Fidelity Index
(Rg)

Rg 0.0
Gammut Index (Rg)

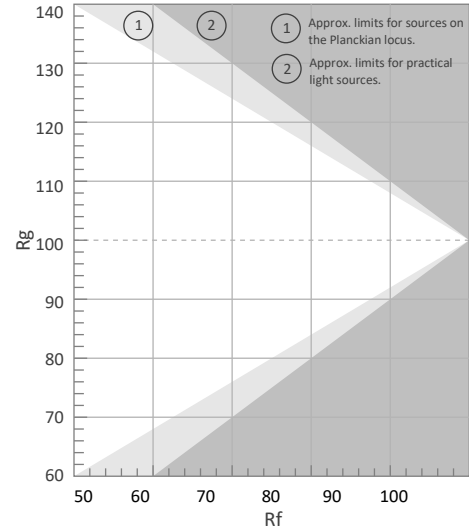
Color Vector Graphic



Color Distortion Graphic



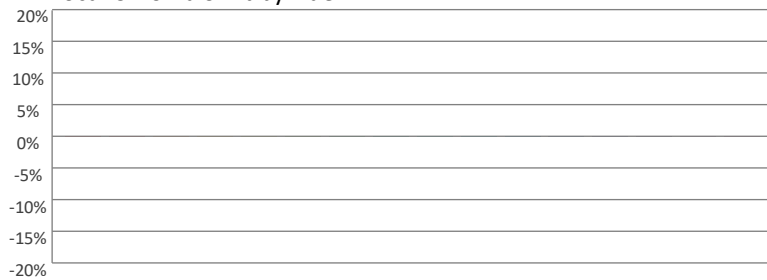
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



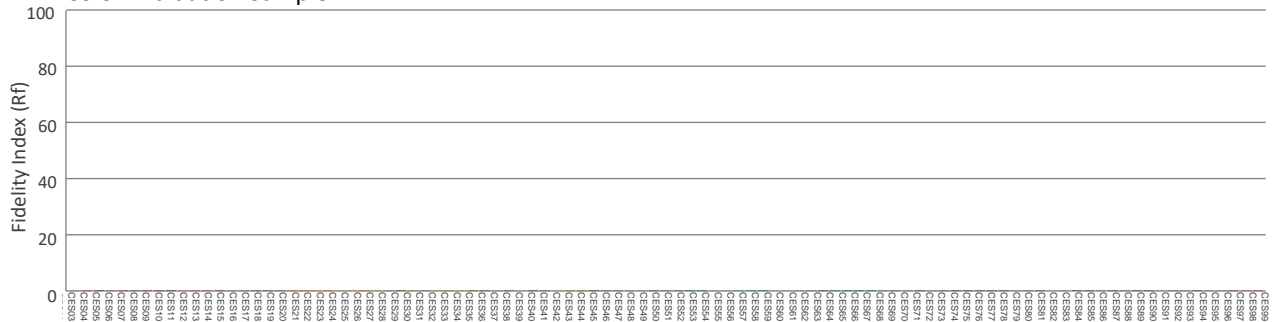
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZS: Standard Optics - Green Only

Report Summary

Measurements

Fixture Output: 298 lm

Fixture Peak: 626 cd

Fixture Efficacy: 18 lm/W

Intensity @ 5m: 25 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%): 30.3°

Field Angle (10%): 65.9°

Cutoff Angle (3%): 102.8°

Conditions

AC Supply: 119 V, 60 Hz

Power: 19.55 W

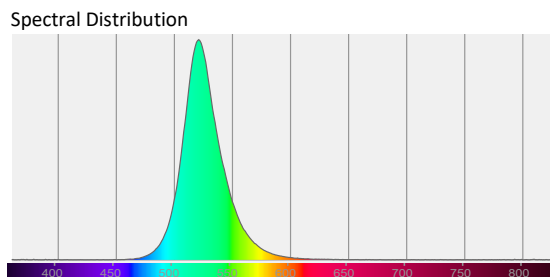
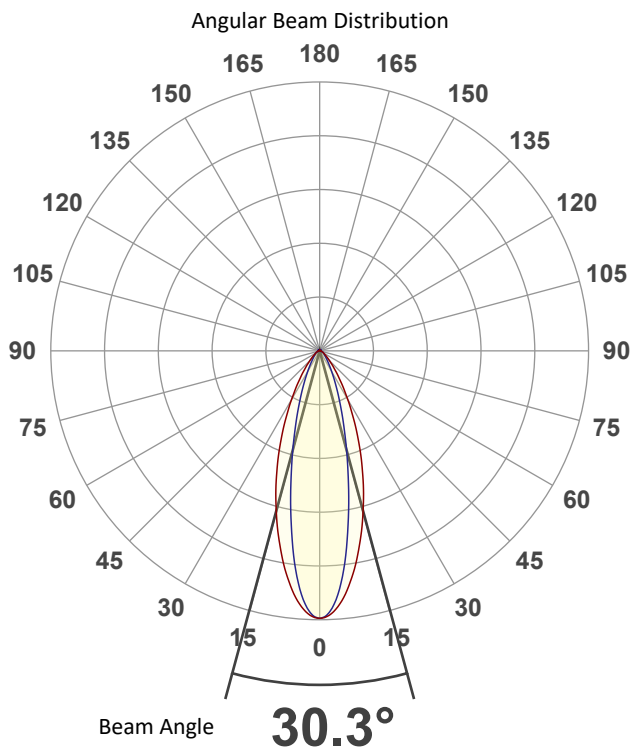
Current: 0.164 A

Power Factor: 0.86



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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.174

Y: 0.726



Light Quality

CRI: 0.0

Color Temperature

0 K

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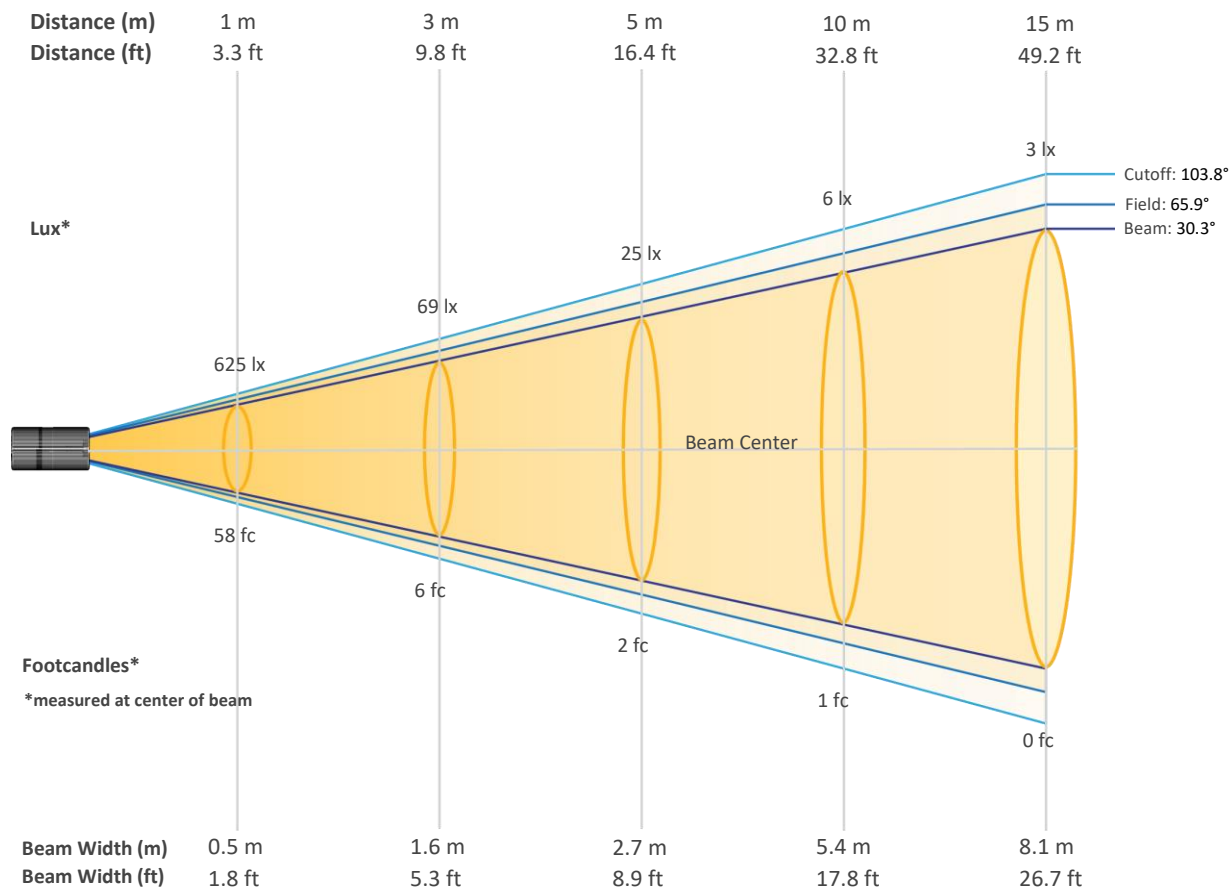
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Photometric & Chromaticity Report

Logic GZS: Standard 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	625	156	69	39	25	17	13	10	8	6
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	5	4	4	3	3	2	2	2	2	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	58	15	6	4	2	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	0	0	0	0	0	0	0	0	0	0

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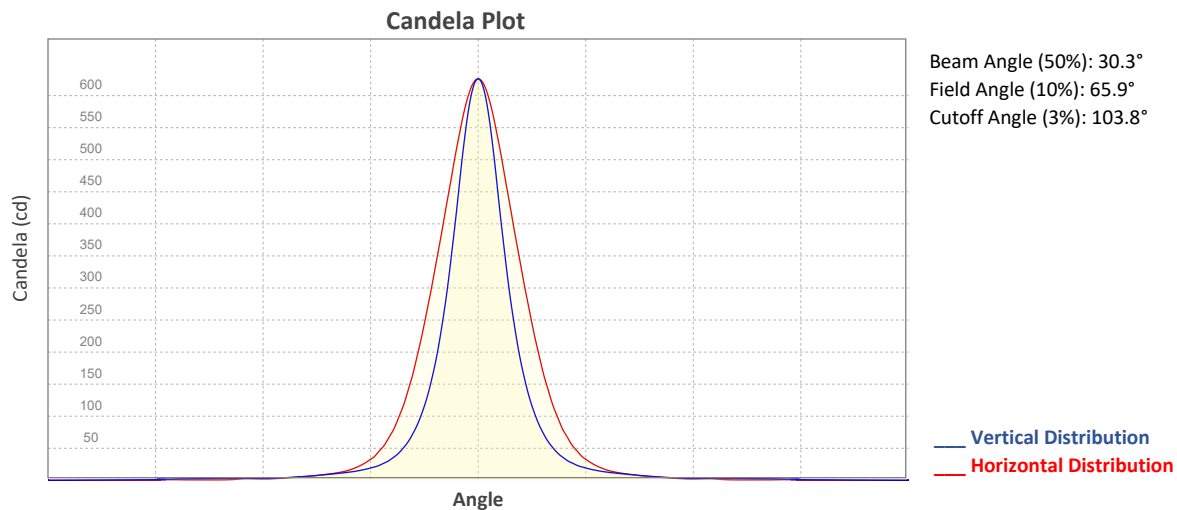
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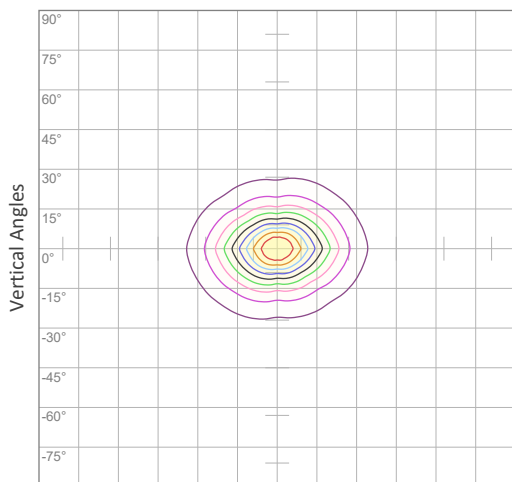
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - Green Only



ISO Diagrams

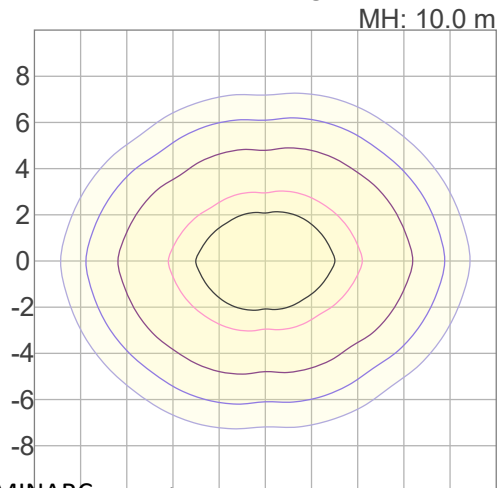


ISO Candela Diagram

10%	63 cd
20%	125 cd
30%	188 cd
40%	250 cd
50%	313 cd
60%	375 cd
70%	438 cd
80%	500 cd
90%	563 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 625 cd

Horizontal Angles



ISO Lux Diagram

3%	0.188 lx
5%	0.313 lx
10%	0.625 lx
30%	1.88 lx
50%	3.13 lx

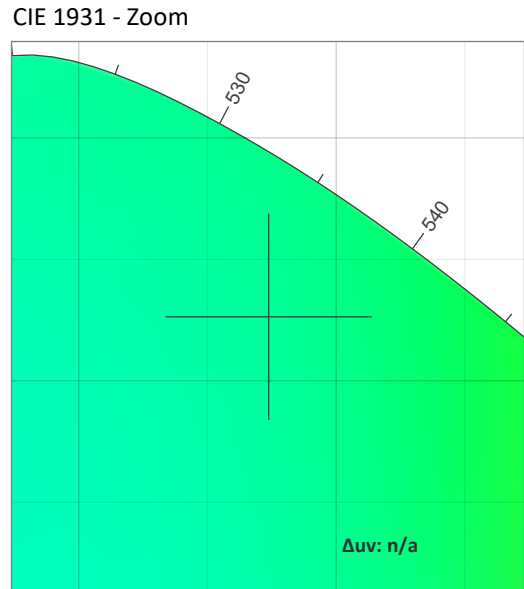
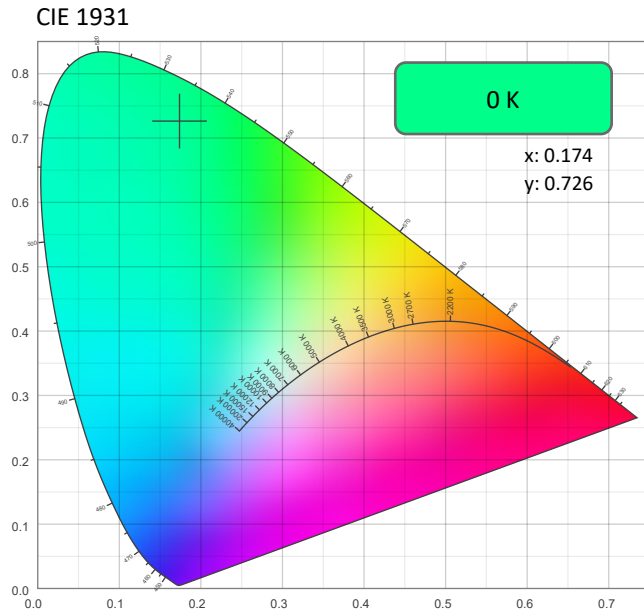
Conditions:
 Number of c-planes: 8
 Candela at center: 6.25 lx

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

Photometric & Chromaticity Report

Logic GZS: Standard 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	0.174	0.726

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.726	0.061

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

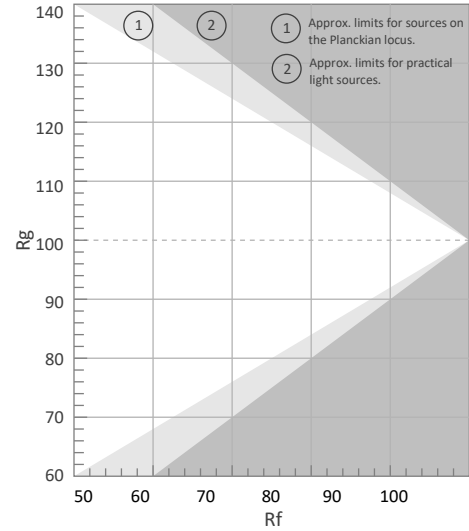
Logic GZS: Standard Optics - Green Only

TM-30 Details

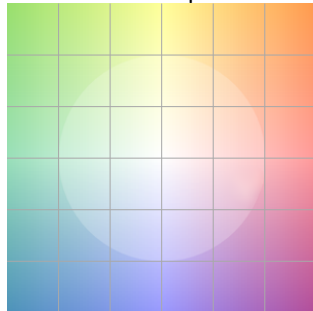
Rf 0.0
Fidelity Index (Rg)

Rg 0.0
Gammut Index (Rg)

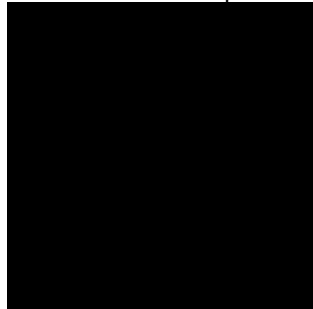
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



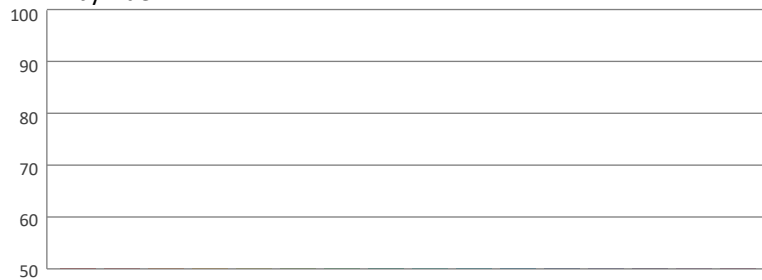
Color Vector Graphic



Color Distortion Graphic



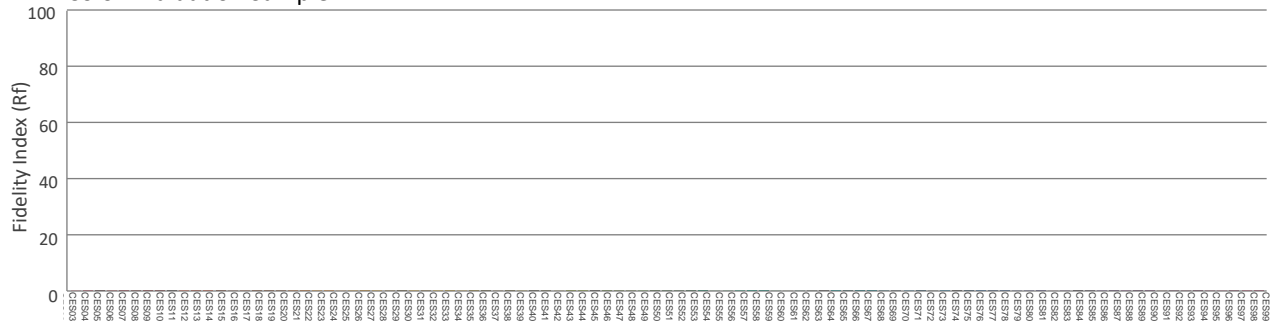
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZS: Standard Optics - Blue Only

Report Summary

Measurements

Fixture Output: 112 lm

Fixture Peak: 187 cd

Fixture Efficacy: 7 lm/W

Intensity @ 5m: 7 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%): 36°

Field Angle (10%): 73°

Cutoff Angle (3%): 115.0°

Conditions

AC Supply: 119 V, 60 Hz

Power: 19.83 W

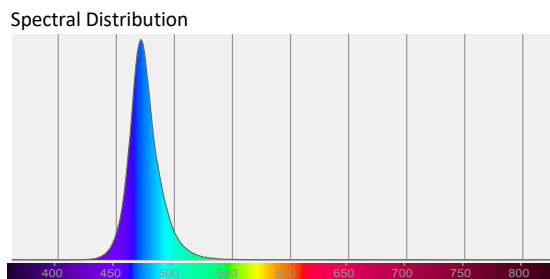
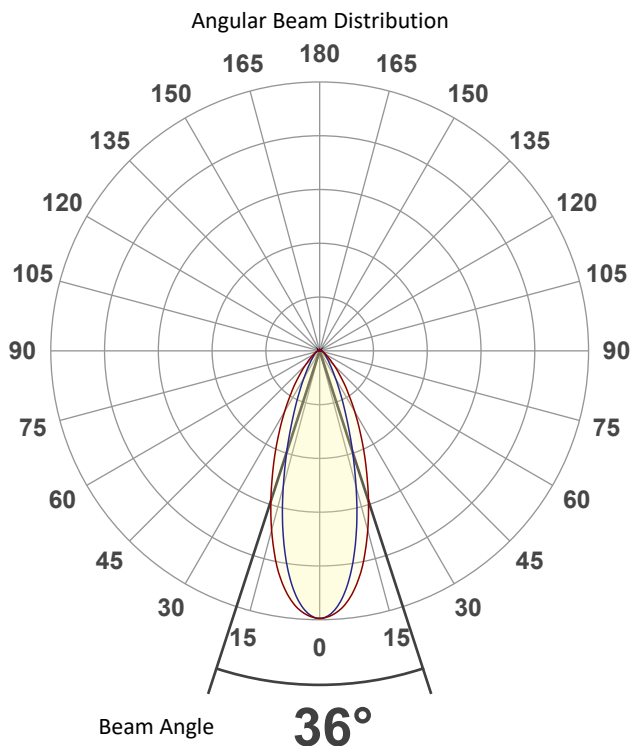
Current: 0.166 A

Power Factor: 0.86



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 5/16/2022 to LM-63-2002 Standards.

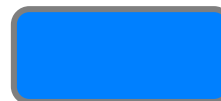
Overall Measurement



Tested Color (CIE 1931):

X: 0.119

Y: 0.097



Light Quality

CRI: 0.0

Color Temperature

0 K

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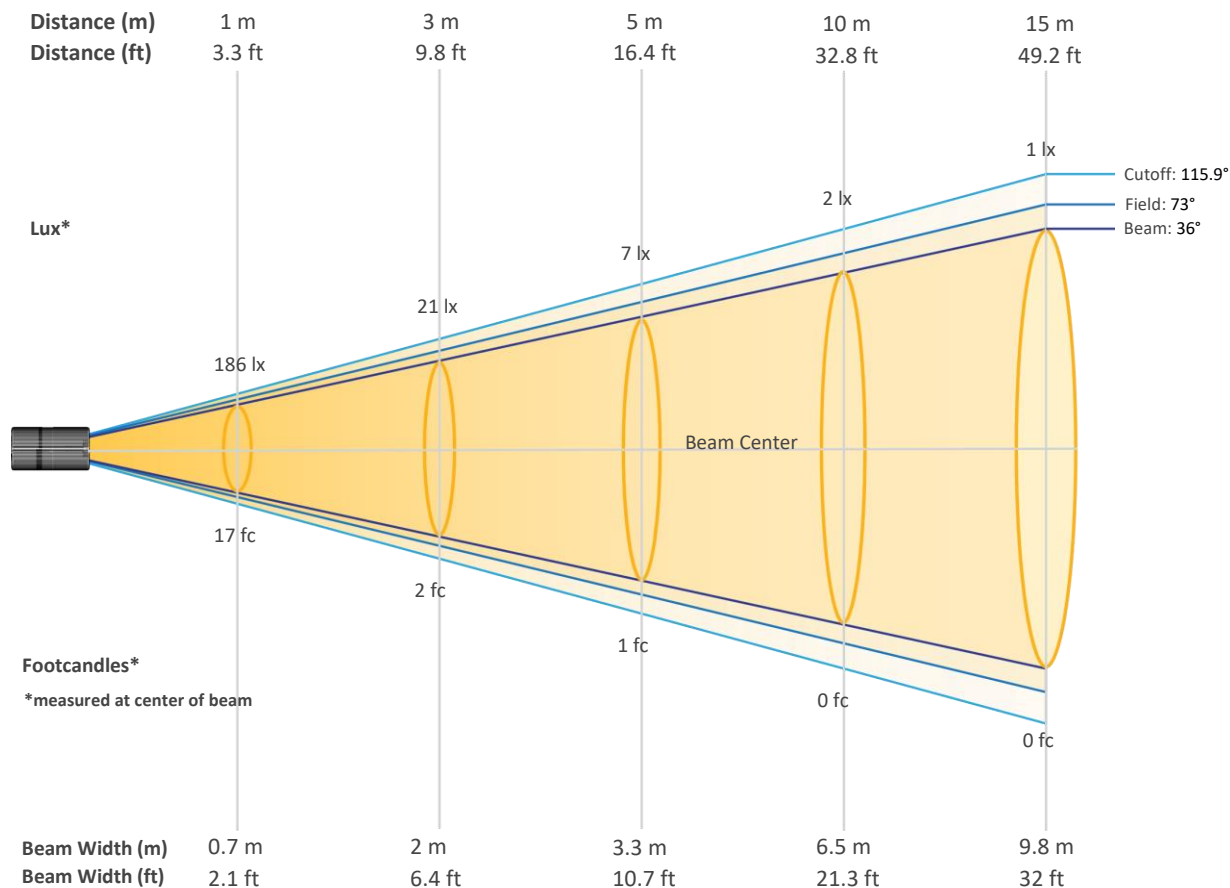
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Photometric & Chromaticity Report

Logic GZS: Standard 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	186	47	21	12	7	5	4	3	2	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	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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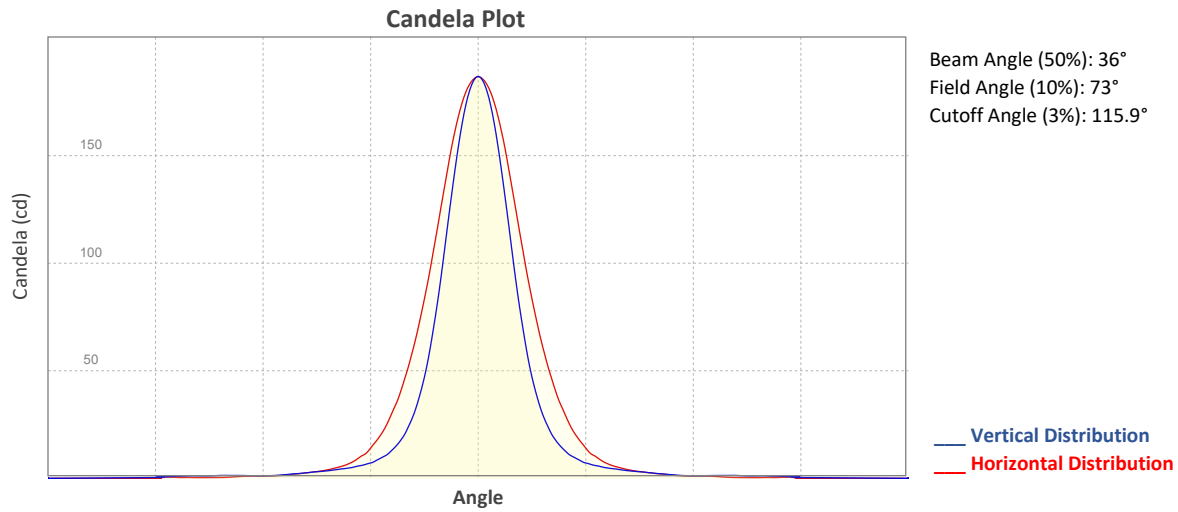
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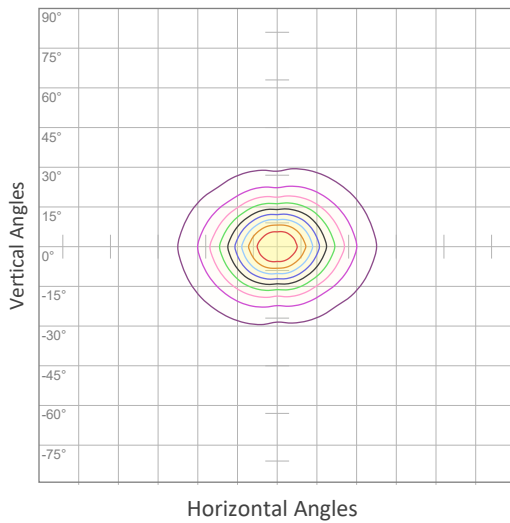
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - Blue Only



ISO Diagrams

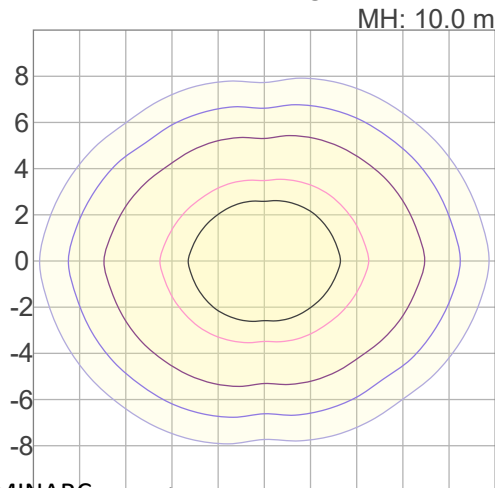


ISO Candela Diagram

10%	19 cd
20%	37 cd
30%	56 cd
40%	75 cd
50%	93 cd
60%	112 cd
70%	130 cd
80%	149 cd
90%	168 cd

Conditions:

Number of c-planes: 8
Candela at center: 186 cd



ISO Lux Diagram

3%	55.9m lx
5%	93.2m lx
10%	0.186 lx
30%	0.559 lx
50%	0.932 lx

Conditions:

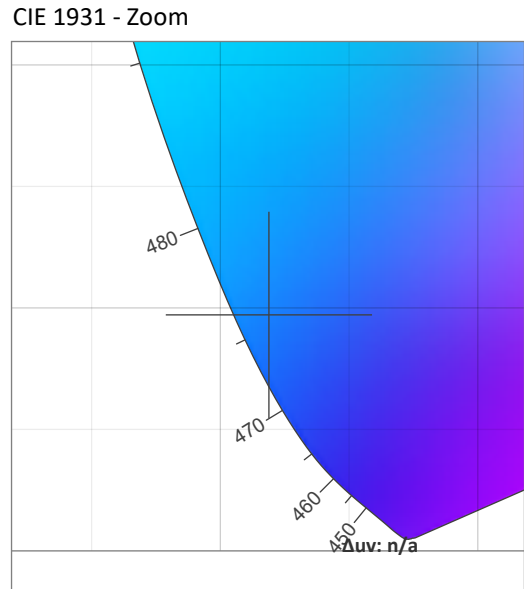
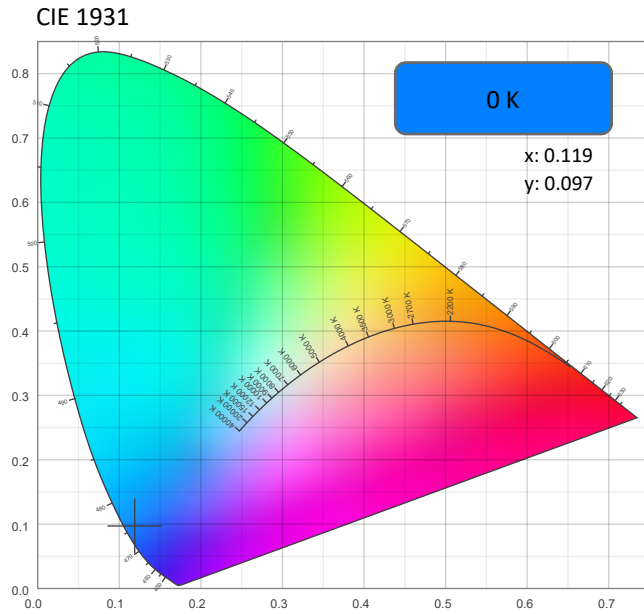
Number of c-planes: 8
Candela at center: 1.86 lx

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

Photometric & Chromaticity Report

Logic GZS: Standard Optics - 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	0.119	0.097

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.097	0.121

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

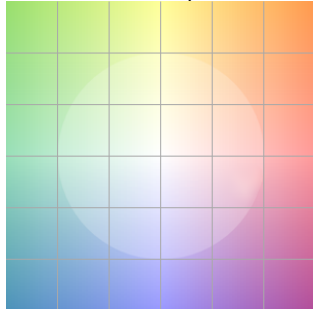
Logic GZS: Standard Optics - Blue Only

TM-30 Details

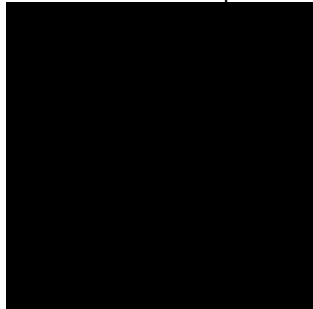
Rf 0.0
Fidelity Index (Rg)

Rg 0.0
Gammut Index (Rg)

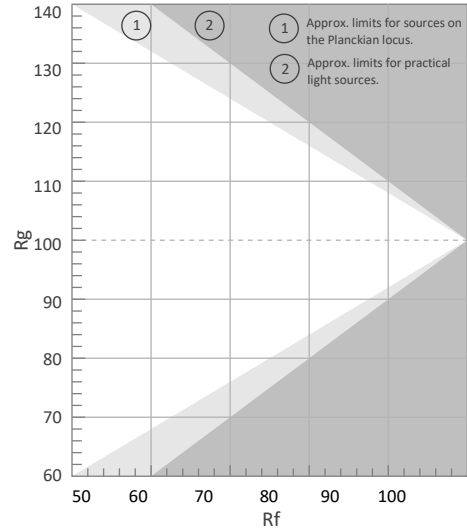
Color Vector Graphic



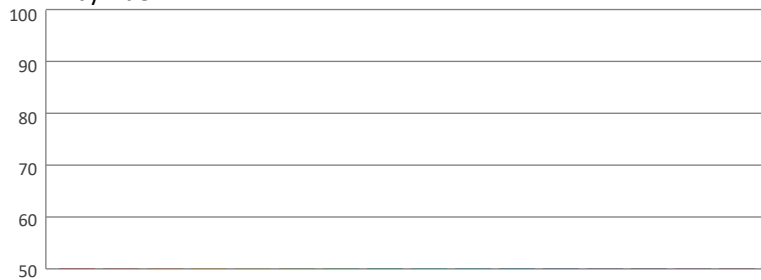
Color Distortion Graphic



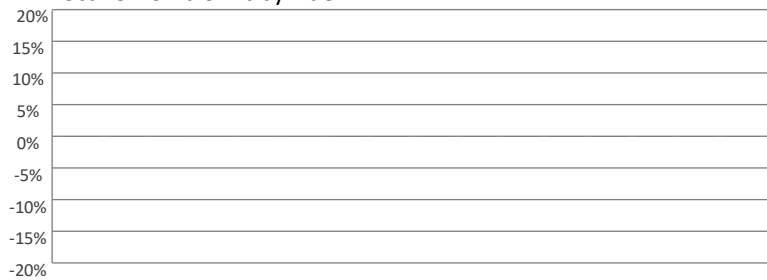
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



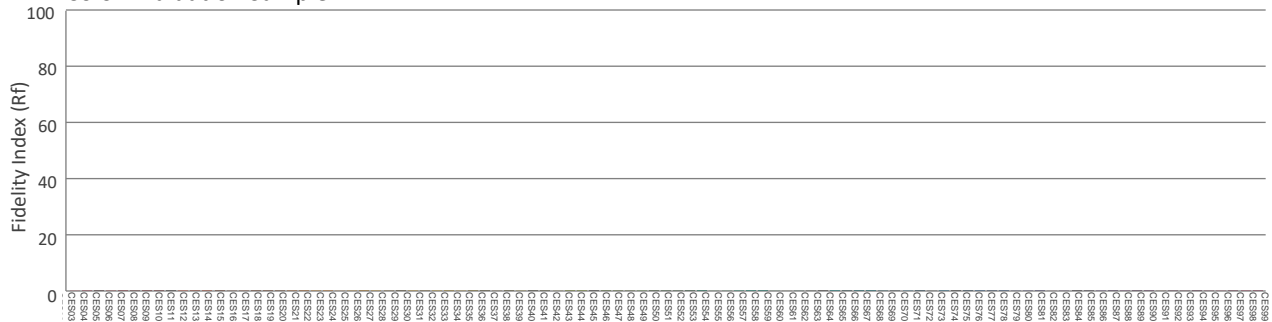
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: Standard Optics - Warm White Only

Report Summary

Measurements

Fixture Output: 467 lm

Fixture Peak: 824 cd

Fixture Efficacy: 27 lm/W

Intensity @ 5m: 33 lux

Color Temperature: 3029 K

CRI: 84.4 CRI R9 Value: 14.0

CQS: 83.4

TLCI: 73

TM-30 Rf: 85.6

TM-30 Rg: 94.9

Beam Angle (50%): 35.1°

Field Angle (10%): 70.6°

Cutoff Angle (2%): 111.4°

Conditions

AC Supply: 120 V, 60 Hz

Power: 19.81 W

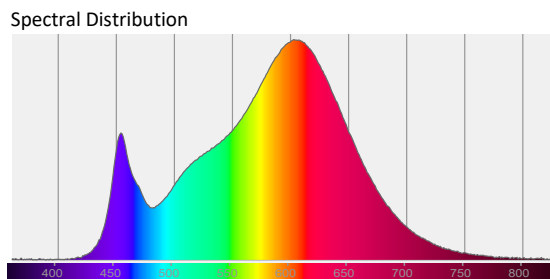
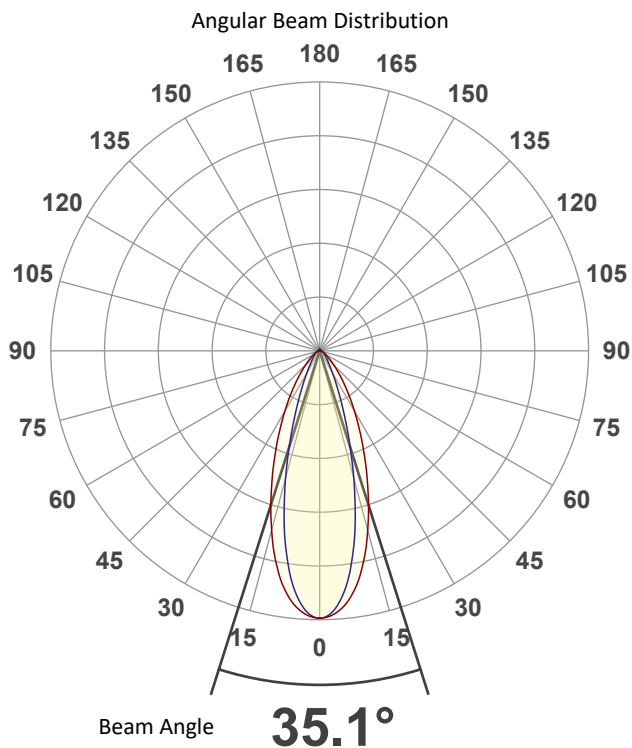
Current: 0.165 A

Power Factor: 0.86



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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.433

Y: 0.399



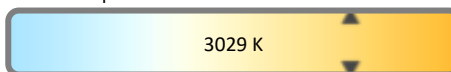
Light Quality

CRI: 84.4



Color Temperature

3029 K



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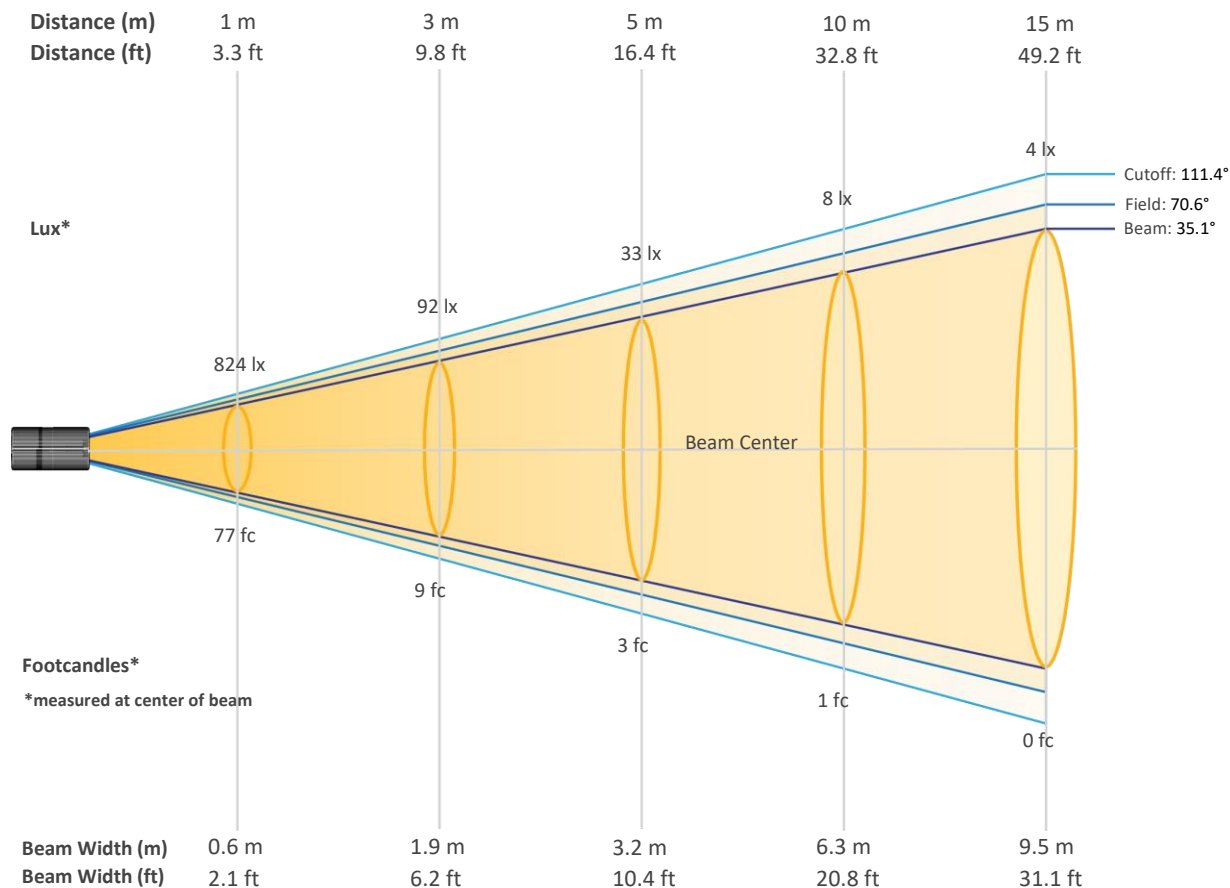
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Photometric & Chromaticity Report

Logic GZS: Standard 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	824	206	92	51	33	23	17	13	10	8
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	7	6	5	4	4	3	3	3	2	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	77	19	9	5	3	2	2	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	1	0	0	0	0	0	0	0	0

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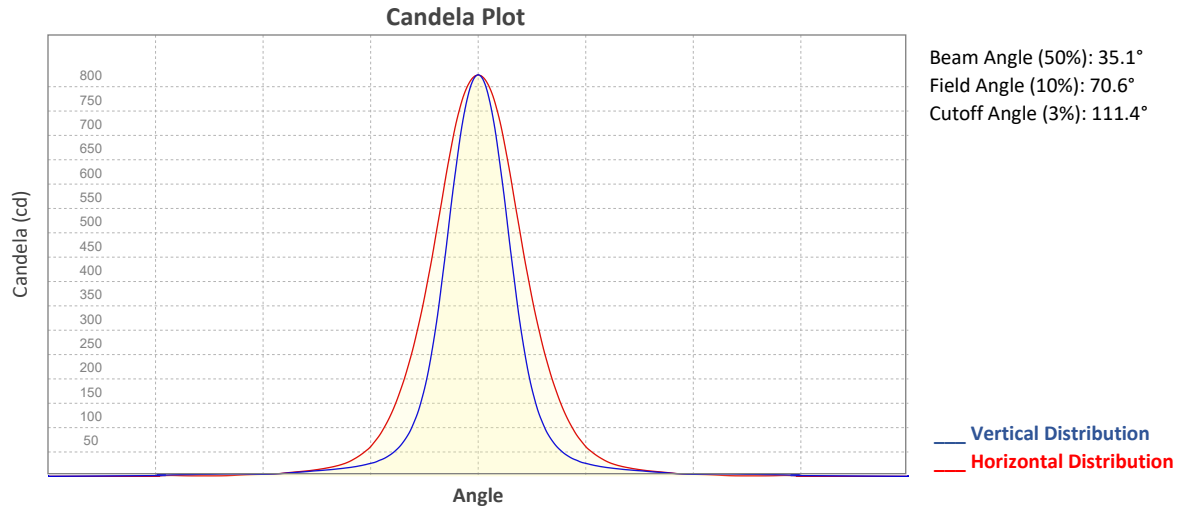
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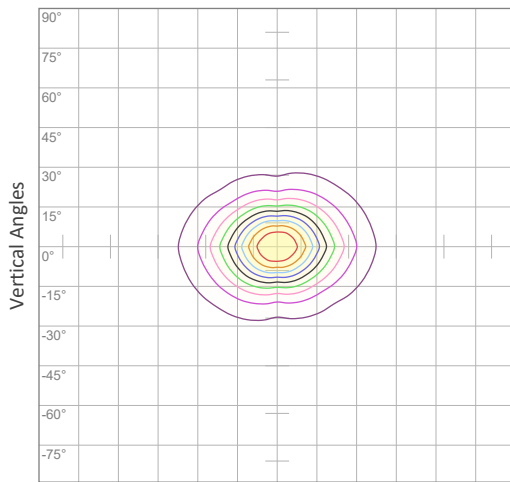
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - Warm White Only



ISO Diagrams

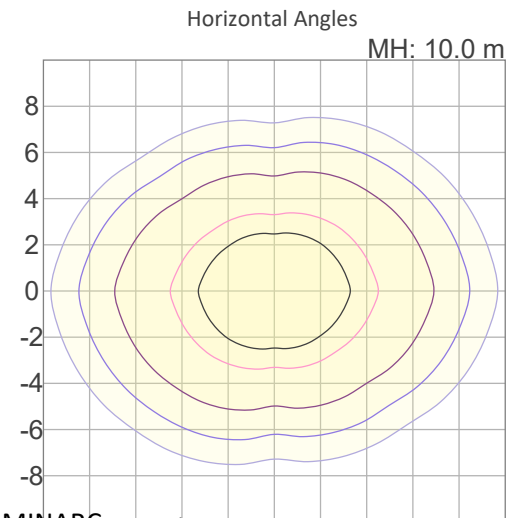


ISO Candela Diagram

10%	82 cd
20%	165 cd
30%	247 cd
40%	329 cd
50%	412 cd
60%	494 cd
70%	577 cd
80%	659 cd
90%	741 cd

Conditions:

Number of c-planes: 8
 Candela at center: 824 cd



ISO Lux Diagram

3%	0.247 lx
5%	0.412 lx
10%	0.824 lx
30%	2.47 lx
50%	4.12 lx

Conditions:

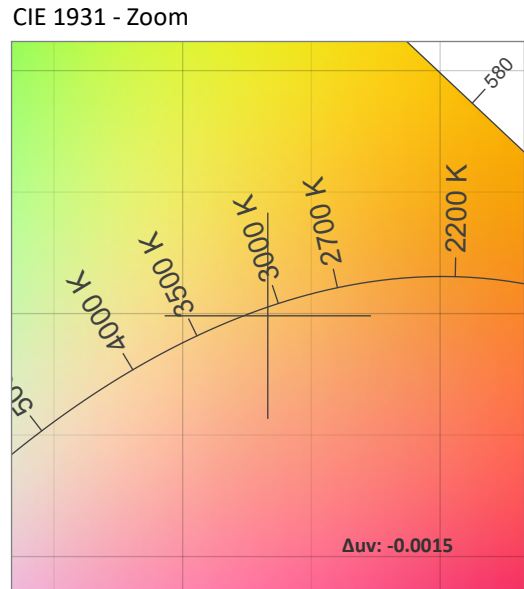
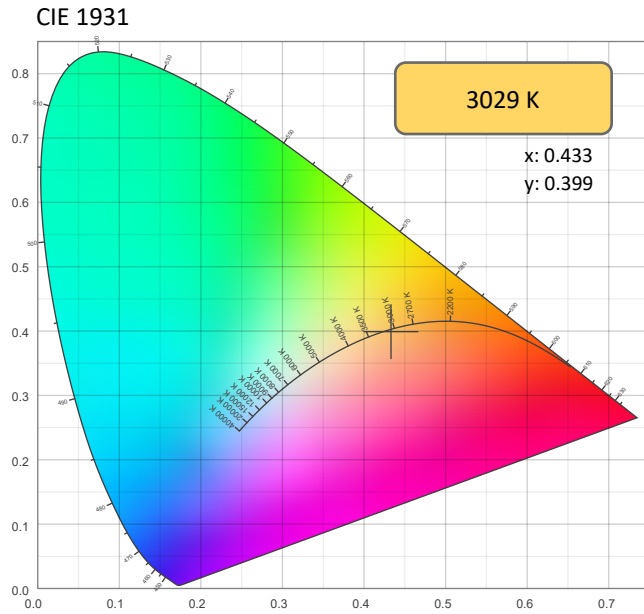
Number of c-planes: 8
 Candela at center: 8.24 lx

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

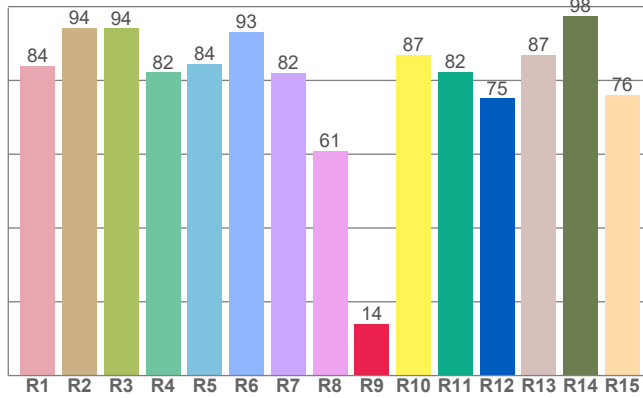
Photometric & Chromaticity Report

Logic GZS: Standard Optics - Warm White Only

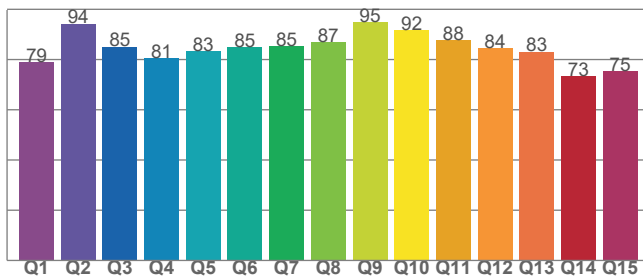
Chromaticity



CRI: 84.4 (R1-R8)



CQS: 83.4



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3029 K	0.433	0.399

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0015	0.399	0.250

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
84.4	14.0	83.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
73	85.6	94.9

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Photometric & Chromaticity Report

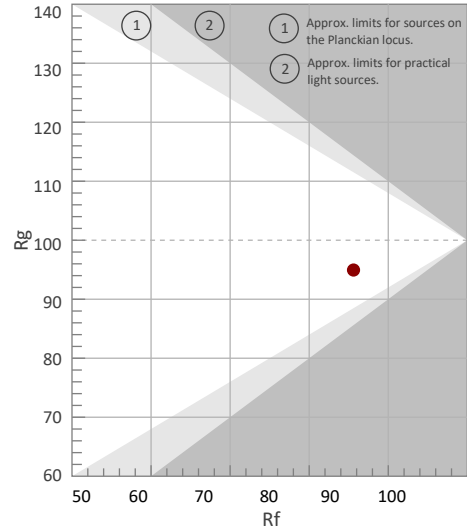
Logic GZS: Standard Optics - Warm White Only

TM-30 Details

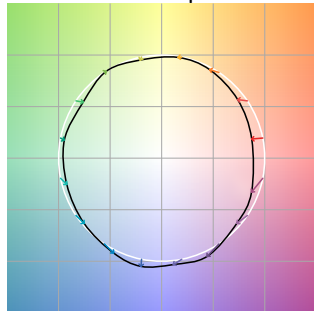
Rf 85.6
Fidelity Index (Rg)

Rg 94.9
Gammut Index (Rg)

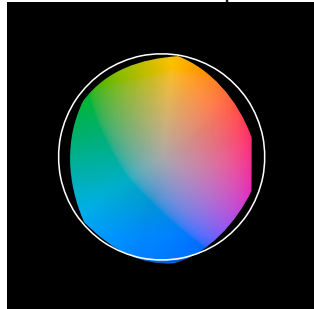
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	80	-11%	1%
2	83	-7%	6%
3	82	-3%	9%
4	92	-1%	3%
5	92	-3%	2%
6	94	0%	-2%
7	88	-7%	-3%
8	92	-4%	1%
9	88	-5%	7%
10	81	-2%	11%
11	83	2%	12%
12	86	7%	1%
13	87	3%	-9%
14	80	4%	-16%
15	80	-4%	-12%
16	77	-8%	-15%



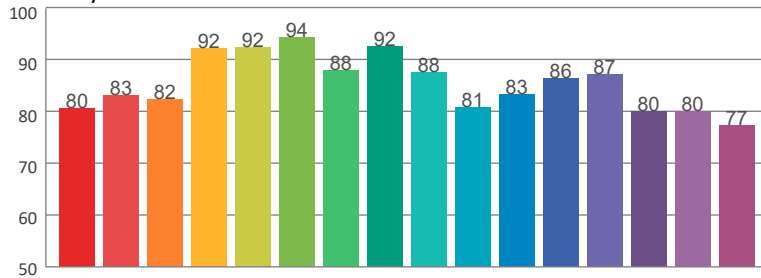
Color Vector Graphic



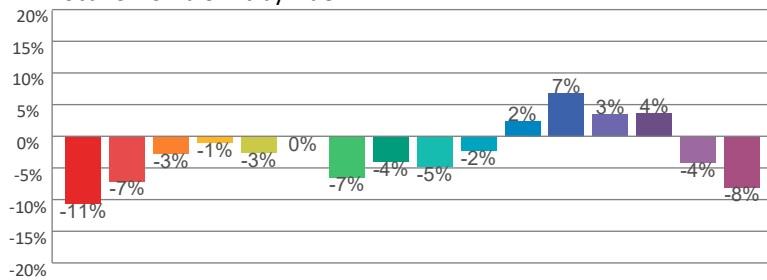
Color Distortion Graphic



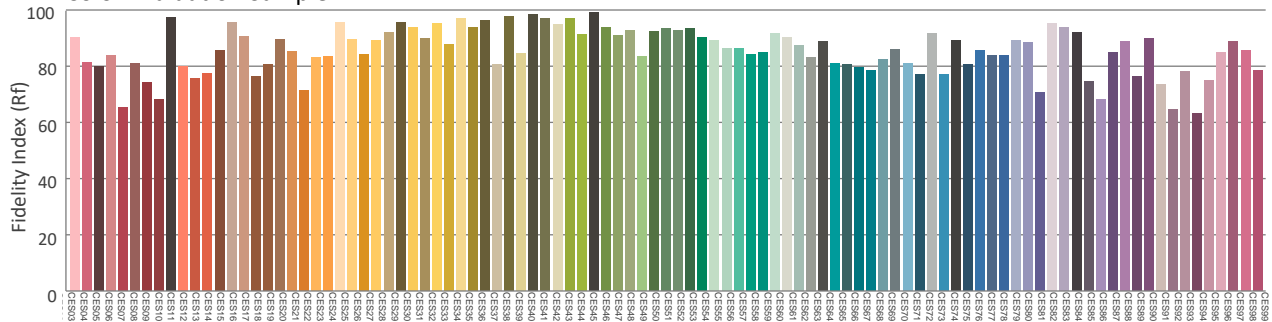
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 1800K

Report Summary

Measurements

Fixture Output: 300 lm
Fixture Peak: 626 cd
Fixture Efficacy: 16 lm/W
Intensity @ 5m: 25 lux
Color Temperature: 1938 K
CRI: 29.4 CRI R9 Value: -34.4
CQS: 35.2
TLCI: 9
TM-30 Rf: 45.8
TM-30 Rg: 88.7
Beam Angle (50%): 30.7°
Field Angle (10%): 65.9°
Cutoff Angle (2%): 103.6°

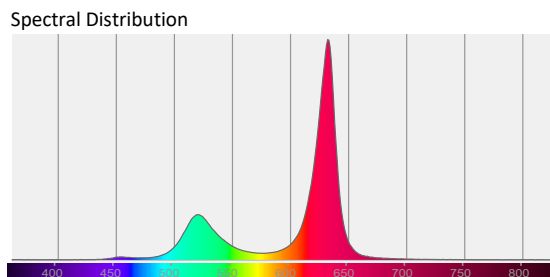
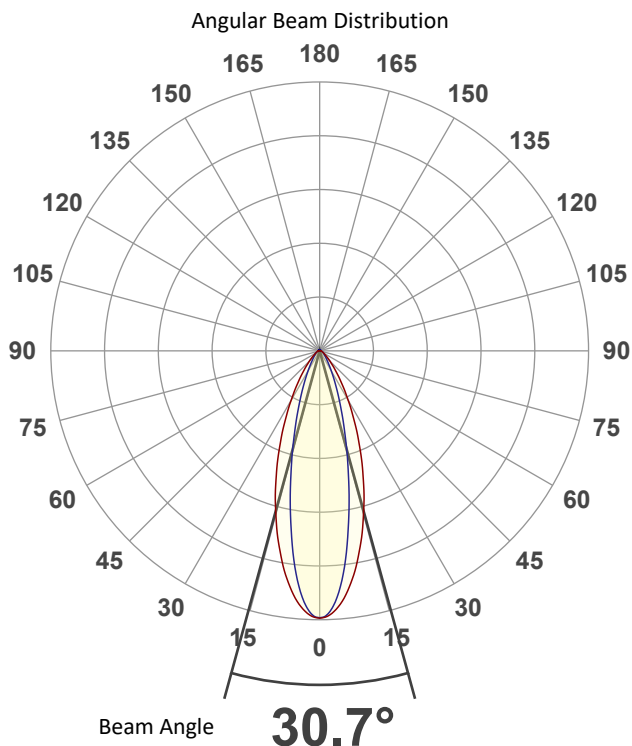
Conditions

AC Supply: 119 V, 60 Hz
Power: 21.41 W
Current: 0.180 A
Power Factor: 0.88



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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

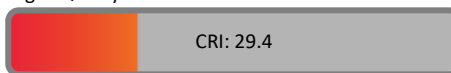
X: 0.537

Y: 0.417



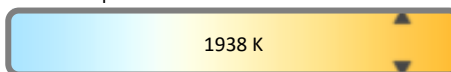
Light Quality

CRI: 29.4



Color Temperature

1938 K



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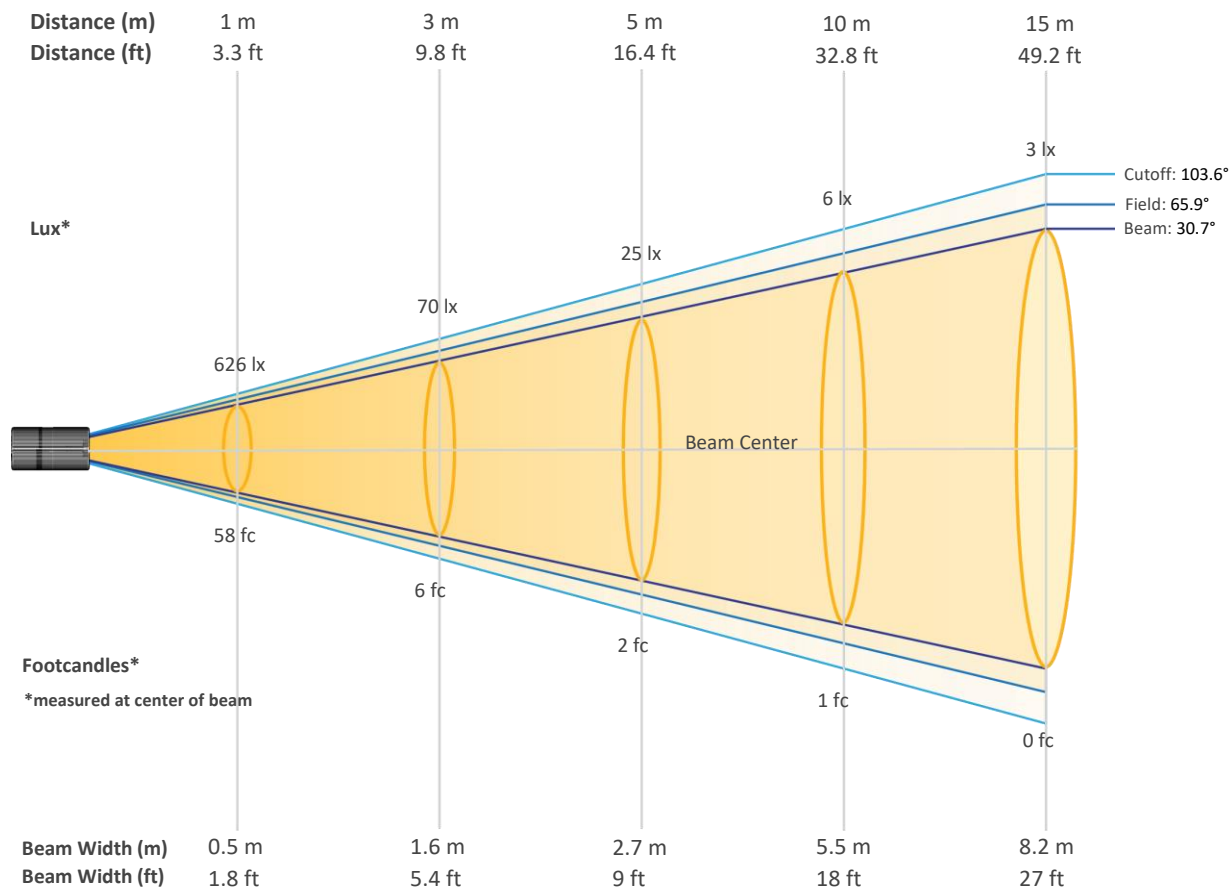
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 1800K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	626	156	70	39	25	17	13	10	8	6
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	5	4	4	3	3	2	2	2	2	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	58	15	6	4	2	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	0	0	0	0	0	0	0	0	0	0

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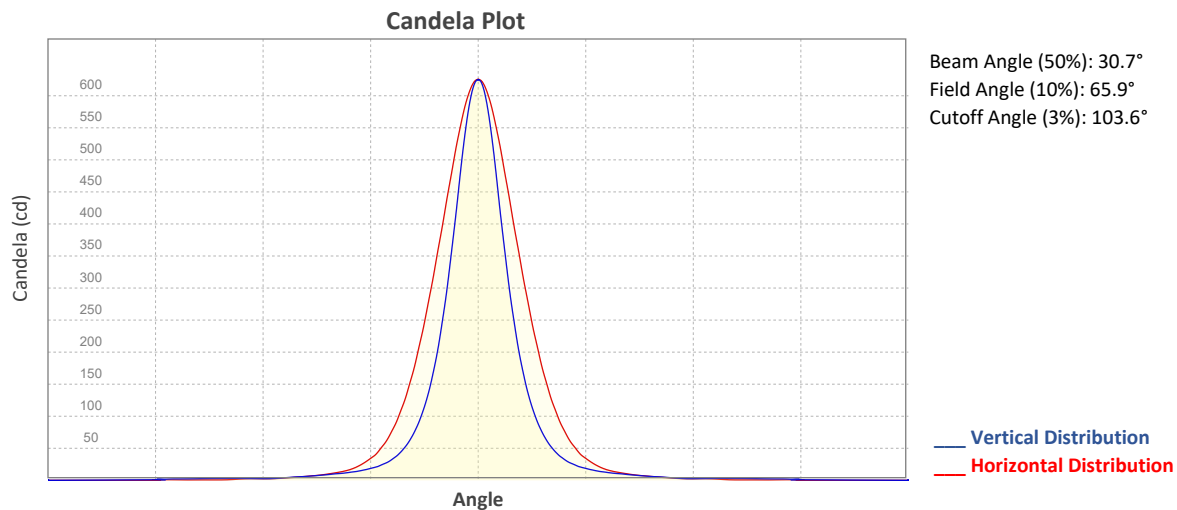
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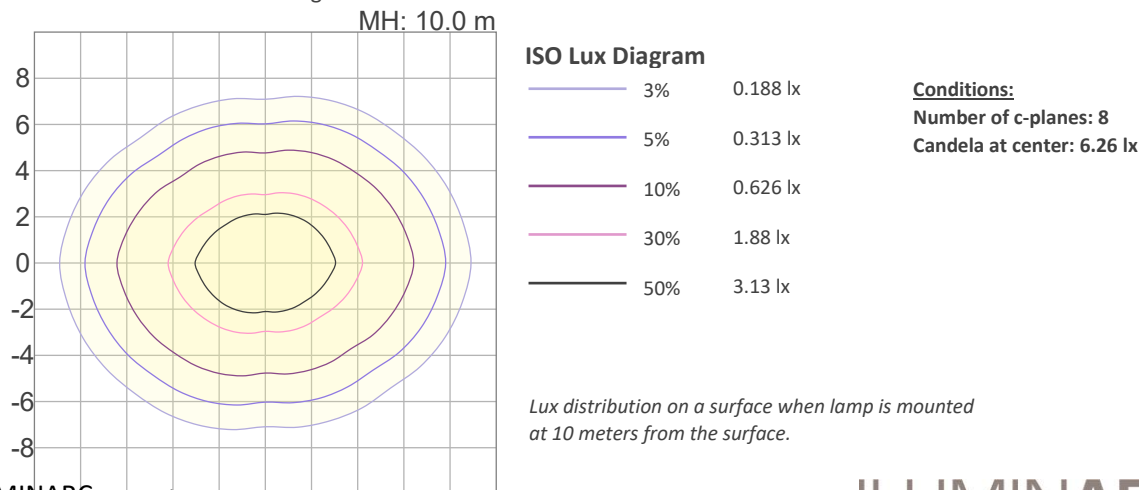
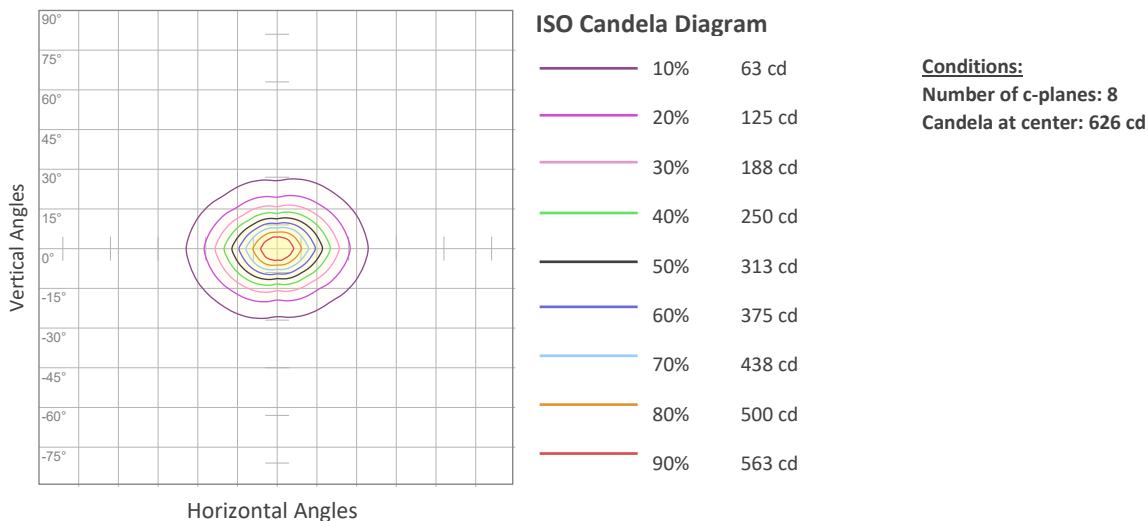
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 1800K



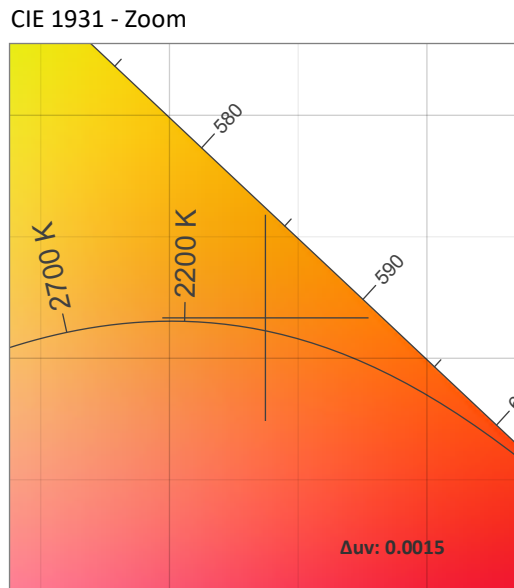
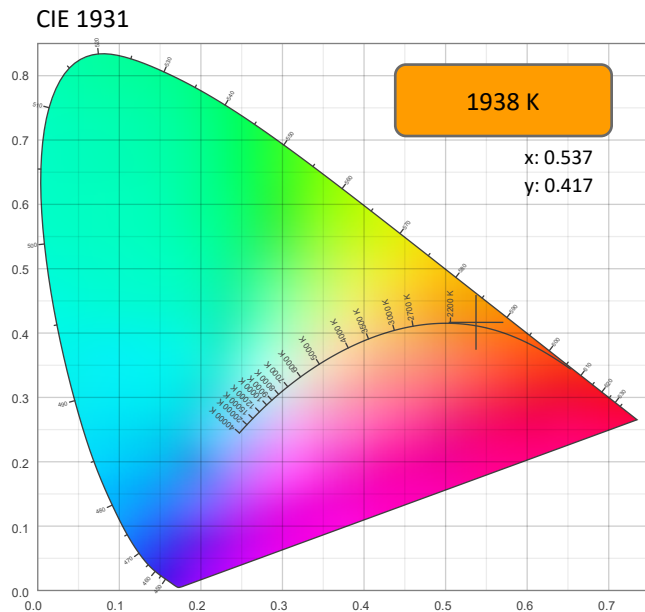
ISO Diagrams



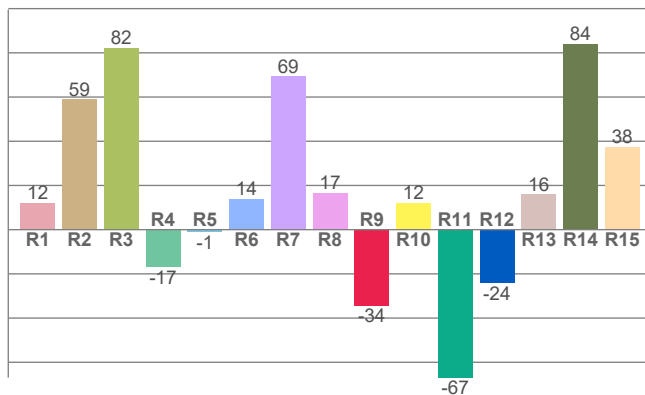
Photometric & Chromaticity Report

Logic GZS: Standard Optics - 1800K

Chromaticity



CRI: 29.4 (R1-R8)

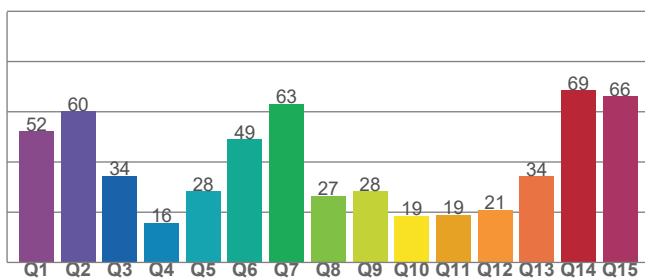


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
1938 K	0.537	0.417

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0015	0.417	0.310

CQS: 35.2



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
29.4	-34.4	35.2

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
9	45.8	88.7

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Photometric & Chromaticity Report

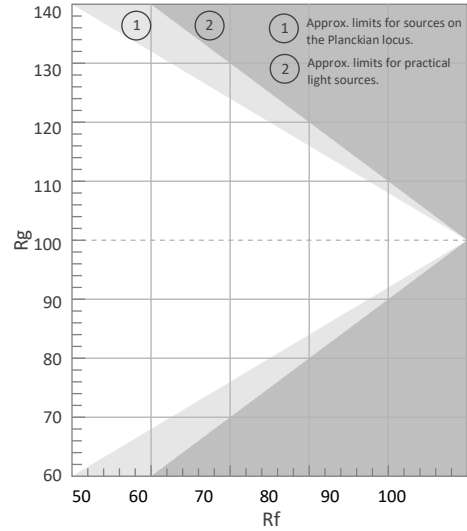
Logic GZS: Standard Optics - 1800K

TM-30 Details

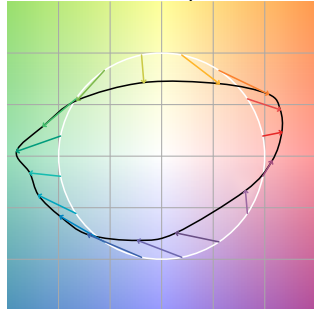
Rf 45.8
Fidelity Index
(Rg)

Rg 88.7
Gammut Index (Rg)

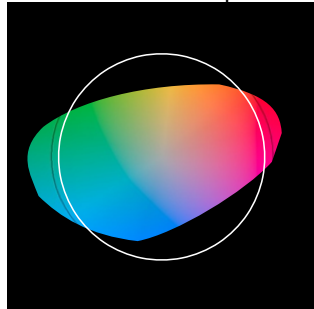
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	59	19%	0%
2	42	21%	-26%
3	9	8%	-53%
4	40	-20%	-41%
5	66	-27%	3%
6	49	-9%	38%
7	40	12%	40%
8	37	39%	23%
9	44	29%	-9%
10	34	20%	-35%
11	23	3%	-50%
12	28	-11%	-55%
13	59	-24%	-39%
14	27	-30%	-30%
15	65	-14%	17%
16	74	6%	16%



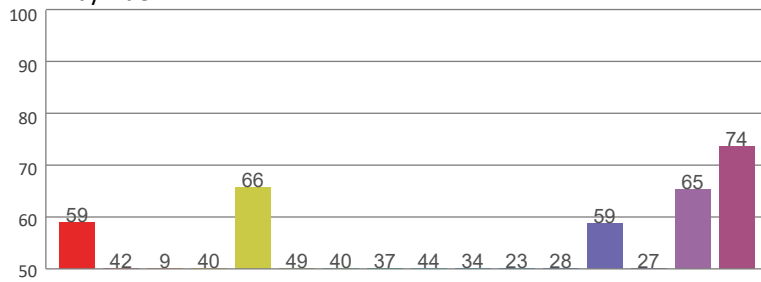
Color Vector Graphic



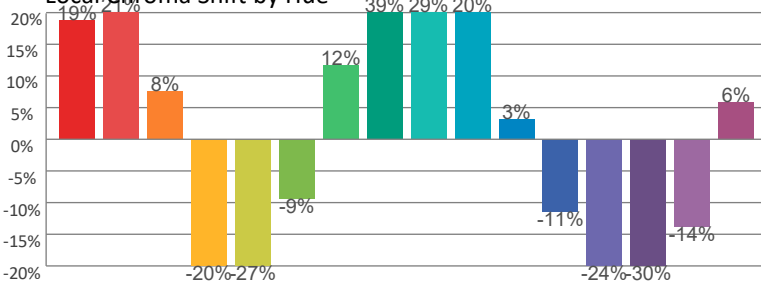
Color Distortion Graphic



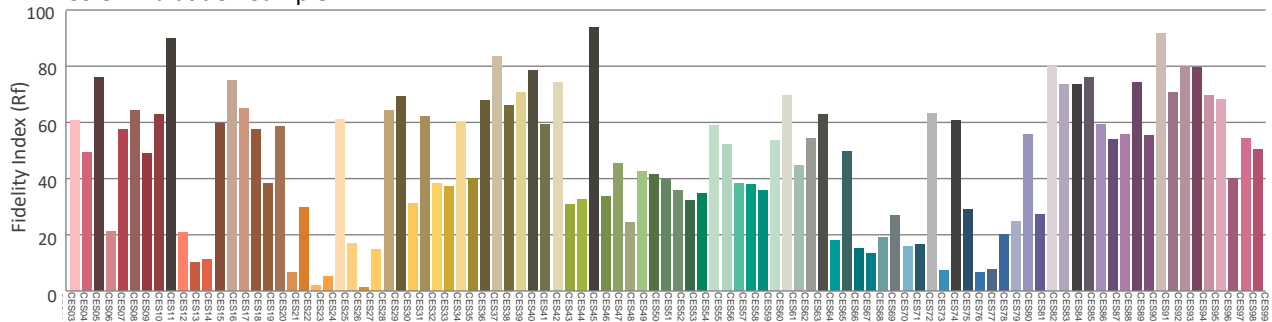
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 2200K

Report Summary

Measurements

Fixture Output: 431 lm
Fixture Peak: 861 cd
Fixture Efficacy: 21 lm/W
Intensity @ 5m: 34 lux
Color Temperature: 2354 K
CRI: 48.9 CRI R9 Value: -21.9
CQS: 57.1
TLCI: 21
TM-30 Rf: 64.2
TM-30 Rg: 102.8
Beam Angle (50%): 31.7°
Field Angle (10%): 67.1°
Cutoff Angle (2%): 105.8°

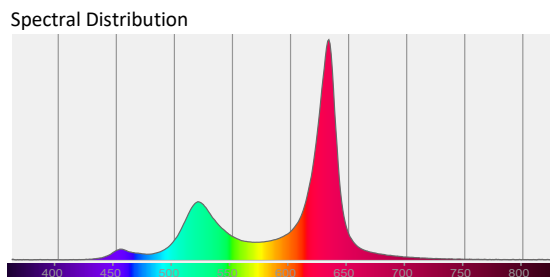
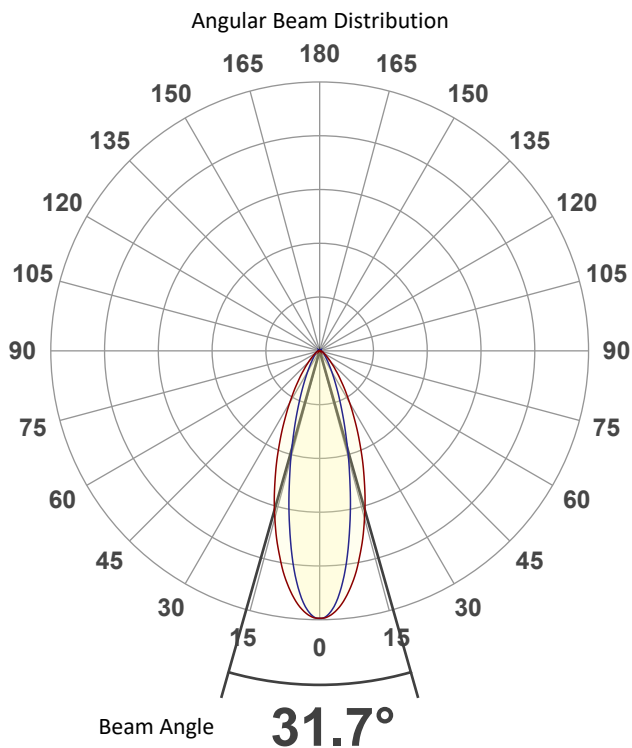
Conditions

AC Supply: 119 V, 60.1 Hz
Power: 22.99 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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.496
Y: 0.423



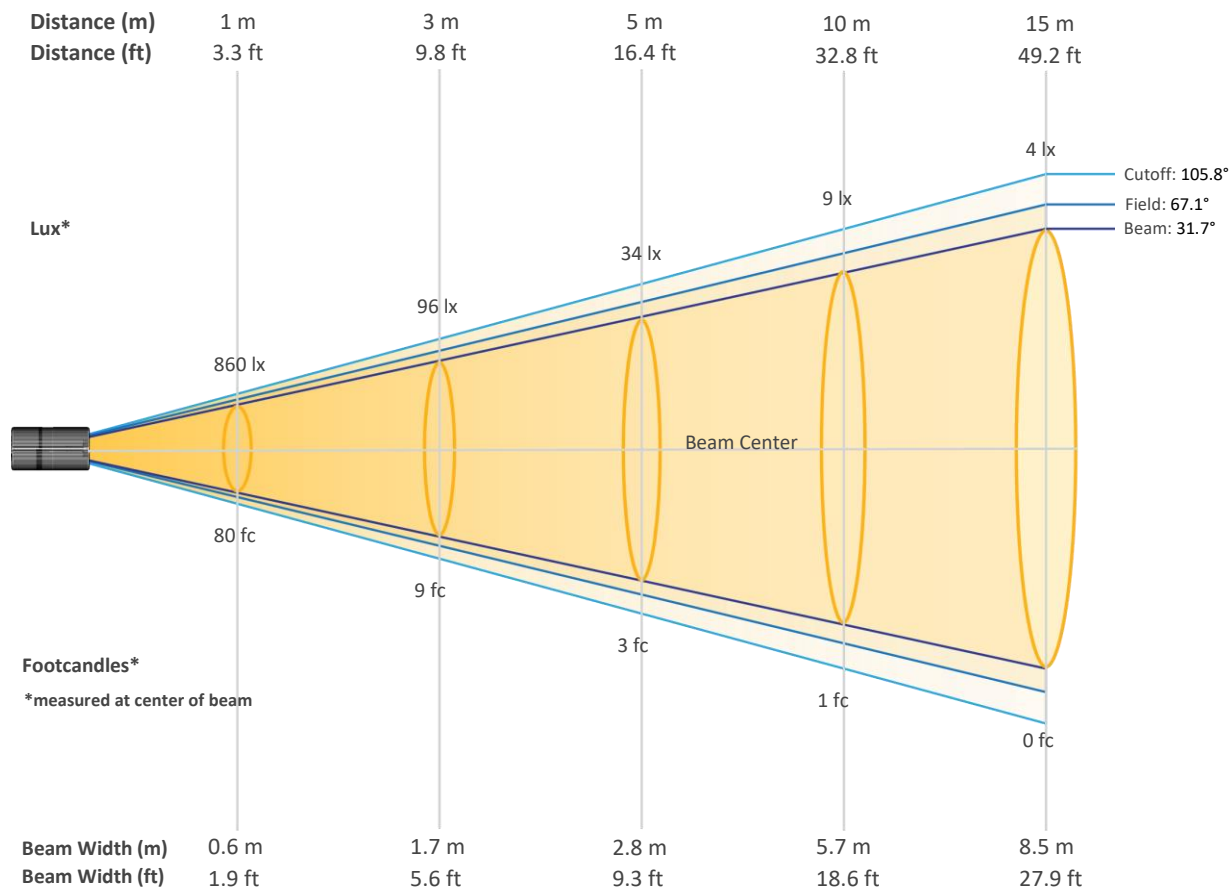
Light Quality
CRI: 48.9

Color Temperature
2354 K

Photometric & Chromaticity Report

Logic GZS: Standard Optics - 2200K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	860	215	96	54	34	24	18	13	11	9
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	7	6	5	4	4	3	3	3	2	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	80	20	9	5	3	2	2	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	1	0	0	0	0	0	0	0	0

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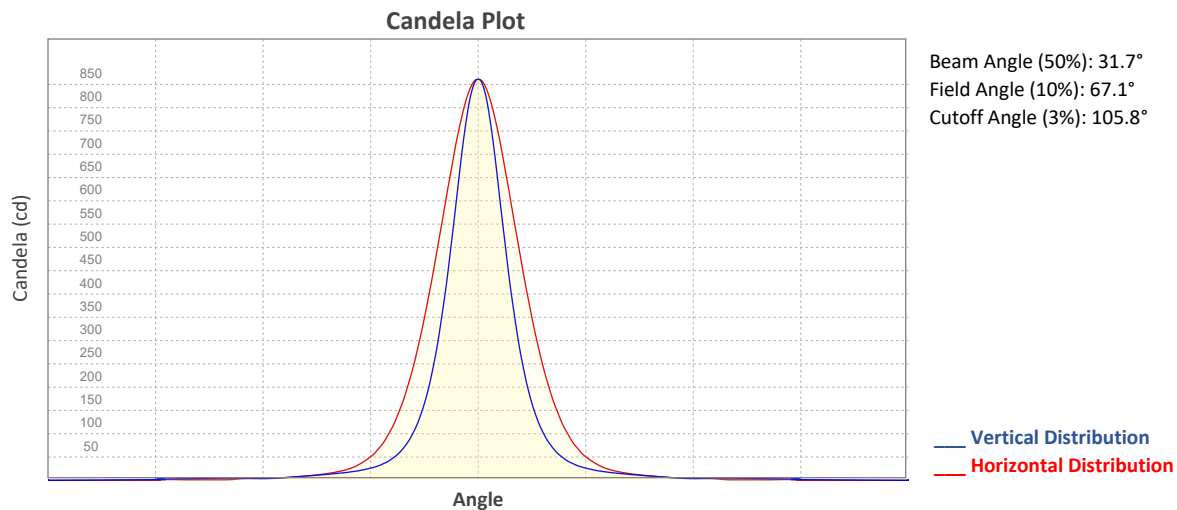
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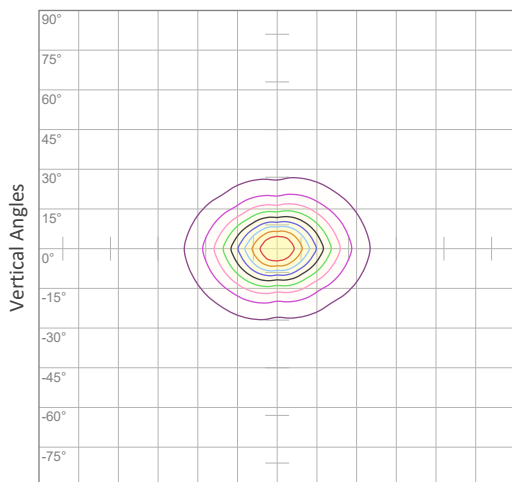
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 2200K



ISO Diagrams



ISO Candela Diagram

10%	86 cd
20%	172 cd
30%	258 cd
40%	344 cd
50%	430 cd
60%	516 cd
70%	602 cd
80%	688 cd
90%	774 cd

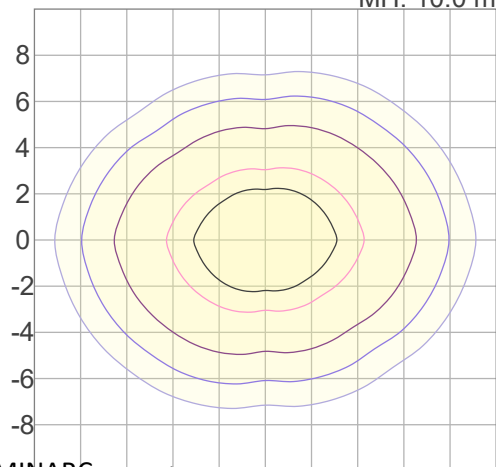
Conditions:

Number of c-planes: 8

Candela at center: 860 cd

Horizontal Angles

MH: 10.0 m



ISO Lux Diagram

3%	0.258 lx
5%	0.430 lx
10%	0.860 lx
30%	2.58 lx
50%	4.30 lx

Conditions:

Number of c-planes: 8

Candela at center: 8.60 lx

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

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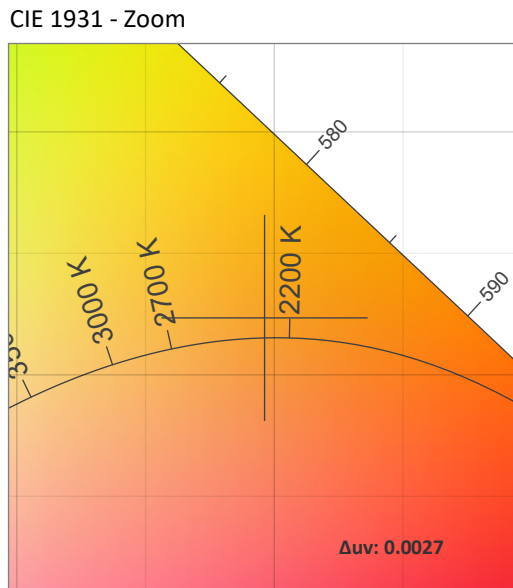
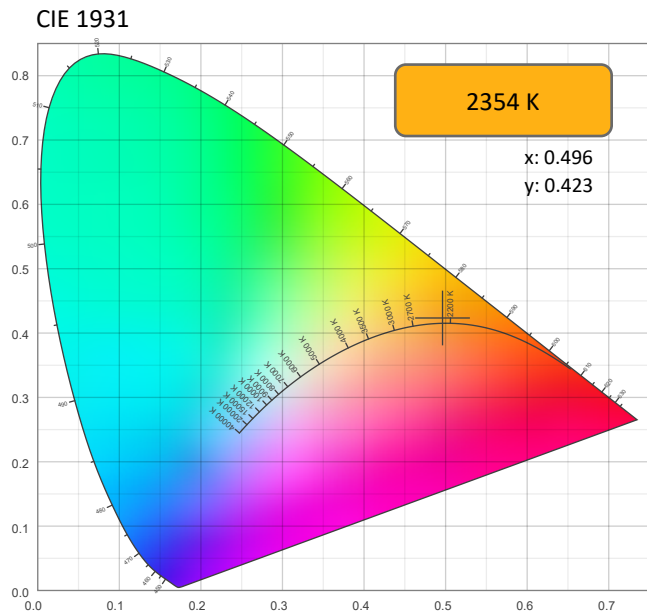
Mounting height: 10 meters / 33 feet

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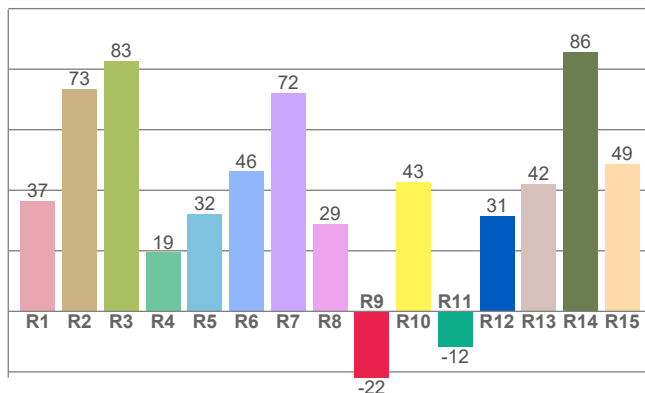
Photometric & Chromaticity Report

Logic GZS: Standard Optics - 2200K

Chromaticity



CRI: 48.9 (R1-R8)

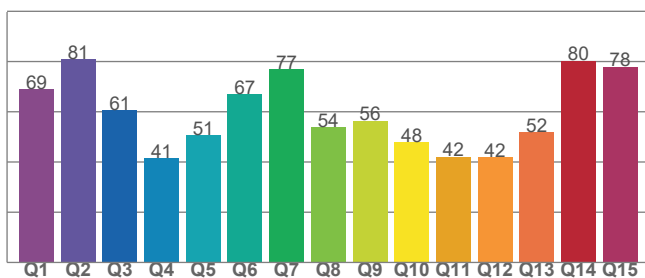


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2354 K	0.496	0.423

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0027	0.423	0.280

CQS: 57.1



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
48.9	-21.9	57.1

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
21	64.2	102.8

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Photometric & Chromaticity Report

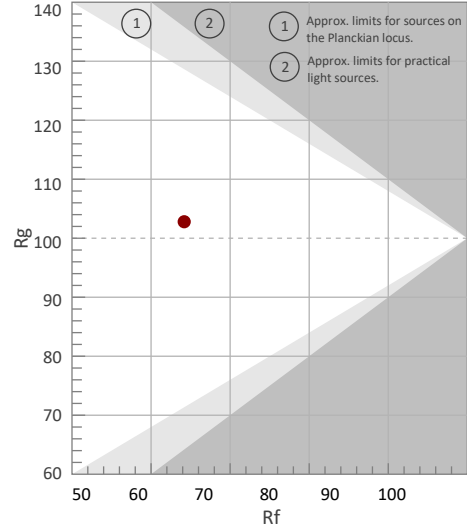
Logic GZS: Standard Optics - 2200K

TM-30 Details

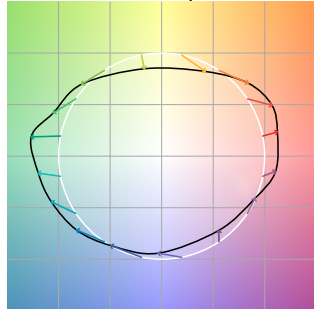
Rf 64.2
Fidelity Index (Rg)

Rg 102.8
Gammut Index (Rg)

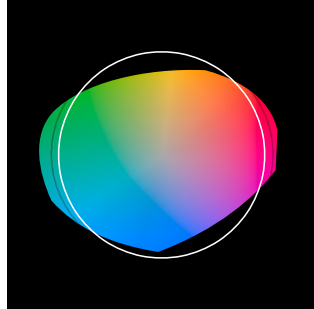
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	69	15%	1%
2	59	16%	-18%
3	39	5%	-30%
4	62	-11%	-25%
5	78	-14%	0%
6	67	1%	26%
7	60	11%	24%
8	56	28%	6%
9	62	21%	-7%
10	57	14%	-23%
11	57	5%	-29%
12	55	-5%	-31%
13	76	-8%	-22%
14	78	-9%	6%
15	75	-2%	16%
16	79	11%	7%



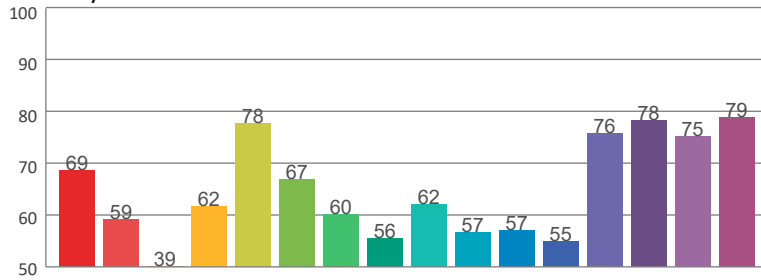
Color Vector Graphic



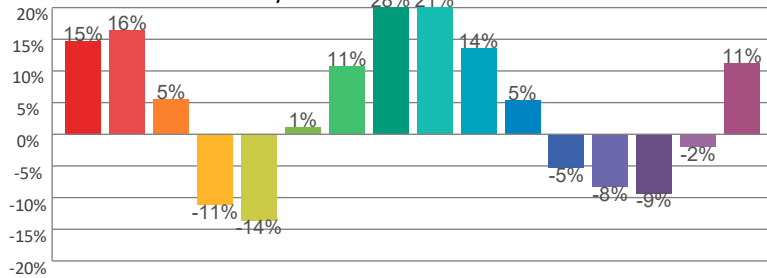
Color Distortion Graphic



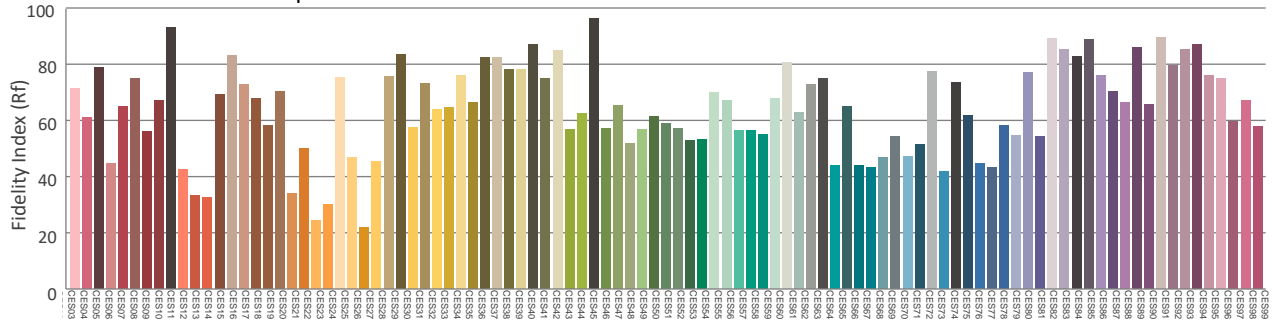
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 2700K

Report Summary

Measurements

Fixture Output: 682 lm

Fixture Peak: 1279 cd

Fixture Efficacy: 30 lm/W

Intensity @ 5m: 51 lux

Color Temperature: 2696 K

CRI: 83.0 CRI R9 Value: 64.9

CQS: 85.9

TLCI: 70

TM-30 Rf: 86.8

TM-30 Rg: 104.9

Beam Angle (50%): 33.4°

Field Angle (10%): 68.8°

Cutoff Angle (2%): 108.7°

Conditions

AC Supply: 119 V, 60 Hz

Power: 24.83 W

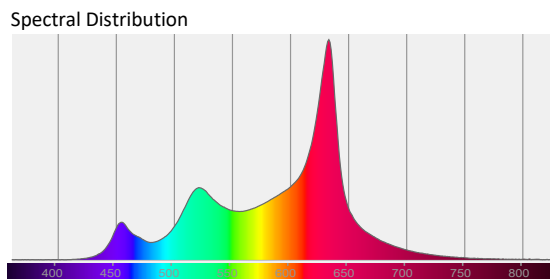
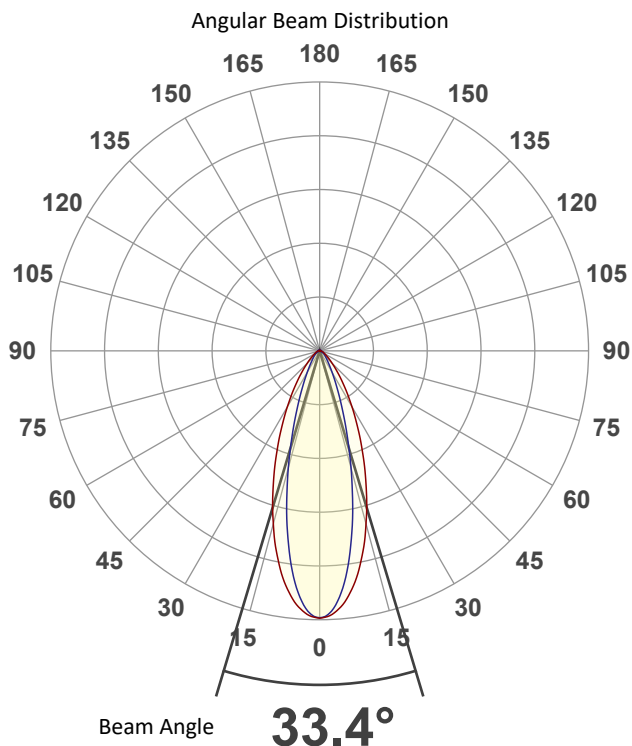
Current: 0.209 A

Power Factor: 0.9



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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.460

Y: 0.411



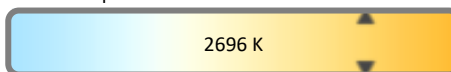
Light Quality

CRI: 83.0



Color Temperature

2696 K



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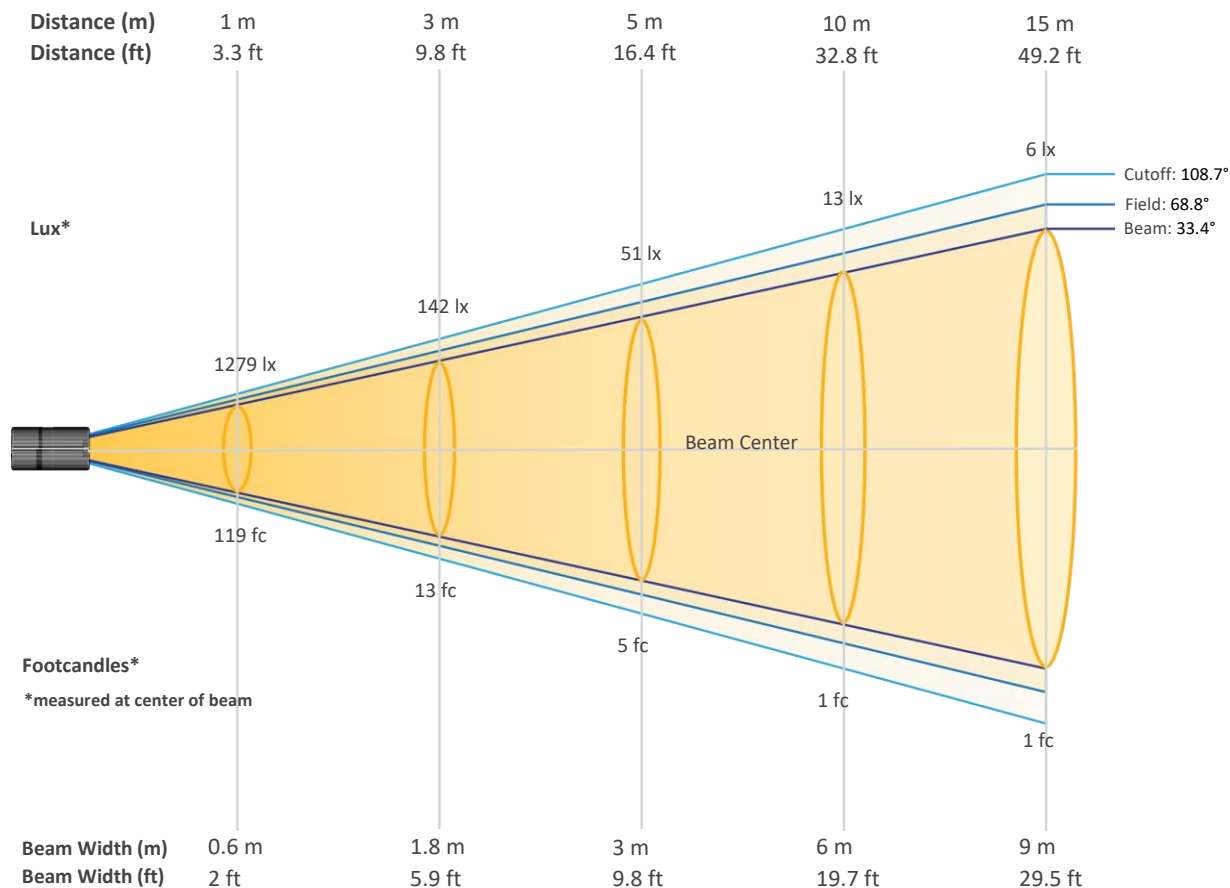
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 2700K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1279	320	142	80	51	36	26	20	16	13
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	11	9	8	7	6	5	4	4	4	3
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	119	30	13	7	5	3	2	2	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	1	1	1	1	0	0	0	0	0

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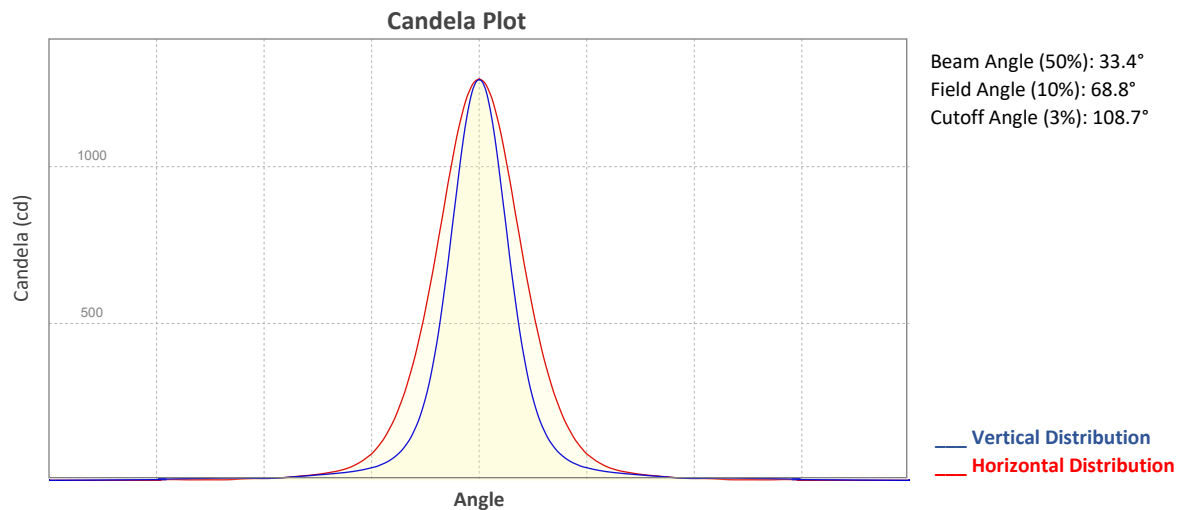
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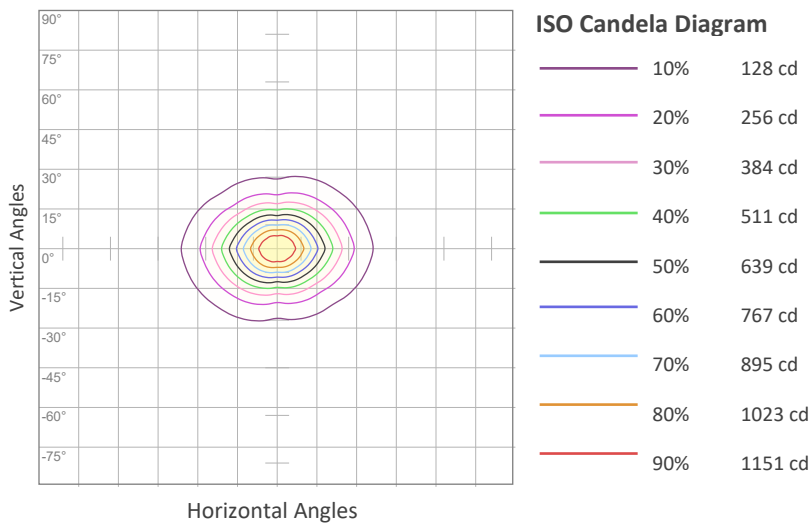
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Photometric & Chromaticity Report

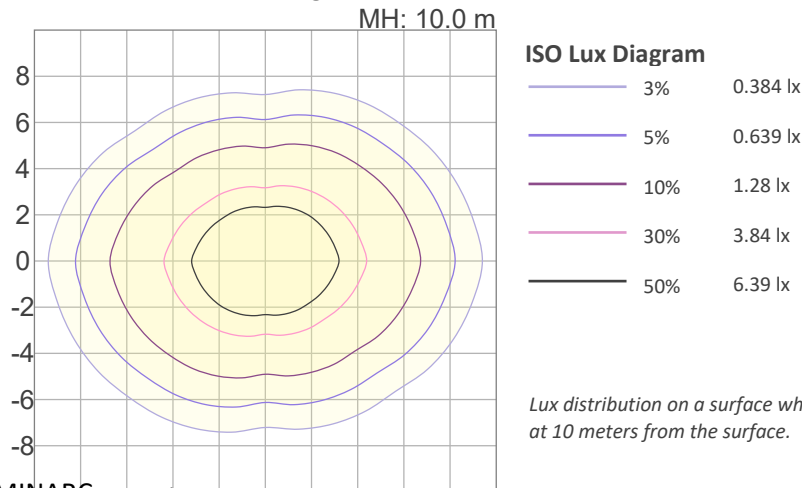
Logic GZS: Standard Optics - 2700K



ISO Diagrams



Conditions:
 Number of c-planes: 8
 Candela at center: 1279 cd



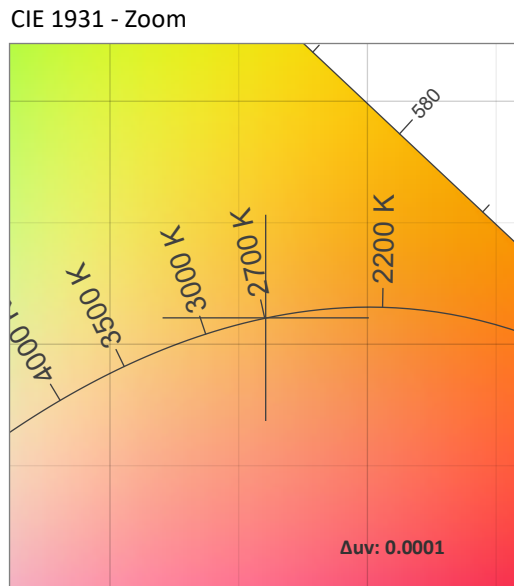
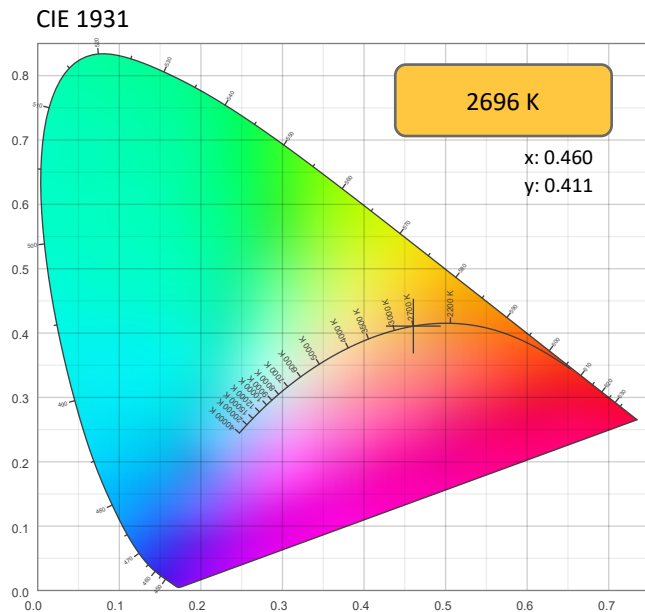
Conditions:
 Number of c-planes: 8
 Candela at center: 12.8 lx

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

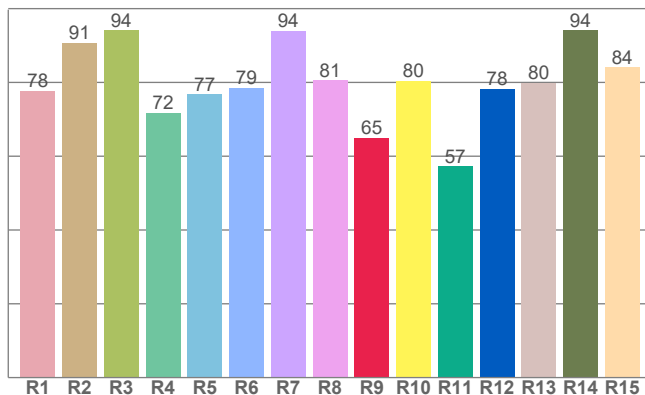
Photometric & Chromaticity Report

Logic GZS: Standard Optics - 2700K

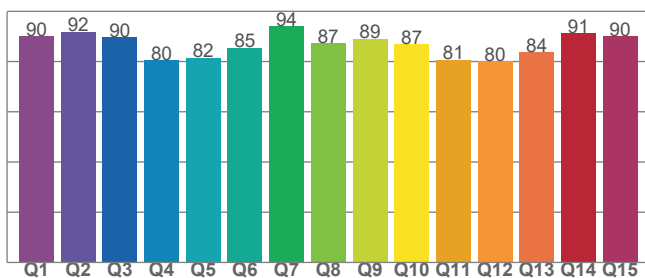
Chromaticity



CRI: 83.0 (R1-R8)



CQS: 85.9



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2696 K	0.460	0.411

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0001	0.411	0.263

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
83.0	64.9	85.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
70	86.8	104.9

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Photometric & Chromaticity Report

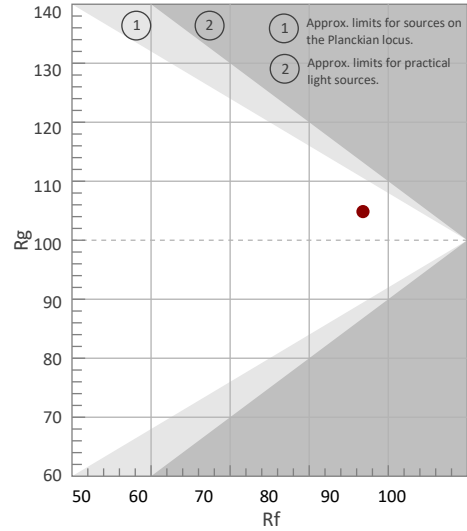
Logic GZS: Standard Optics - 2700K

TM-30 Details

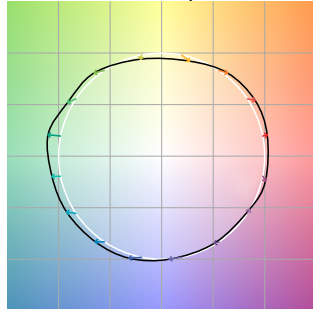
Rf 86.8
Fidelity Index
(Rg)

Rg 104.9
Gammut Index (Rg)

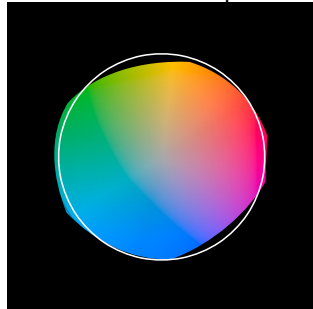
		Graphic shifts (%)		
Hue Bin	R _f	Chroma	Hue	
1	89	4%	0%	
2	86	5%	-5%	
3	82	3%	-8%	
4	86	-4%	-8%	
5	91	-4%	2%	
6	87	3%	9%	
7	85	5%	7%	
8	81	12%	1%	
9	85	8%	-1%	
10	85	7%	-6%	
11	88	5%	-7%	
12	81	3%	-12%	
13	85	-1%	-12%	
14	90	-1%	-4%	
15	89	0%	4%	
16	91	3%	-4%	



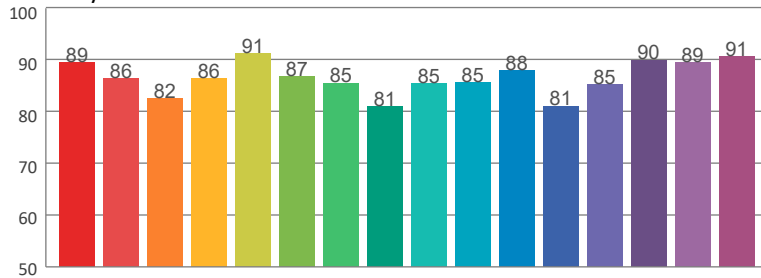
Color Vector Graphic



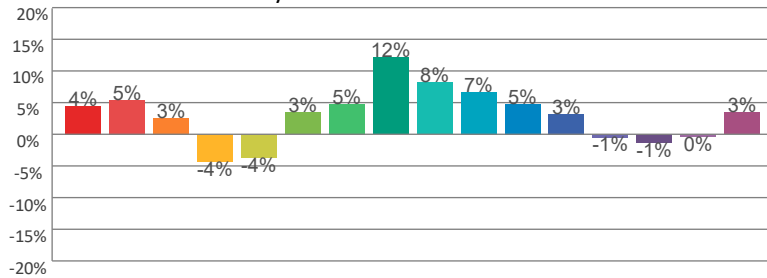
Color Distortion Graphic



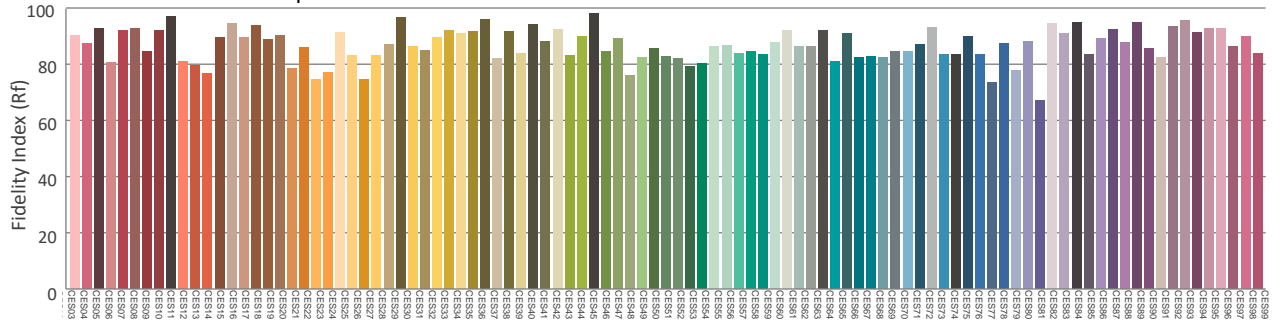
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 3000K

Report Summary

Measurements

Fixture Output: 525 lm

Fixture Peak: 943 cd

Fixture Efficacy: 29 lm/W

Intensity @ 5m: 38 lux

Color Temperature: 2929 K

CRI: 94.3 CRI R9 Value: 58.7

CQS: 92.0

TLCl: 85

TM-30 Rf: 91.6

TM-30 Rg: 98.9

Beam Angle (50%): 34.6°

Field Angle (10%): 70°

Cutoff Angle (2%): 110.7°

Conditions

AC Supply: 119 V, 60 Hz

Power: 20.95 W

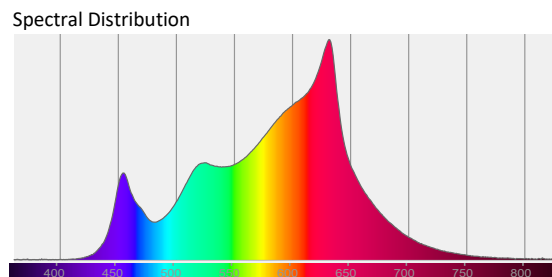
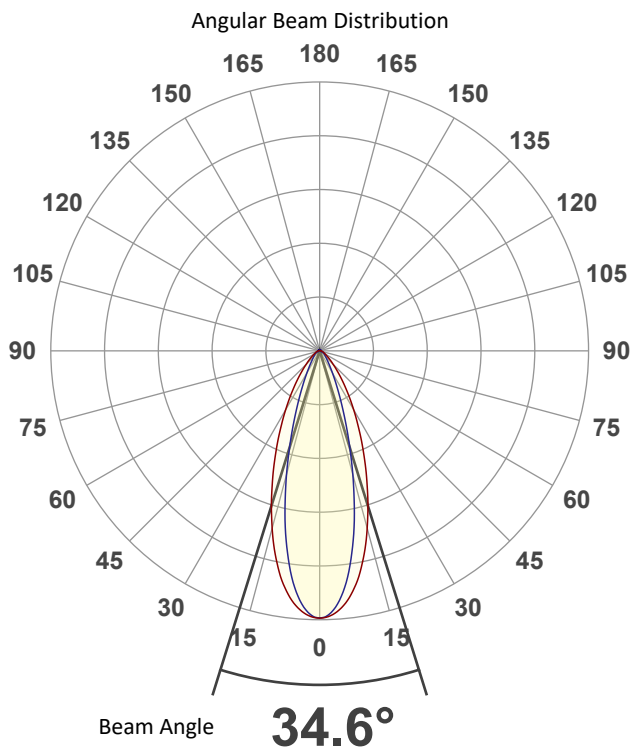
Current: 0.177 A

Power Factor: 0.88



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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

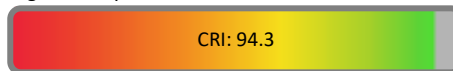
X: 0.441

Y: 0.403



Light Quality

CRI: 94.3



Color Temperature

2929 K



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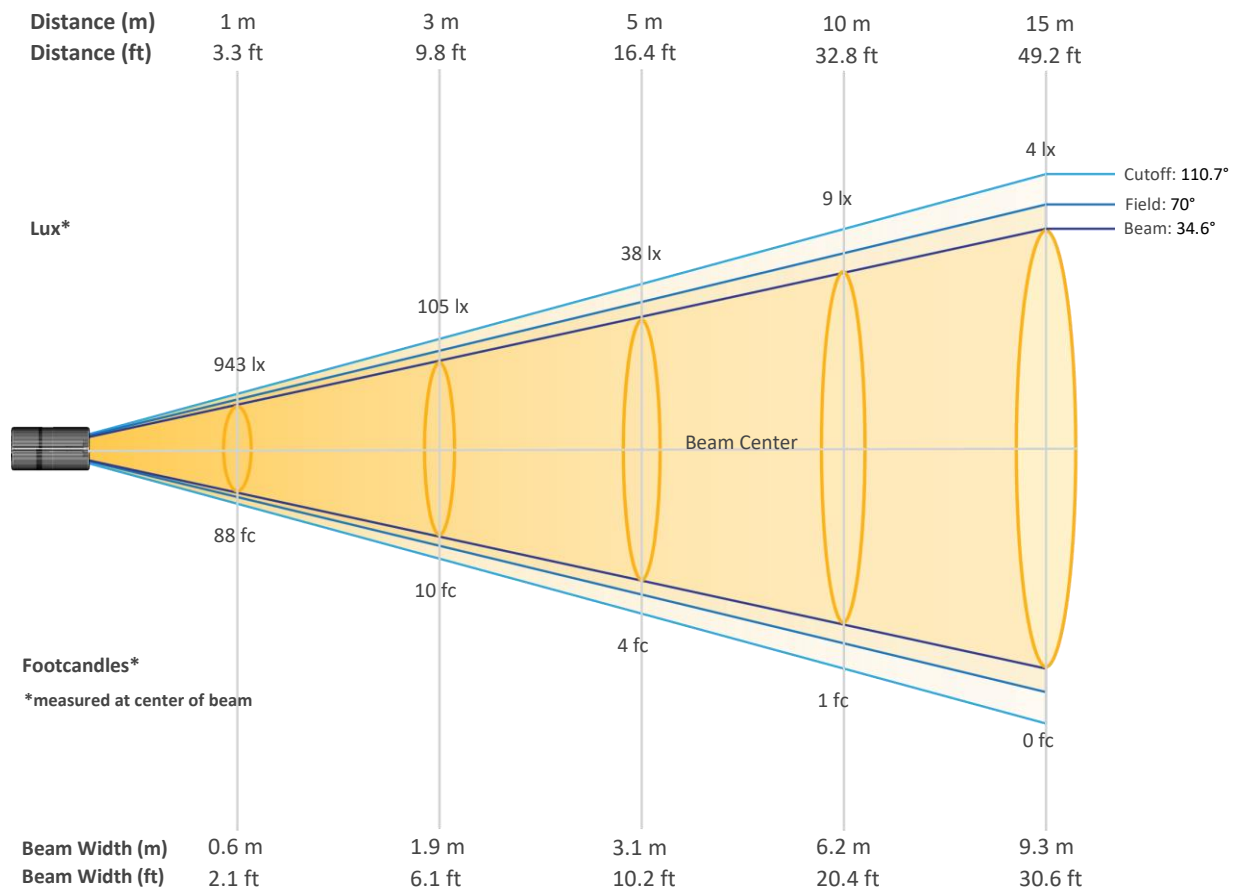
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 3000K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	943	236	105	59	38	26	19	15	12	9
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	8	7	6	5	4	4	3	3	3	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	88	22	10	5	4	2	2	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	1	1	0	0	0	0	0	0	0

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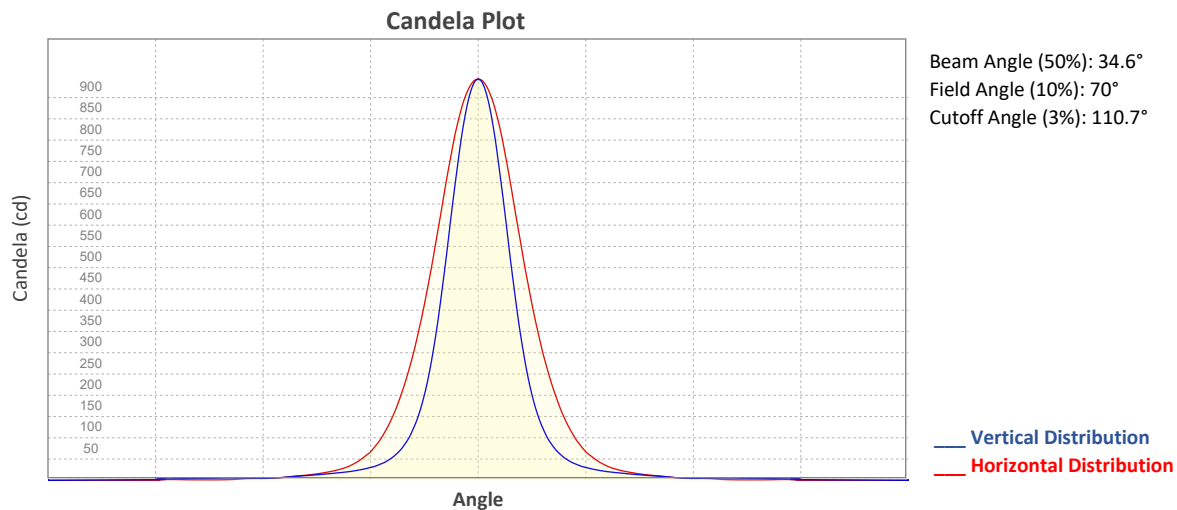
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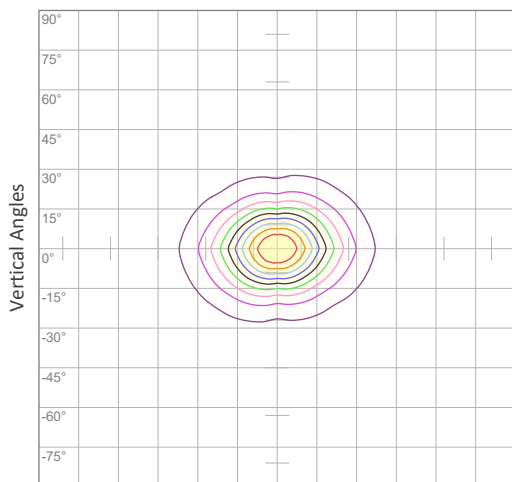
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 3000K



ISO Diagrams

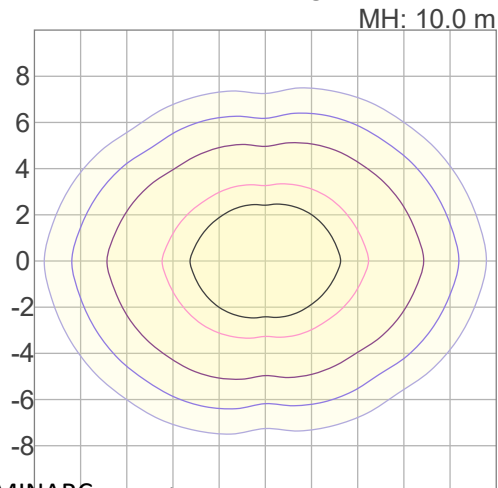


ISO Candela Diagram

10%	94 cd
20%	189 cd
30%	283 cd
40%	377 cd
50%	472 cd
60%	566 cd
70%	660 cd
80%	754 cd
90%	849 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 943 cd

Horizontal Angles



ISO Lux Diagram

3%	0.283 lx
5%	0.472 lx
10%	0.943 lx
30%	2.83 lx
50%	4.72 lx

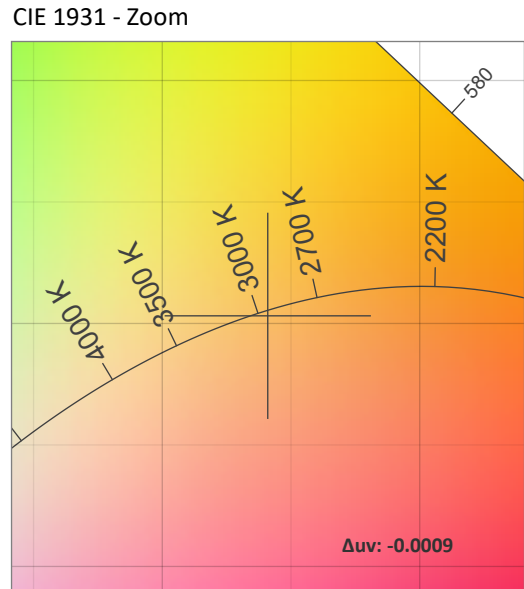
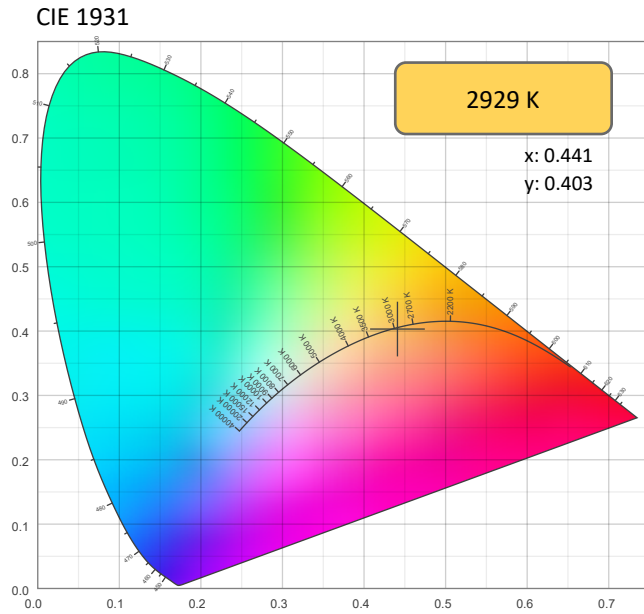
Conditions:
 Number of c-planes: 8
 Candela at center: 9.43 lx

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

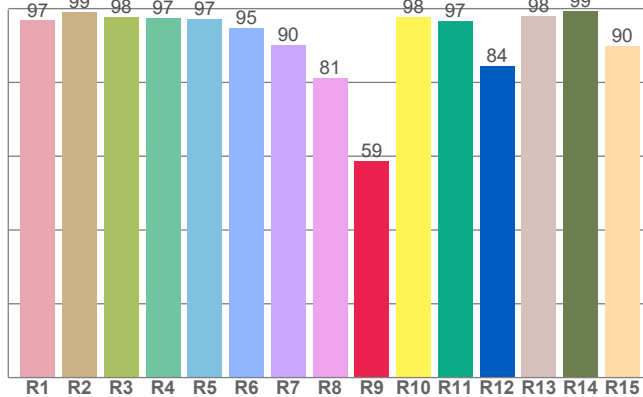
Photometric & Chromaticity Report

Logic GZS: Standard Optics - 3000K

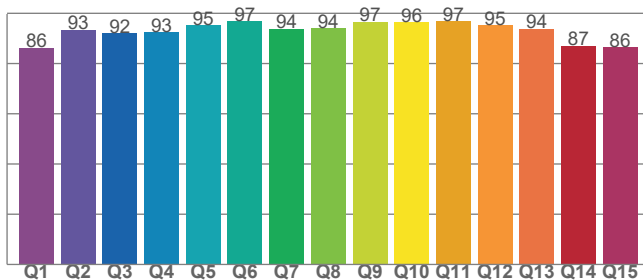
Chromaticity



CRI: 94.3 (R1-R8)



CQS: 92.0



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2929 K	0.441	0.403

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0009	0.403	0.254

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
94.3	58.7	92.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
85	91.6	98.9

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Photometric & Chromaticity Report

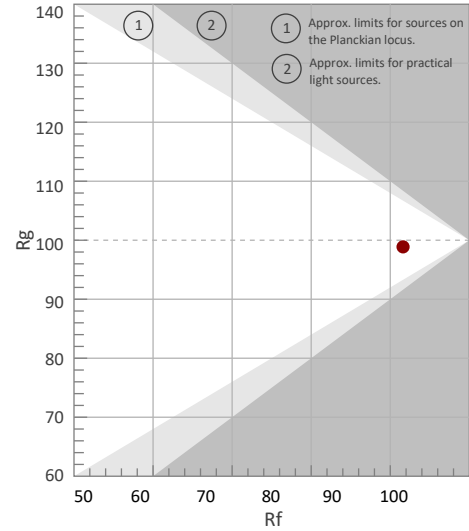
Logic GZS: Standard Optics - 3000K

TM-30 Details

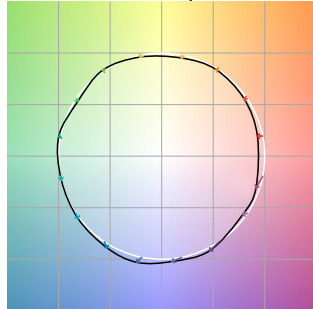
Rf 91.6
Fidelity Index
(Rg)

Rg 98.9
Gammut Index (Rg)

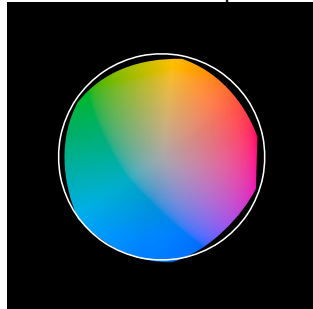
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	90	-5%	1%
2	93	-3%	2%
3	93	-1%	3%
4	95	-3%	-1%
5	95	-2%	2%
6	96	1%	1%
7	93	-3%	1%
8	97	2%	1%
9	94	0%	4%
10	91	1%	5%
11	91	3%	6%
12	88	6%	-3%
13	87	2%	-10%
14	85	2%	-12%
15	91	-3%	-3%
16	83	-4%	-12%



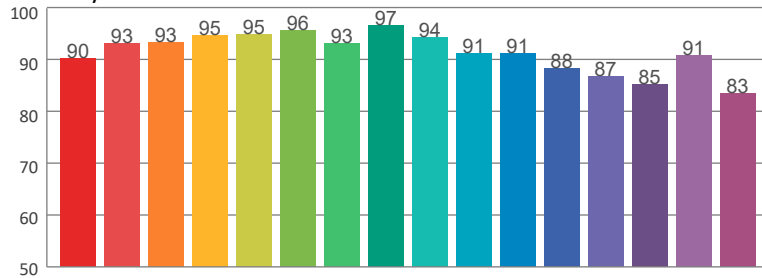
Color Vector Graphic



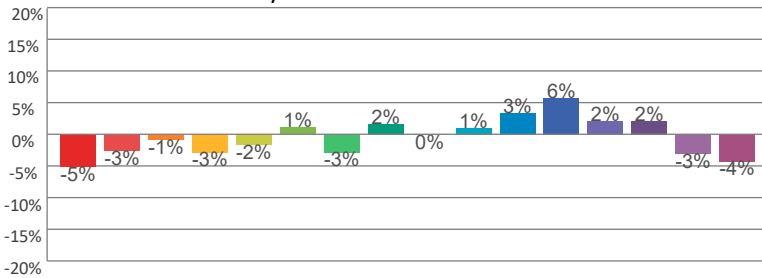
Color Distortion Graphic



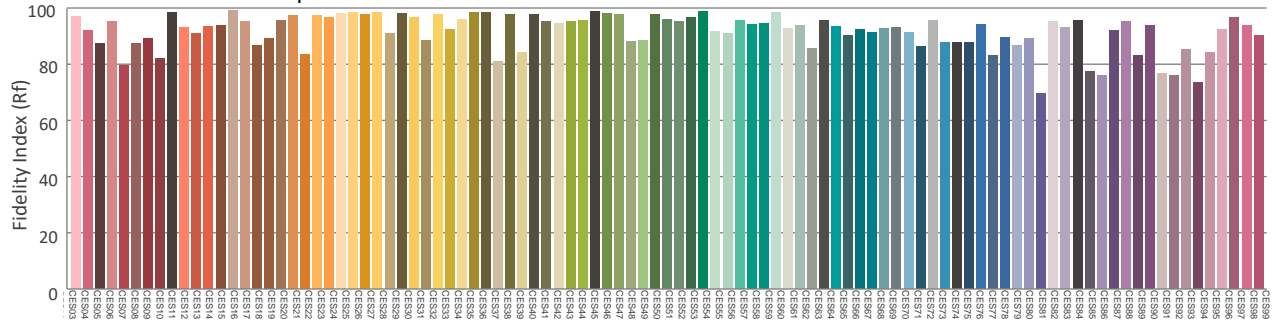
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 3200K

Report Summary

Measurements

Fixture Output: 529 lm
Fixture Peak: 952 cd
Fixture Efficacy: 29 lm/W
Intensity @ 5m: 38 lux
Color Temperature: 3125 K
CRI: 93.3 CRI R9 Value: 63.1
CQS: 92.2
TLCI: 87
TM-30 Rf: 90.2
TM-30 Rg: 97.5
Beam Angle (50%): 34.6°
Field Angle (10%): 70°
Cutoff Angle (2%): 110.7°

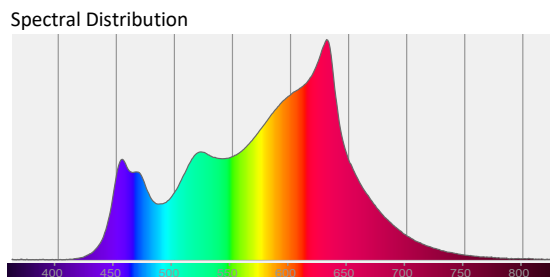
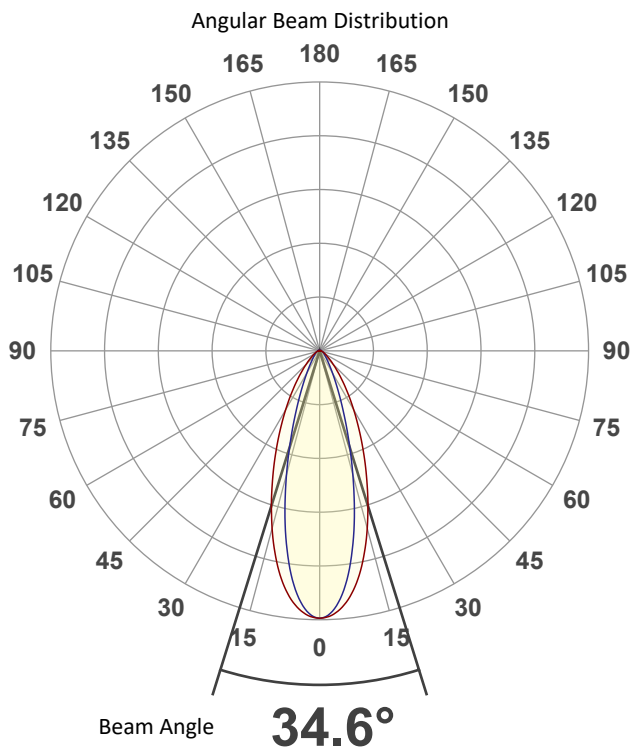
Conditions

AC Supply: 119 V, 60 Hz
Power: 21.1 W
Current: 0.178 A
Power Factor: 0.88



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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

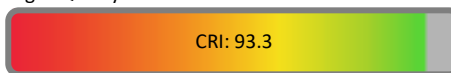
X: 0.425

Y: 0.394



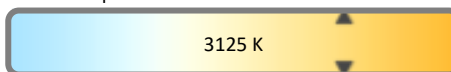
Light Quality

CRI: 93.3



Color Temperature

3125 K



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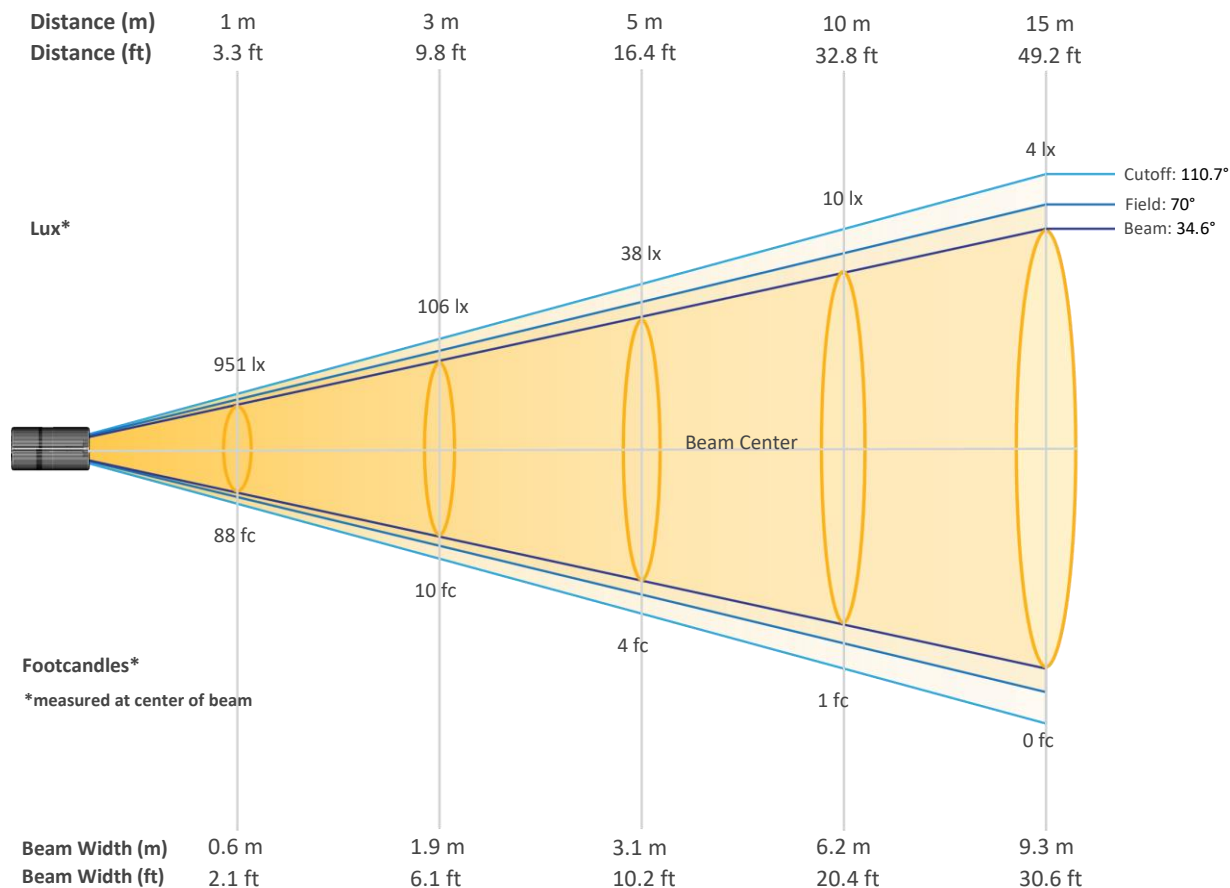
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 3200K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	951	238	106	59	38	26	19	15	12	10
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	8	7	6	5	4	4	3	3	3	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	88	22	10	6	4	2	2	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	1	1	0	0	0	0	0	0	0

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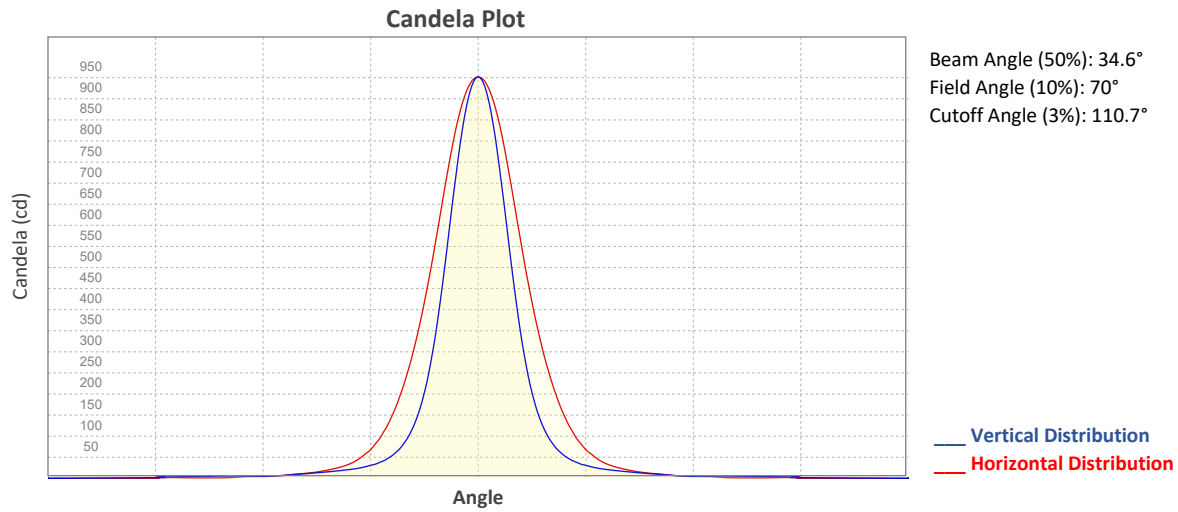
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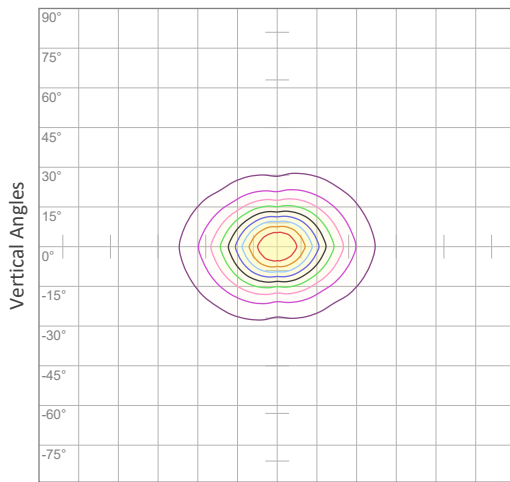
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 3200K



ISO Diagrams



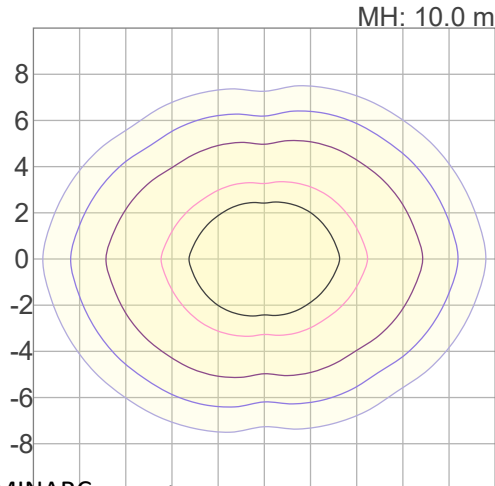
ISO Candela Diagram

10%	95 cd
20%	190 cd
30%	285 cd
40%	381 cd
50%	476 cd
60%	571 cd
70%	666 cd
80%	761 cd
90%	856 cd

Conditions:

Number of c-planes: 8
Candela at center: 951 cd

Horizontal Angles



ISO Lux Diagram

3%	0.285 lx
5%	0.476 lx
10%	0.951 lx
30%	2.85 lx
50%	4.76 lx

Conditions:

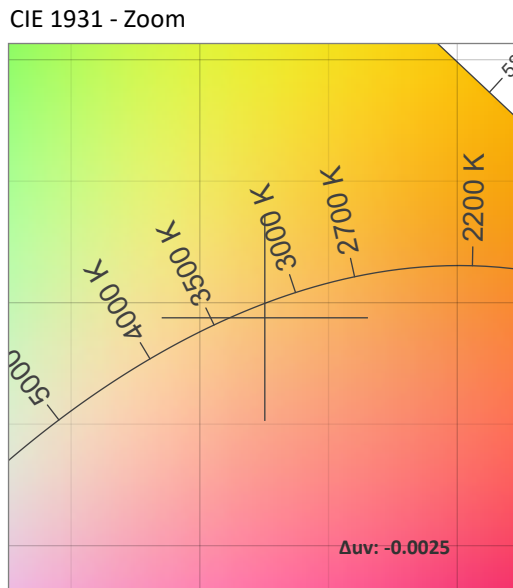
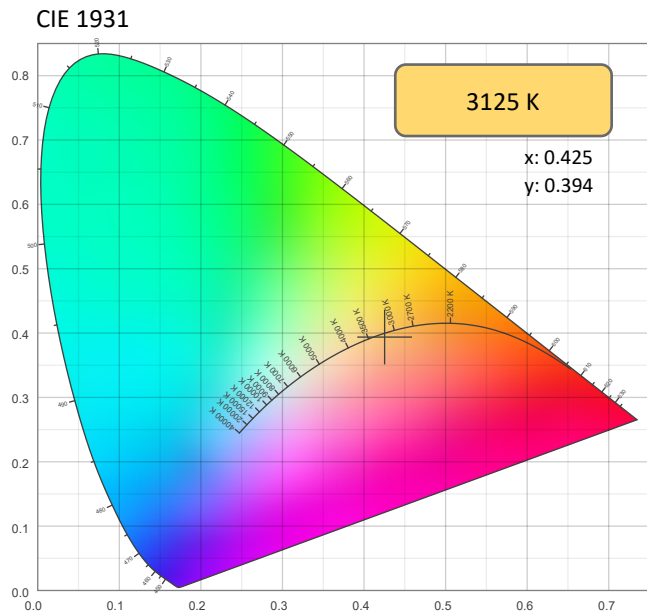
Number of c-planes: 8
Candela at center: 9.51 lx

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

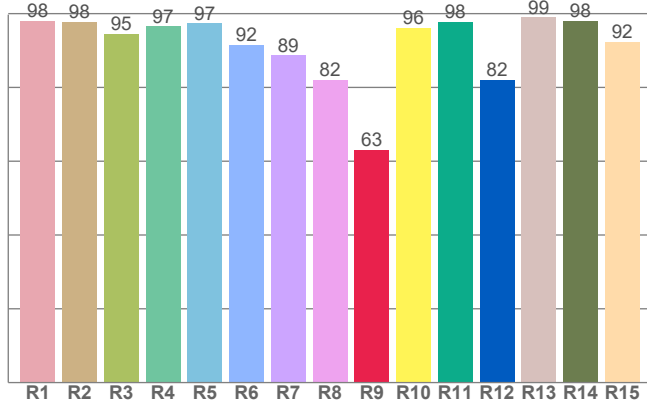
Photometric & Chromaticity Report

Logic GZS: Standard Optics - 3200K

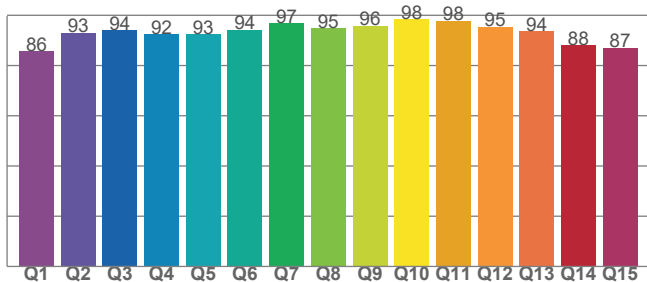
Chromaticity



CRI: 93.3 (R1-R8)



CQS: 92.2



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3125 K	0.425	0.394

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0025	0.394	0.247

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
93.3	63.1	92.2

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
87	90.2	97.5

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Photometric & Chromaticity Report

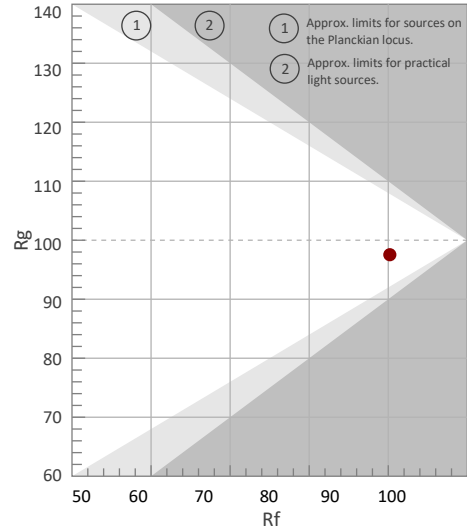
Logic GZS: Standard Optics - 3200K

TM-30 Details

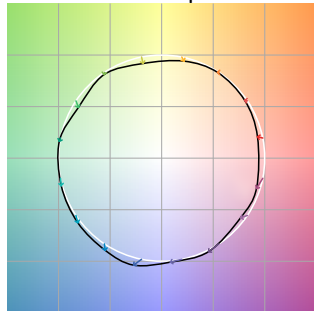
Rf 90.2
Fidelity Index
(Rg)

Rg 97.5
Gammut Index (Rg)

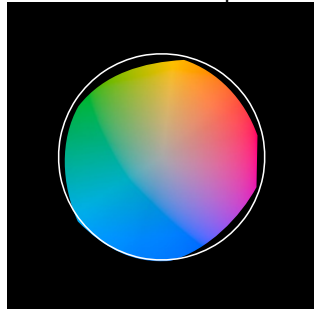
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	89	-5%	2%
2	93	-2%	2%
3	95	-1%	1%
4	93	-3%	-3%
5	92	-6%	0%
6	95	-2%	1%
7	89	-6%	4%
8	95	1%	3%
9	90	1%	7%
10	88	2%	7%
11	91	5%	4%
12	86	7%	-6%
13	85	1%	-11%
14	85	1%	-13%
15	85	-4%	-6%
16	84	-4%	-11%



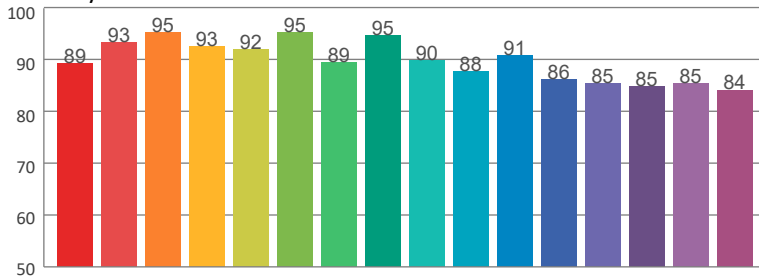
Color Vector Graphic



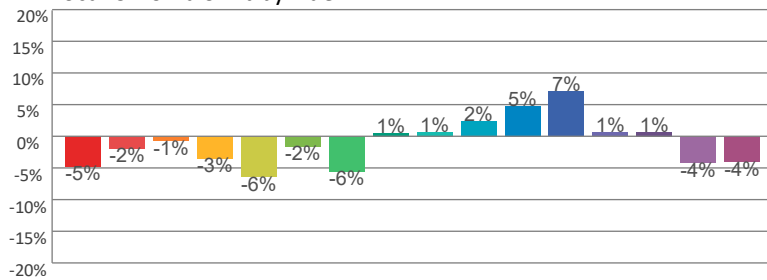
Color Distortion Graphic



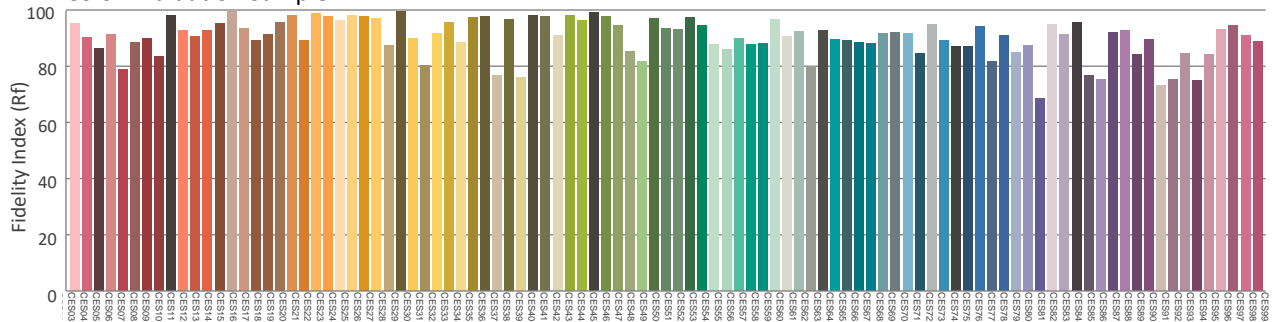
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 4000K

Report Summary

Measurements

Fixture Output: 581 lm
Fixture Peak: 1049 cd
Fixture Efficacy: 29 lm/W
Intensity @ 5m: 42 lux
Color Temperature: 4055 K
CRI: 85.5 CRI R9 Value: 93.9
CQS: 89.3
TLCI: 87
TM-30 Rf: 82.2
TM-30 Rg: 93.4
Beam Angle (50%): 34.4°
Field Angle (10%): 70°
Cutoff Angle (2%): 110.6°

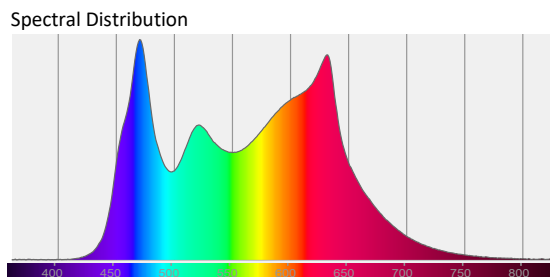
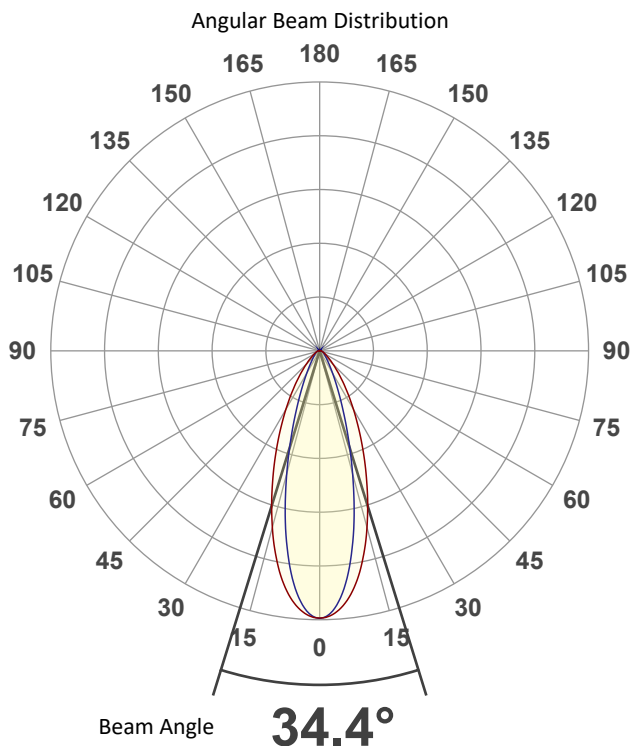
Conditions

AC Supply: 119 V, 60 Hz
Power: 22.55 W
Current: 0.190 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 5/16/2022 to LM-63-2002 Standards.

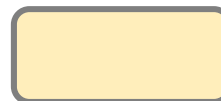
Overall Measurement



Tested Color (CIE 1931):

X: 0.375

Y: 0.363



Light Quality

CRI: 85.5

Color Temperature

4055 K

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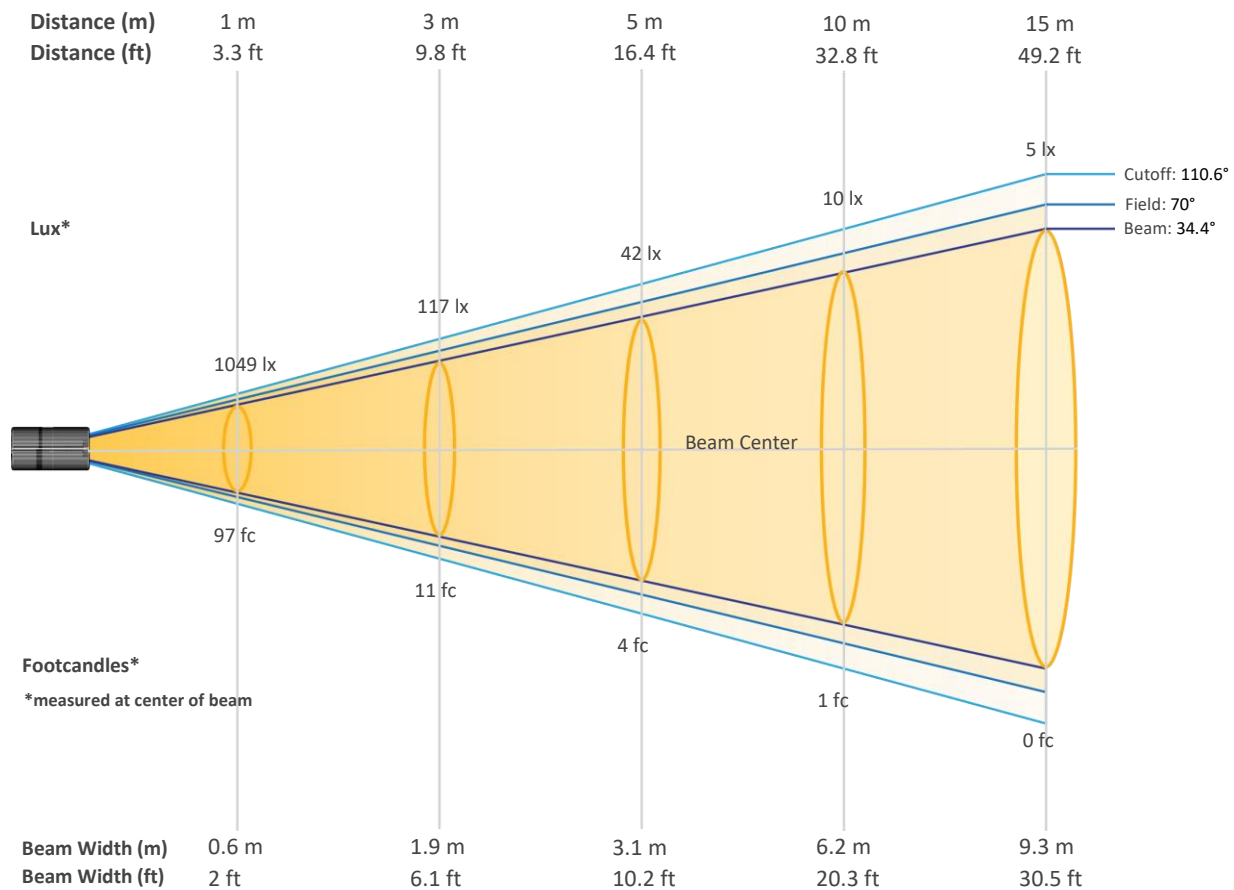
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 4000K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1049	262	117	66	42	29	21	16	13	10
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	9	7	6	5	5	4	4	3	3	3
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	97	24	11	6	4	3	2	2	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	1	1	0	0	0	0	0	0	0

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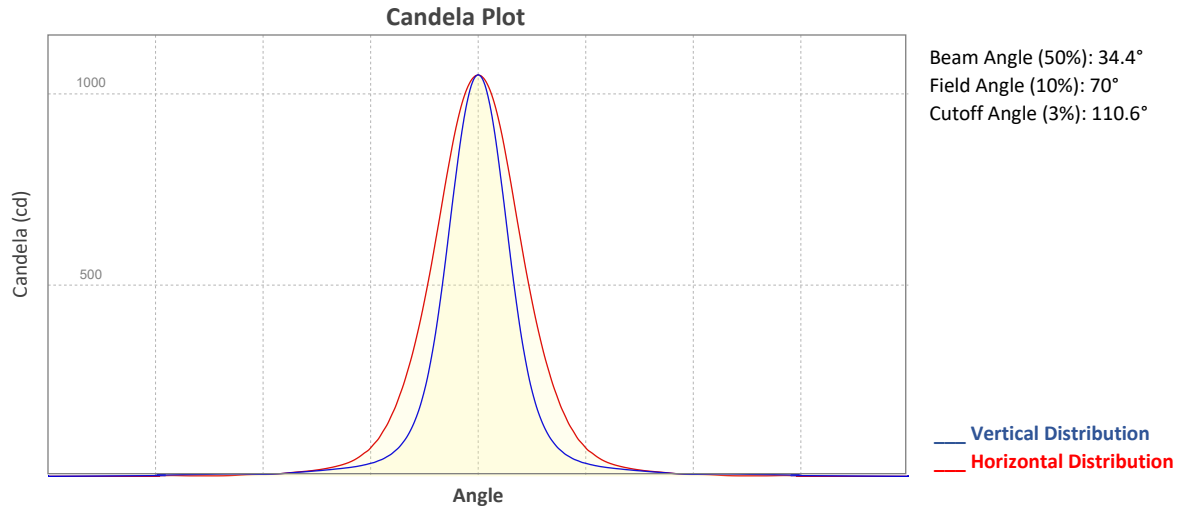
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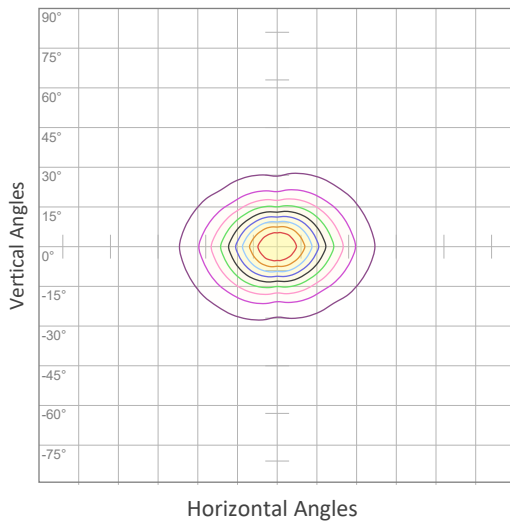
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 4000K



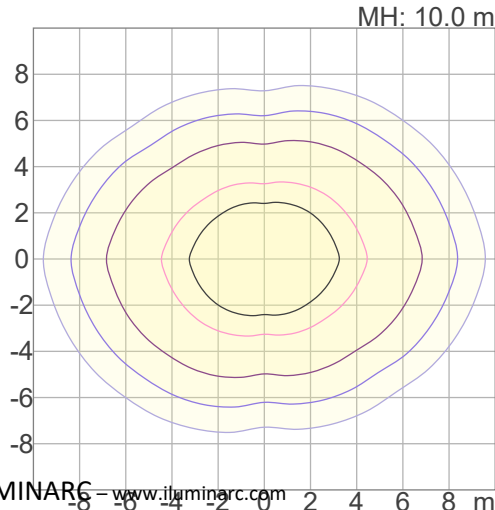
ISO Diagrams



ISO Candela Diagram

10%	105 cd
20%	210 cd
30%	315 cd
40%	420 cd
50%	524 cd
60%	629 cd
70%	734 cd
80%	839 cd
90%	944 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 1049 cd



ISO Lux Diagram

3%	0.315 lx
5%	0.524 lx
10%	1.05 lx
30%	3.15 lx
50%	5.24 lx

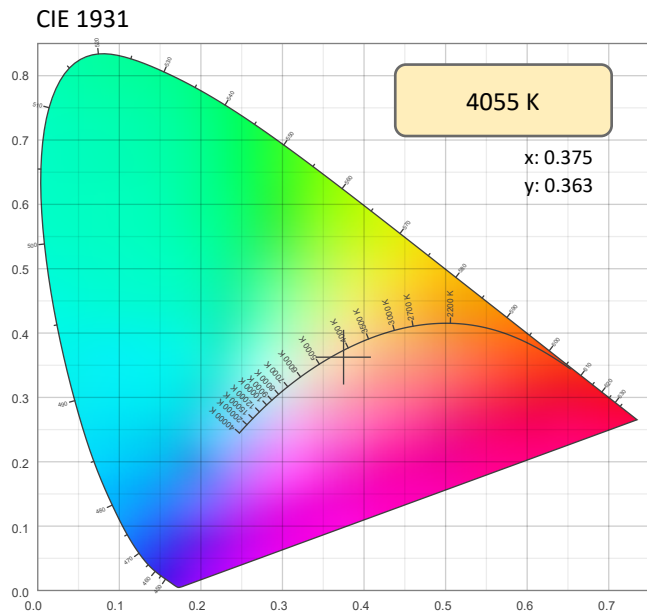
Conditions:
 Number of c-planes: 8
 Candela at center: 10.5 lx

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

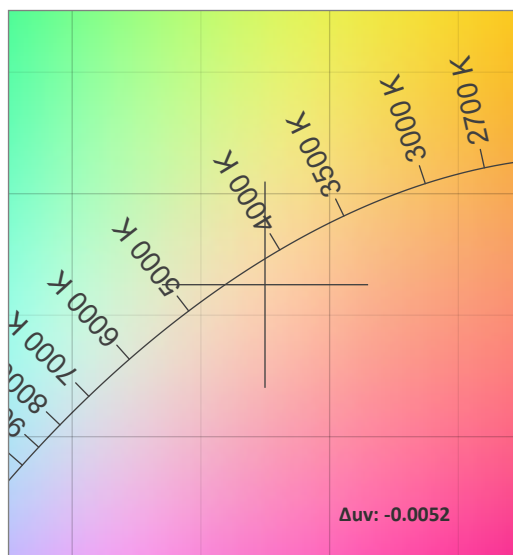
Photometric & Chromaticity Report

Logic GZS: Standard Optics - 4000K

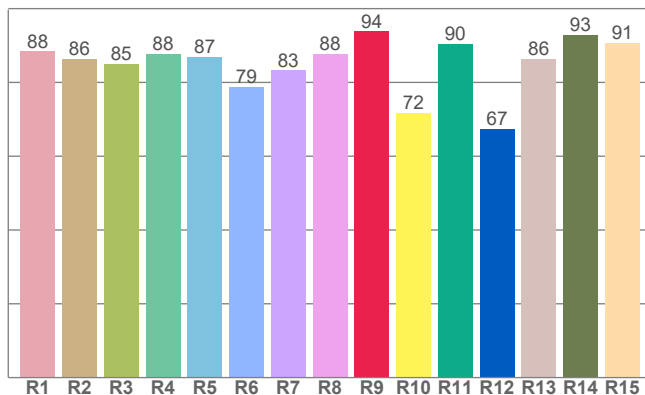
Chromaticity



CIE 1931 - Zoom



CRI: 85.5 (R1-R8)

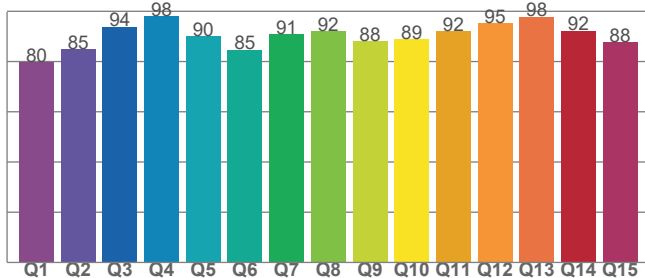


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
4055 K	0.375	0.363

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0052	0.363	0.227

CQS: 89.3



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
85.5	93.9	89.3

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
87	82.2	93.4

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Photometric & Chromaticity Report

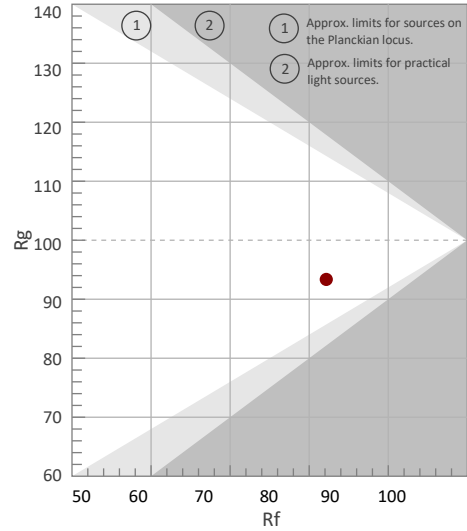
Logic GZS: Standard Optics - 4000K

TM-30 Details

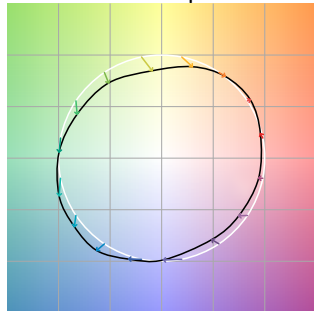
Rf 82.2
Fidelity Index (Rg)

Rg 93.4
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	88	-1%	5%
2	91	3%	-1%
3	87	0%	-7%
4	78	-7%	-12%
5	77	-15%	-8%
6	83	-11%	2%
7	81	-8%	10%
8	79	-1%	14%
9	78	5%	16%
10	83	7%	8%
11	84	9%	-3%
12	78	2%	-12%
13	76	-3%	-18%
14	88	-7%	-3%
15	81	-7%	-5%
16	82	-4%	-1%



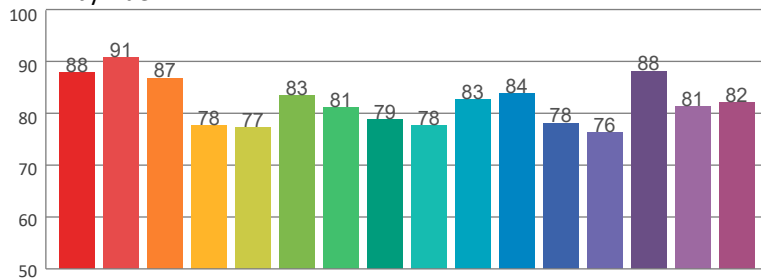
Color Vector Graphic



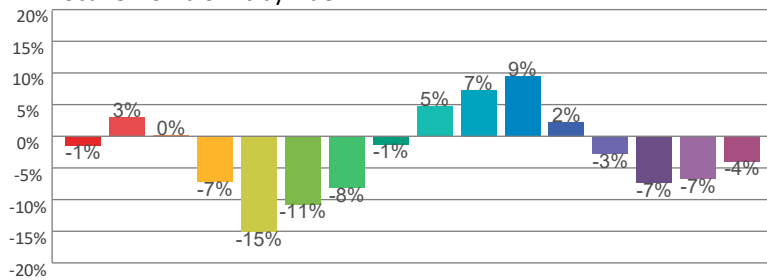
Color Distortion Graphic



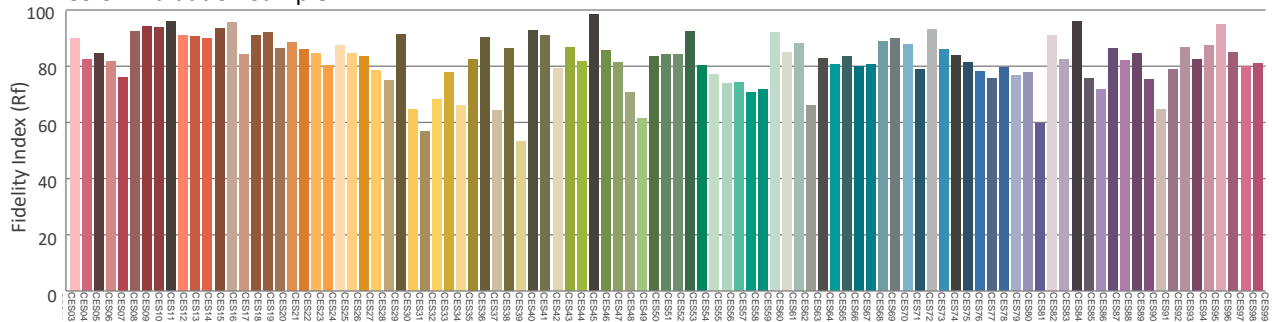
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 4500K

Report Summary

Measurements

Fixture Output: 609 lm
Fixture Peak: 1104 cd
Fixture Efficacy: 29 lm/W
Intensity @ 5m: 44 lux
Color Temperature: 4719 K
CRI: 79.1 CRI R9 Value: 74.5
CQS: 84.9
TLCl: 86
TM-30 Rf: 78.7
TM-30 Rg: 92.9
Beam Angle (50%): 34.3°
Field Angle (10%): 69.9°
Cutoff Angle (2%): 110.5°

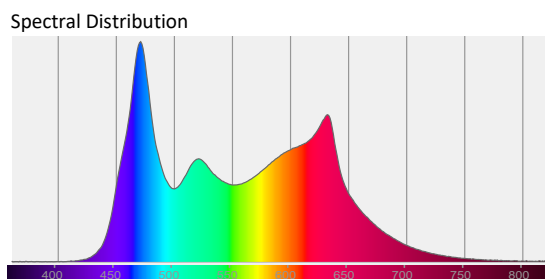
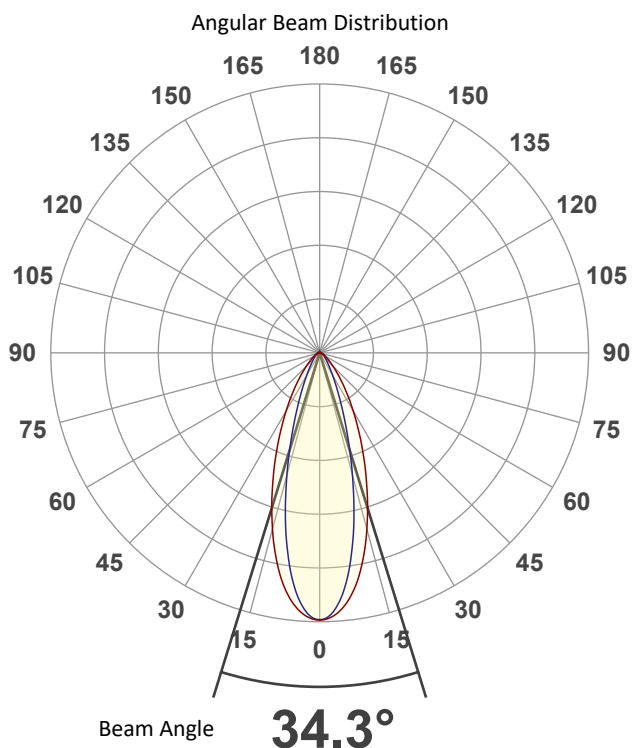
Conditions

AC Supply: 118 V, 60 Hz
Power: 23.52 W
Current: 0.199 A
Power Factor: 0.89

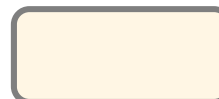


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Overall Measurement



Tested Color (CIE 1931):
X: 0.352
Y: 0.343



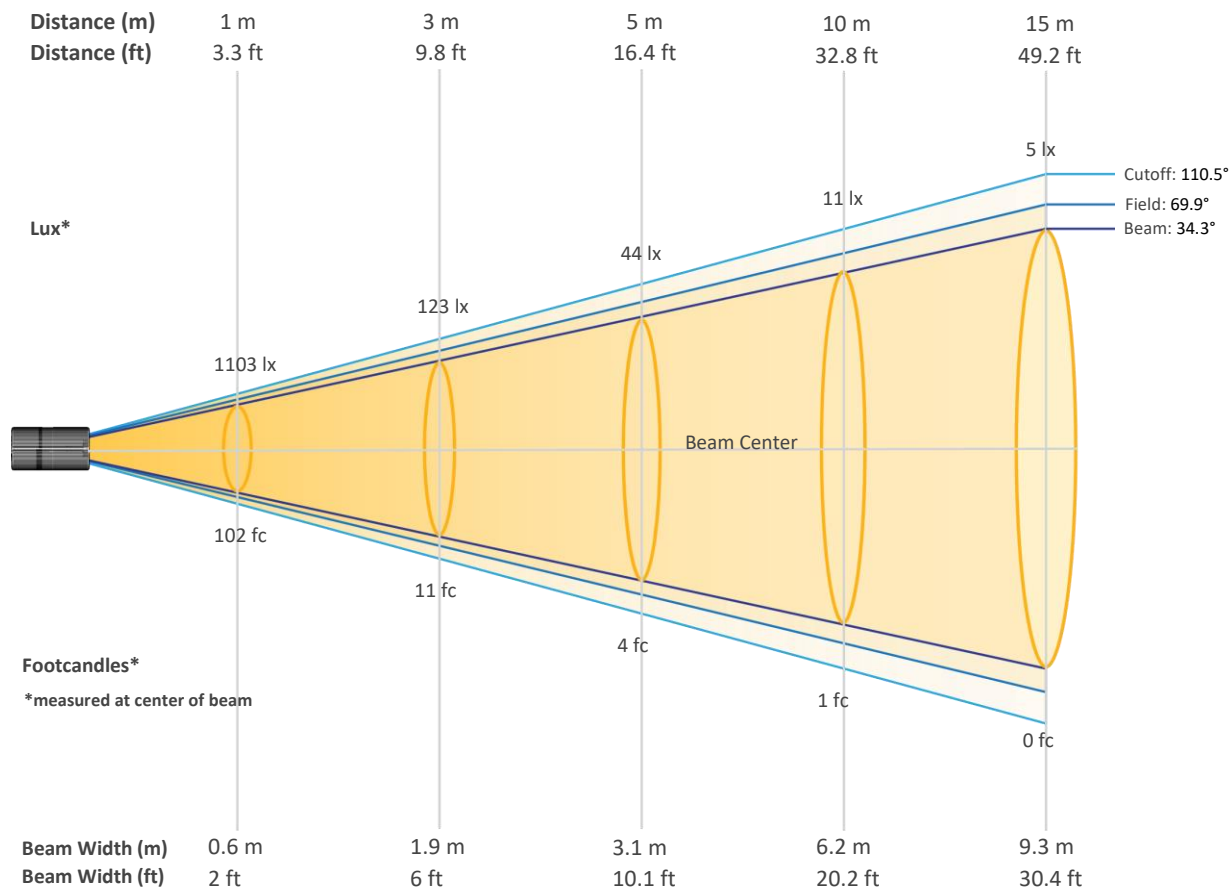
Light Quality
CRI: 79.1

Color Temperature
4719 K

Photometric & Chromaticity Report

Logic GZS: Standard Optics - 4500K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1103	276	123	69	44	31	23	17	14	11
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	9	8	7	6	5	4	4	3	3	3
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	102	26	11	6	4	3	2	2	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	1	1	1	0	0	0	0	0	0

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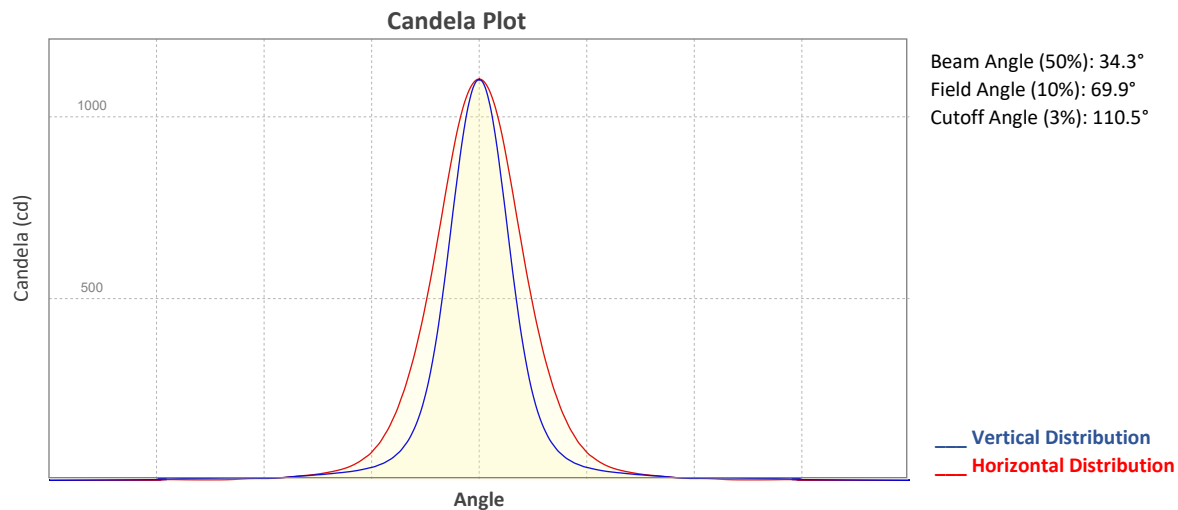
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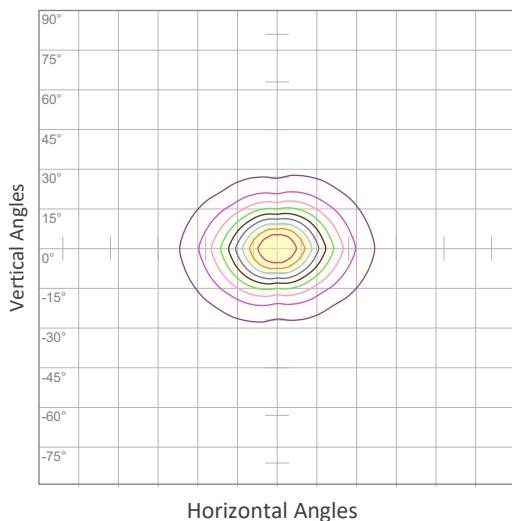
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 4500K



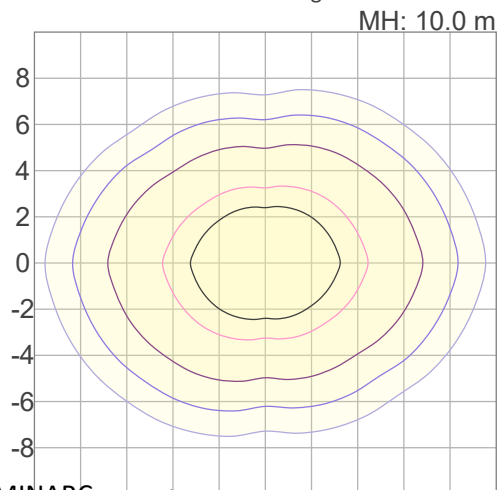
ISO Diagrams



ISO Candela Diagram

10%	110 cd
20%	221 cd
30%	331 cd
40%	441 cd
50%	551 cd
60%	662 cd
70%	772 cd
80%	882 cd
90%	992 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 1103 cd



ISO Lux Diagram

3%	0.331 lx
5%	0.551 lx
10%	1.10 lx
30%	3.31 lx
50%	5.51 lx

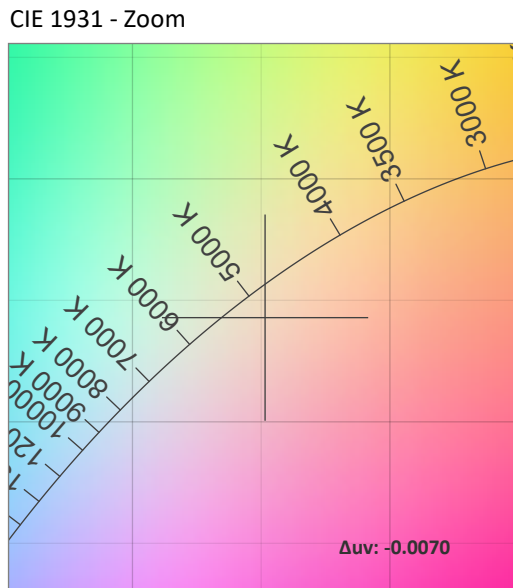
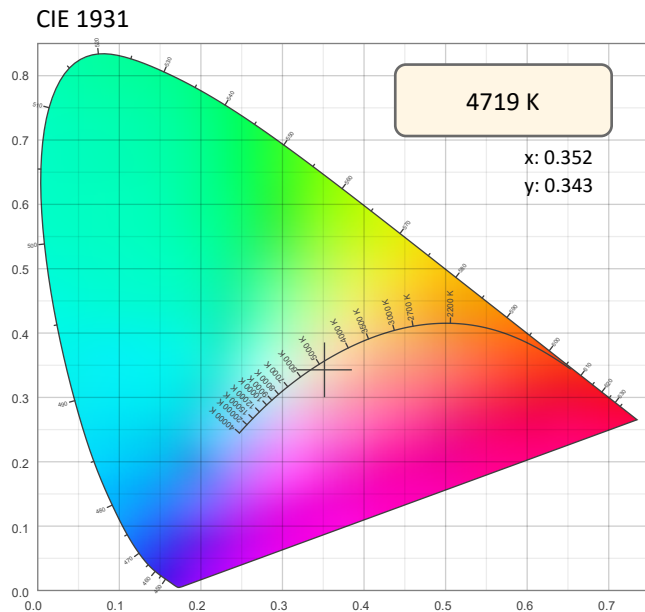
Conditions:
 Number of c-planes: 8
 Candela at center: 11.0 lx

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

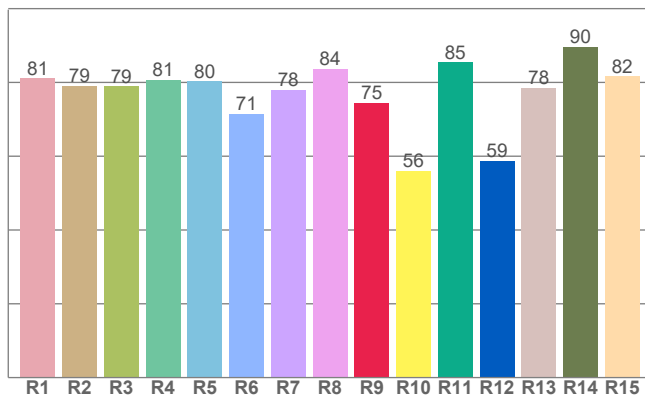
Photometric & Chromaticity Report

Logic GZS: Standard Optics - 4500K

Chromaticity



CRI: 79.1 (R1-R8)

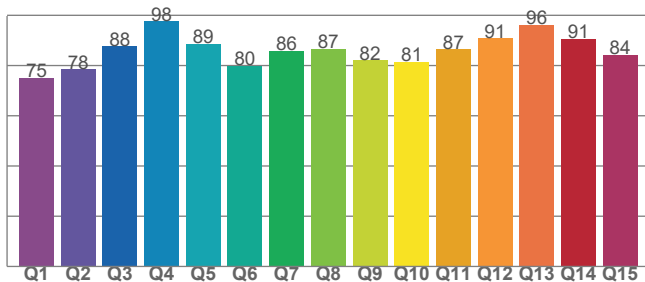


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
4719 K	0.352	0.343

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0070	0.343	0.219

CQS: 84.9



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
79.1	74.5	84.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
86	78.7	92.9

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Photometric & Chromaticity Report

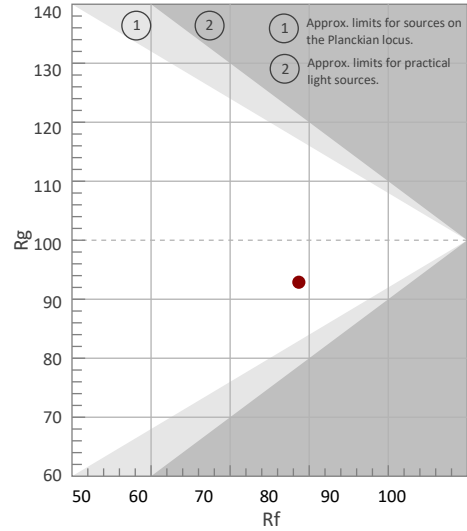
Logic GZS: Standard Optics - 4500K

TM-30 Details

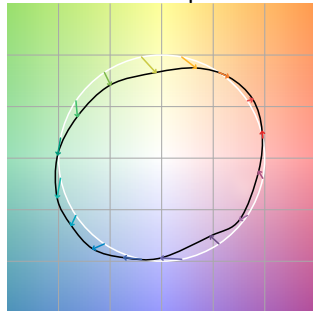
Rf 78.7
Fidelity Index (Rg)

Rg 92.9
Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	85	1%	6%
2	88	5%	-2%
3	81	2%	-10%
4	72	-8%	-16%
5	72	-17%	-11%
6	79	-13%	2%
7	78	-10%	12%
8	75	0%	16%
9	76	7%	18%
10	83	9%	5%
11	79	10%	-7%
12	72	2%	-17%
13	77	-5%	-20%
14	80	-11%	-3%
15	78	-4%	-8%
16	83	-5%	6%



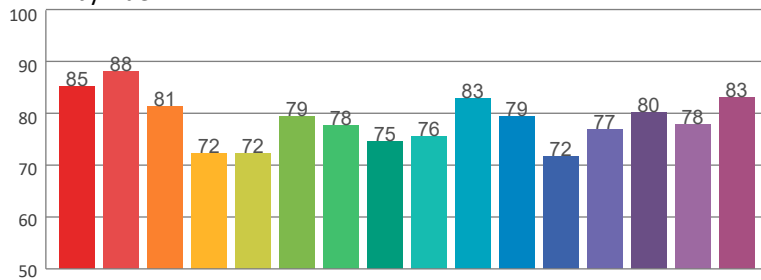
Color Vector Graphic



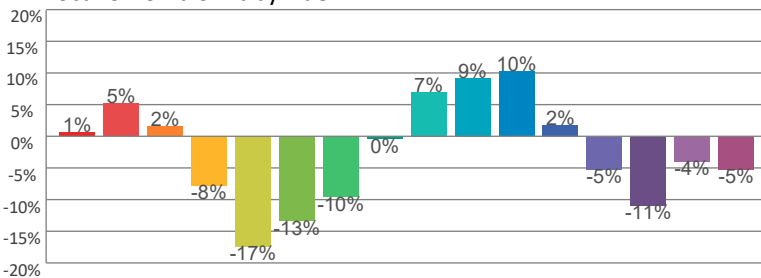
Color Distortion Graphic



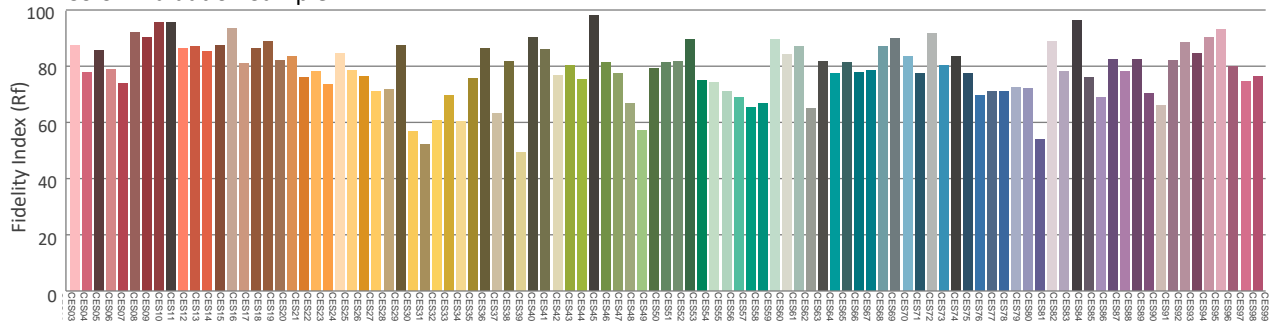
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 5000K

Report Summary

Measurements

Fixture Output: 633 lm
Fixture Peak: 1150 cd
Fixture Efficacy: 29 lm/W
Intensity @ 5m: 46 lux
Color Temperature: 5394 K
CRI: 73.6 CRI R9 Value: 51.4
CQS: 82.9
TLCI: 81
TM-30 Rf: 74.8
TM-30 Rg: 92.0
Beam Angle (50%): 34.3°
Field Angle (10%): 69.8°
Cutoff Angle (2%): 110.3°

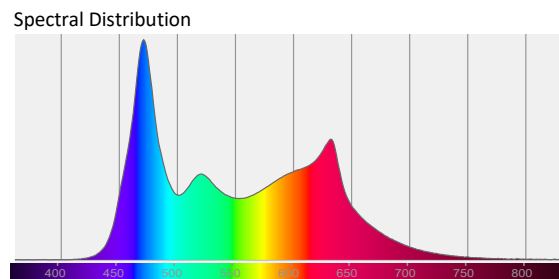
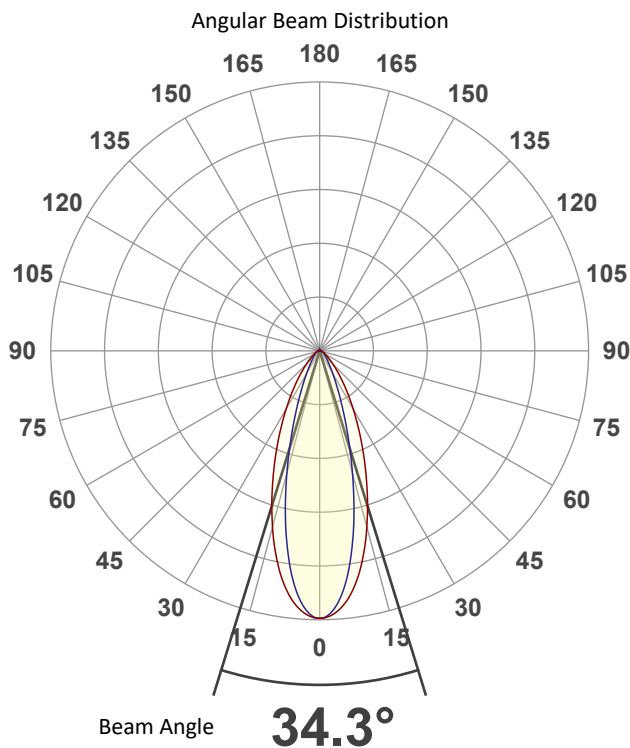
Conditions

AC Supply: 118 V, 60 Hz
Power: 24.45 W
Current: 0.206 A
Power Factor: 0.9



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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.335

Y: 0.327



Light Quality

CRI: 73.6

Color Temperature

5394 K

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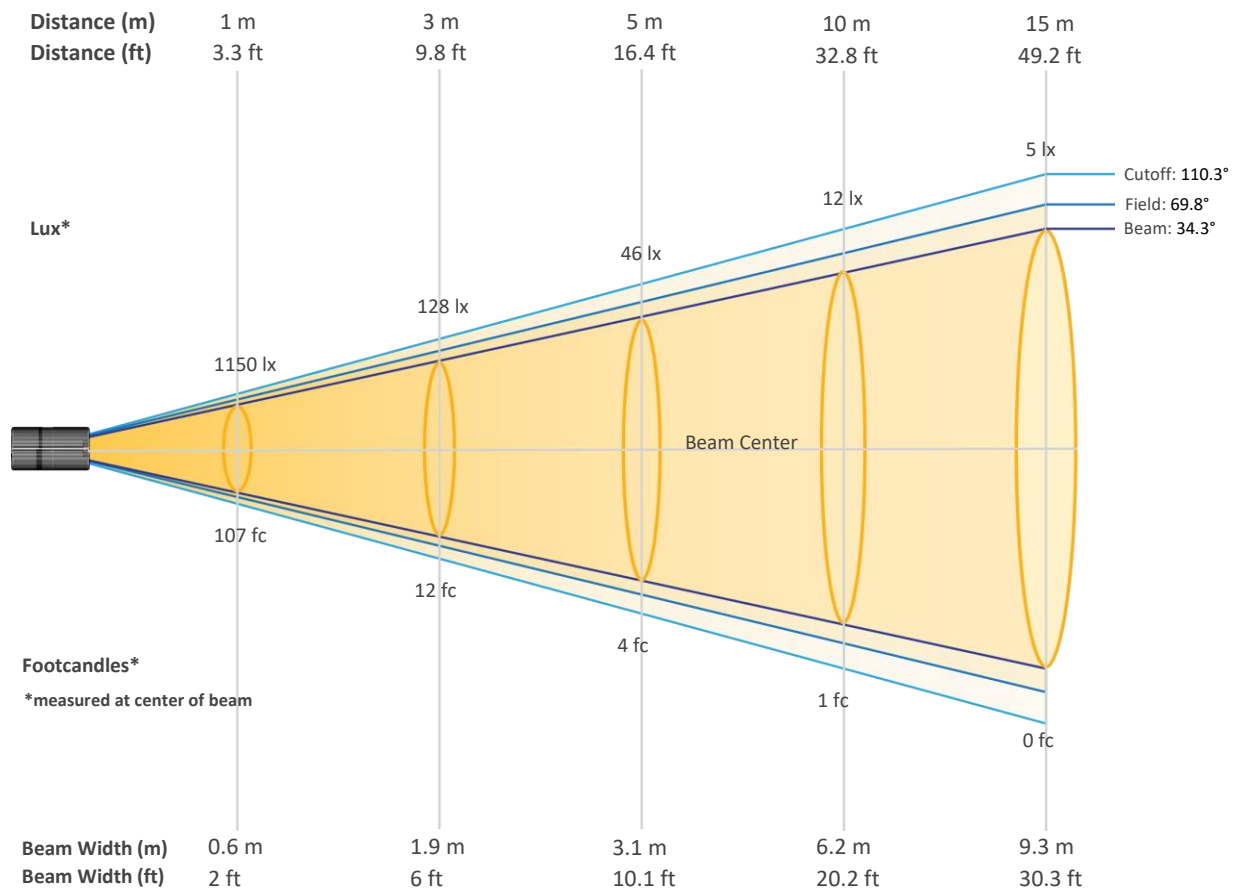
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 5000K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1150	288	128	72	46	32	23	18	14	12
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	10	8	7	6	5	4	4	4	3	3
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	107	27	12	7	4	3	2	2	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	1	1	1	0	0	0	0	0	0

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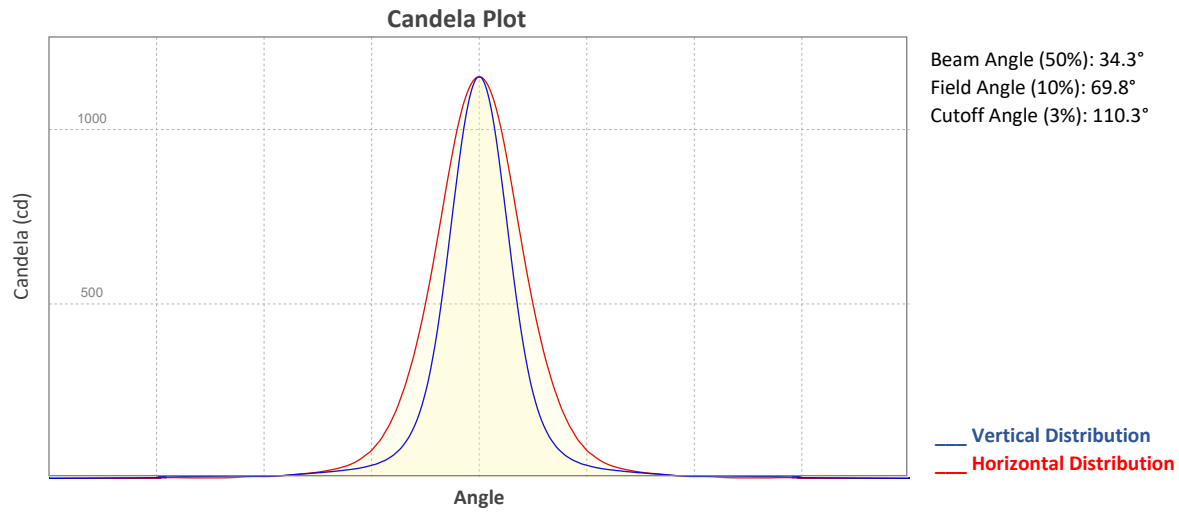
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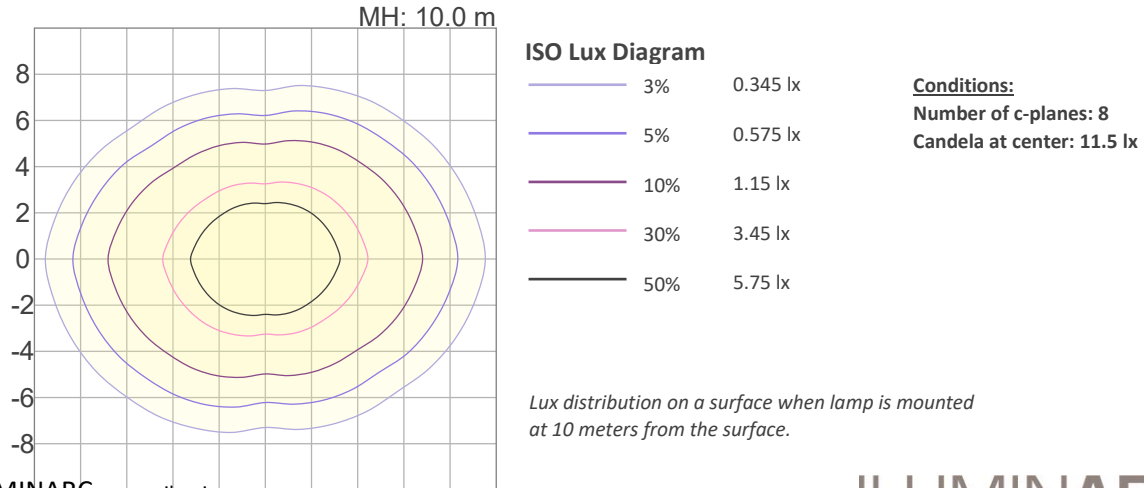
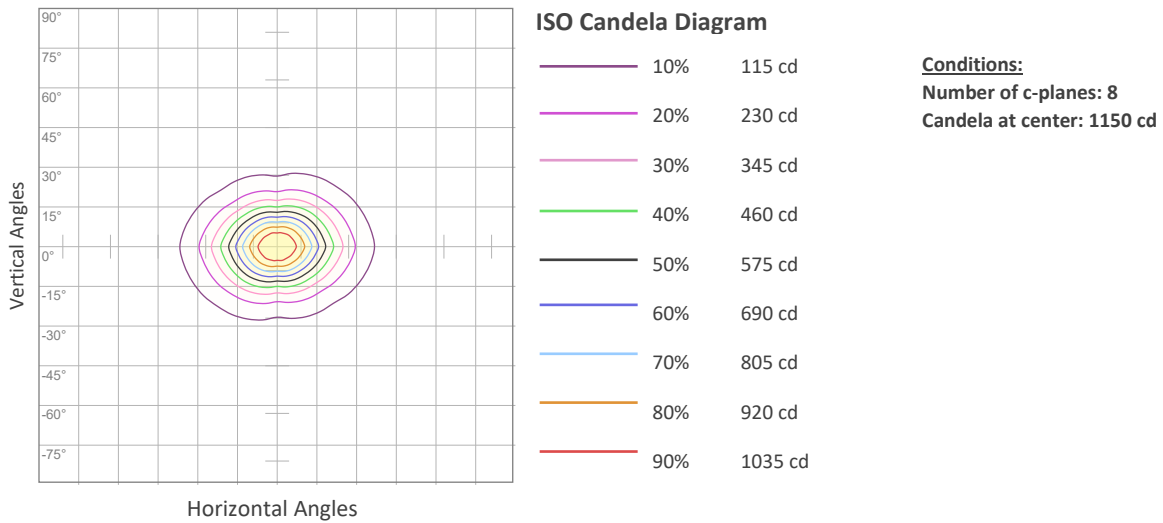
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 5000K



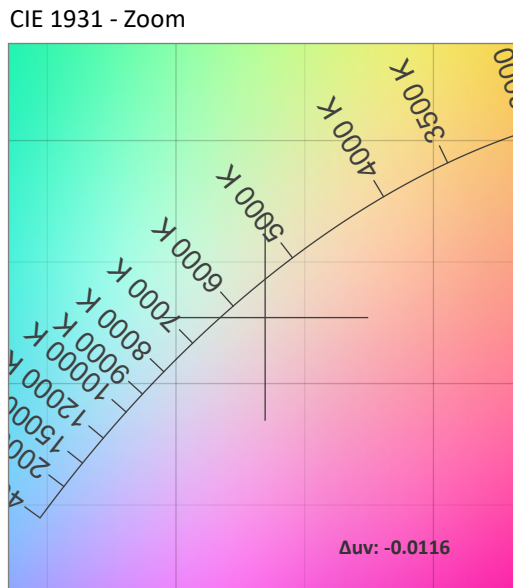
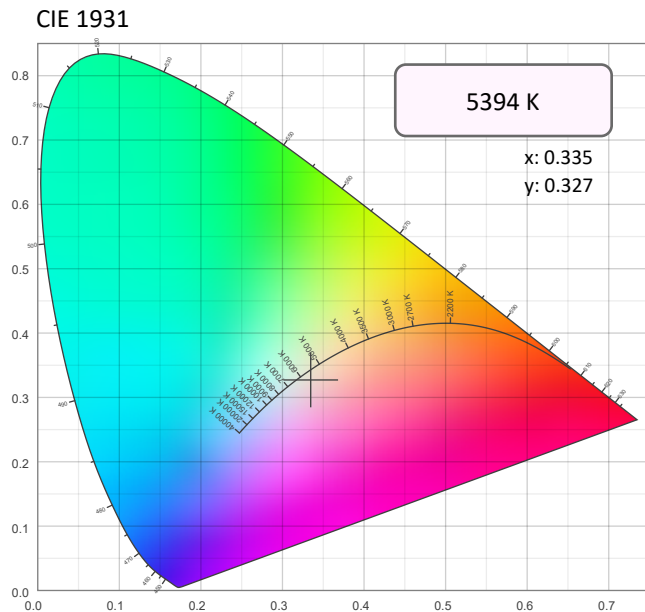
ISO Diagrams



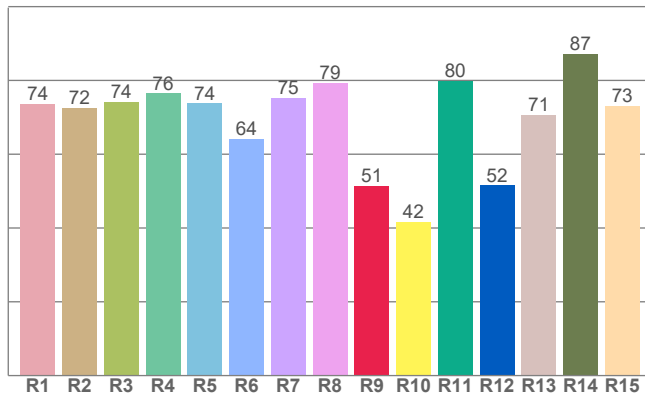
Photometric & Chromaticity Report

Logic GZS: Standard Optics - 5000K

Chromaticity



CRI: 73.6 (R1-R8)

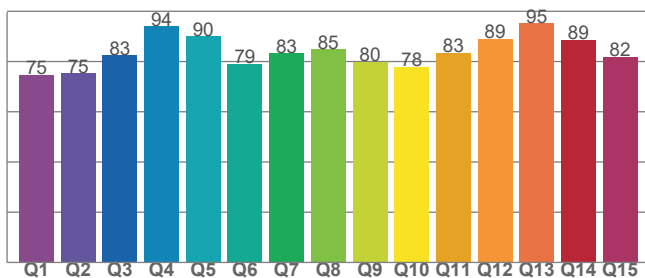


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5394 K	0.335	0.327

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0116	0.327	0.214

CQS: 82.9



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
73.6	51.4	82.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
81	74.8	92.0

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Photometric & Chromaticity Report

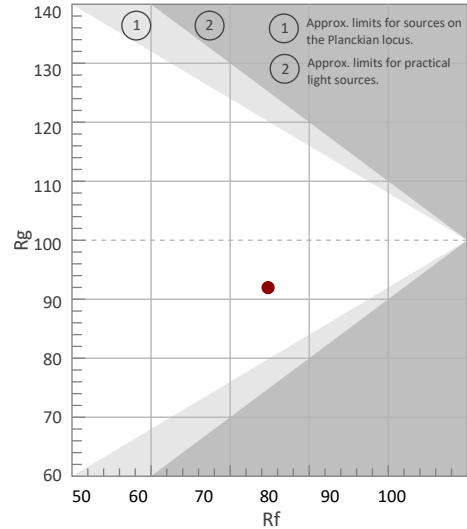
Logic GZS: Standard Optics - 5000K

TM-30 Details

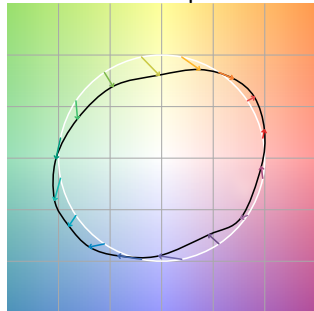
Rf 74.8
Fidelity Index
(Rg)

Rg 92.0
Gammut Index (Rg)

Hue Bin	Graphic shifts (%)		
	R _f	Chroma	Hue
1	81	3%	7%
2	85	8%	-1%
3	75	3%	-14%
4	66	-9%	-19%
5	66	-21%	-13%
6	76	-16%	1%
7	74	-11%	14%
8	66	0%	20%
9	76	10%	20%
10	81	11%	5%
11	74	11%	-10%
12	67	1%	-23%
13	75	-8%	-21%
14	78	-13%	-3%
15	78	-4%	-6%
16	80	-4%	10%



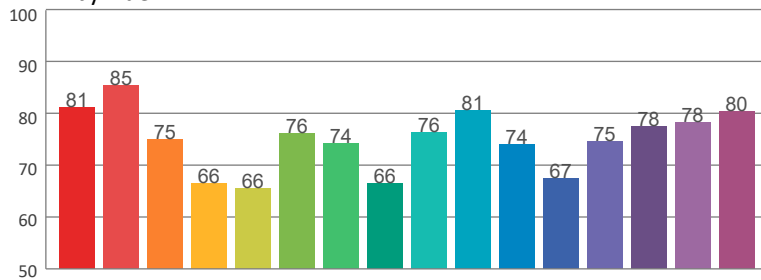
Color Vector Graphic



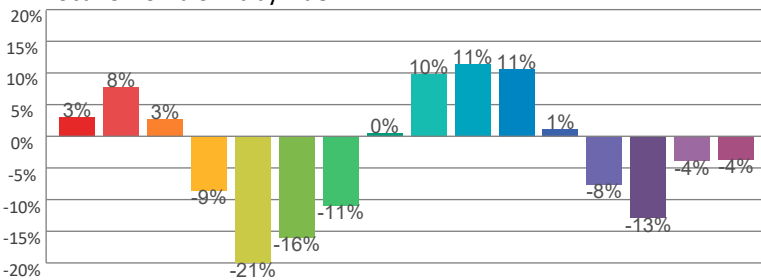
Color Distortion Graphic



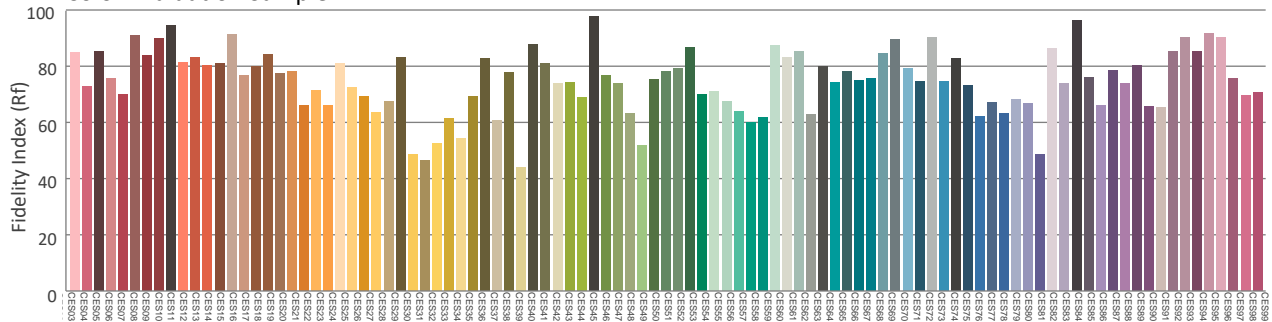
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 5600K

Report Summary

Measurements

Fixture Output: 635 lm
Fixture Peak: 1165 cd
Fixture Efficacy: 28 lm/W
Intensity @ 5m: 47 lux
Color Temperature: 6322 K
CRI: 64.1 CRI R9 Value: -4.1
CQS: 76.2
TLCI: 69
TM-30 Rf: 68.4
TM-30 Rg: 92.1
Beam Angle (50%): 33.9°
Field Angle (10%): 69.6°
Cutoff Angle (2%): 110°

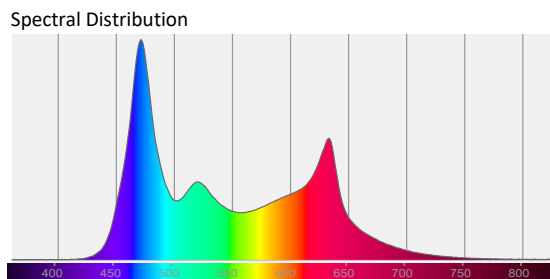
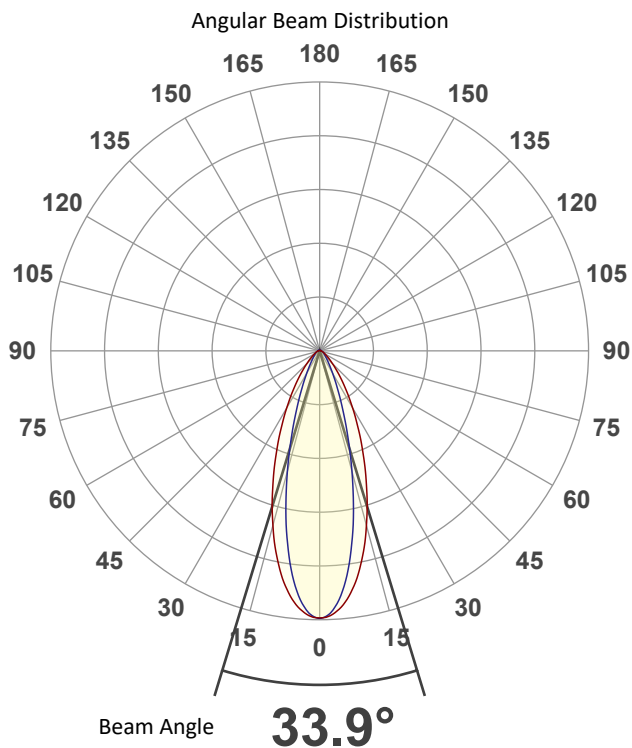
Conditions

AC Supply: 118 V, 60 Hz
Power: 25.33 W
Current: 0.215 A
Power Factor: 0.91



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 5/16/2022 to LM-63-2002 Standards.

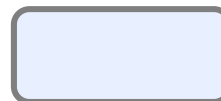
Overall Measurement



Tested Color (CIE 1931):

X: 0.318

Y: 0.312



Light Quality

CRI: 64.1

Color Temperature

6322 K

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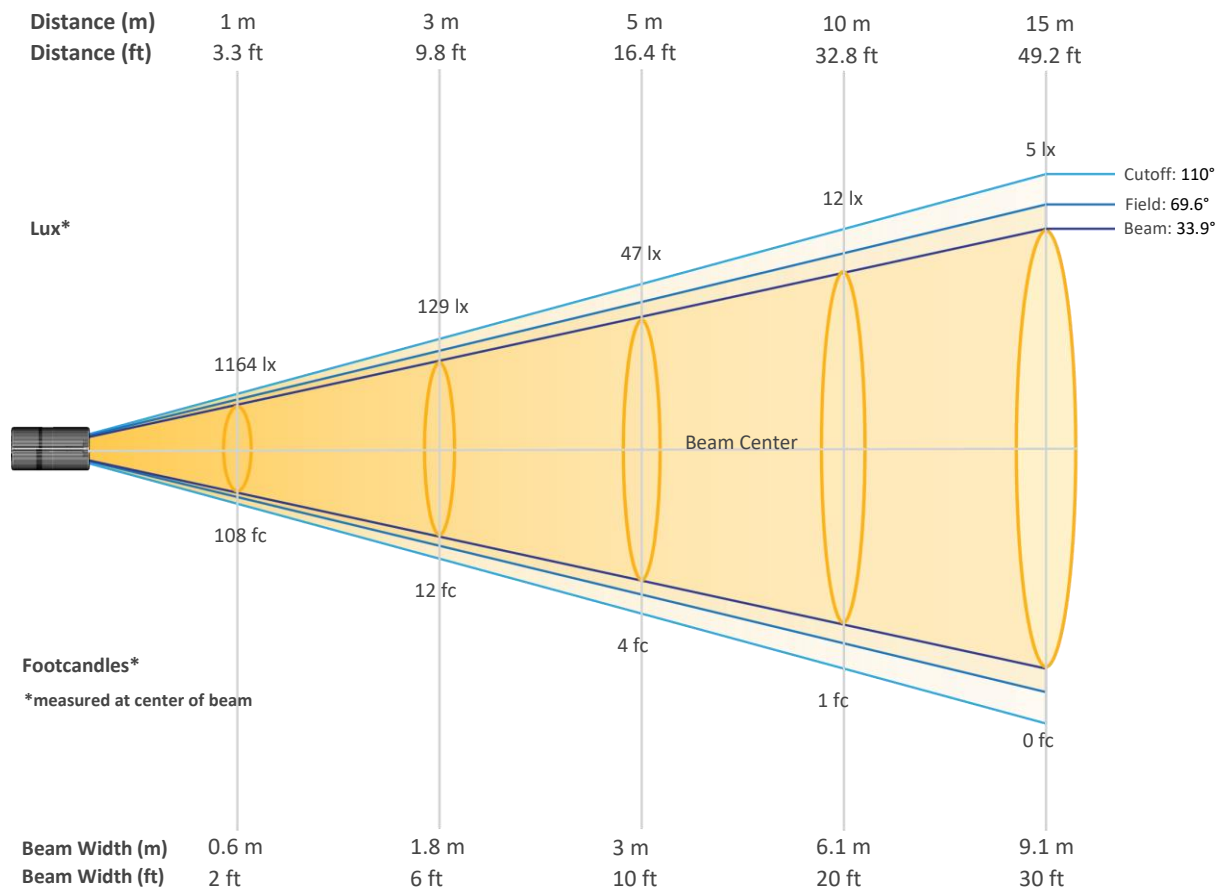
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 5600K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1164	291	129	73	47	32	24	18	14	12
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	10	8	7	6	5	5	4	4	3	3
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	108	27	12	7	4	3	2	2	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	1	1	1	0	0	0	0	0	0

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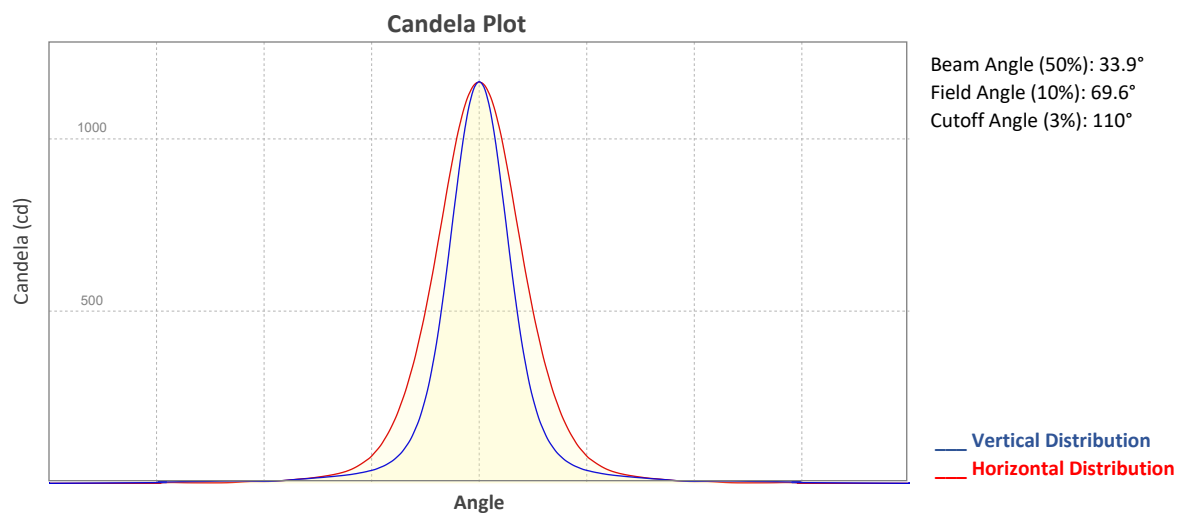
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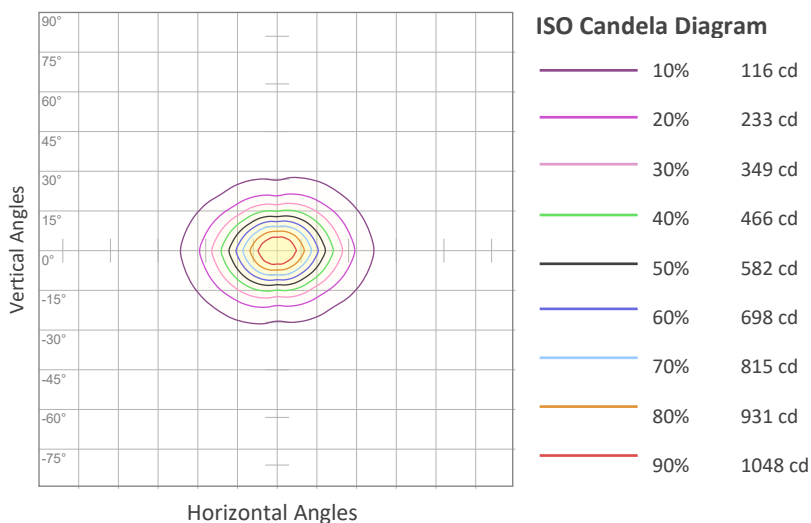
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Photometric & Chromaticity Report

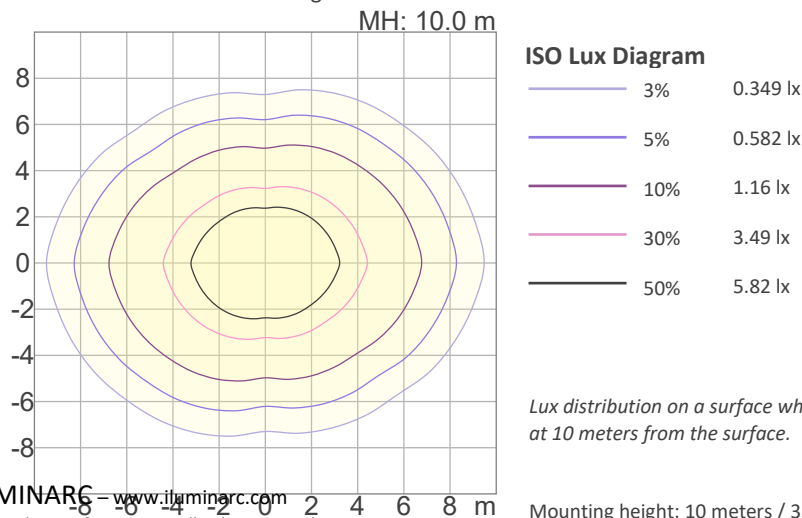
Logic GZS: Standard Optics - 5600K



ISO Diagrams



Conditions:
 Number of c-planes: 8
 Candela at center: 1164 cd



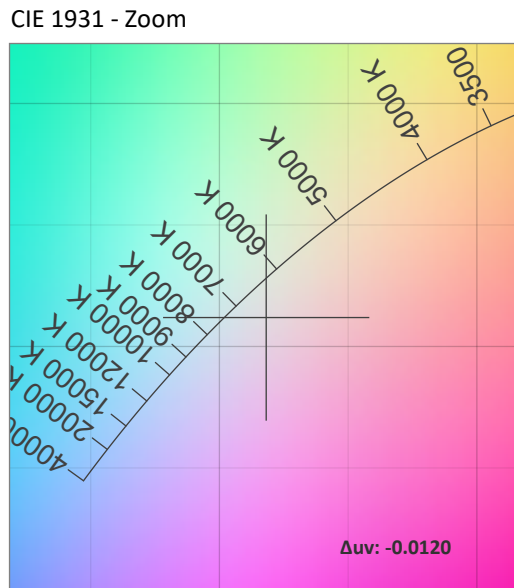
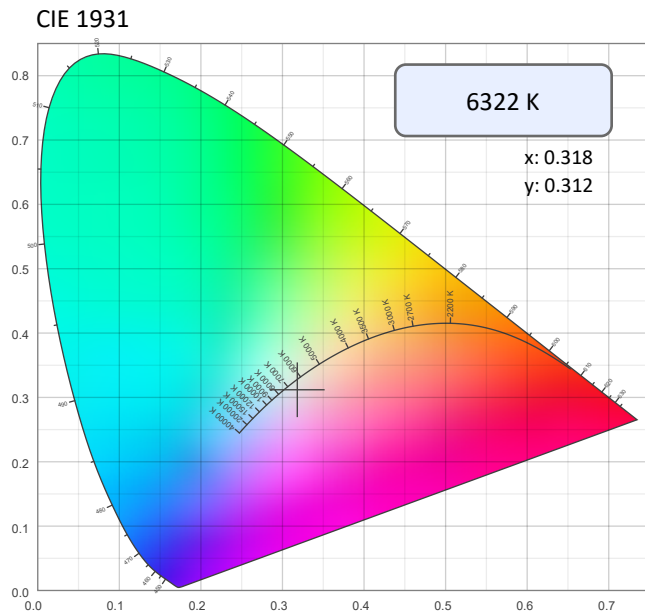
Conditions:
 Number of c-planes: 8
 Candela at center: 11.6 lx

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

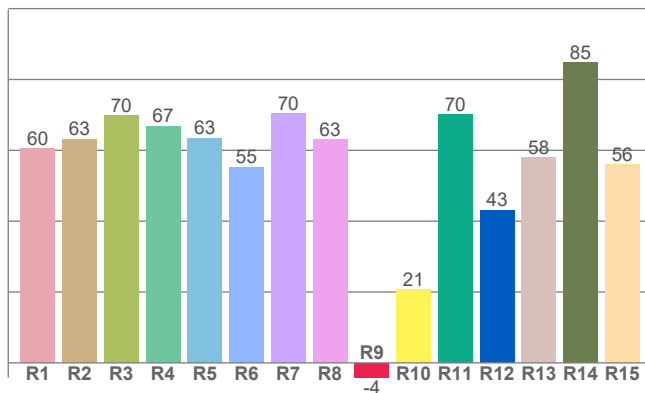
Photometric & Chromaticity Report

Logic GZS: Standard Optics - 5600K

Chromaticity



CRI: 64.1 (R1-R8)

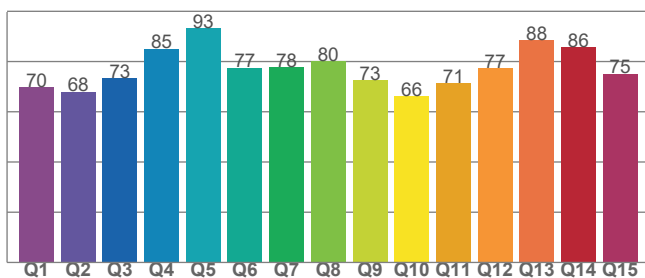


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6322 K	0.318	0.312

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0120	0.312	0.208

CQS: 76.2



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
64.1	-4.1	76.2

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
69	68.4	92.1

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Photometric & Chromaticity Report

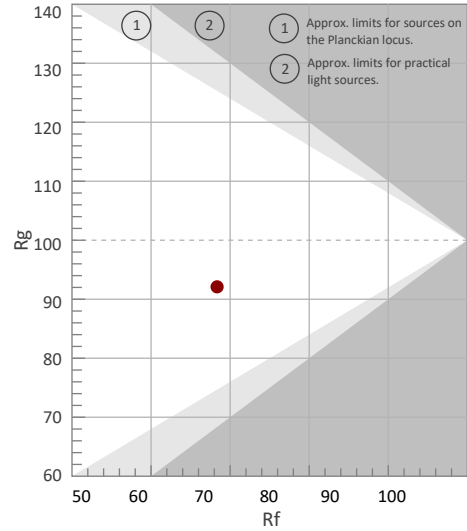
Logic GZS: Standard Optics - 5600K

TM-30 Details

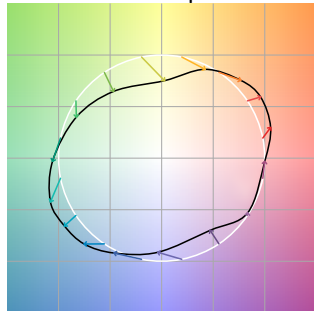
Rf 68.4
Fidelity Index (Rg)

Rg 92.1
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	73	9%	9%
2	78	13%	-4%
3	62	5%	-22%
4	59	-7%	-25%
5	52	-27%	-17%
6	70	-20%	3%
7	77	-9%	13%
8	61	3%	24%
9	73	14%	21%
10	76	15%	2%
11	67	11%	-16%
12	61	-1%	-27%
13	71	-11%	-21%
14	73	-16%	0%
15	79	-1%	2%
16	72	-1%	16%



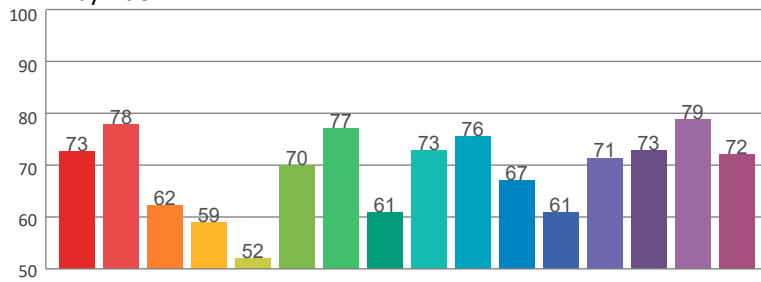
Color Vector Graphic



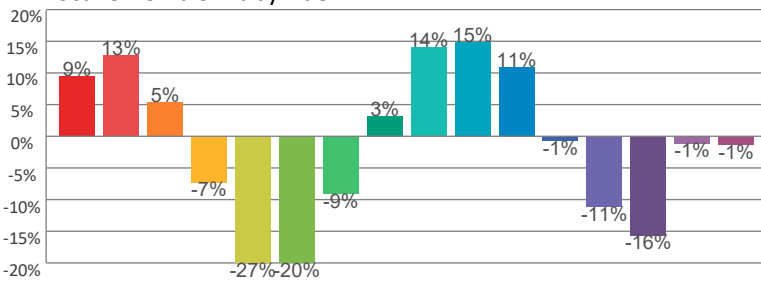
Color Distortion Graphic



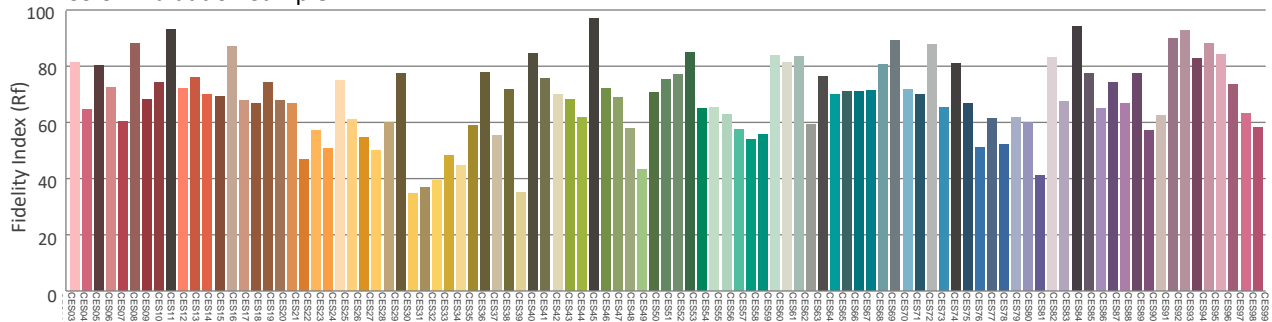
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 6000K

Report Summary

Measurements

Fixture Output: 618 lm
Fixture Peak: 1135 cd
Fixture Efficacy: 27 lm/W
Intensity @ 5m: 45 lux
Color Temperature: 7039 K
CRI: 60.8 CRI R9 Value: -14.0
CQS: 73.8
TLCl: 66
TM-30 Rf: 65.6
TM-30 Rg: 90.5
Beam Angle (50%): 33.9°
Field Angle (10%): 69.6°
Cutoff Angle (2%): 109.7°

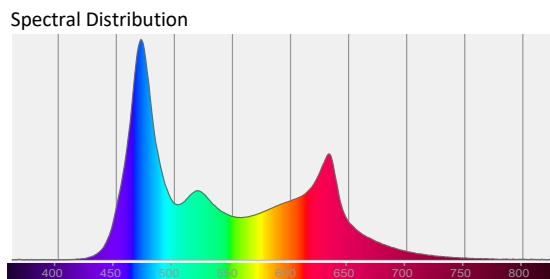
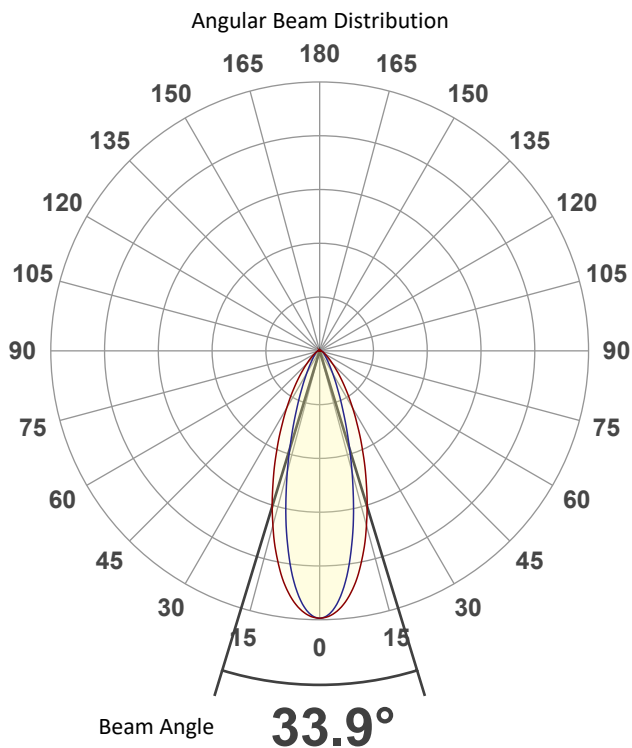
Conditions

AC Supply: 118 V, 60 Hz
Power: 25.32 W
Current: 0.215 A
Power Factor: 0.91



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 5/16/2022 to LM-63-2002 Standards.

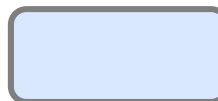
Overall Measurement



Tested Color (CIE 1931):

X: 0.309

Y: 0.302



Light Quality

CRI: 60.8

Color Temperature

7039 K

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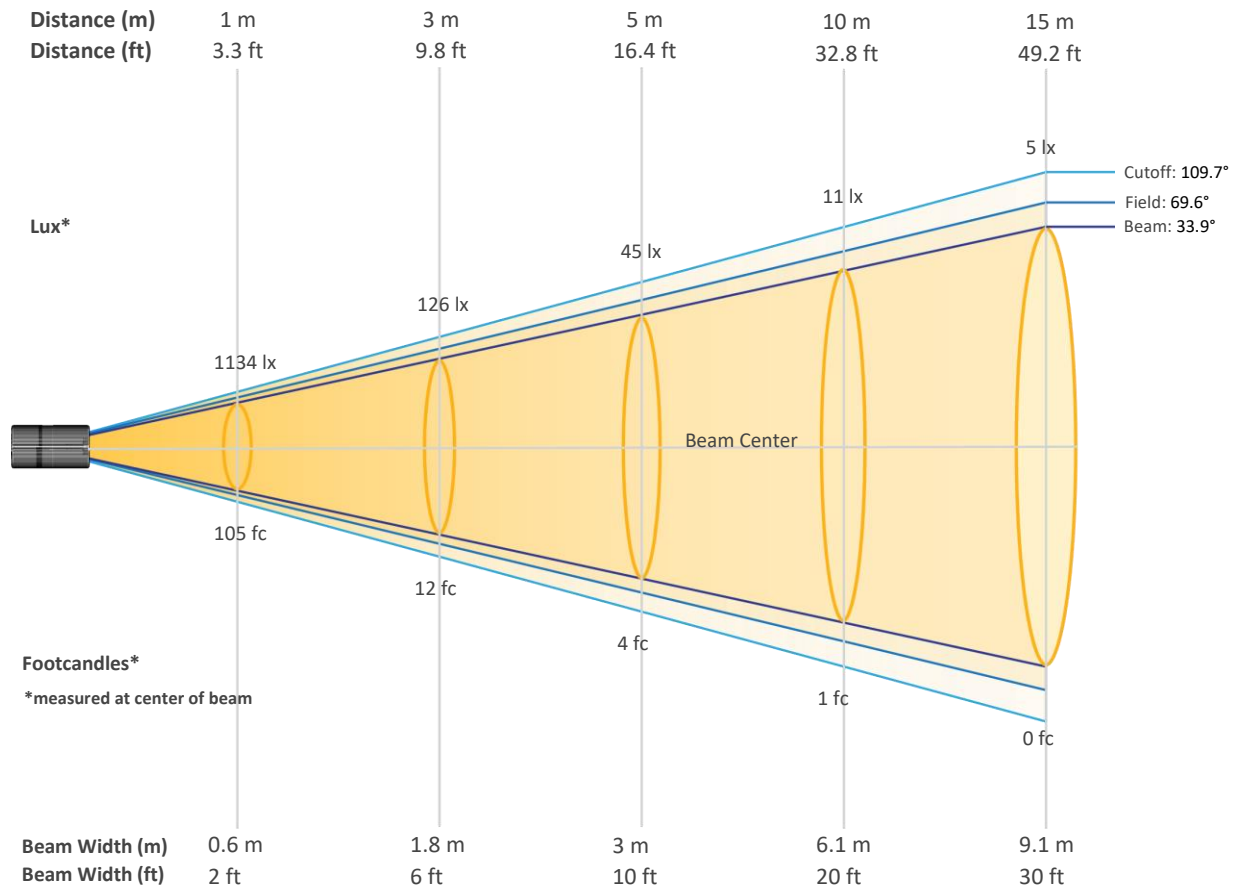
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 6000K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1134	284	126	71	45	32	23	18	14	11
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	9	8	7	6	5	4	4	4	3	3
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	105	26	12	7	4	3	2	2	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	1	1	1	0	0	0	0	0	0

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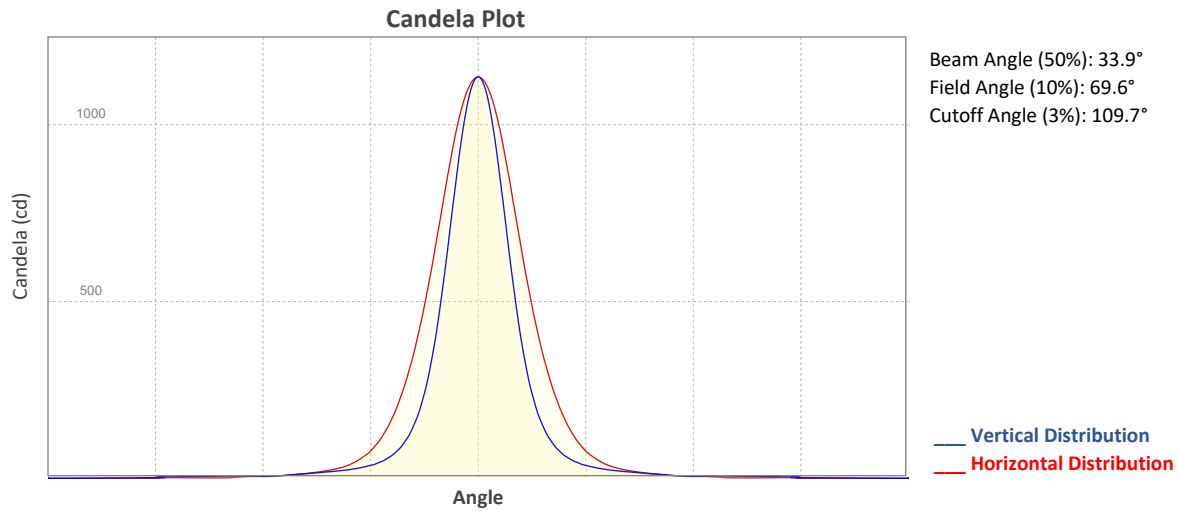
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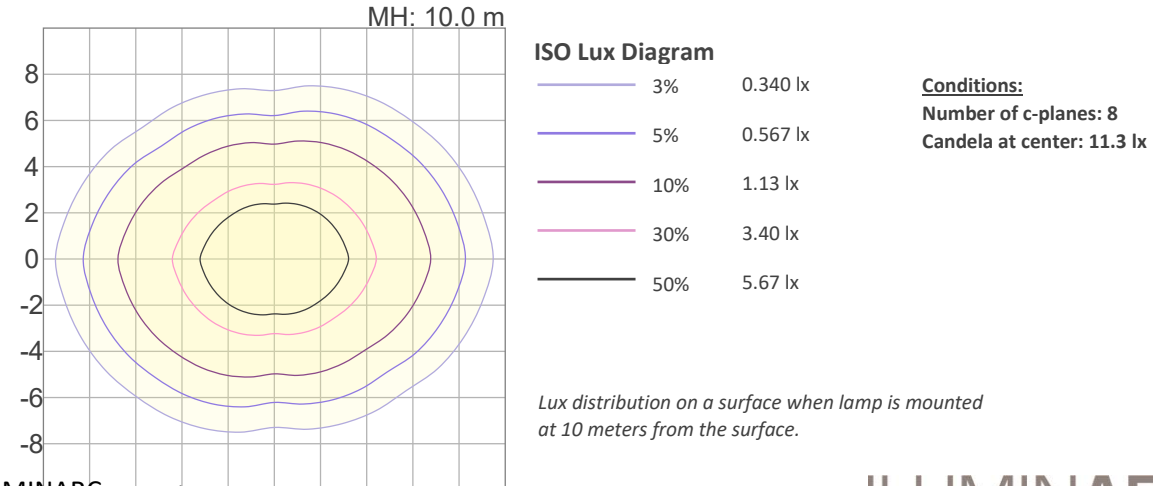
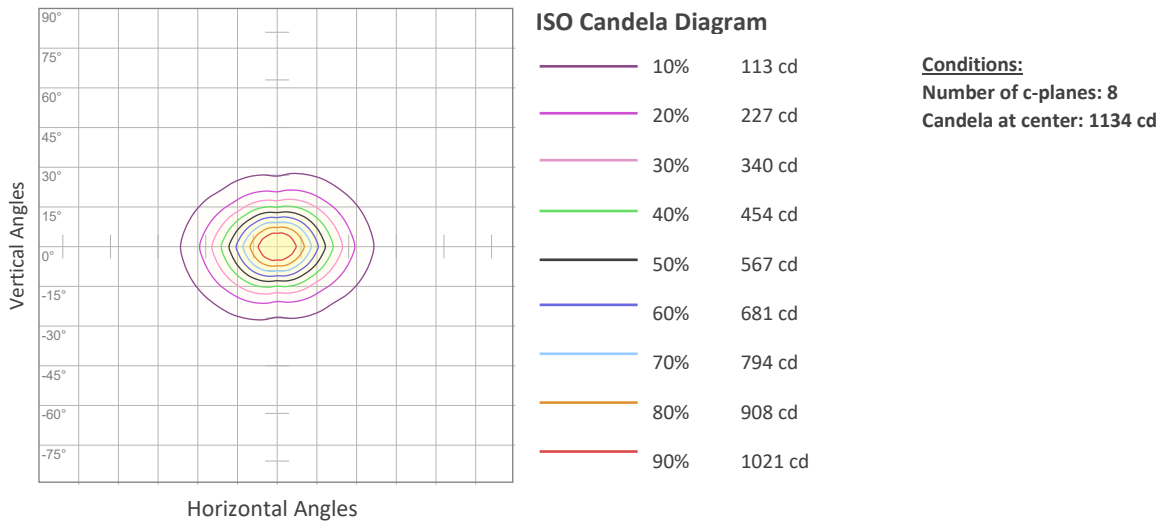
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 6000K



ISO Diagrams

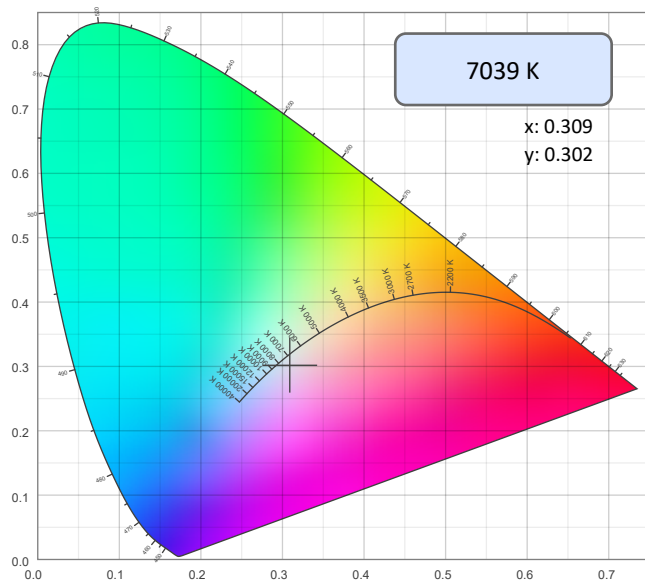


Photometric & Chromaticity Report

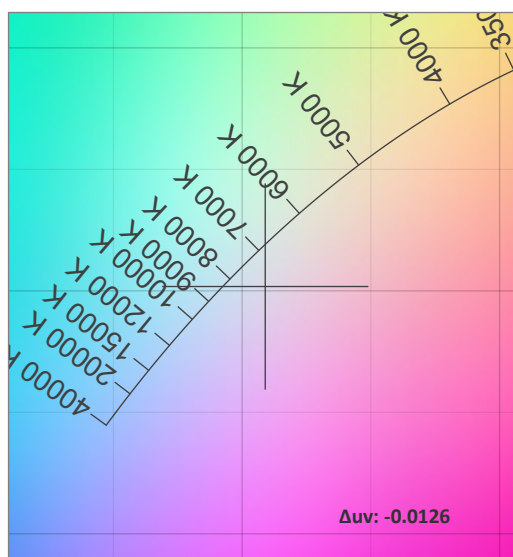
Logic GZS: Standard Optics - 6000K

Chromaticity

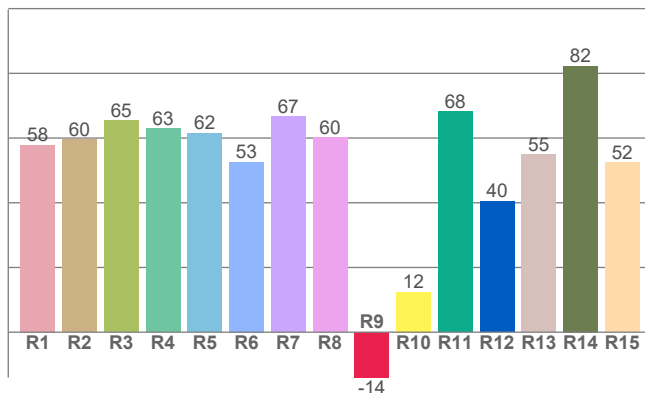
CIE 1931



CIE 1931 - Zoom



CRI: 60.8 (R1-R8)



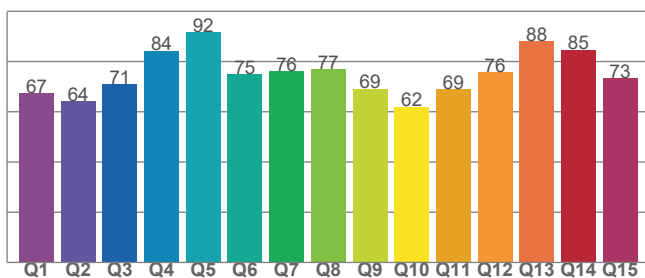
Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
7039 K	0.309	0.302

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0126	0.302	0.206

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
60.8	-14.0	73.8

CQS: 73.8



Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
66	65.6	90.5

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Photometric & Chromaticity Report

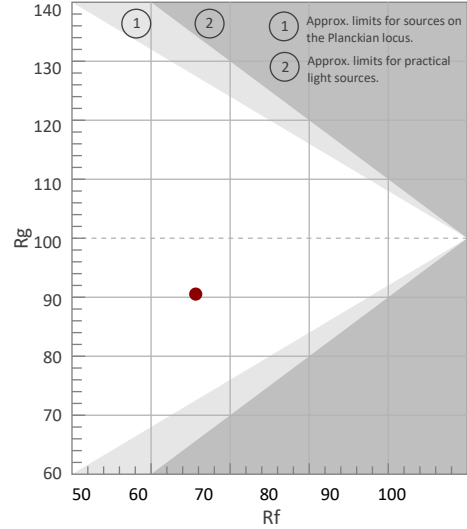
Logic GZS: Standard Optics - 6000K

TM-30 Details

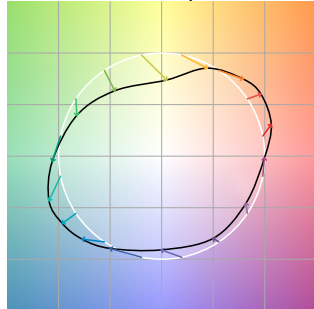
Rf 65.6
Fidelity Index
(Rg)

Rg 90.5
Gammut Index (Rg)

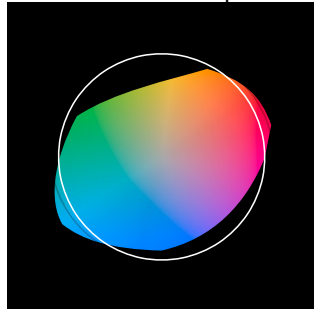
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	70	10%	9%
2	73	13%	-3%
3	63	6%	-24%
4	55	-8%	-27%
5	48	-29%	-19%
6	67	-22%	3%
7	77	-10%	13%
8	58	3%	26%
9	71	16%	21%
10	76	16%	1%
11	56	10%	-19%
12	50	-2%	-32%
13	75	-11%	-18%
14	66	-6%	-3%
15	81	-7%	7%
16	70	-2%	18%



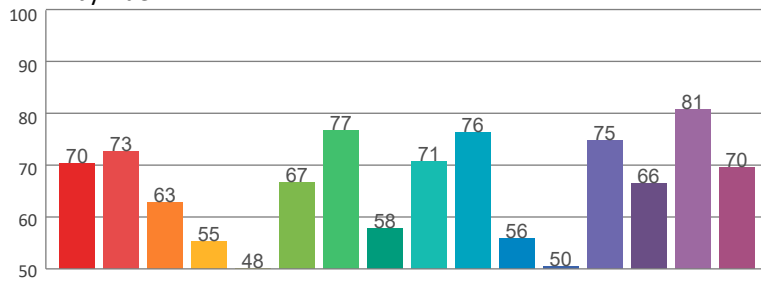
Color Vector Graphic



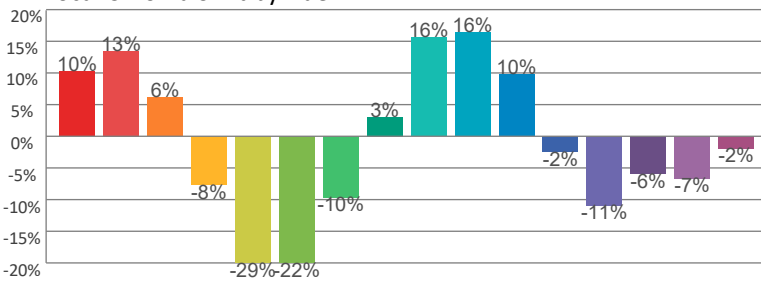
Color Distortion Graphic



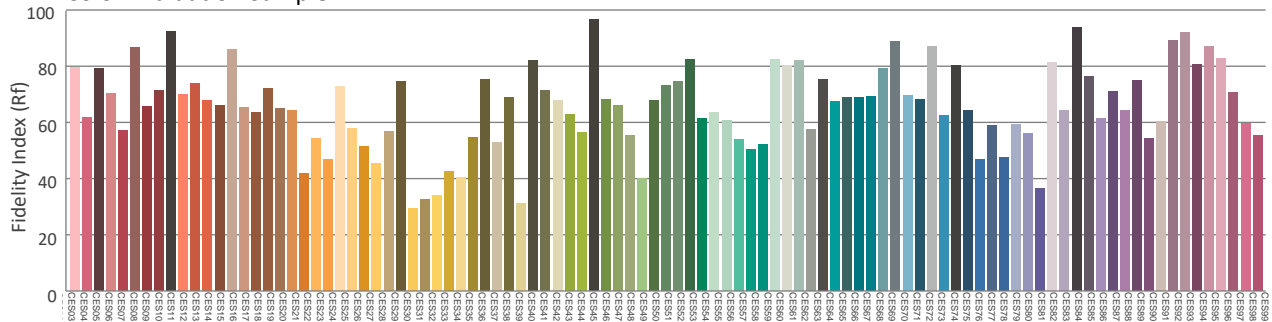
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 6500K

Report Summary

Measurements

Fixture Output: 604 lm
Fixture Peak: 1108 cd
Fixture Efficacy: 26 lm/W
Intensity @ 5m: 44 lux
Color Temperature: 7939 K
CRI: 57.5 CRI R9 Value: -22.0
CQS: 71.6
TLCl: 64
TM-30 Rf: 62.9
TM-30 Rg: 88.6
Beam Angle (50%): 34.1°
Field Angle (10%): 69.7°
Cutoff Angle (2%): 109.9°

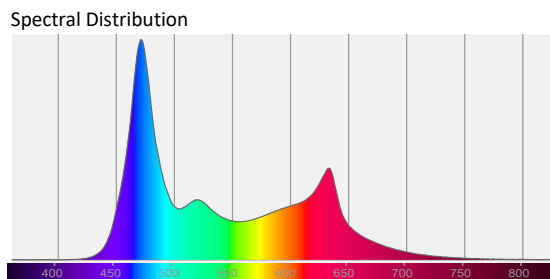
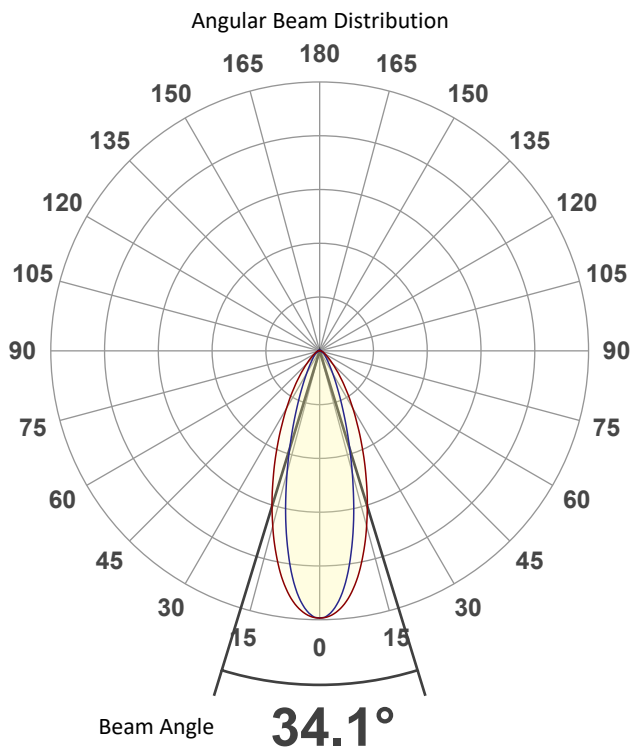
Conditions

AC Supply: 119 V, 60.1 Hz
Power: 25.36 W
Current: 0.213 A
Power Factor: 0.91



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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.300
Y: 0.291

Light Quality
CRI: 57.5

Color Temperature
7939 K

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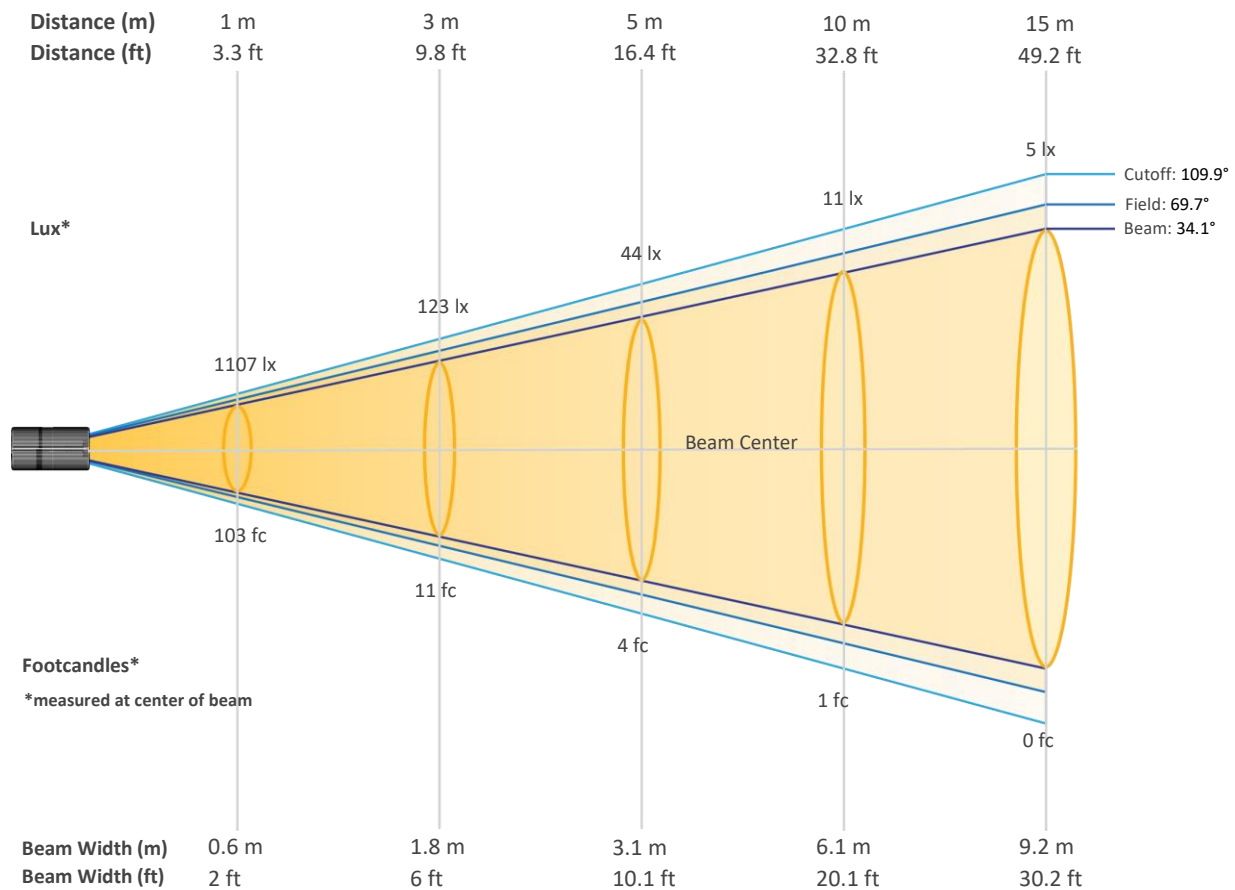
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 6500K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1107	277	123	69	44	31	23	17	14	11
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	9	8	7	6	5	4	4	3	3	3
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	103	26	11	6	4	3	2	2	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	1	1	1	0	0	0	0	0	0

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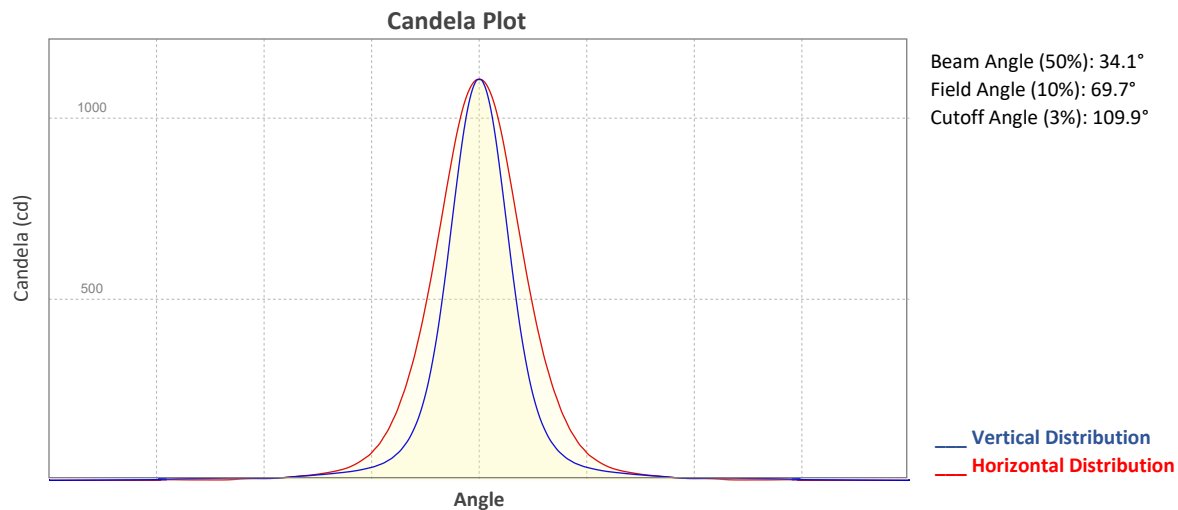
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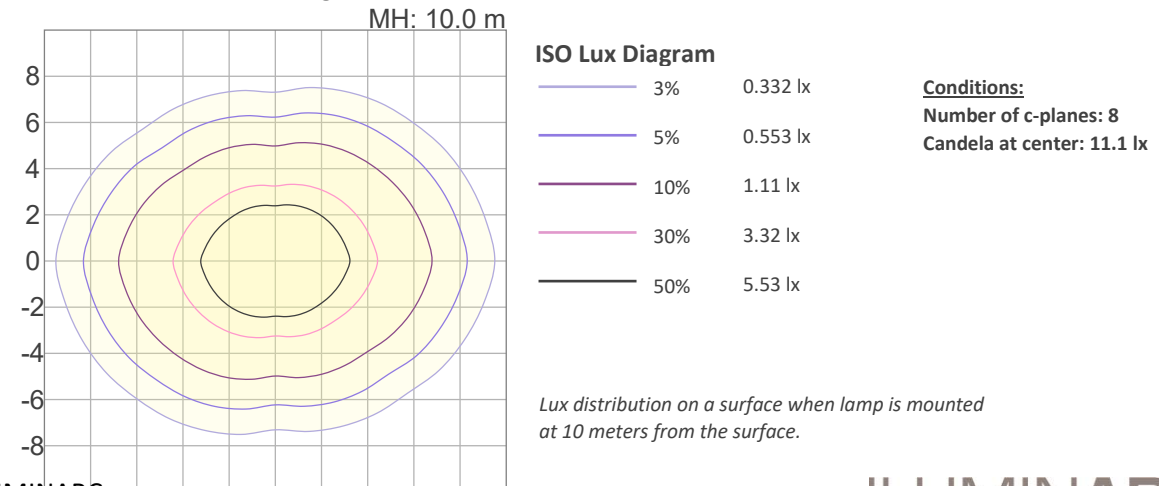
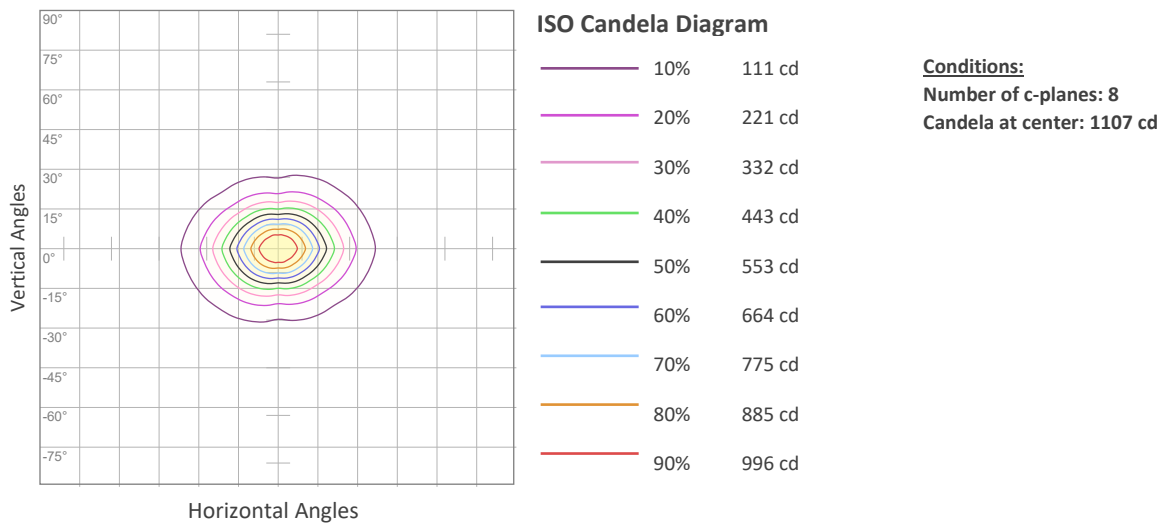
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 6500K



ISO Diagrams

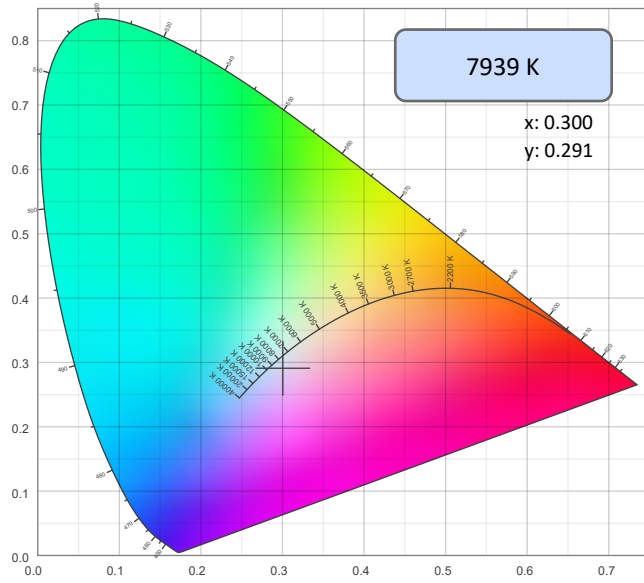


Photometric & Chromaticity Report

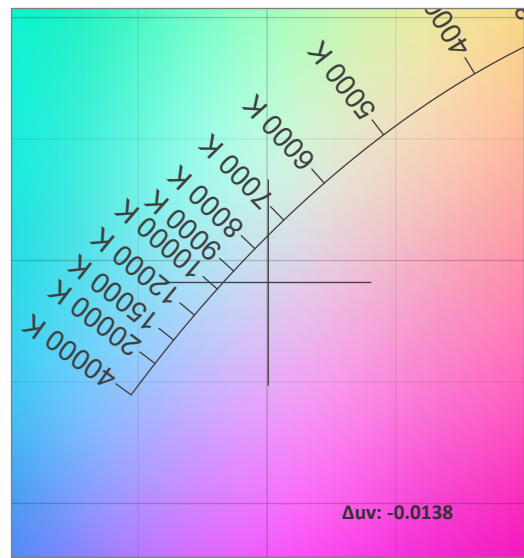
Logic GZS: Standard Optics - 6500K

Chromaticity

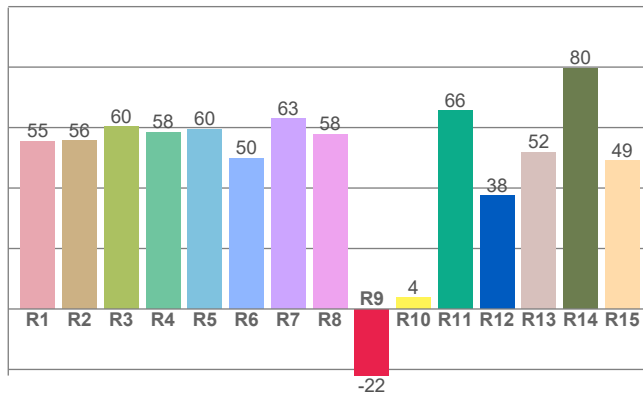
CIE 1931



CIE 1931 - Zoom



CRI: 57.5 (R1-R8)

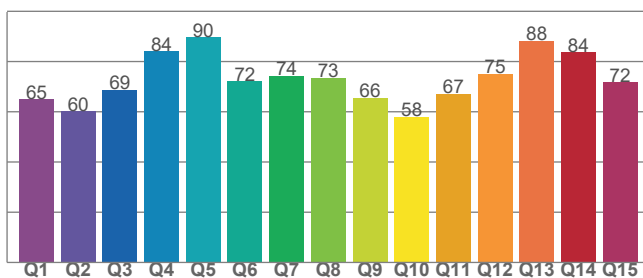


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
7939 K	0.300	0.291

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0138	0.291	0.204

CQS: 71.6



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
57.5	-22.0	71.6

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
64	62.9	88.6

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Photometric & Chromaticity Report

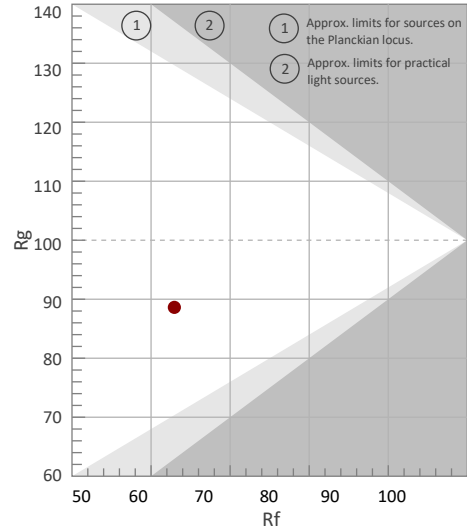
Logic GZS: Standard Optics - 6500K

TM-30 Details

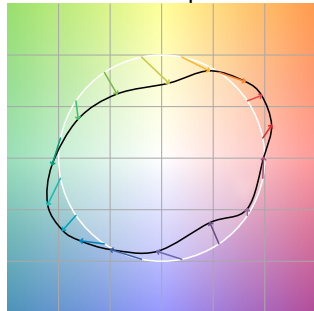
Rf 62.9
Fidelity Index (Rg)

Rg 88.6
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	68	11%	10%
2	71	14%	-3%
3	60	7%	-26%
4	52	-8%	-29%
5	44	-30%	-21%
6	63	-24%	2%
7	74	-12%	13%
8	54	3%	27%
9	72	17%	23%
10	73	19%	5%
11	53	10%	-21%
12	58	-3%	-31%
13	68	-12%	-22%
14	62	-22%	4%
15	85	-4%	5%
16	63	-3%	20%



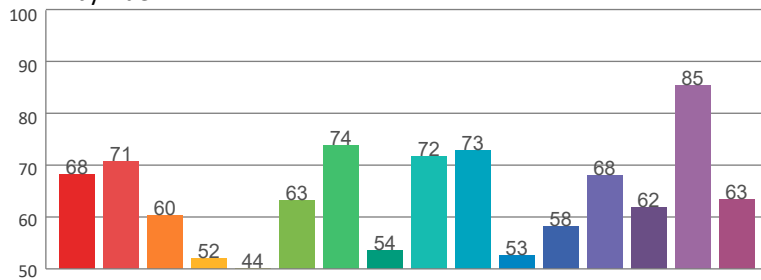
Color Vector Graphic



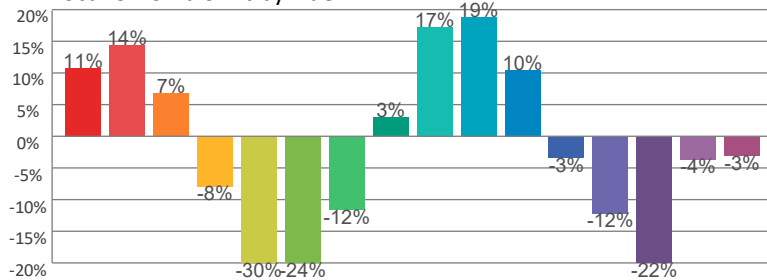
Color Distortion Graphic



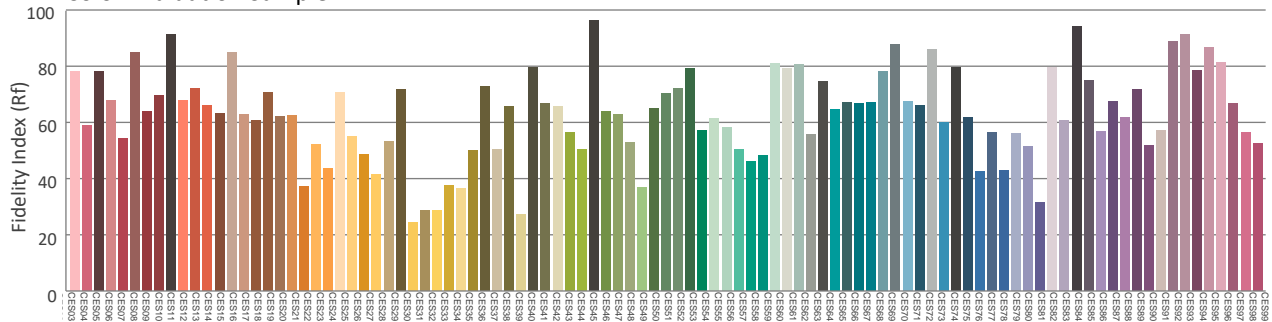
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 7000K

Report Summary

Measurements

Fixture Output: 592 lm
Fixture Peak: 1079 cd
Fixture Efficacy: 26 lm/W
Intensity @ 5m: 43 lux
Color Temperature: 8884 K
CRI: 54.8 CRI R9 Value: -33.1
CQS: 69.2
TLCl: 62
TM-30 Rf: 60.7
TM-30 Rg: 87.2
Beam Angle (50%): 34.1°
Field Angle (10%): 69.8°
Cutoff Angle (3%): 110.2°

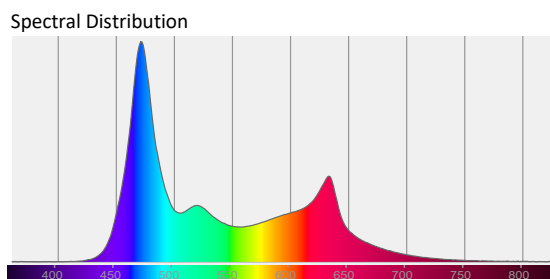
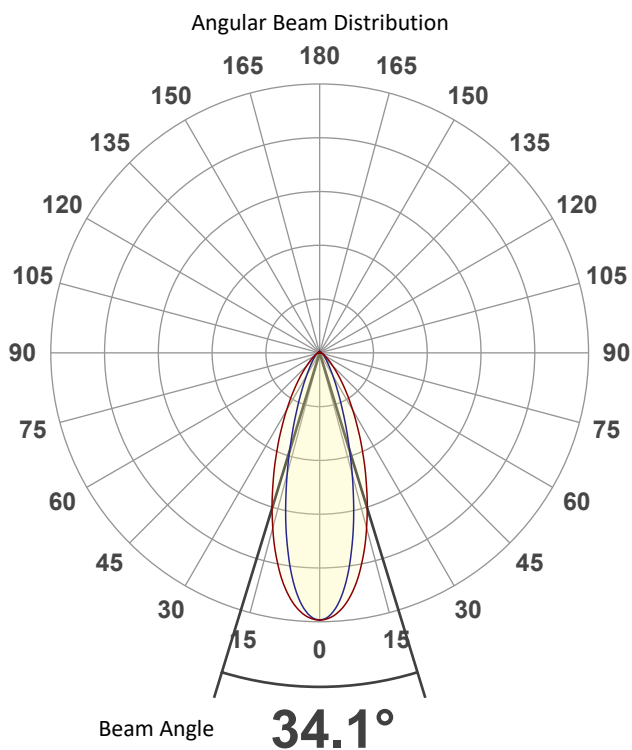
Conditions

AC Supply: 119 V, 60 Hz
Power: 25.33 W
Current: 0.213 A
Power Factor: 0.91



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 5/16/2022 to LM-63-2002 Standards.

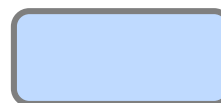
Overall Measurement



Tested Color (CIE 1931):

X: 0.293

Y: 0.284



Light Quality

CRI: 54.8

Color Temperature

8884 K

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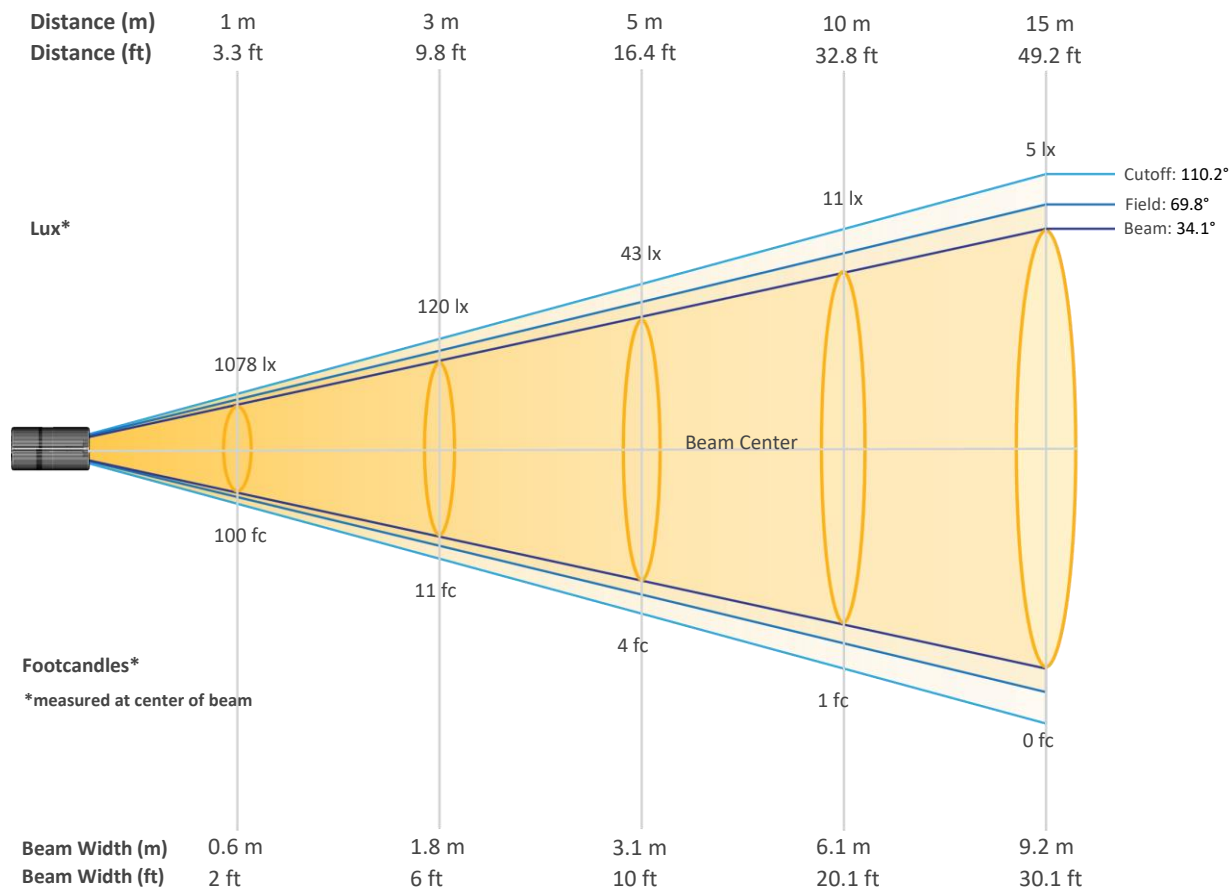
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 7000K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1078	270	120	67	43	30	22	17	13	11
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	9	7	6	6	5	4	4	3	3	3
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	100	25	11	6	4	3	2	2	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	1	1	1	0	0	0	0	0	0

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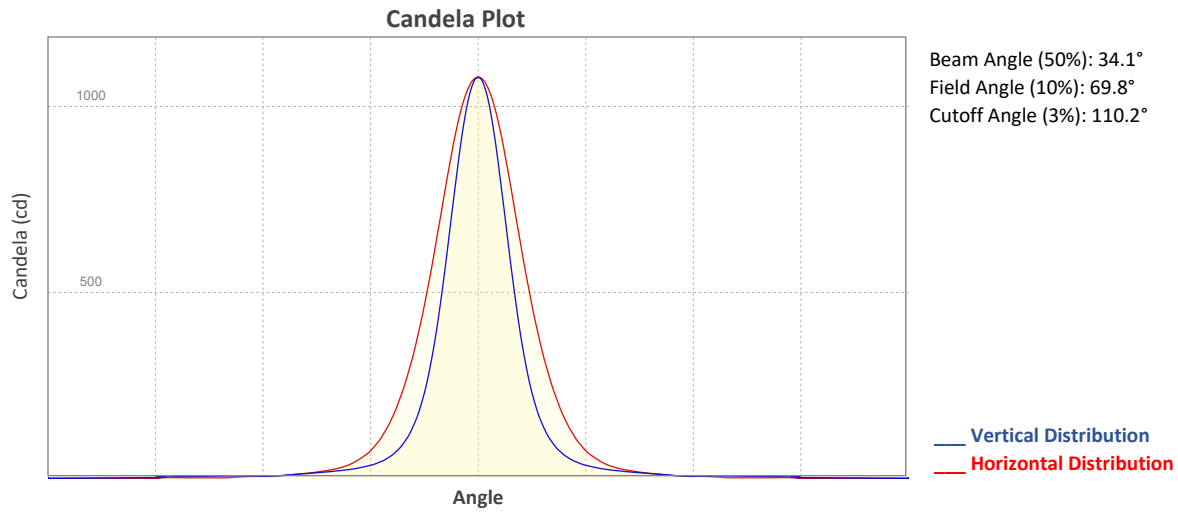
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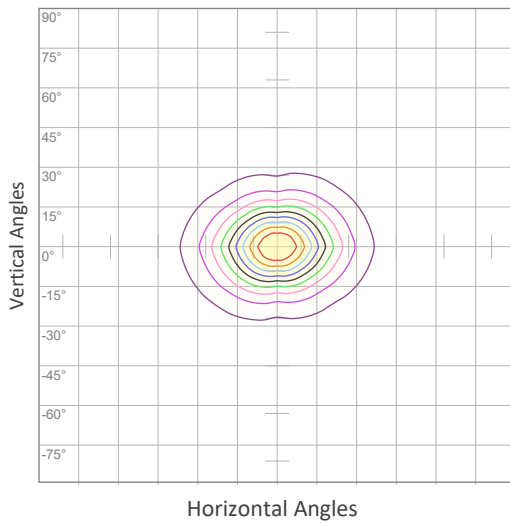
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 7000K



ISO Diagrams

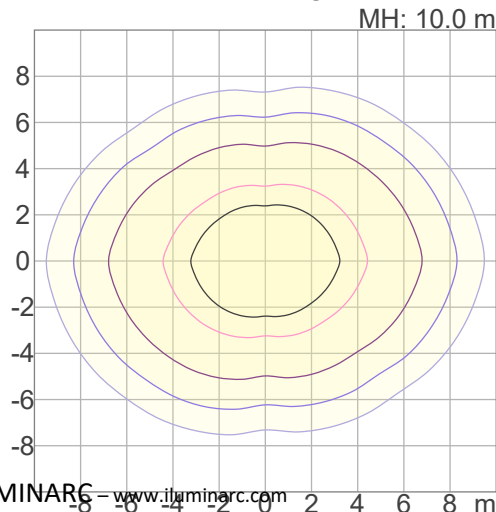


ISO Candela Diagram

10%	108 cd
20%	216 cd
30%	323 cd
40%	431 cd
50%	539 cd
60%	647 cd
70%	755 cd
80%	863 cd
90%	970 cd

Conditions:

Number of c-planes: 8
Candela at center: 1078 cd



ISO Lux Diagram

3%	0.323 lx
5%	0.539 lx
10%	1.08 lx
30%	3.23 lx
50%	5.39 lx

Conditions:

Number of c-planes: 8
Candela at center: 10.8 lx

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

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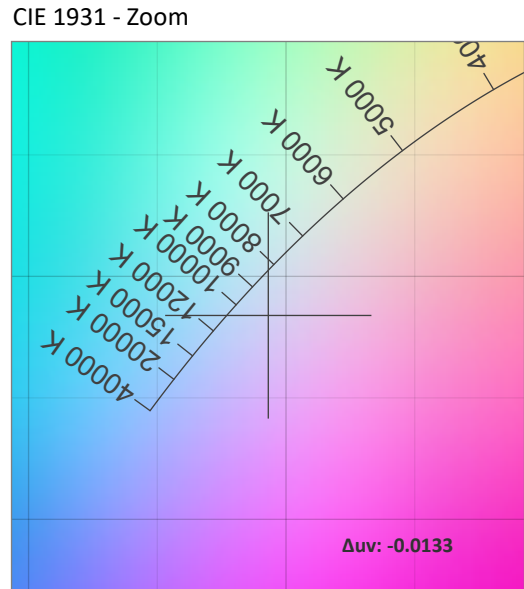
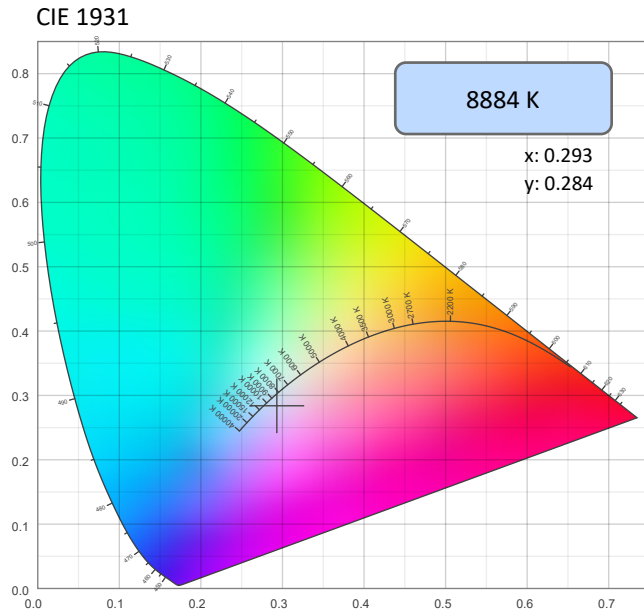
Mounting height: 10 meters / 33 feet

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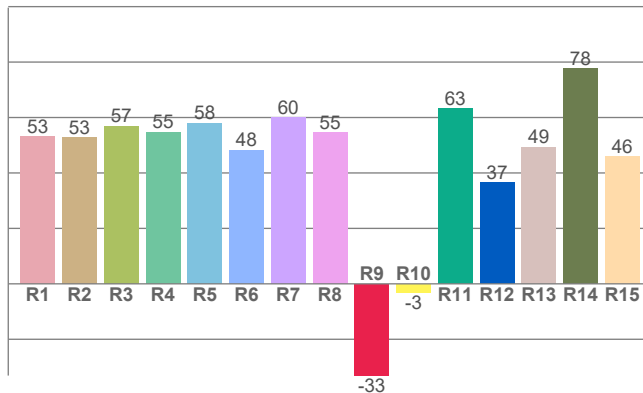
Photometric & Chromaticity Report

Logic GZS: Standard Optics - 7000K

Chromaticity



CRI: 54.8 (R1-R8)



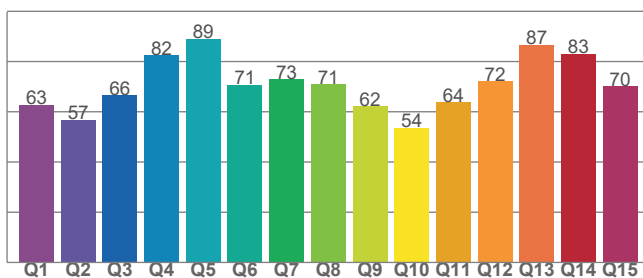
Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
8884 K	0.293	0.284

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0133	0.284	0.201

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
54.8	-33.1	69.2

CQS: 69.2



Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
62	60.7	87.2

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Photometric & Chromaticity Report

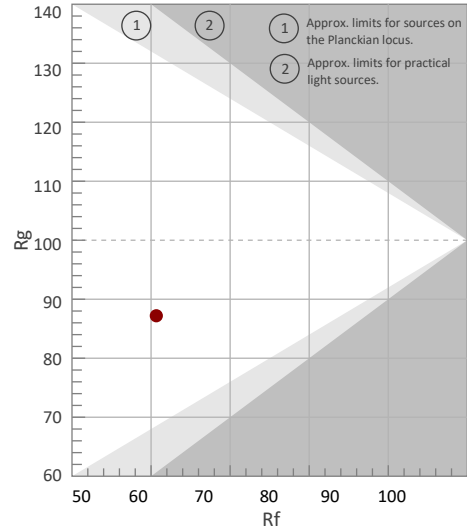
Logic GZS: Standard Optics - 7000K

TM-30 Details

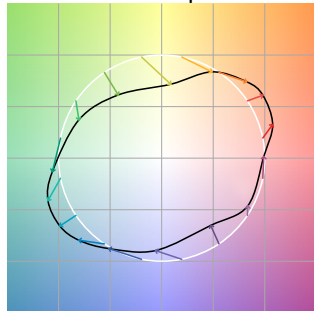
Rf 60.7
Fidelity Index
(Rg)

Rg 87.2
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	66	12%	11%
2	69	16%	-4%
3	53	7%	-27%
4	54	-8%	-31%
5	41	-31%	-23%
6	61	-26%	1%
7	72	-13%	14%
8	55	1%	33%
9	69	16%	19%
10	75	19%	0%
11	50	11%	-23%
12	56	-4%	-33%
13	66	-13%	-23%
14	67	-19%	3%
15	83	-5%	8%
16	61	-3%	21%



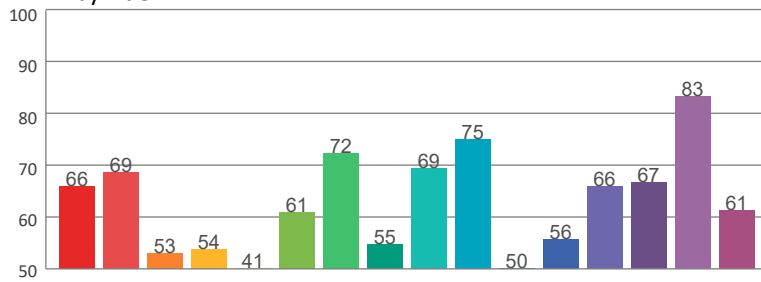
Color Vector Graphic



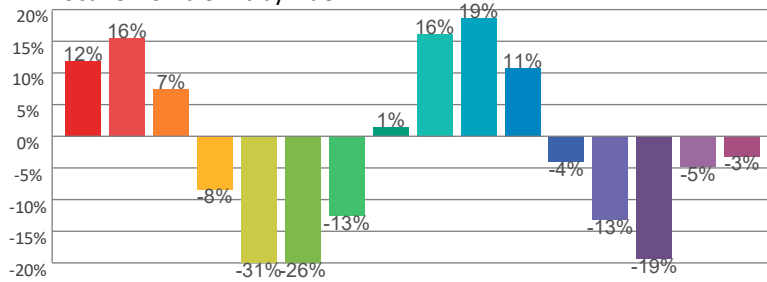
Color Distortion Graphic



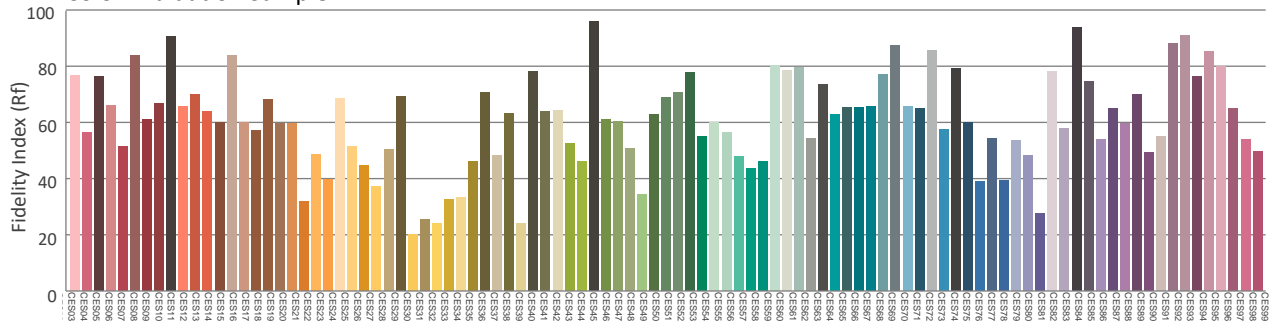
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 8000K

Report Summary

Measurements

Fixture Output: 558 lm
 Fixture Peak: 1019 cd
 Fixture Efficacy: 24 lm/W
 Intensity @ 5m: 41 lux
 Color Temperature: 11601 K
 CRI: 48.7 CRI R9 Value: -60.0
 CQS: 63.9
 TLCI: 56
 TM-30 Rf: 55.7
 TM-30 Rg: 84.3
 Beam Angle (50%): 34°
 Field Angle (10%): 69.8°
 Cutoff Angle (3%): 110.2°

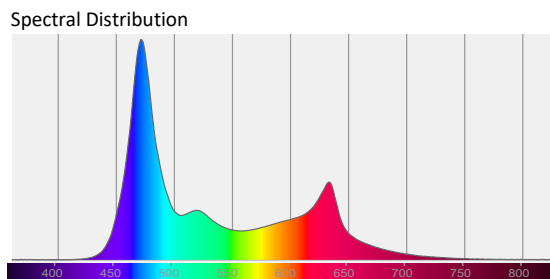
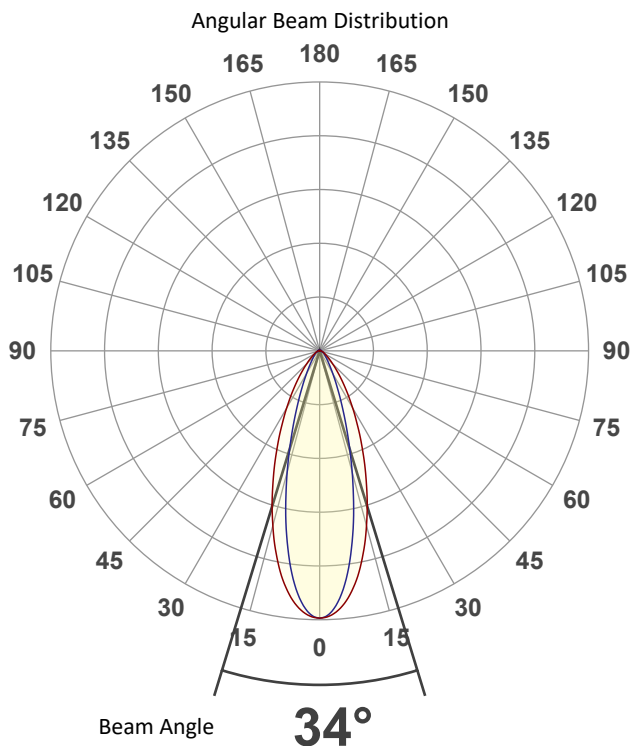


Conditions

AC Supply: 119 V, 60 Hz
 Power: 25.37 W
 Current: 0.213 A
 Power Factor: 0.91

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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
 X: 0.280
 Y: 0.269

Light Quality CRI: 48.7

Color Temperature 11601 K

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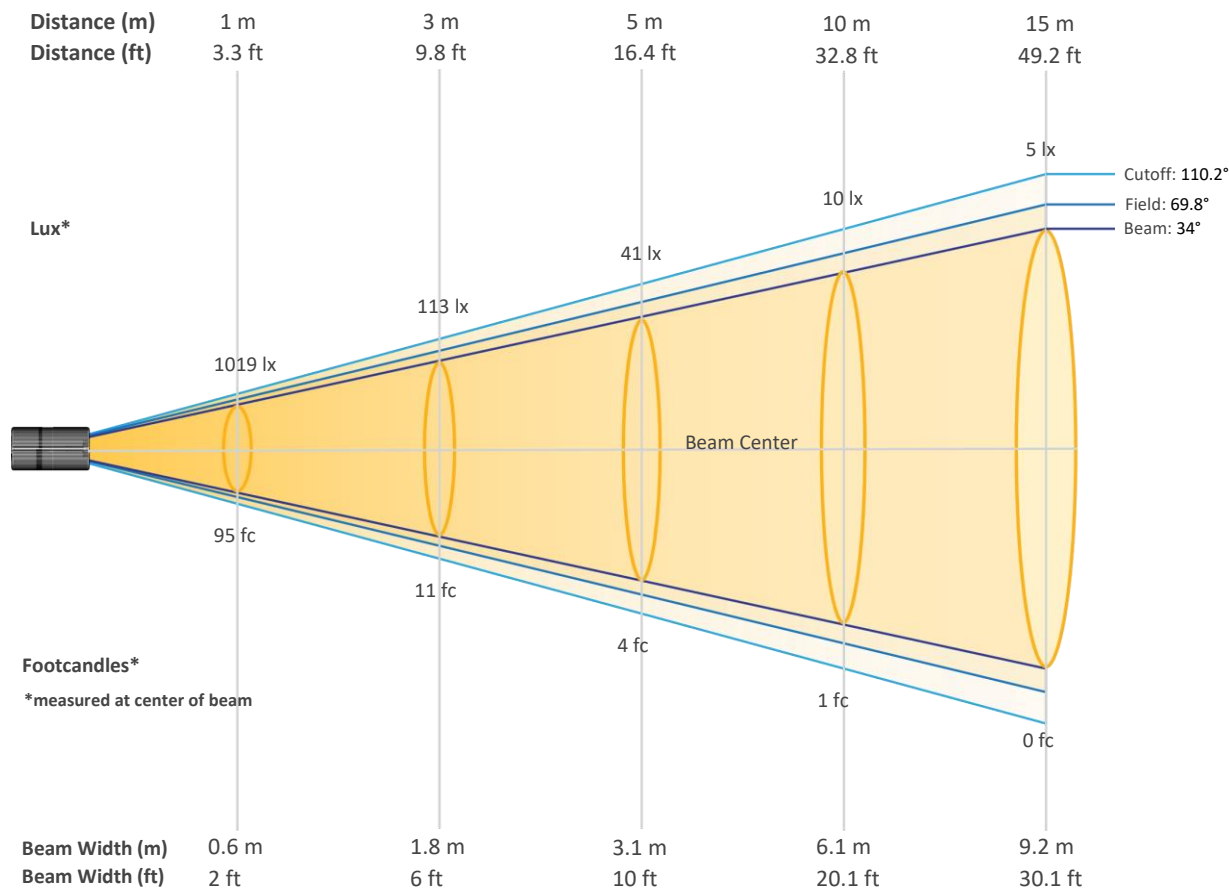
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 8000K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1019	255	113	64	41	28	21	16	13	10
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	8	7	6	5	5	4	4	3	3	3
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	95	24	11	6	4	3	2	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	1	1	0	0	0	0	0	0	0

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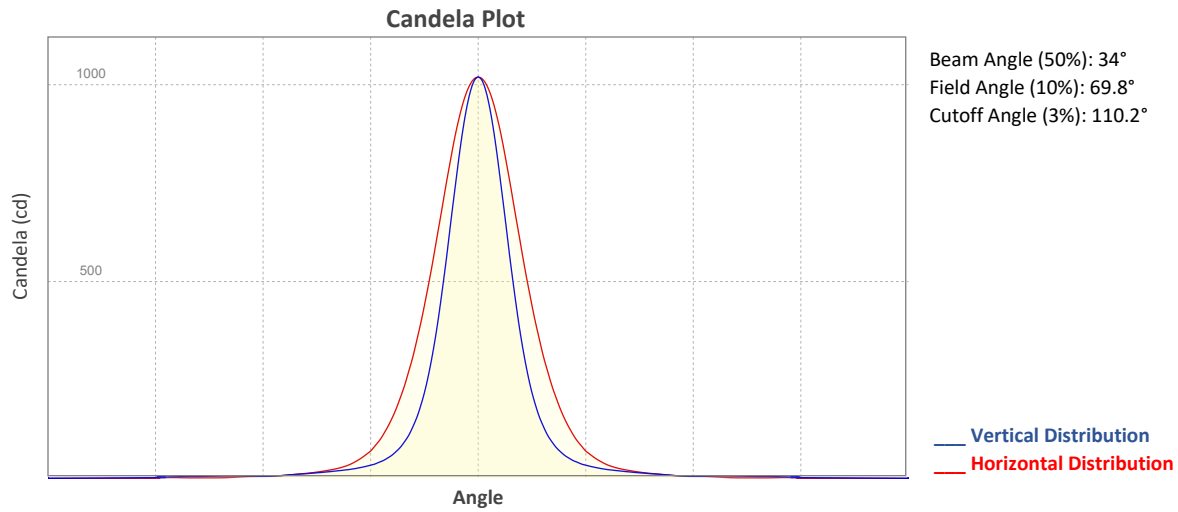
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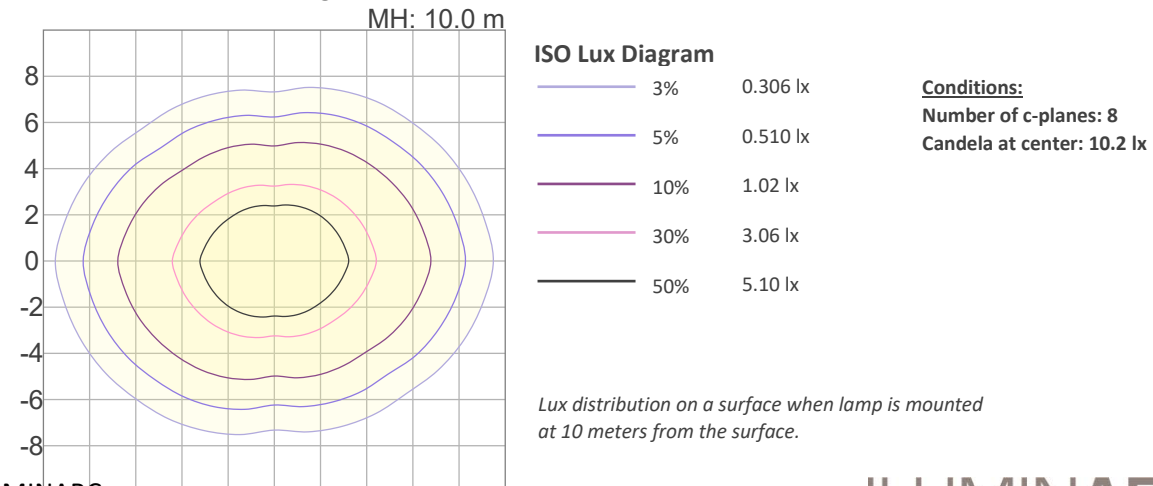
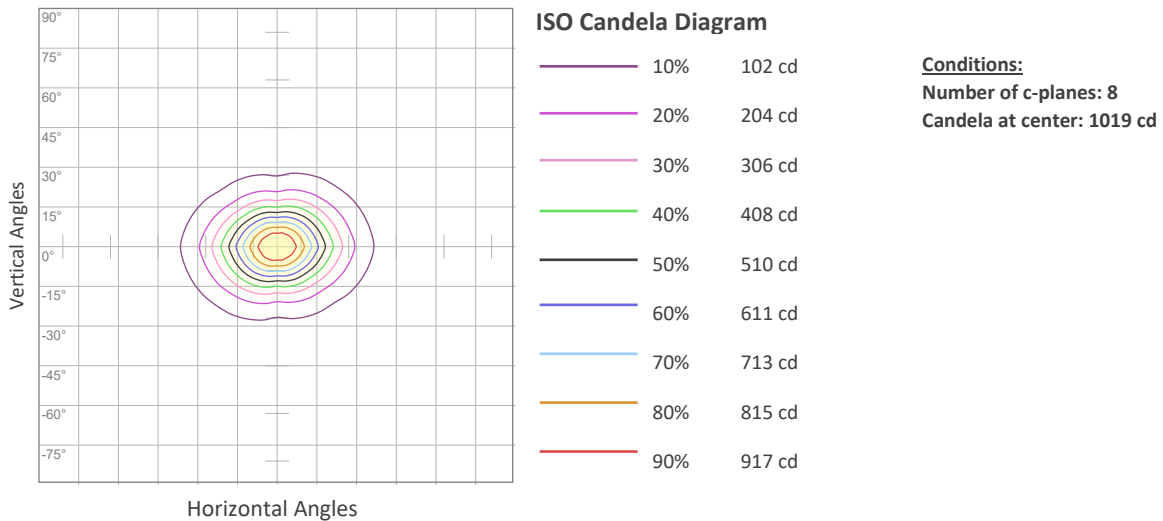
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 8000K



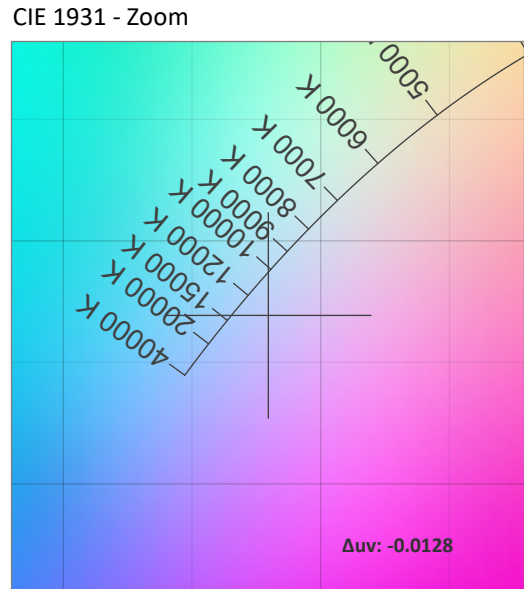
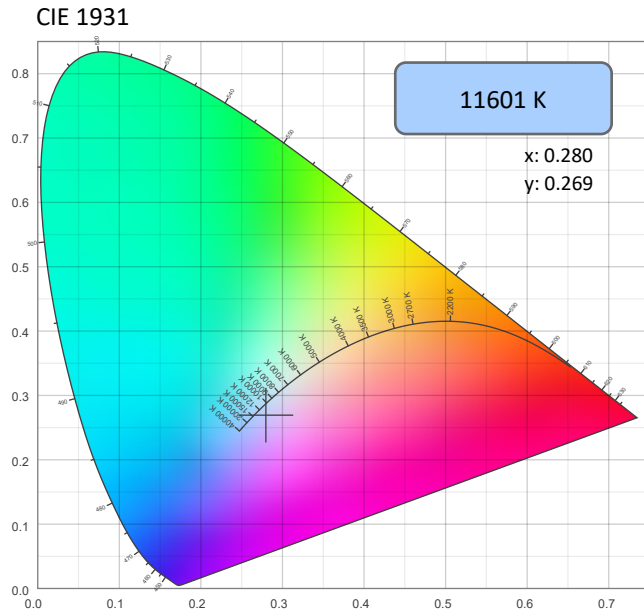
ISO Diagrams



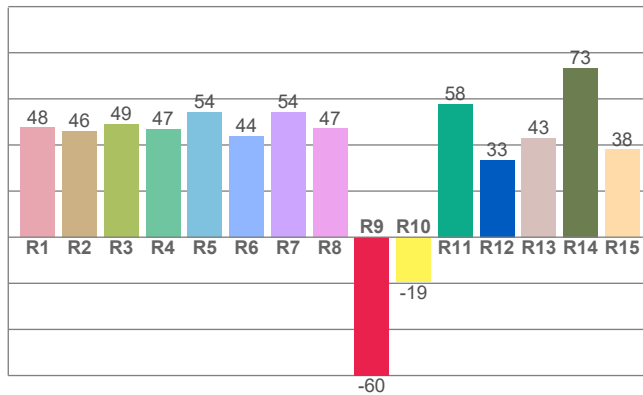
Photometric & Chromaticity Report

Logic GZS: Standard Optics - 8000K

Chromaticity



CRI: 48.7 (R1-R8)

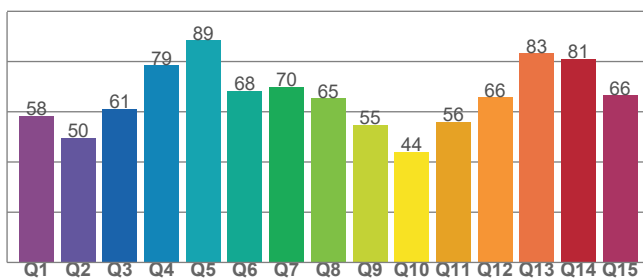


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
11601 K	0.280	0.269

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0128	0.269	0.197

CQS: 63.9



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
48.7	-60.0	63.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
56	55.7	84.3

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Photometric & Chromaticity Report

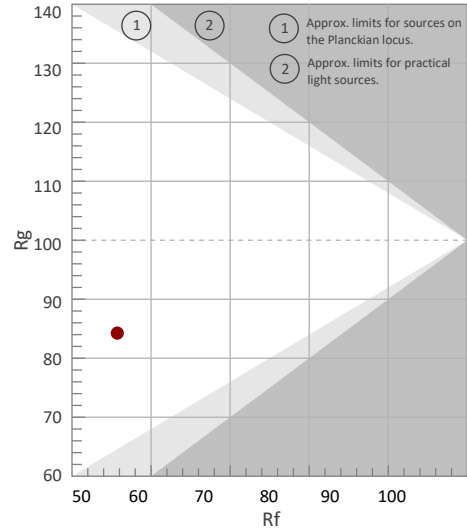
Logic GZS: Standard Optics - 8000K

TM-30 Details

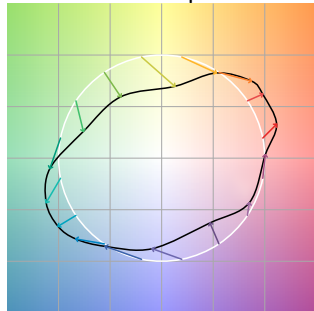
Rf 55.7
Fidelity Index (Rg)

Rg 84.3
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	62	16%	11%
2	66	16%	-3%
3	50	11%	-31%
4	44	-9%	-36%
5	33	-34%	-26%
6	56	-28%	0%
7	65	-22%	21%
8	54	4%	31%
9	65	18%	20%
10	73	20%	-1%
11	44	11%	-26%
12	50	-5%	-37%
13	62	-16%	-26%
14	62	-22%	4%
15	80	-5%	11%
16	56	-2%	23%



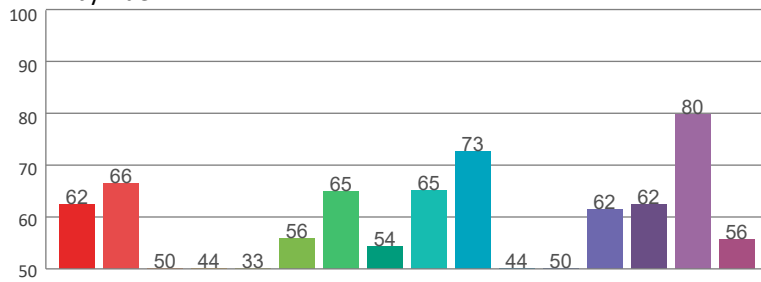
Color Vector Graphic



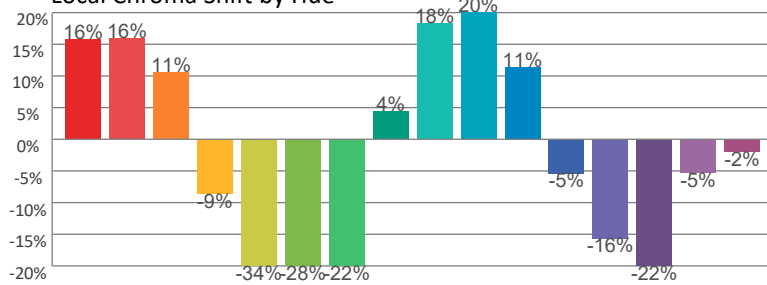
Color Distortion Graphic



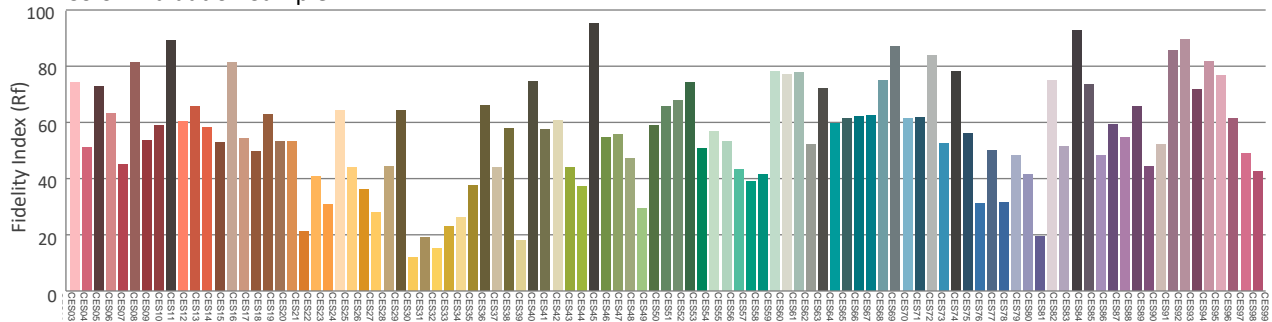
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 10000K

Report Summary

Measurements

Fixture Output: 525 lm
Fixture Peak: 954 cd
Fixture Efficacy: 23 lm/W
Intensity @ 5m: 38 lux
Color Temperature: 19584 K
CRI: 41.7 CRI R9 Value: -84.7
CQS: 57.5
TLCI: 51
TM-30 Rf: 49.9
TM-30 Rg: 82.6
Beam Angle (50%): 34°
Field Angle (10%): 69.9°
Cutoff Angle (3%): 110.7°

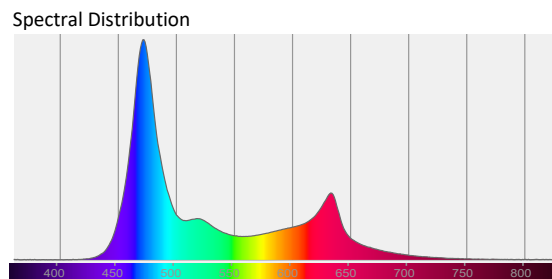
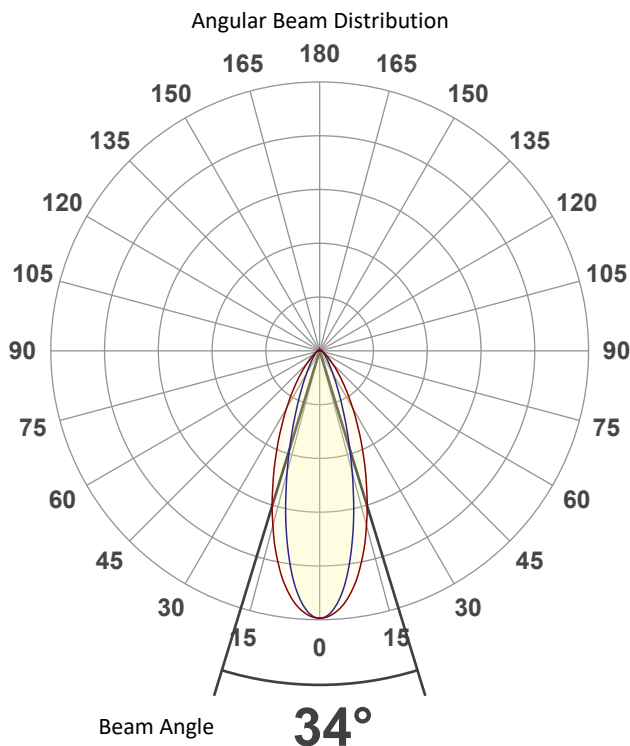
Conditions

AC Supply: 119 V, 60 Hz
Power: 25.3 W
Current: 0.213 A
Power Factor: 0.91



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 5/16/2022 to LM-63-2002 Standards.

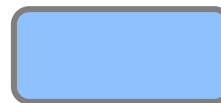
Overall Measurement



Tested Color (CIE 1931):

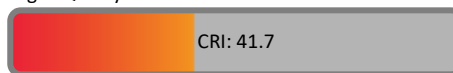
X: 0.264

Y: 0.251



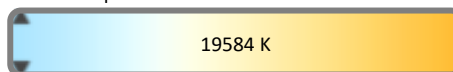
Light Quality

CRI: 41.7



Color Temperature

19584 K



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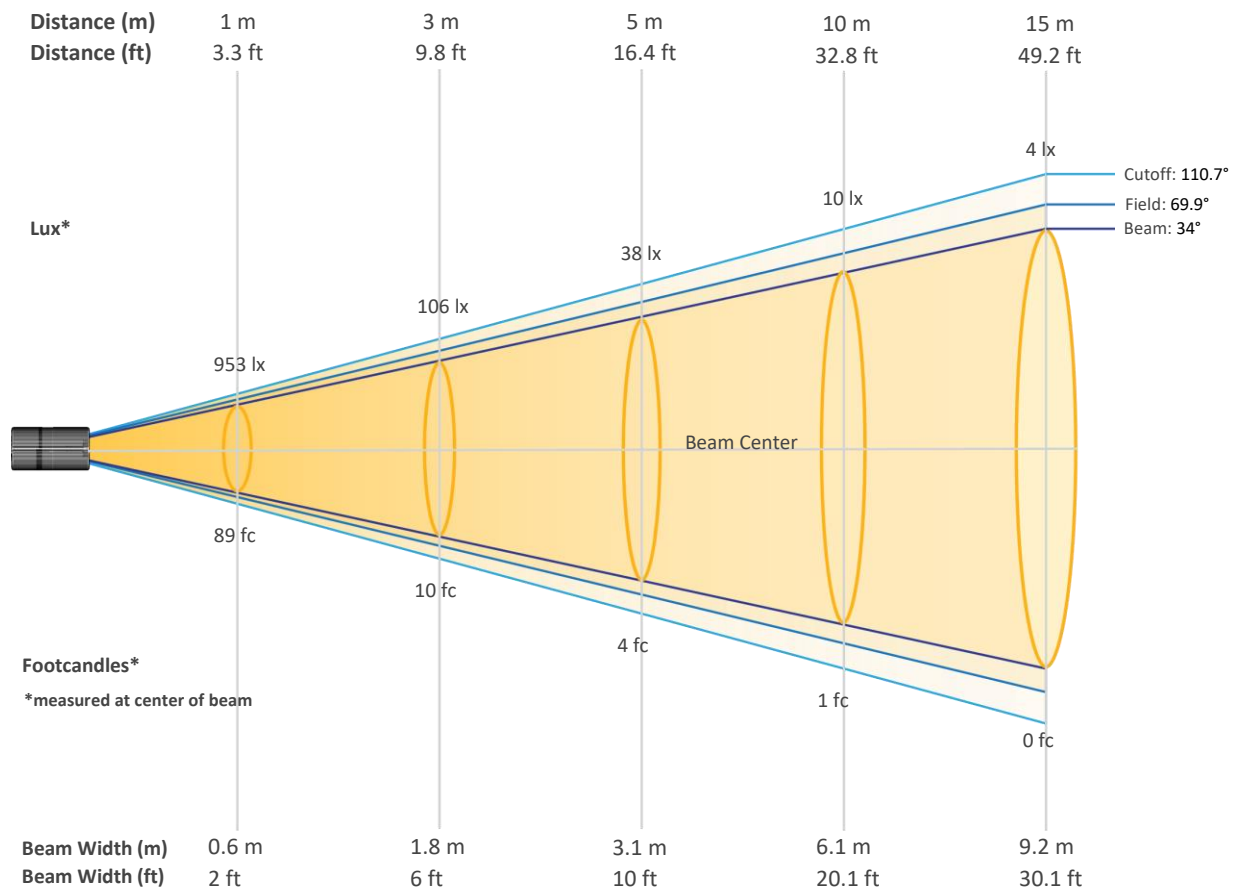
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 10000K

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	953	238	106	60	38	26	19	15	12	10
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	8	7	6	5	4	4	3	3	3	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	89	22	10	6	4	2	2	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	1	1	0	0	0	0	0	0	0

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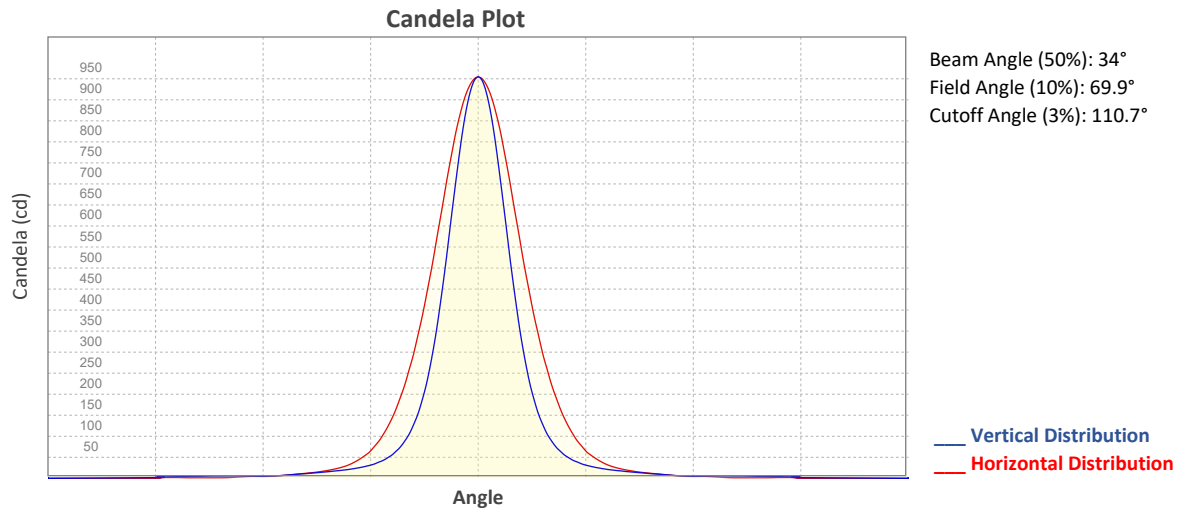
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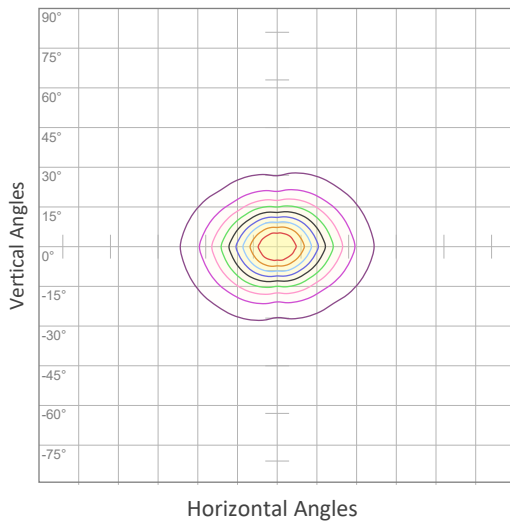
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Photometric & Chromaticity Report

Logic GZS: Standard Optics - 10000K



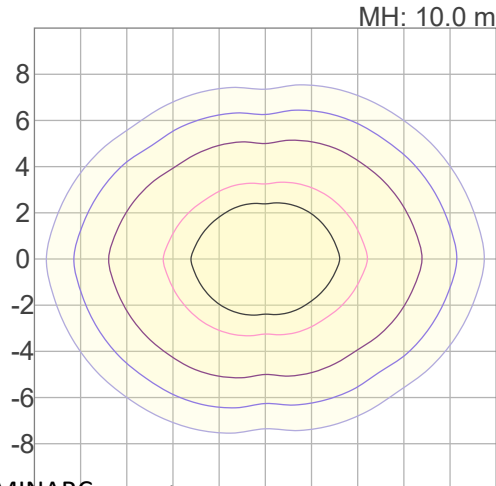
ISO Diagrams



ISO Candela Diagram

10%	95 cd
20%	191 cd
30%	286 cd
40%	381 cd
50%	477 cd
60%	572 cd
70%	667 cd
80%	763 cd
90%	858 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 953 cd



ISO Lux Diagram

3%	0.286 lx
5%	0.477 lx
10%	0.953 lx
30%	2.86 lx
50%	4.77 lx

Conditions:
 Number of c-planes: 8
 Candela at center: 9.53 lx

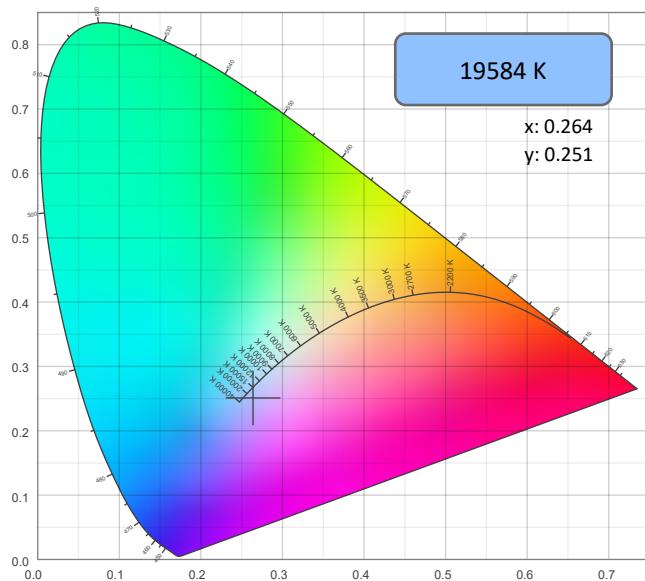
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Photometric & Chromaticity Report

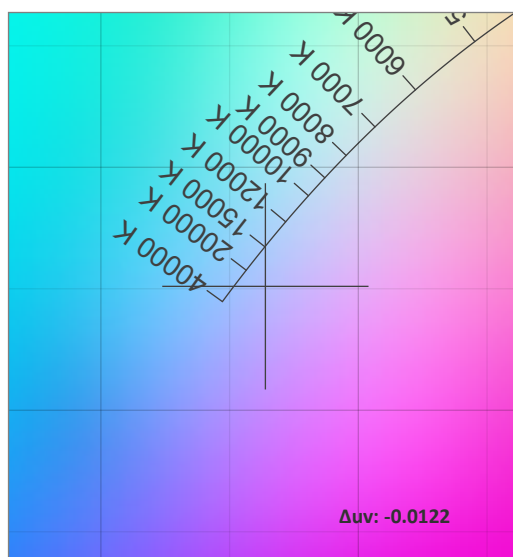
Logic GZS: Standard Optics - 10000K

Chromaticity

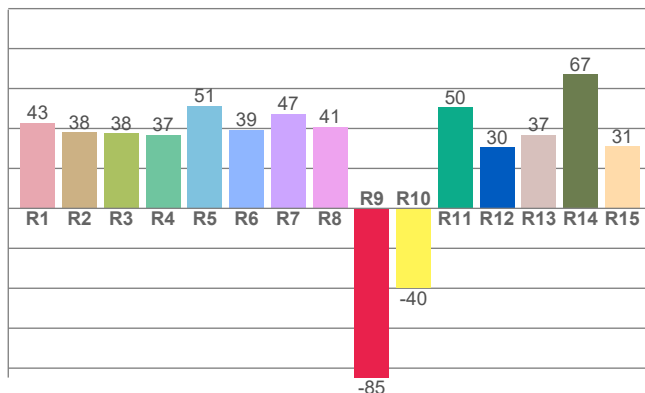
CIE 1931



CIE 1931 - Zoom



CRI: 41.7 (R1-R8)

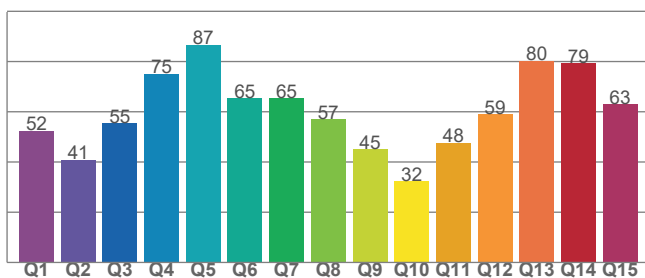


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
19584 K	0.264	0.251

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0122	0.251	0.192

CQS: 57.5



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
41.7	-84.7	57.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
51	49.9	82.6

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Photometric & Chromaticity Report

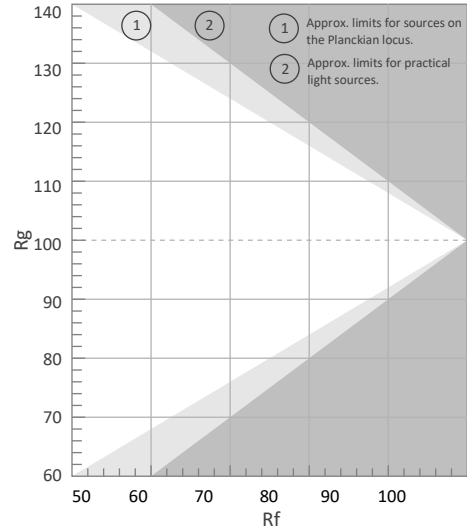
Logic GZS: Standard Optics - 10000K

TM-30 Details

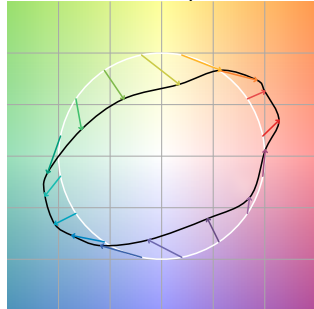
Rf 49.9
Fidelity Index (Rg)

Rg 82.6
Gammut Index (Rg)

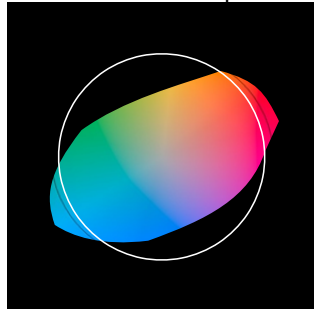
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	57	18%	12%
2	62	18%	-3%
3	42	13%	-36%
4	34	-7%	-40%
5	28	-35%	-30%
6	51	-33%	0%
7	58	-21%	22%
8	51	5%	38%
9	64	18%	16%
10	72	23%	-3%
11	37	12%	-29%
12	52	-3%	-41%
13	45	-23%	-29%
14	57	-25%	3%
15	77	-7%	14%
16	50	-3%	25%



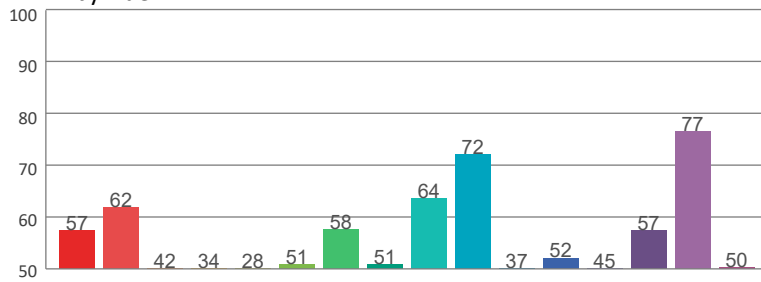
Color Vector Graphic



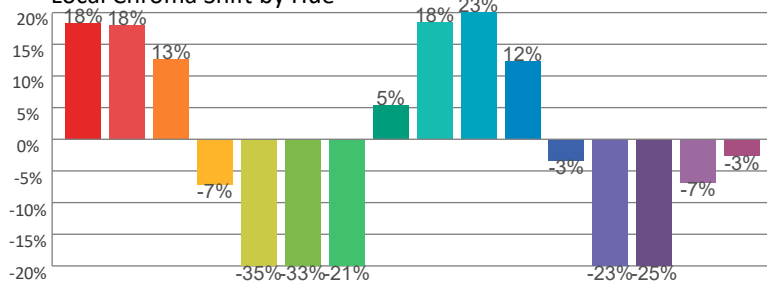
Color Distortion Graphic



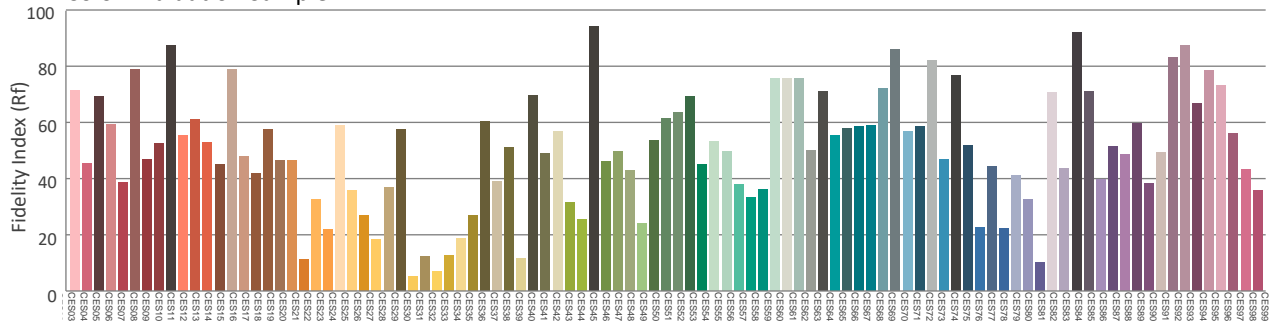
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: Very Wide Filter - RGBW - Full Power

Report Summary

Measurements

Fixture Output: 539 lm
 Fixture Peak: 318 cd
 Fixture Efficacy: 24 lm/W
 Intensity @ 5m: 13 lux
 Color Temperature: 5572 K
 CRI: 74.2 CRI R9 Value: 39.6
 CQS: 80.9
 TLCI: 77
 TM-30 Rf: 74.5
 TM-30 Rg: 92.8
 Beam Angle (50%): 48.4°
 Field Angle (10%): 162.7°
 Cutoff Angle (2%): 232.3°

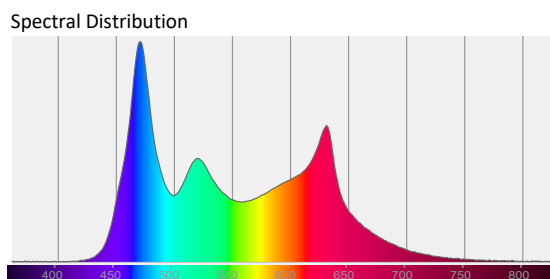
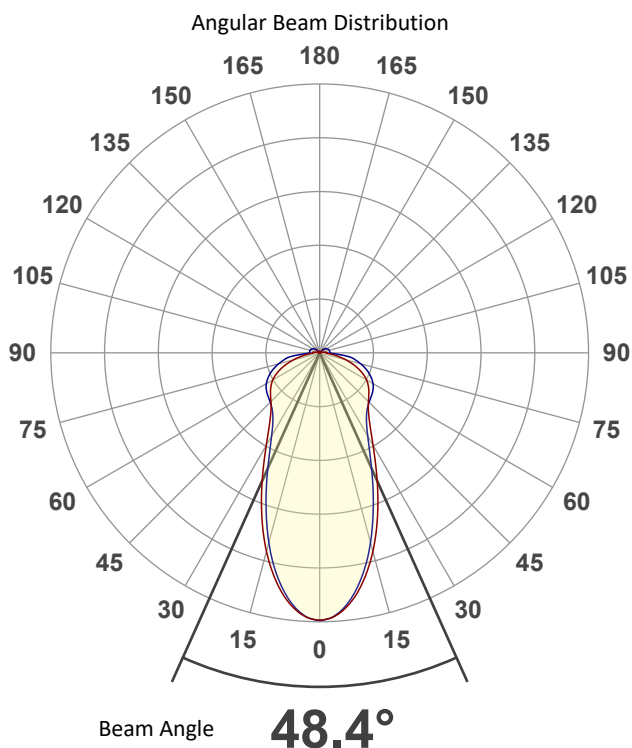
Conditions

AC Supply: 118 V, 60 Hz
 Power: 25.2 W
 Current: 0.213 A
 Power Factor: 0.91



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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

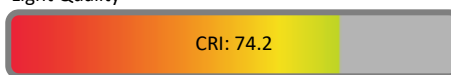
X: 0.331

Y: 0.335



Light Quality

CRI: 74.2



Color Temperature

5572 K



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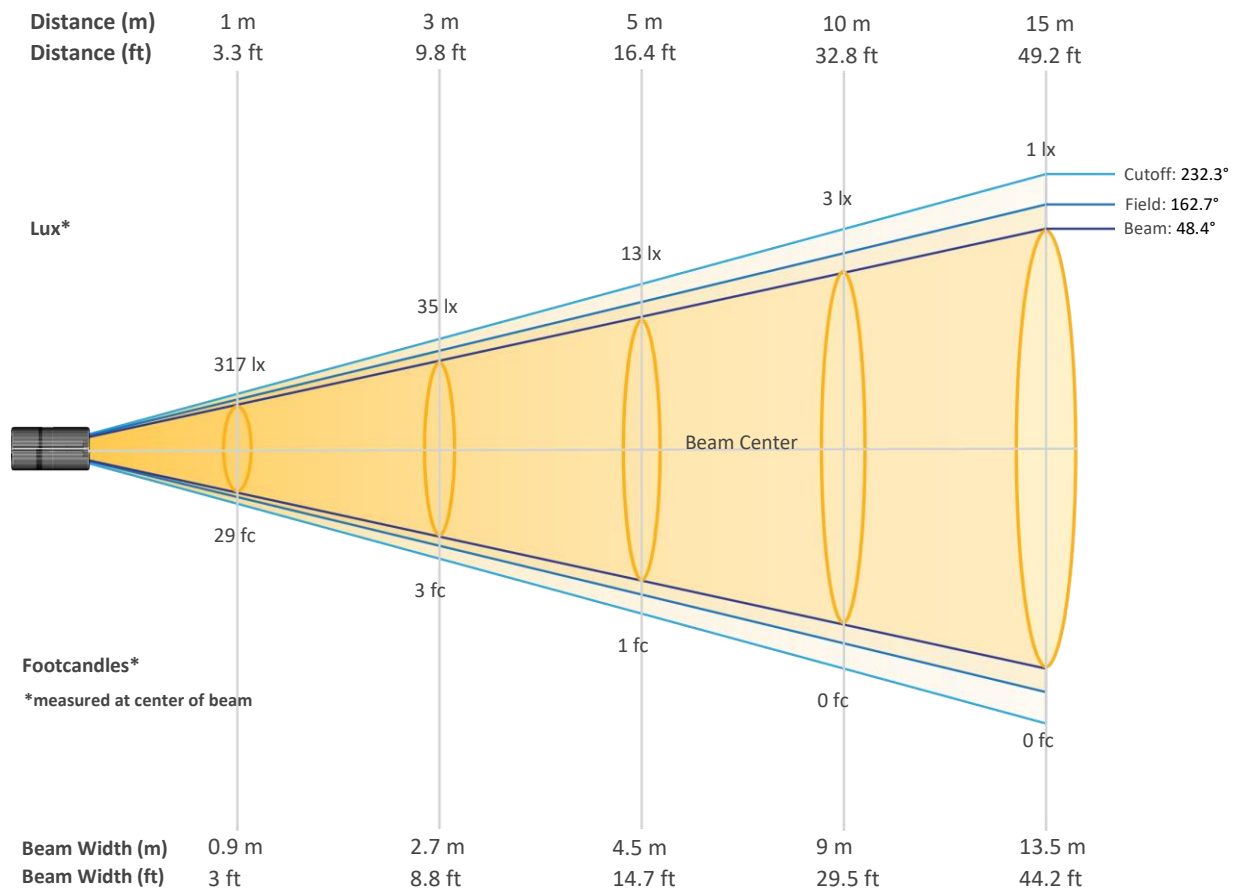
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Photometric & Chromaticity Report

Logic GZS: Very Wide Filter - 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	317	79	35	20	13	9	6	5	4	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	3	2	2	2	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	29	7	3	2	1	1	1	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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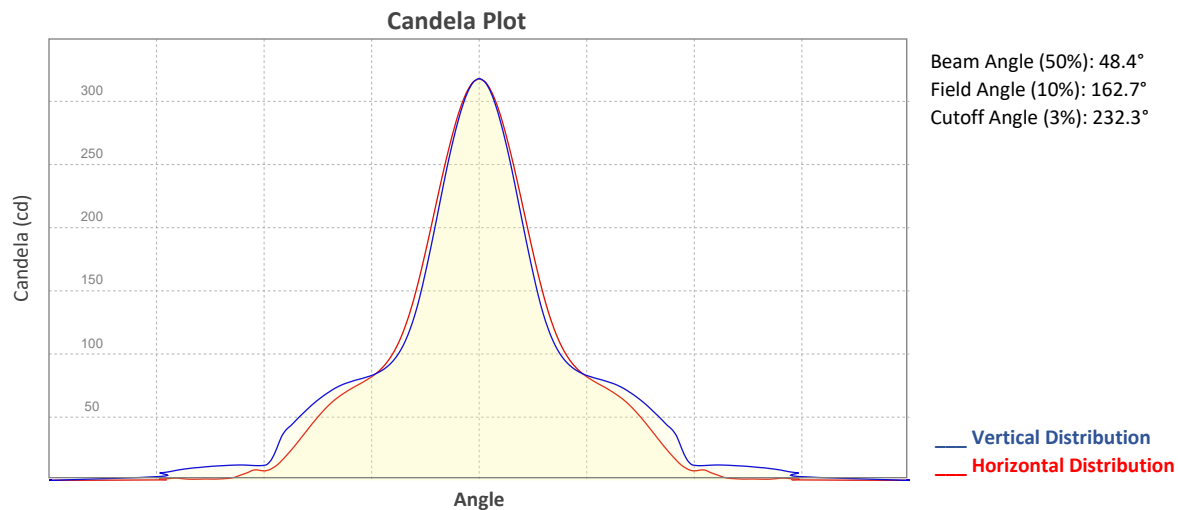
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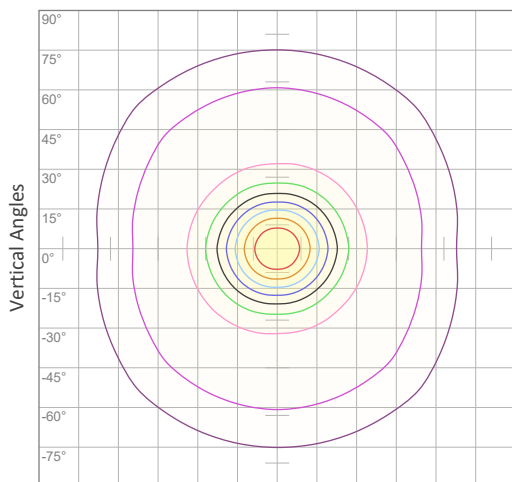
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Photometric & Chromaticity Report

Logic GZS: Very Wide Filter - RGBW - Full Power



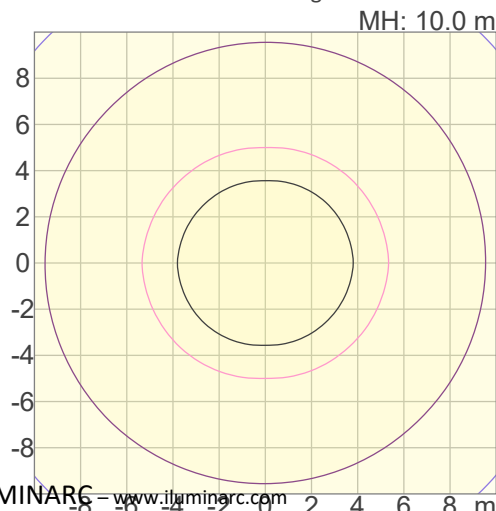
ISO Diagrams



ISO Candela Diagram

10%	32 cd
20%	63 cd
30%	95 cd
40%	127 cd
50%	159 cd
60%	190 cd
70%	222 cd
80%	254 cd
90%	286 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 317 cd



ISO Lux Diagram

3%	95.2m lx
5%	0.159 lx
10%	0.317 lx
30%	0.952 lx
50%	1.59 lx

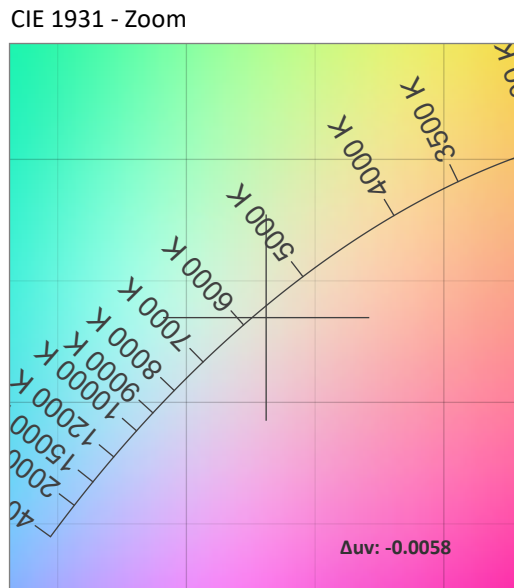
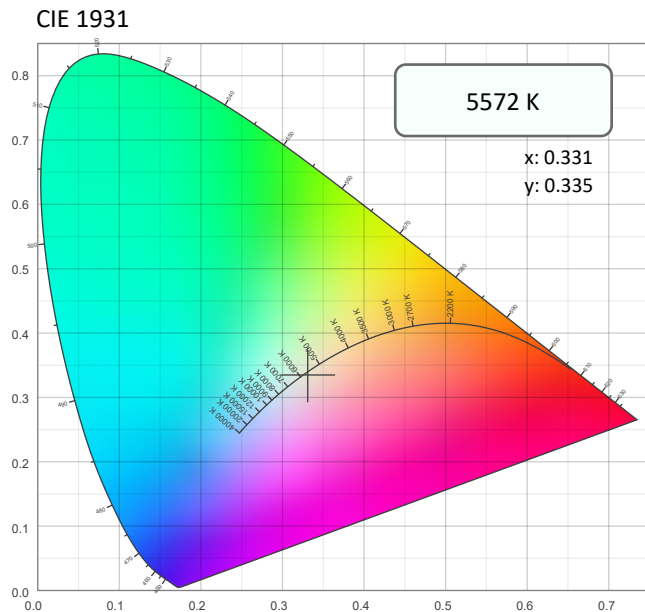
Conditions:
 Number of c-planes: 8
 Candela at center: 3.17 lx

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

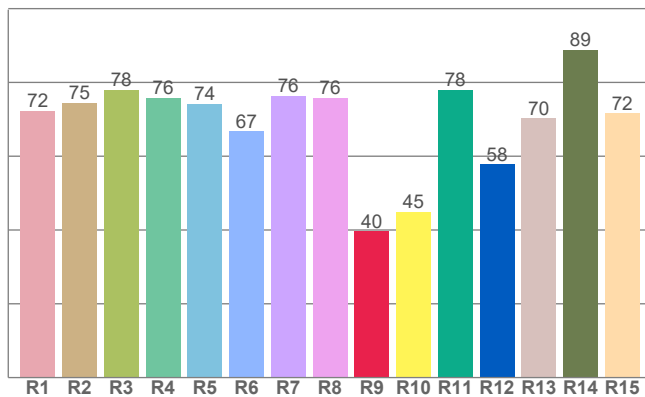
Photometric & Chromaticity Report

Logic GZS: Very Wide Filter - RGBW - Full Power

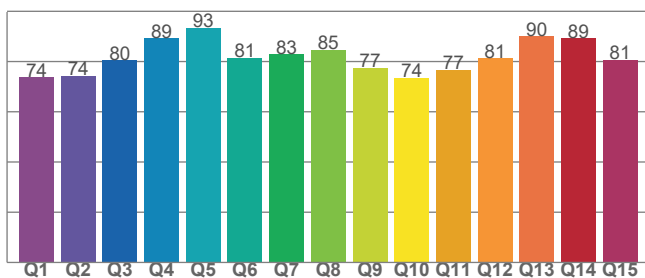
Chromaticity



CRI: 74.2 (R1-R8)



CQS: 80.9



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5572 K	0.331	0.335

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0058	0.335	0.208

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
74.2	39.6	80.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
77	74.5	92.8

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Photometric & Chromaticity Report

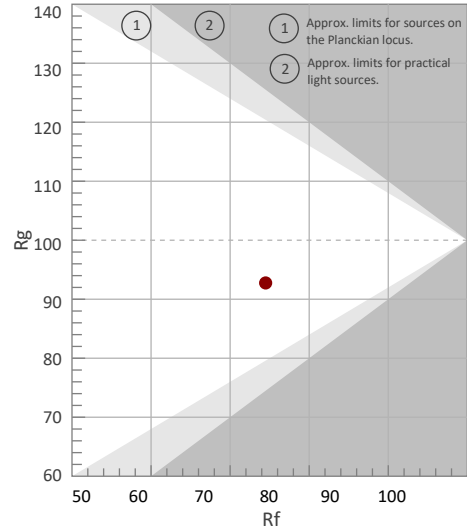
Logic GZS: Very Wide Filter - RGBW - Full Power

TM-30 Details

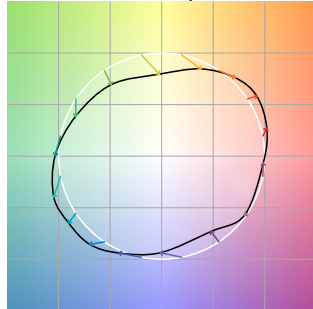
Rf 74.5
Fidelity Index (Rg)

Rg 92.8
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	80	5%	7%
2	84	9%	-3%
3	71	3%	-17%
4	64	-10%	-21%
5	64	-22%	-13%
6	77	-15%	2%
7	75	-9%	14%
8	68	1%	20%
9	77	10%	18%
10	81	11%	4%
11	74	10%	-10%
12	68	0%	-22%
13	75	-8%	-20%
14	78	-13%	-1%
15	81	-1%	-3%
16	79	-2%	13%



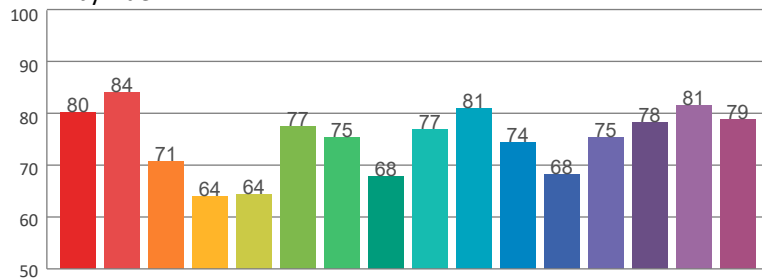
Color Vector Graphic



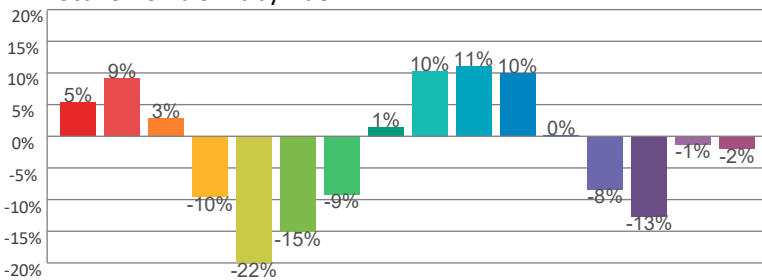
Color Distortion Graphic



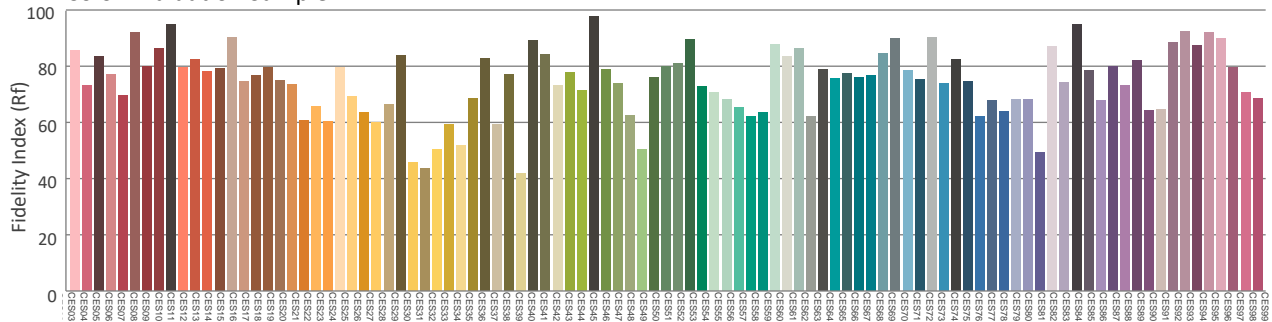
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: Very Wide Filter - Red Only

Report Summary

Measurements

Fixture Output: 116 lm

Fixture Peak: 69.5 cd

Fixture Efficacy: 7 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%): 47.1°

Field Angle (10%): 162.1°

Cutoff Angle (2%): 232.4°

Conditions

AC Supply: 120 V, 60 Hz

Power: 19.31 W

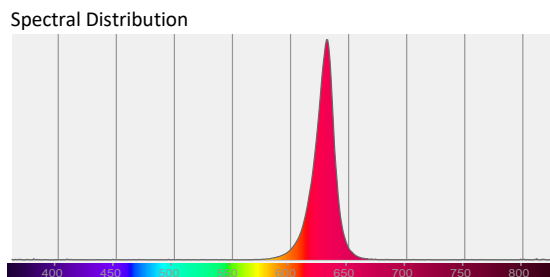
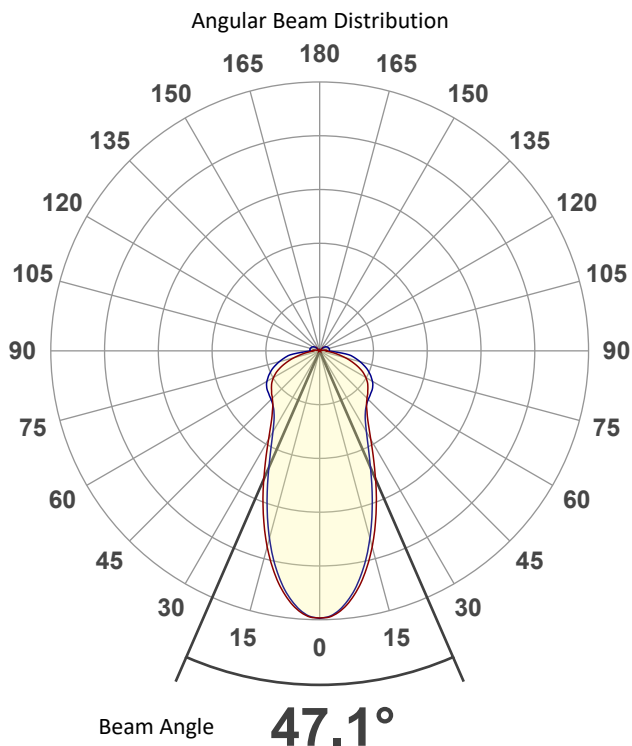
Current: 0.161 A

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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.693

Y: 0.306



Light Quality

CRI: 0.0

Color Temperature

0 K

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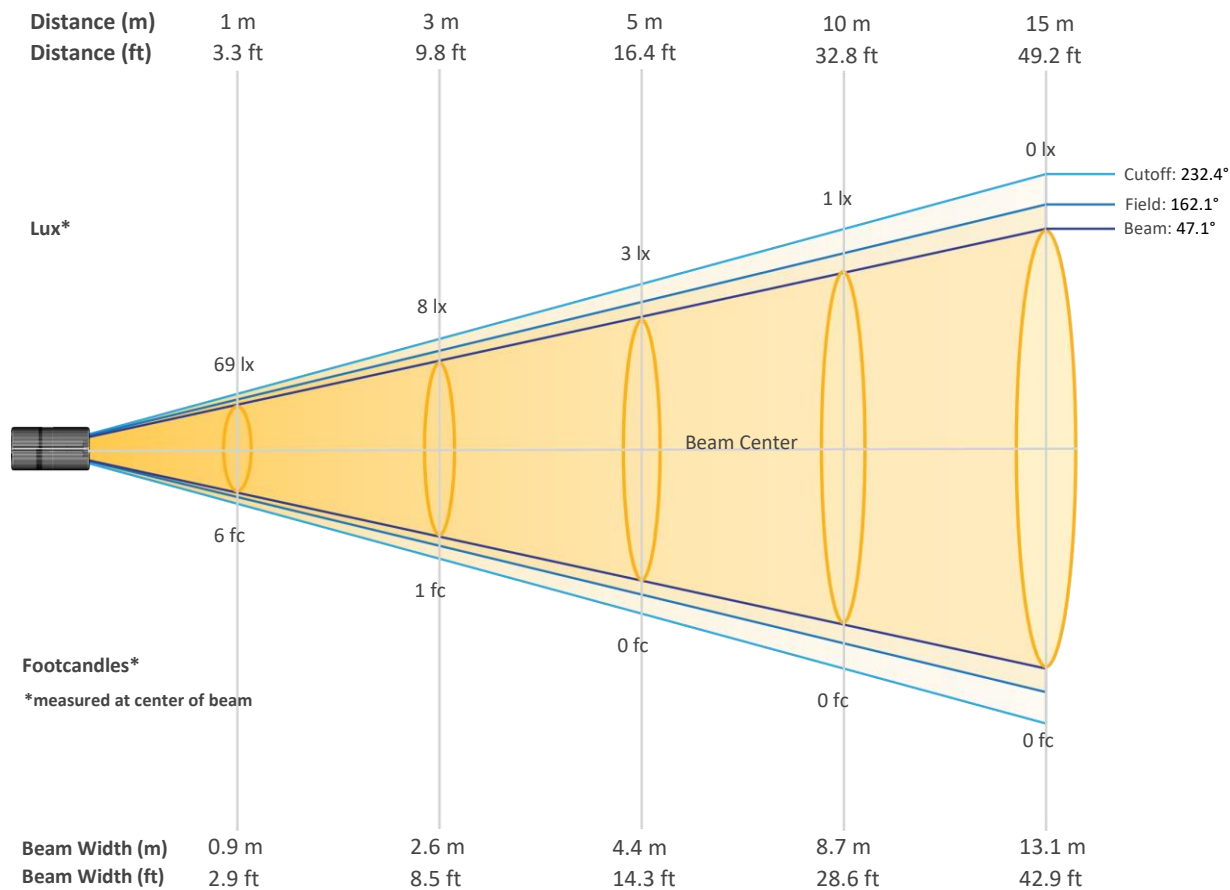
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Photometric & Chromaticity Report

Logic GZS: Very Wide Filter - 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	69	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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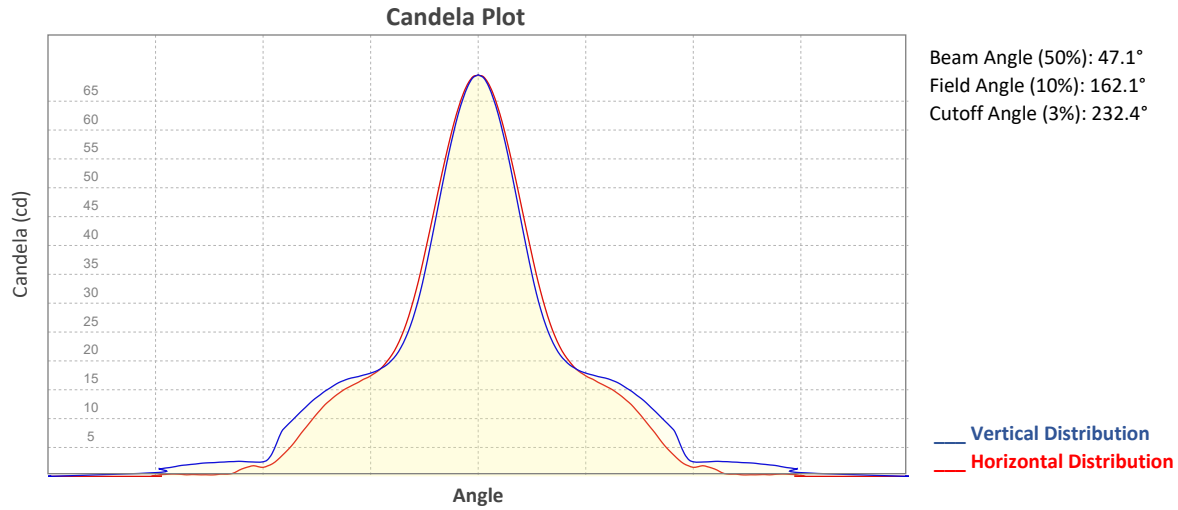
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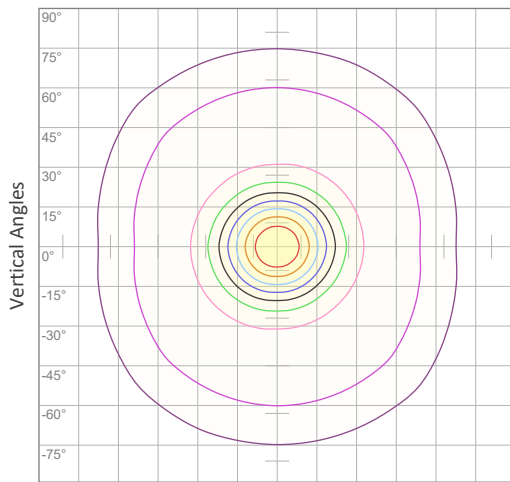
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Photometric & Chromaticity Report

Logic GZS: Very Wide Filter - Red Only



ISO Diagrams



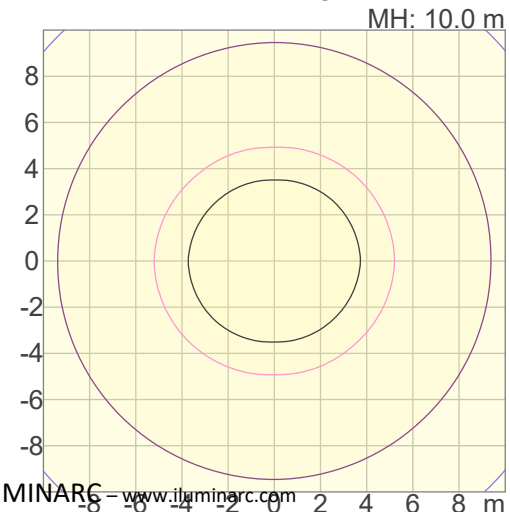
ISO Candela Diagram

10%	7 cd
20%	14 cd
30%	21 cd
40%	28 cd
50%	35 cd
60%	42 cd
70%	49 cd
80%	56 cd
90%	63 cd

Conditions:

Number of c-planes: 8

Candela at center: 69 cd



ISO Lux Diagram

3%	20.8m lx
5%	34.7m lx
10%	69.5m lx
30%	0.208 lx
50%	0.347 lx

Conditions:

Number of c-planes: 8

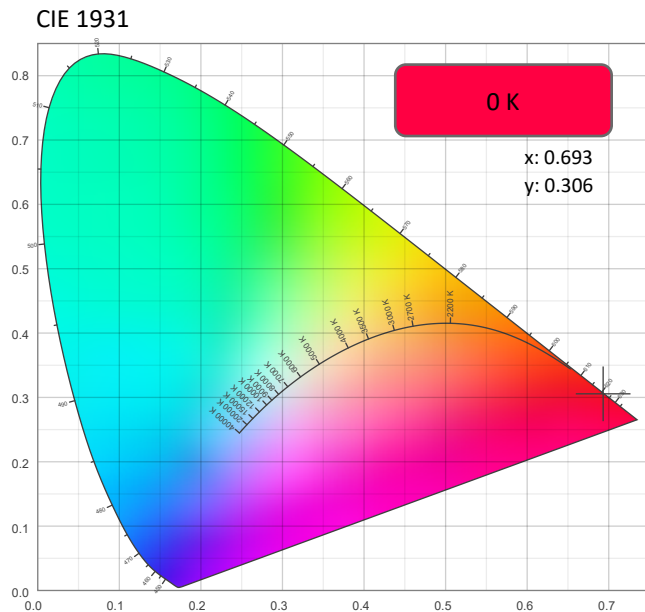
Candela at center: 0.695 lx

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

Photometric & Chromaticity Report

Logic GZS: Very Wide Filter - 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	0.693	0.306

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.306	0.525

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

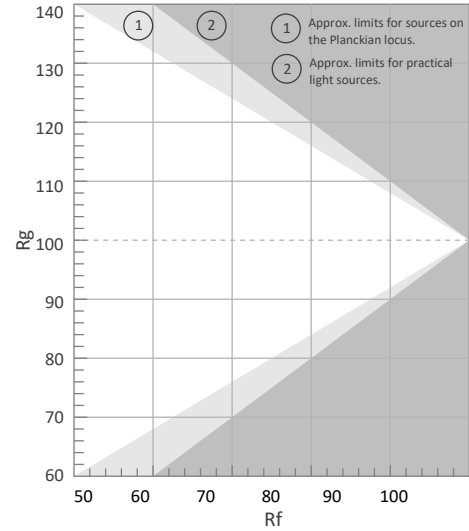
Logic GZS: Very Wide Filter - Red Only

TM-30 Details

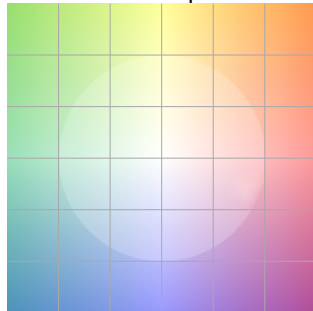
Rf 0.0
Fidelity Index
(Rg)

Rg 0.0
Gammut Index (Rg)

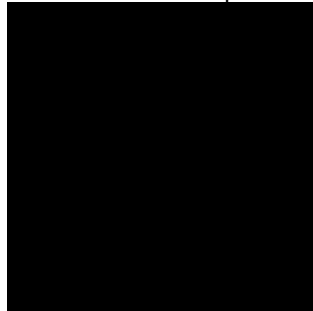
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
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13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



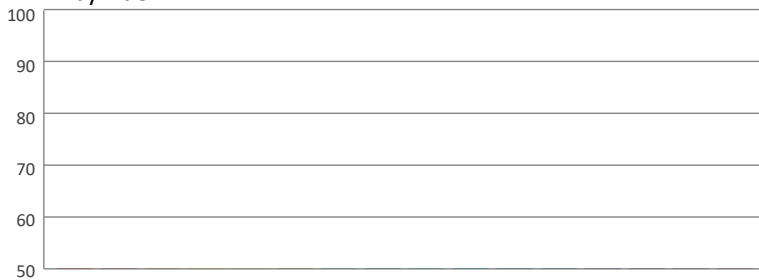
Color Vector Graphic



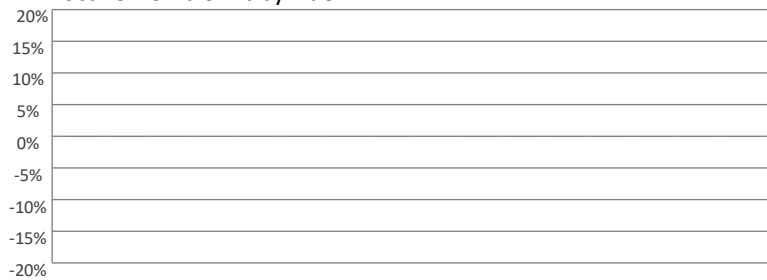
Color Distortion Graphic



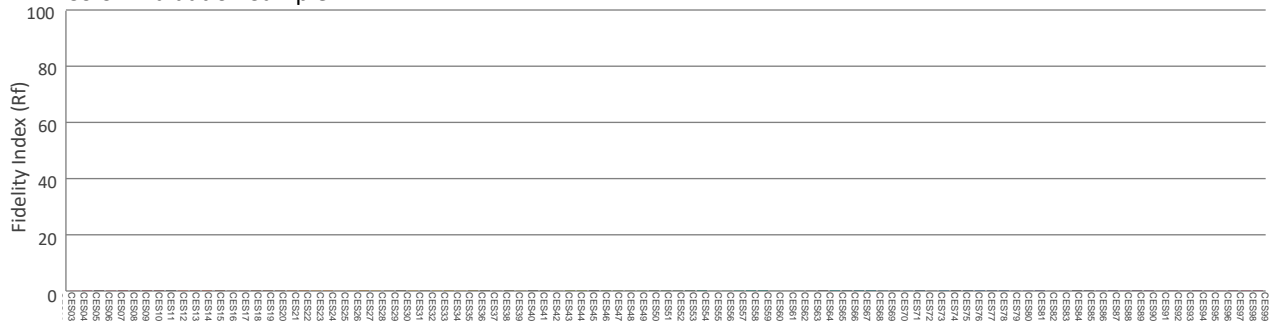
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZS: Very Wide Filter - Green Only

Report Summary

Measurements

Fixture Output: 235 lm

Fixture Peak: 139 cd

Fixture Efficacy: 14 lm/W

Intensity @ 5m: 6 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%): 47.8°

Field Angle (10%): 162.4°

Cutoff Angle (2%): 232.6°

Conditions

AC Supply: 120 V, 60 Hz

Power: 19.55 W

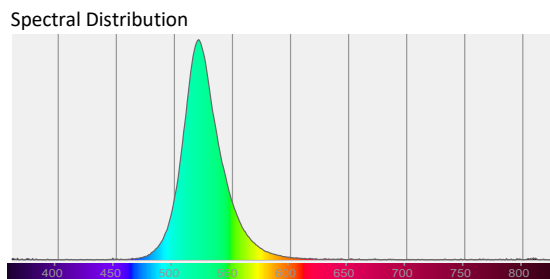
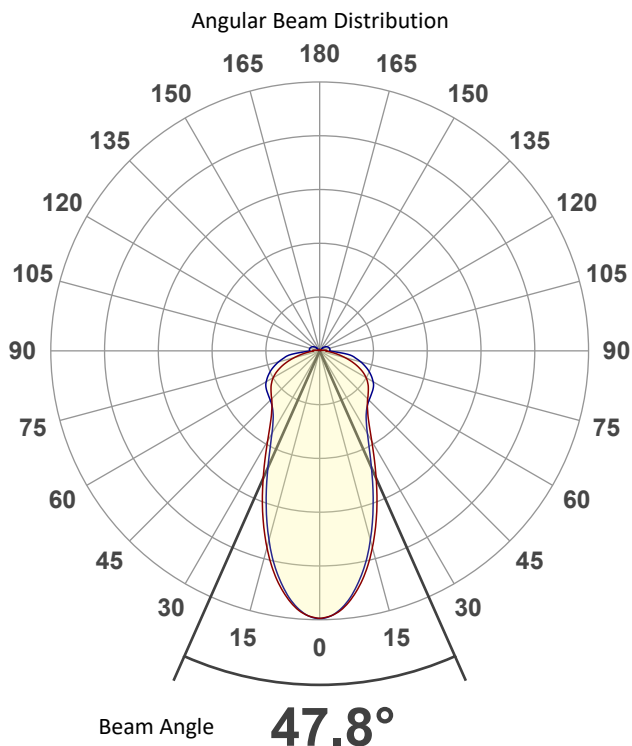
Current: 0.163 A

Power Factor: 0.86



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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.174

Y: 0.725



Light Quality

CRI: 0.0

Color Temperature

0 K

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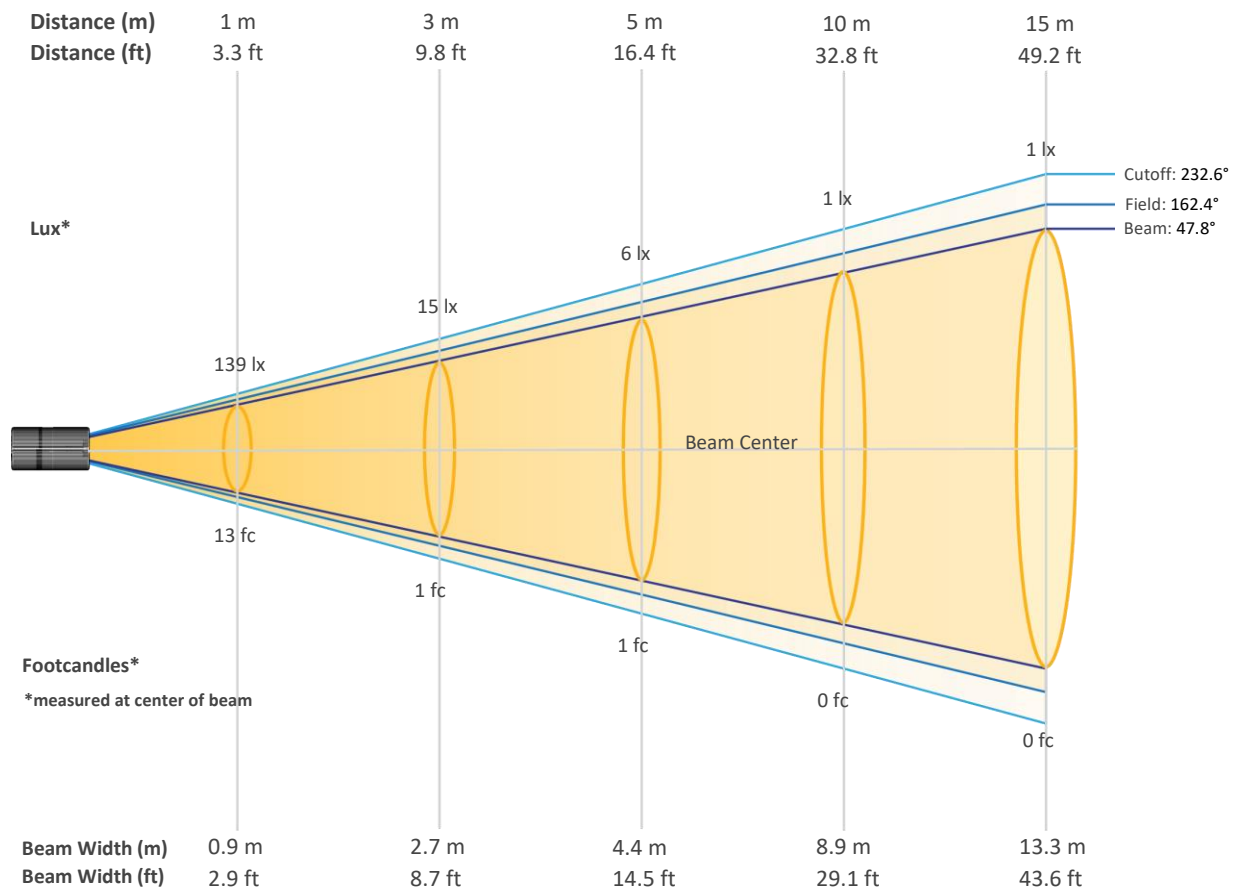
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Photometric & Chromaticity Report

Logic GZS: Very Wide Filter - 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	139	35	15	9	6	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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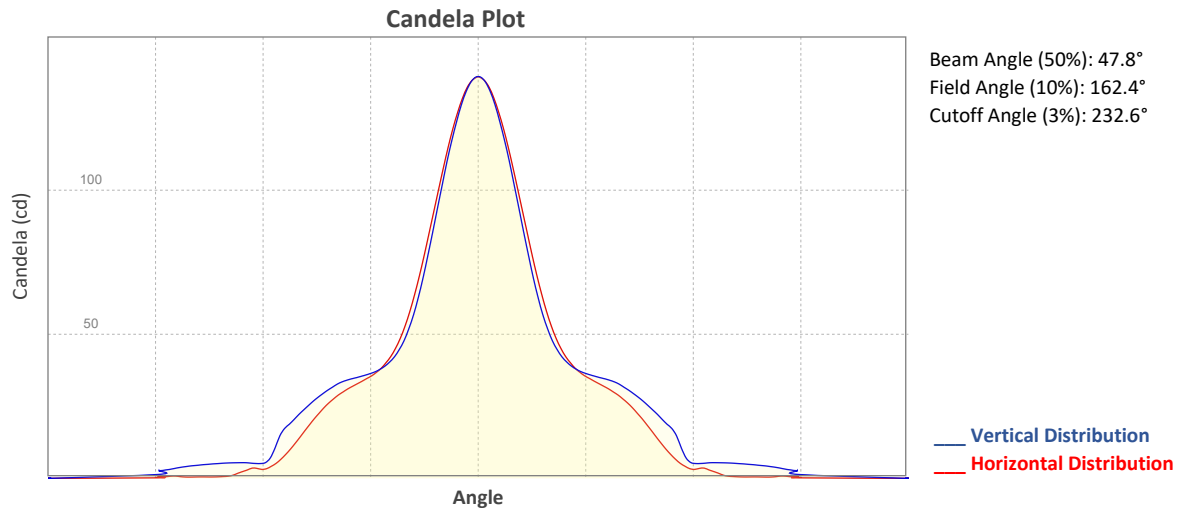
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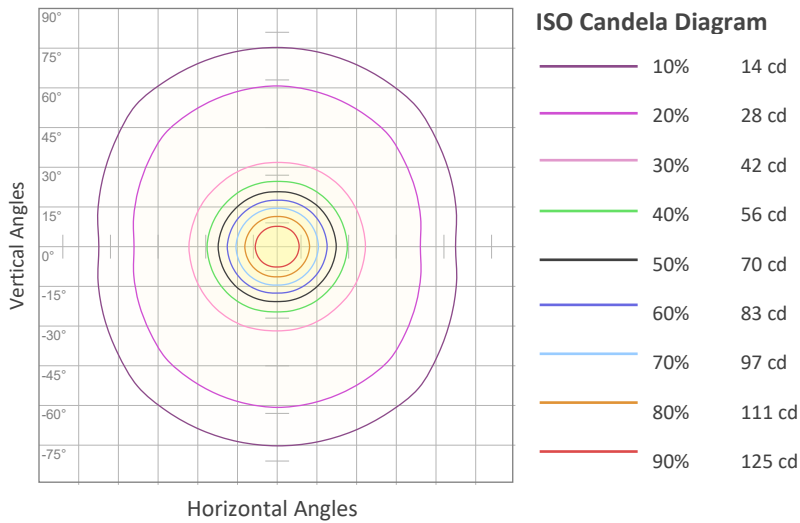
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Photometric & Chromaticity Report

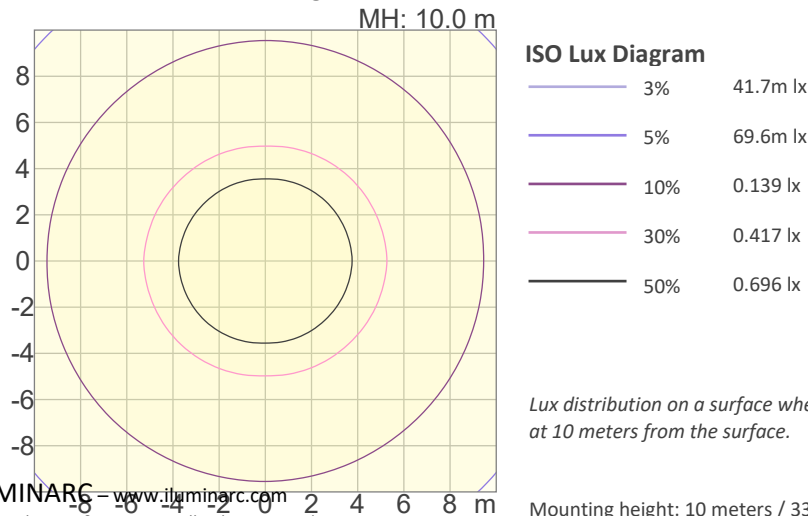
Logic GZS: Very Wide Filter - Green Only



ISO Diagrams



Conditions:
 Number of c-planes: 8
 Candela at center: 139 cd



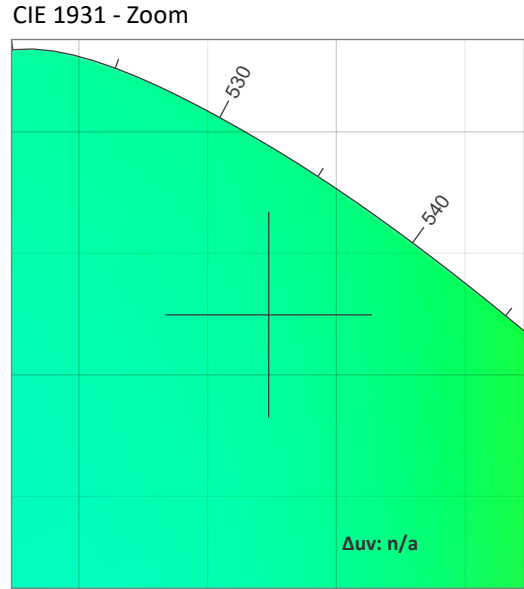
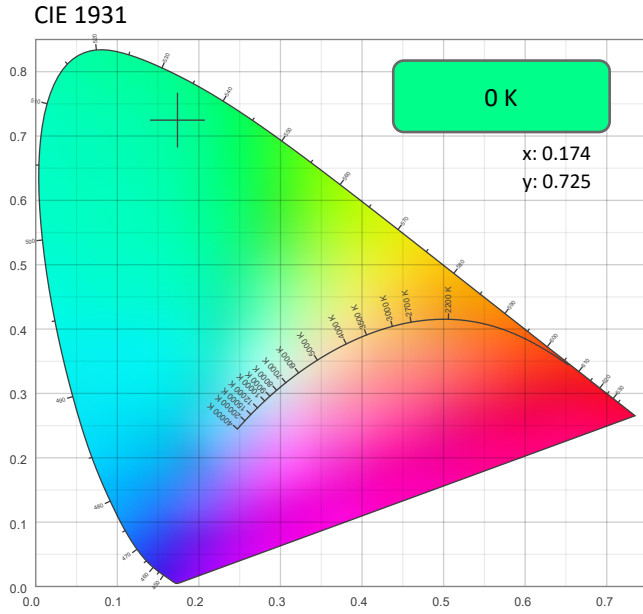
Conditions:
 Number of c-planes: 8
 Candela at center: 1.39 lx

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

Photometric & Chromaticity Report

Logic GZS: Very Wide Filter - 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	0.174	0.725

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.725	0.061

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

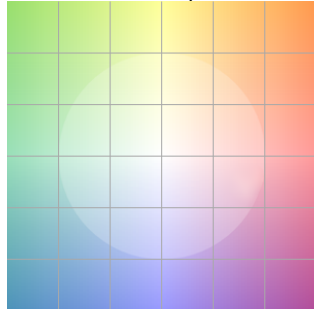
Logic GZS: Very Wide Filter - Green Only

TM-30 Details

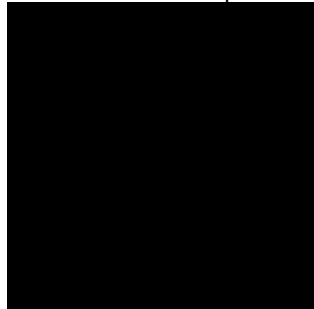
Rf 0.0
Fidelity Index (Rg)

Rg 0.0
Gammut Index (Rg)

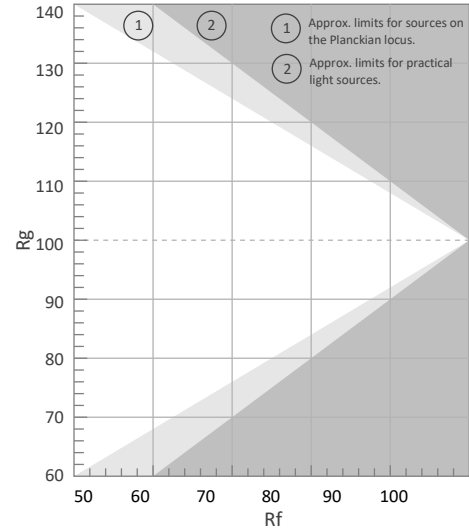
Color Vector Graphic



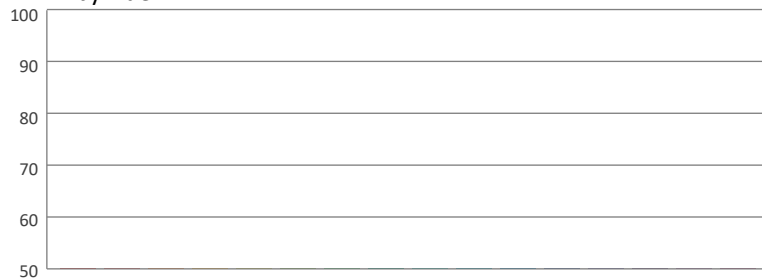
Color Distortion Graphic



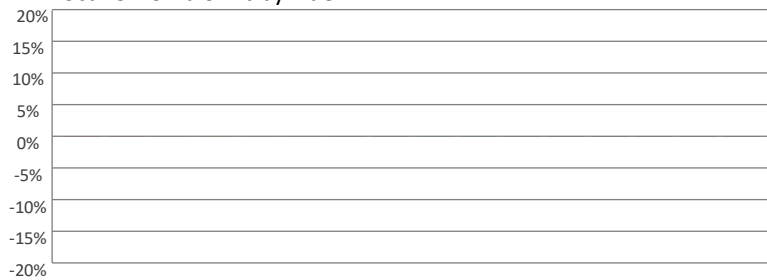
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
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14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



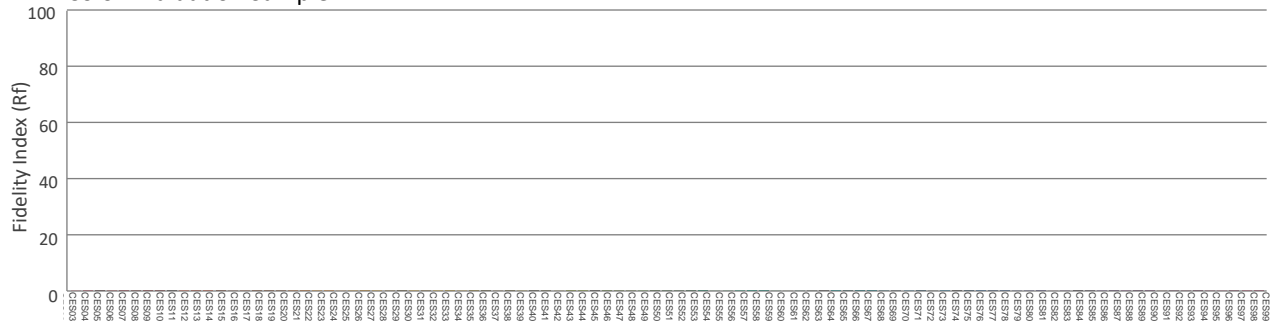
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZS: Very Wide Filter - Blue Only

Report Summary

Measurements

Fixture Output: 89.1 lm

Fixture Peak: 51.2 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%): 49.3°

Field Angle (10%): 163.3°

Cutoff Angle (2%): 227°

Conditions

AC Supply: 120 V, 60 Hz

Power: 19.87 W

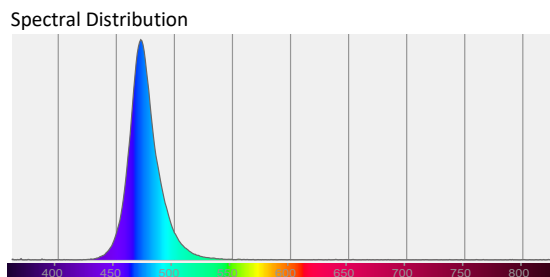
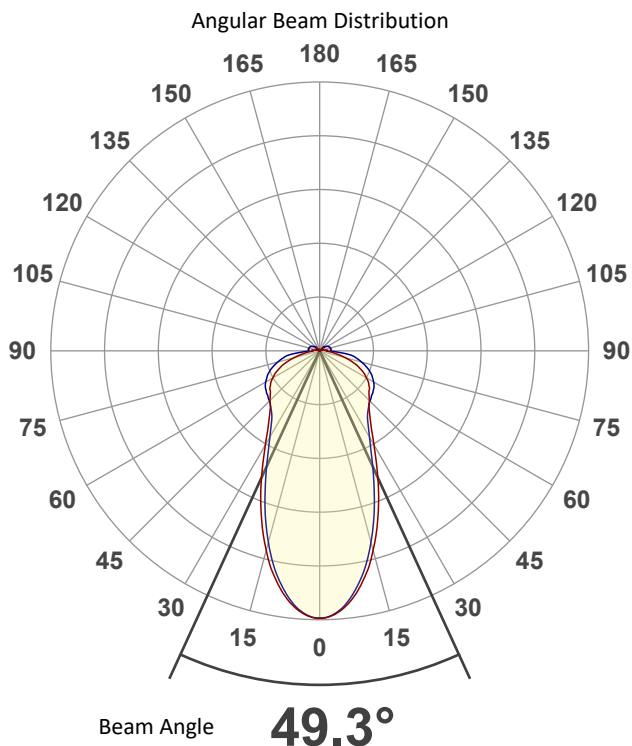
Current: 0.166 A

Power Factor: 0.86



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 5/16/2022 to LM-63-2002 Standards.

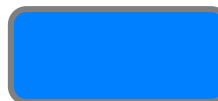
Overall Measurement



Tested Color (CIE 1931):

X: 0.119

Y: 0.097

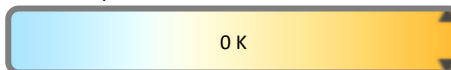


Light Quality

CRI: 0.0

Color Temperature

0 K



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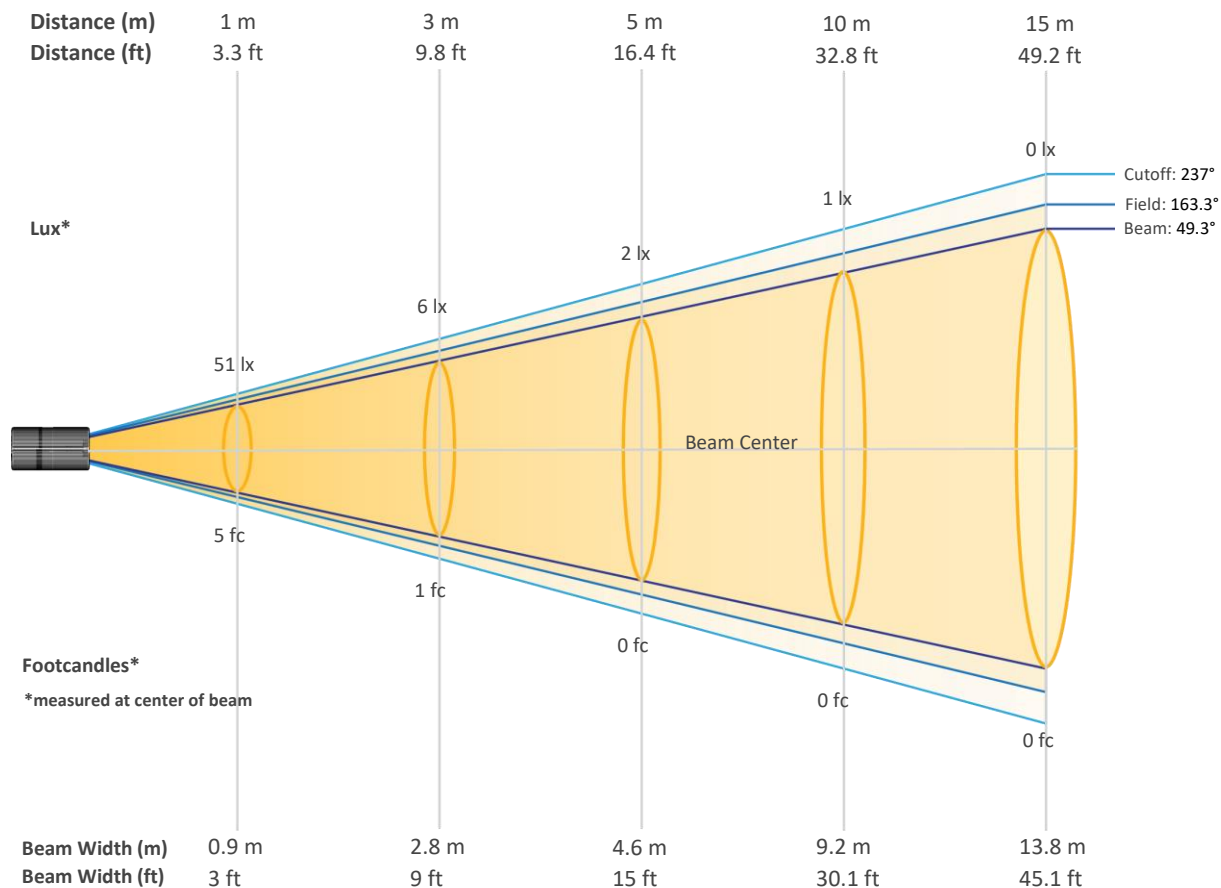
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Photometric & Chromaticity Report

Logic GZS: Very Wide Filter - 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	51	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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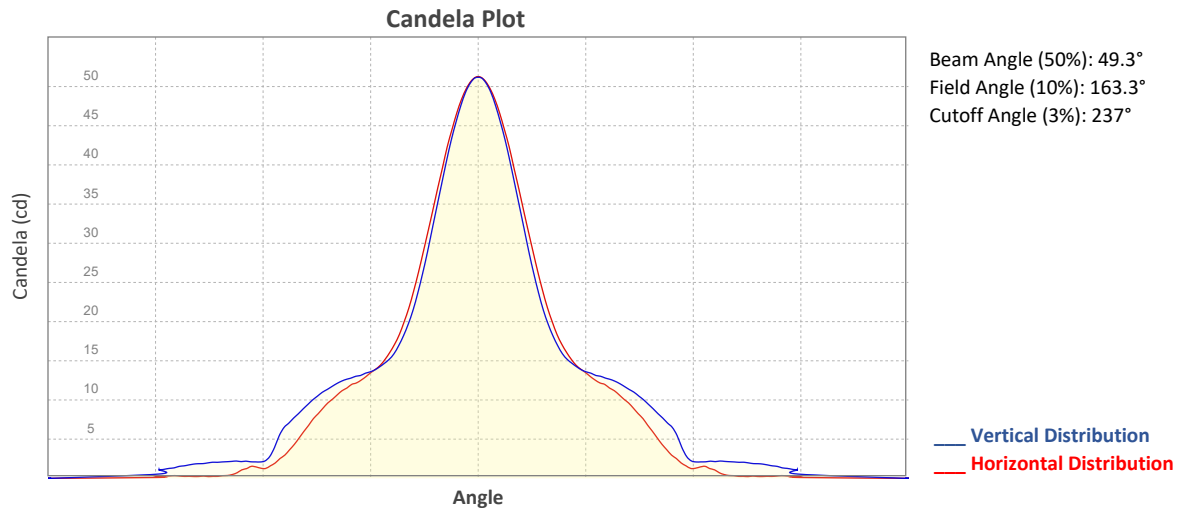
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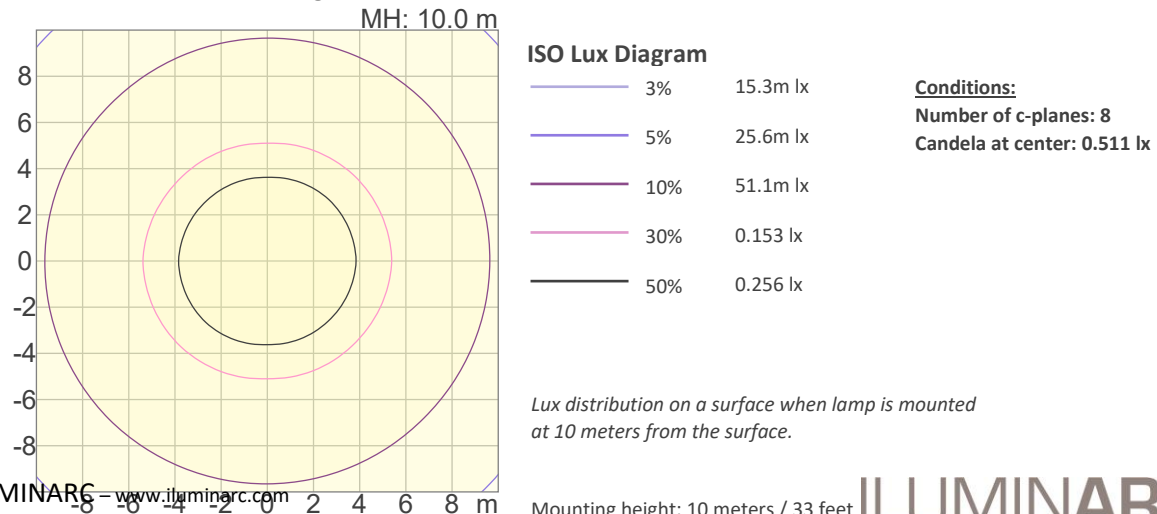
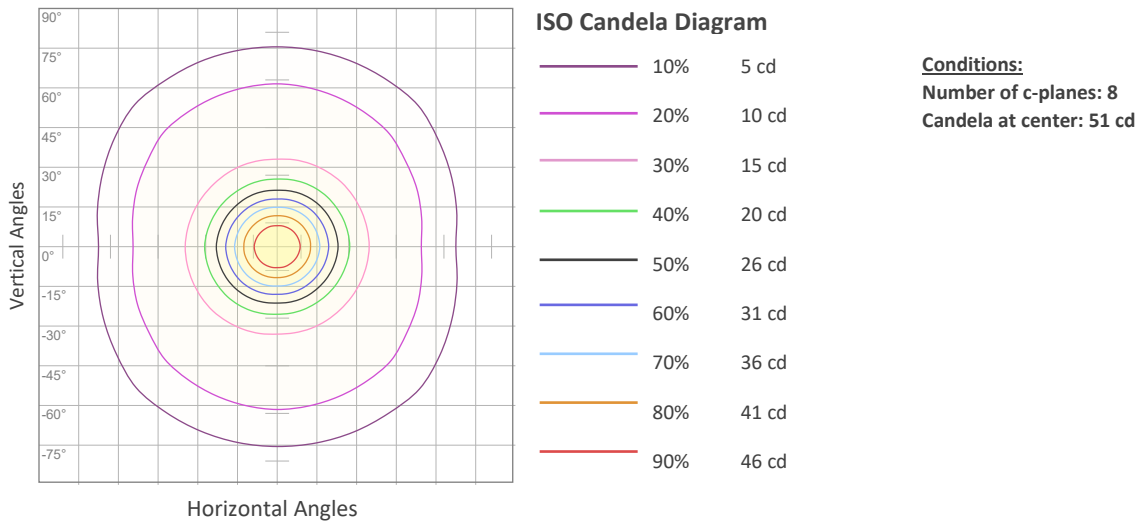
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Photometric & Chromaticity Report

Logic GZS: Very Wide Filter - Blue Only



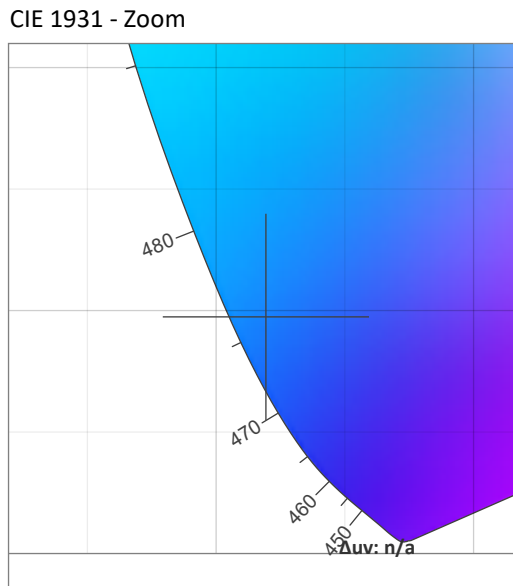
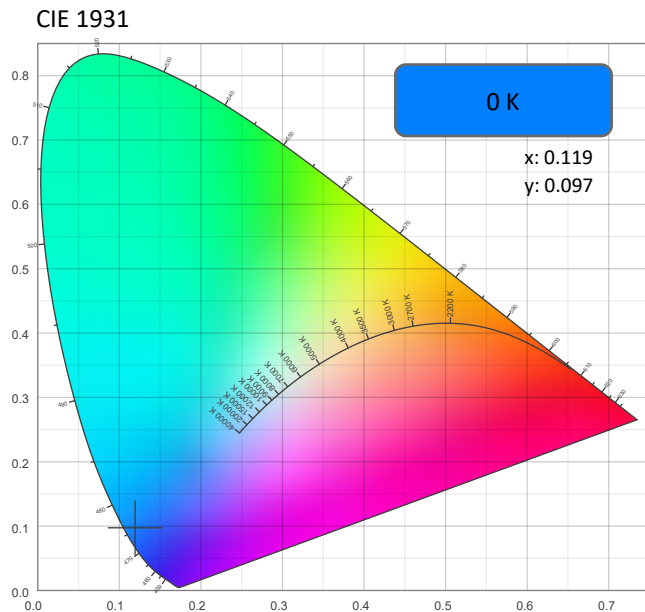
ISO Diagrams



Photometric & Chromaticity Report

Logic GZS: Very Wide Filter - 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	0.119	0.097

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.097	0.121

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

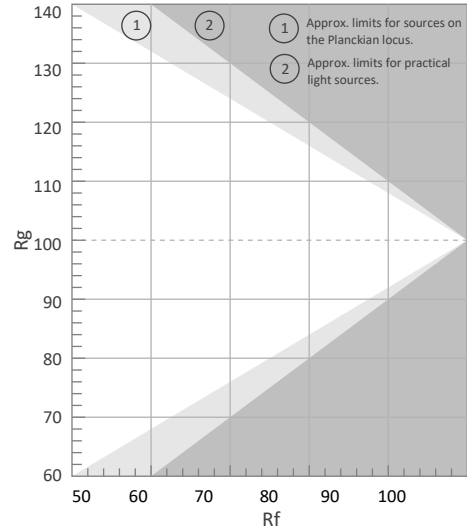
Logic GZS: Very Wide Filter - Blue Only

TM-30 Details

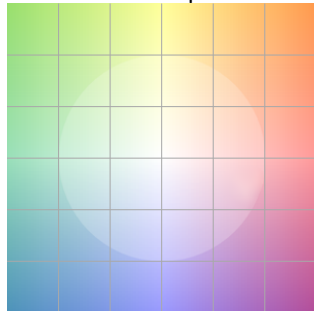
Rf 0.0
Fidelity Index (Rg)

Rg 0.0
Gammut Index (Rg)

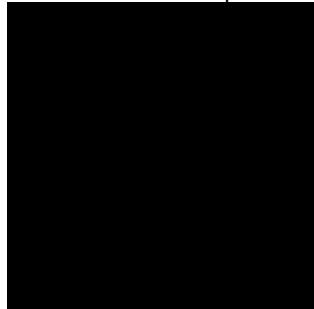
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



Color Distortion Graphic



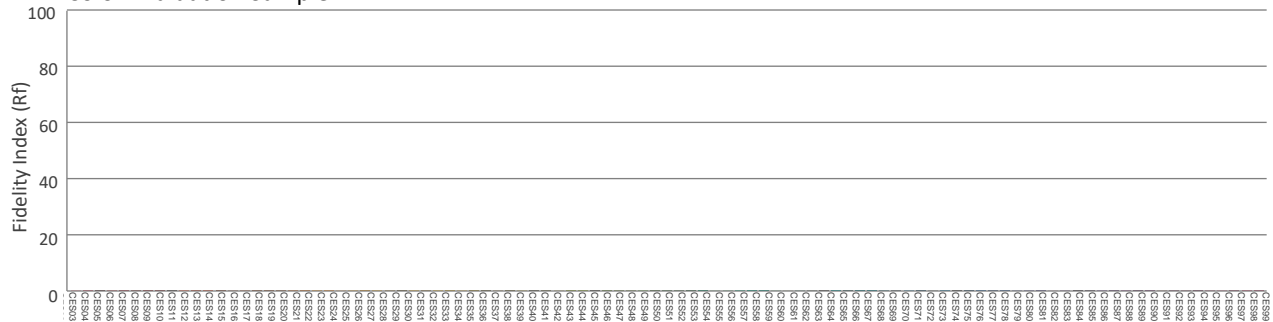
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZS: Very Wide Filter - Warm White Only

Report Summary

Measurements

Fixture Output: 367 lm
Fixture Peak: 216 cd
Fixture Efficacy: 22 lm/W
Intensity @ 5m: 9 lux
Color Temperature: 3030 K
CRI: 84.7 CRI R9 Value: 15.7
CQS: 83.8
TLCI: 73
TM-30 Rf: 85.8
TM-30 Rg: 95.0
Beam Angle (50%): 48.4°
Field Angle (10%): 162.8°
Cutoff Angle (2%): 222°

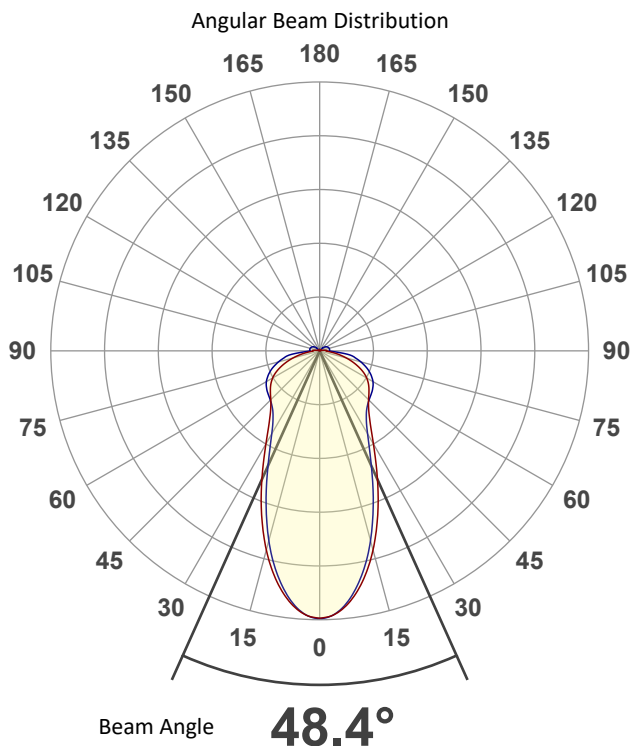
Conditions

AC Supply: 120 V, 60 Hz
Power: 19.81 W
Current: 0.165 A
Power Factor: 0.86



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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):
X: 0.433
Y: 0.399



Light Quality
CRI: 84.7

Color Temperature
3030 K

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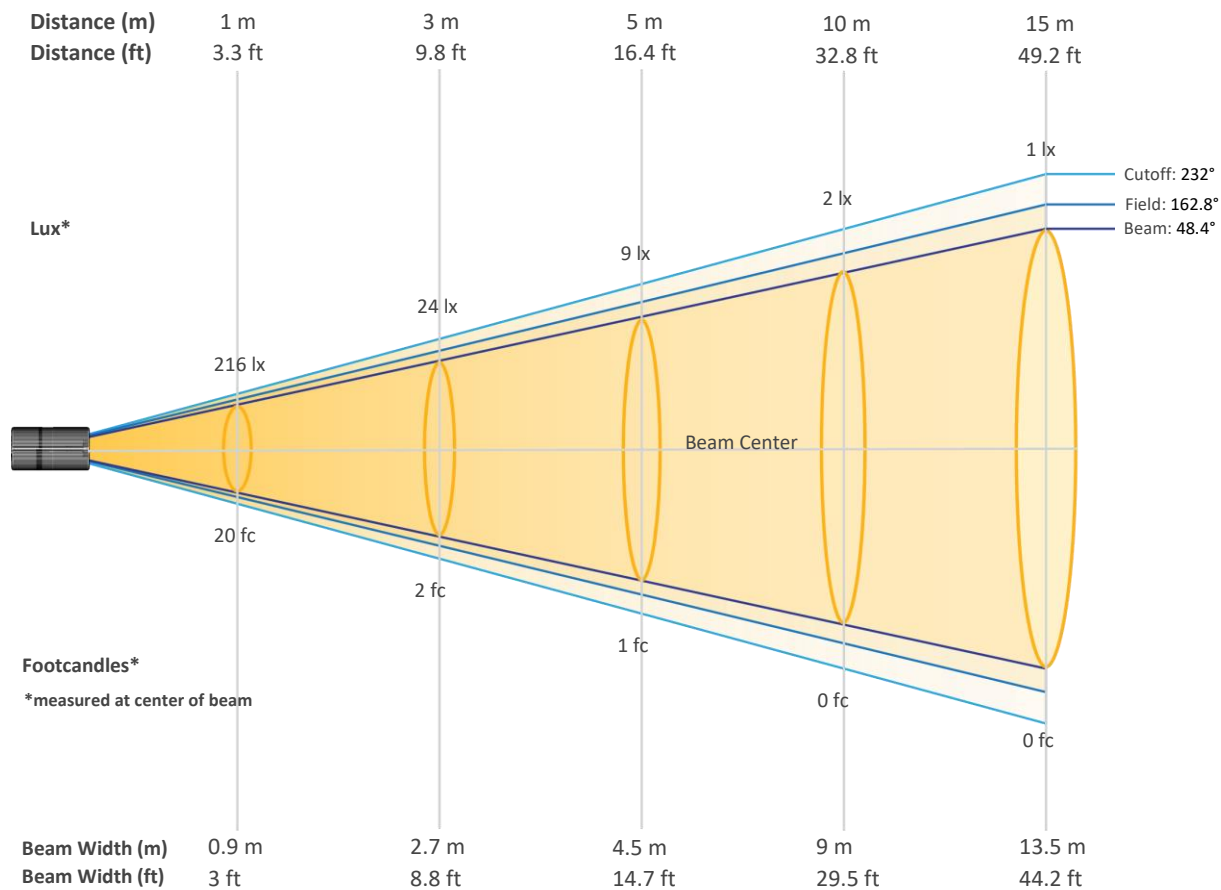
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Photometric & Chromaticity Report

Logic GZS: Very Wide Filter - 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	216	54	24	14	9	6	4	3	3	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	2	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	20	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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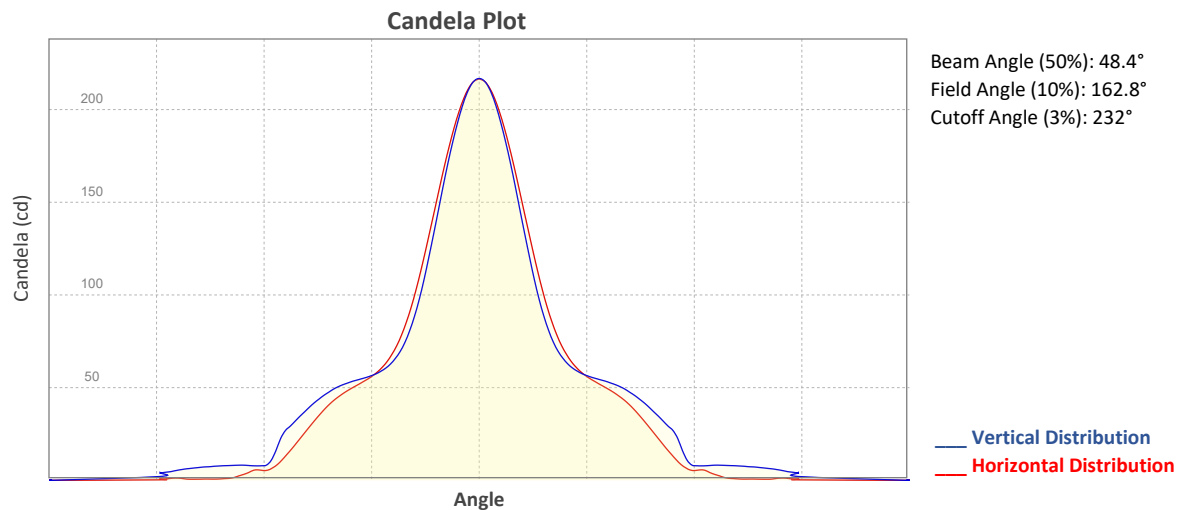
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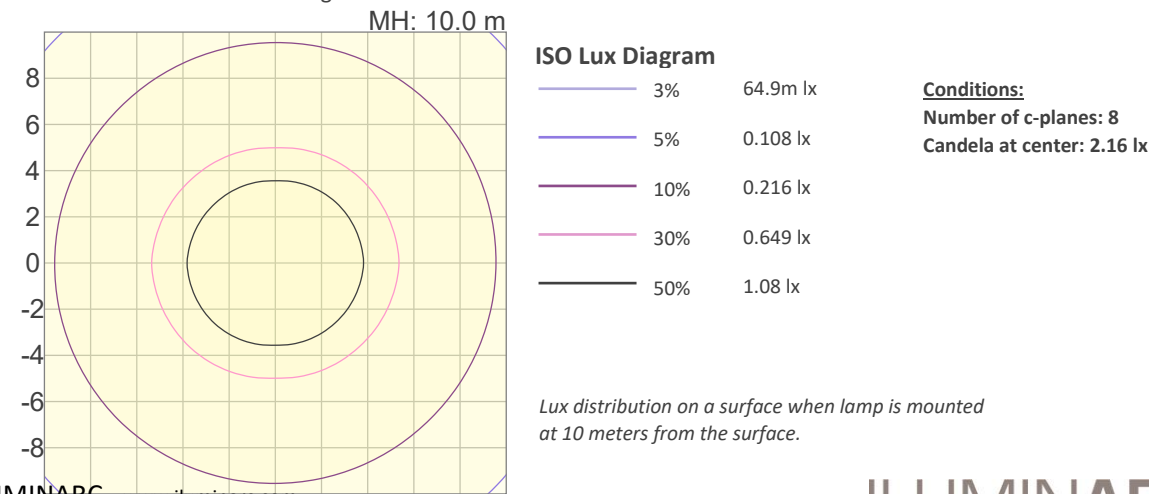
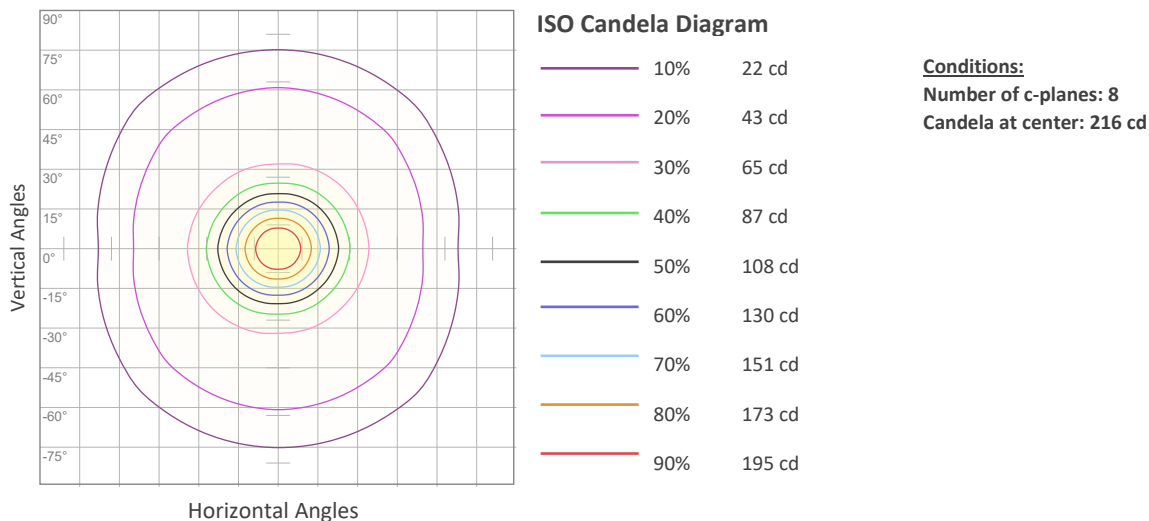
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Photometric & Chromaticity Report

Logic GZS: Very Wide Filter - Warm White Only



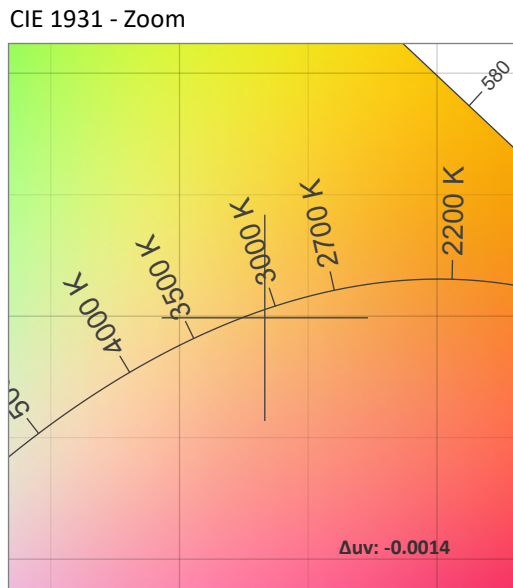
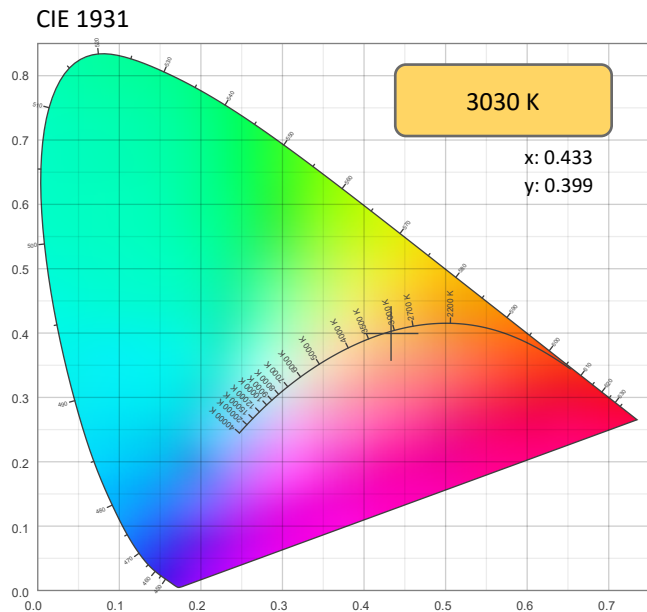
ISO Diagrams



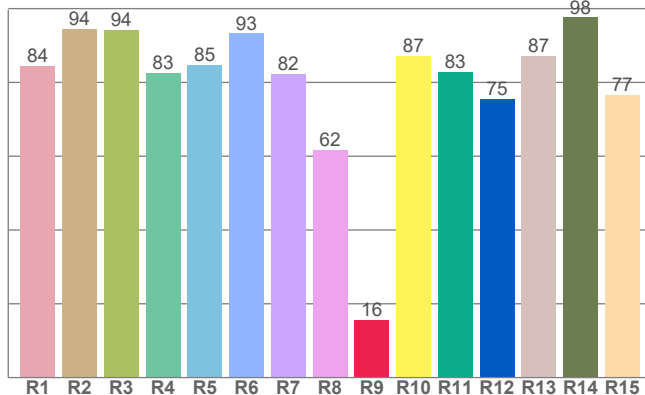
Photometric & Chromaticity Report

Logic GZS: Very Wide Filter - Warm White Only

Chromaticity



CRI: 84.7 (R1-R8)

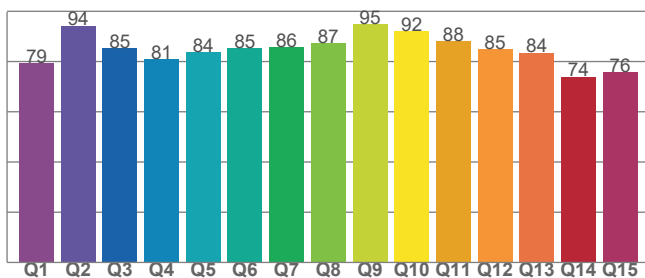


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3030 K	0.433	0.399

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0014	0.399	0.250

CQS: 83.8



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
84.7	15.7	83.8

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
73	85.8	95.0

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Photometric & Chromaticity Report

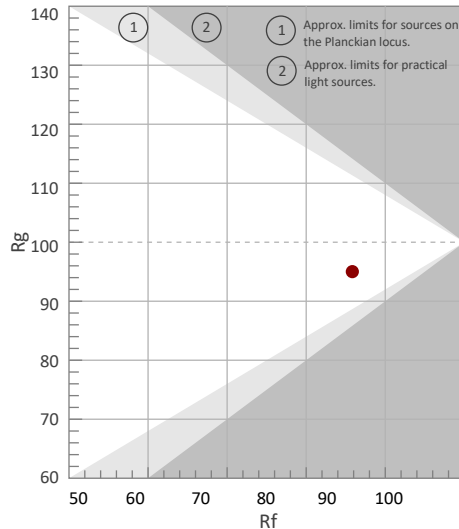
Logic GZS: Very Wide Filter - Warm White Only

TM-30 Details

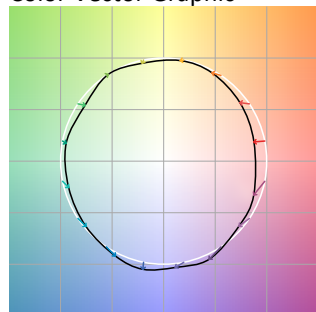
Rf 85.8
Fidelity Index (Rg)

Rg 95.0
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	81	-10%	1%
2	83	-7%	6%
3	83	-3%	9%
4	92	-1%	3%
5	92	-3%	2%
6	94	0%	-2%
7	88	-7%	-3%
8	93	-4%	1%
9	88	-5%	7%
10	81	-2%	11%
11	83	2%	12%
12	87	7%	1%
13	87	3%	-9%
14	80	4%	-16%
15	80	-4%	-12%
16	78	-8%	-15%



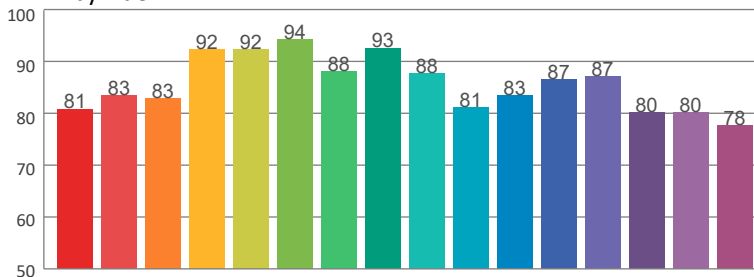
Color Vector Graphic



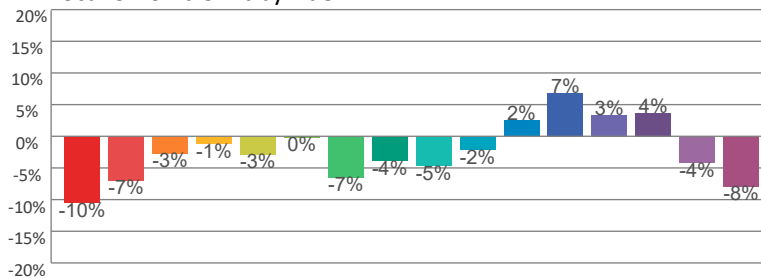
Color Distortion Graphic



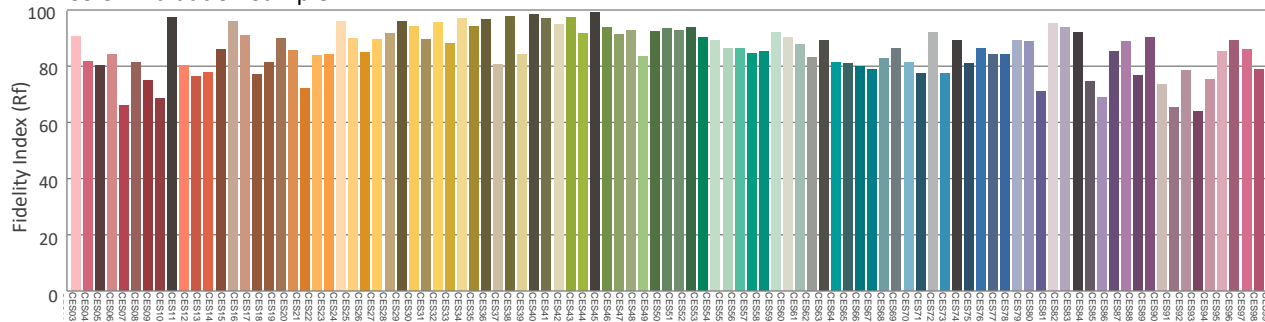
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZS: 40x1 Filter - RGBW - Full Power

Report Summary

Measurements

Fixture Output: 634 lm
Fixture Peak: 985 cd
Fixture Efficacy: 28 lm/W
Intensity @ 5m: 39 lux
Color Temperature: 5605 K
CRI: 75.1 CRI R9 Value: 43.6
CQS: 80.9
TLCI: 77
TM-30 Rf: 74.7
TM-30 Rg: 92.3
Beam Angle (50%): 36.2°
Field Angle (10%): 75.5°
Cutoff Angle (2%): 125.2°

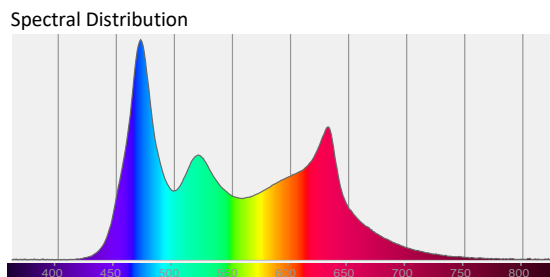
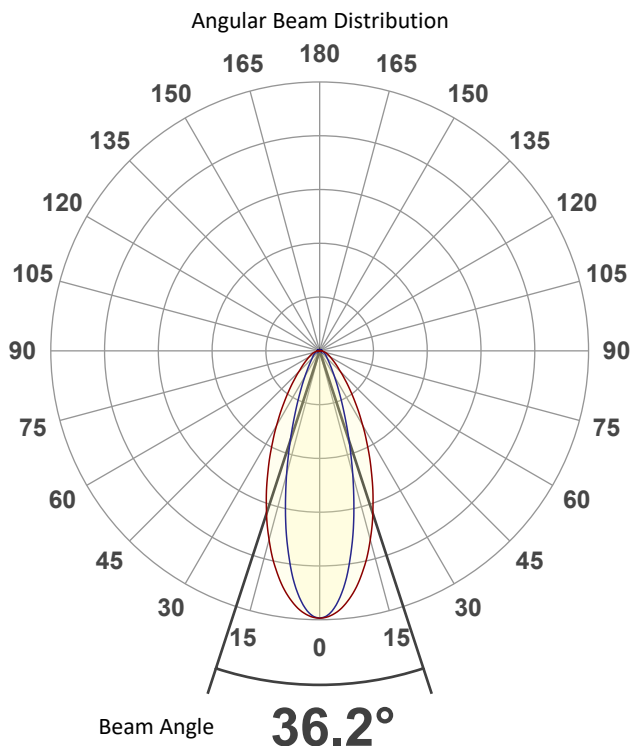
Conditions

AC Supply: 119 V, 60 Hz
Power: 25.36 W
Current: 0.213 A
Power Factor: 0.91



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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.330

Y: 0.337



Light Quality

CRI: 75.1

Color Temperature

5605 K

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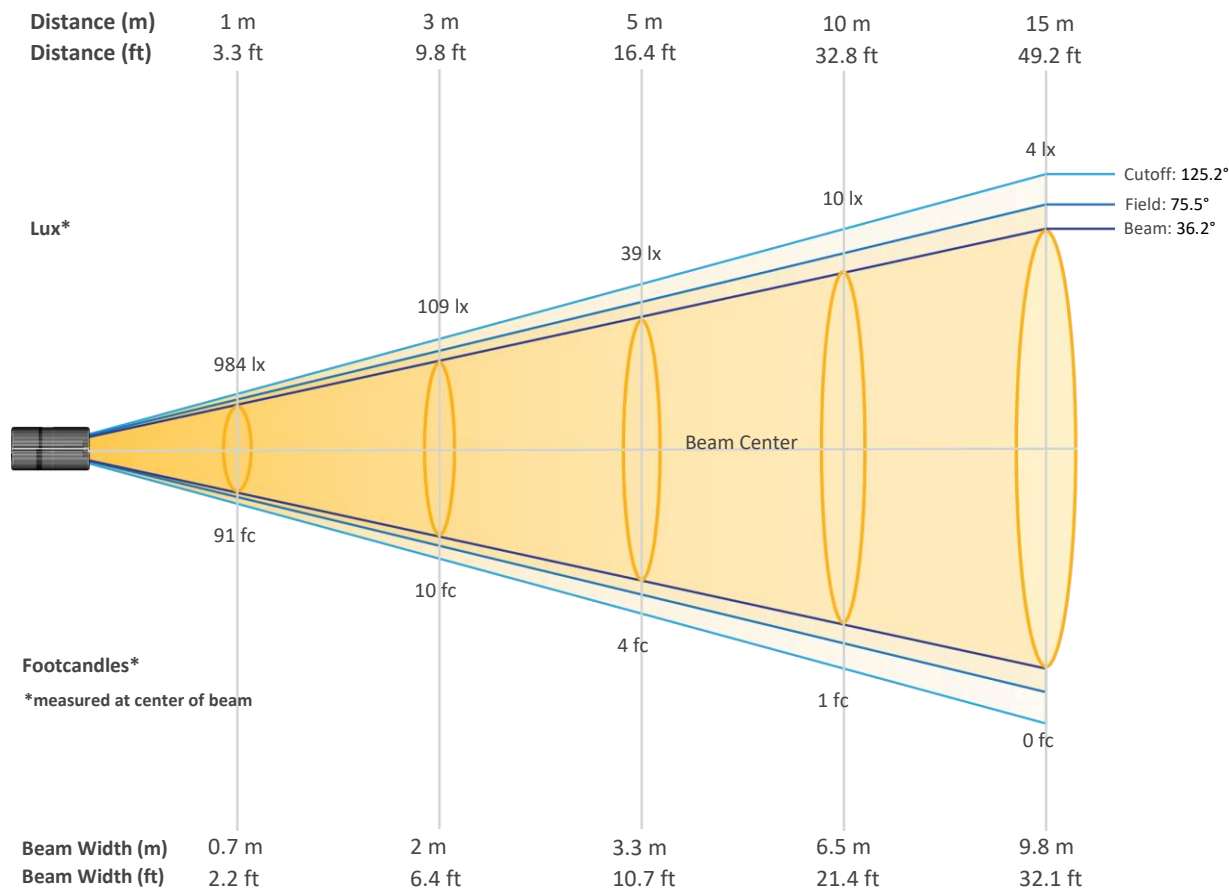
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Photometric & Chromaticity Report

Logic GZS: 40x1 Filter - 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	984	246	109	62	39	27	20	15	12	10
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	8	7	6	5	4	4	3	3	3	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	91	23	10	6	4	3	2	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	1	1	0	0	0	0	0	0	0

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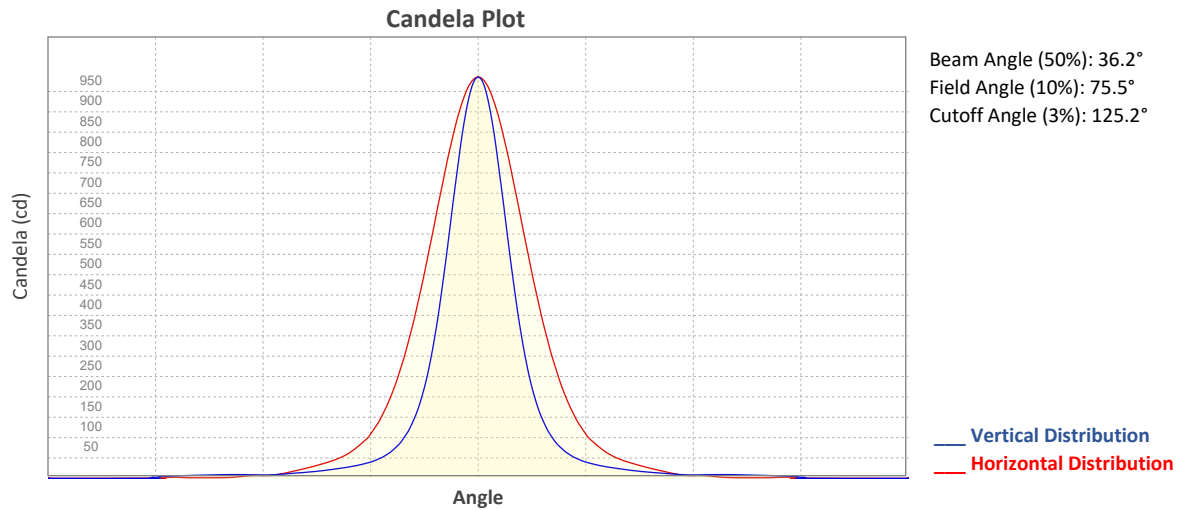
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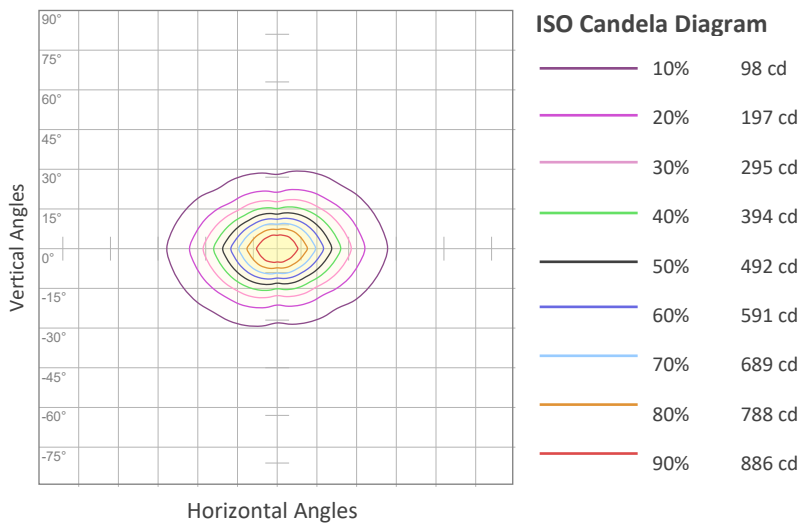
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Photometric & Chromaticity Report

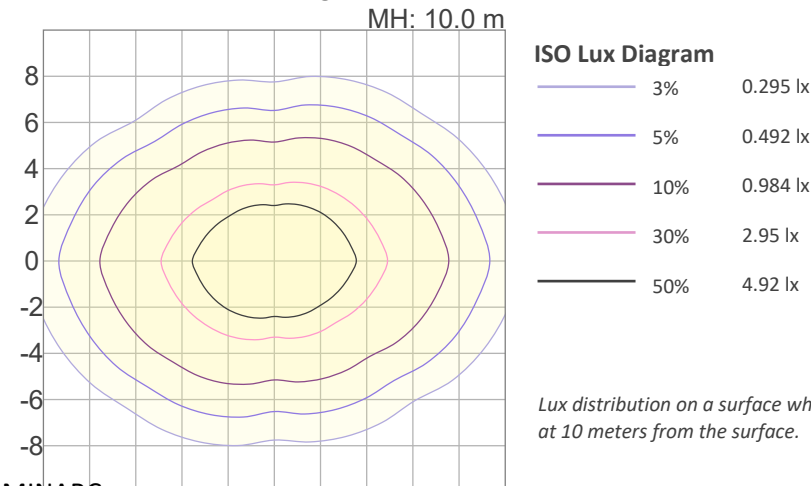
Logic GZS: 40x1 Filter - RGBW - Full Power



ISO Diagrams



Conditions:
 Number of c-planes: 8
 Candela at center: 984 cd



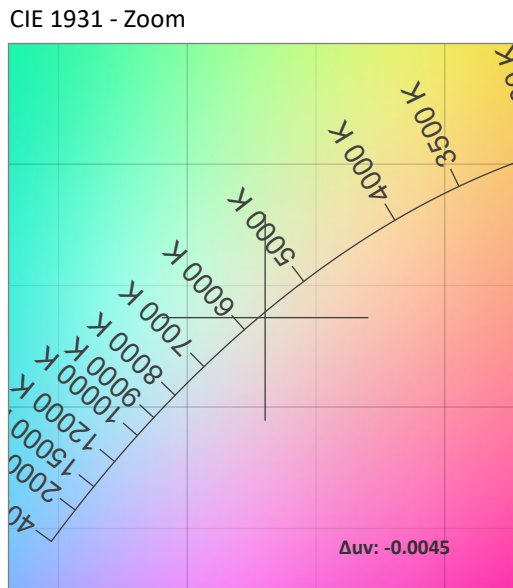
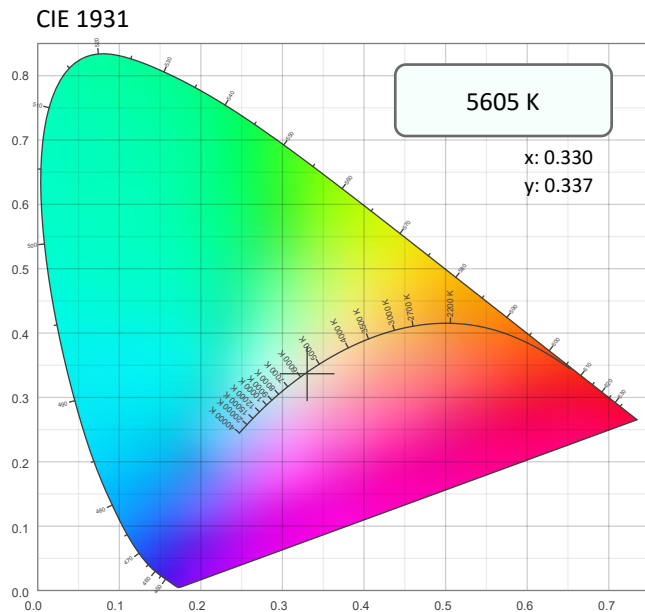
Conditions:
 Number of c-planes: 8
 Candela at center: 9.84 lx

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

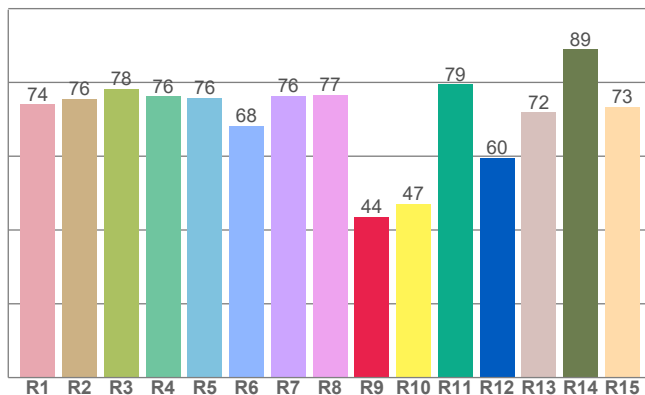
Photometric & Chromaticity Report

Logic GZS: 40x1 Filter - RGBW - Full Power

Chromaticity



CRI: 75.1 (R1-R8)

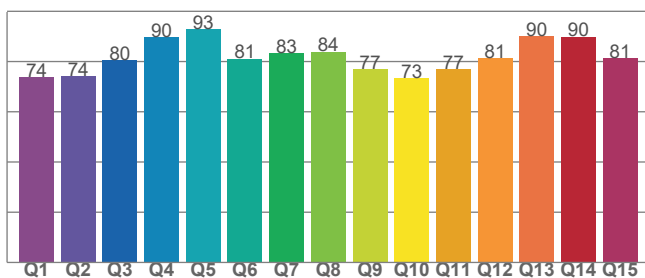


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5605 K	0.330	0.337

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0045	0.337	0.207

CQS: 80.9



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
75.1	43.6	80.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
77	74.7	92.3

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Photometric & Chromaticity Report

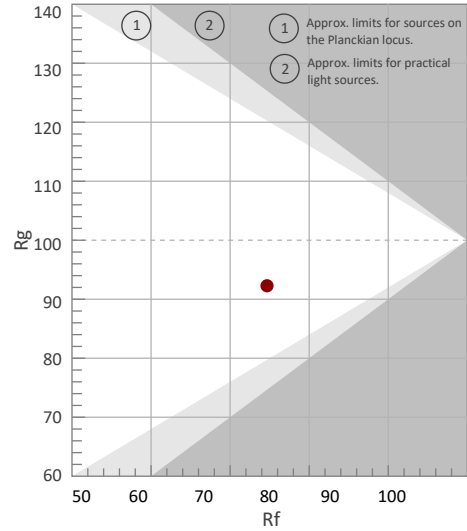
Logic GZS: 40x1 Filter - RGBW - Full Power

TM-30 Details

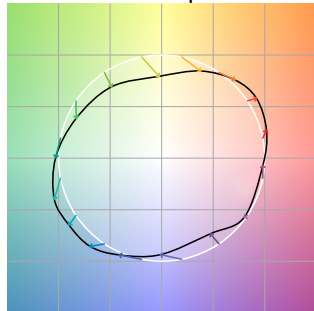
Rf 74.7
Fidelity Index
(Rg)

Rg 92.3
Gammut Index (Rg)

Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	81	5%	7%
2	85	9%	-3%
3	71	3%	-17%
4	64	-10%	-21%
5	64	-22%	-13%
6	77	-15%	2%
7	75	-10%	14%
8	68	1%	19%
9	77	10%	19%
10	81	11%	4%
11	75	10%	-10%
12	69	0%	-22%
13	75	-8%	-19%
14	78	-13%	-1%
15	81	-2%	-3%
16	79	-2%	12%



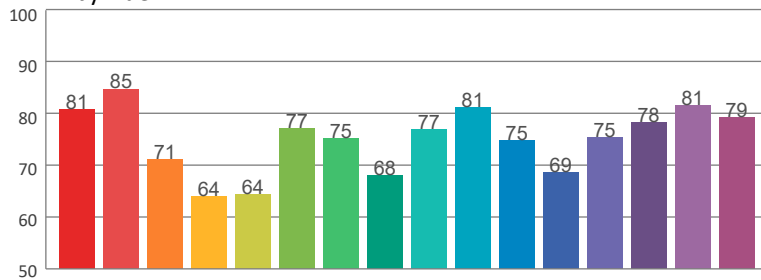
Color Vector Graphic



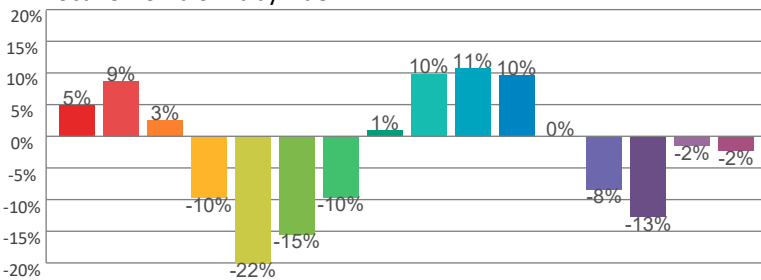
Color Distortion Graphic



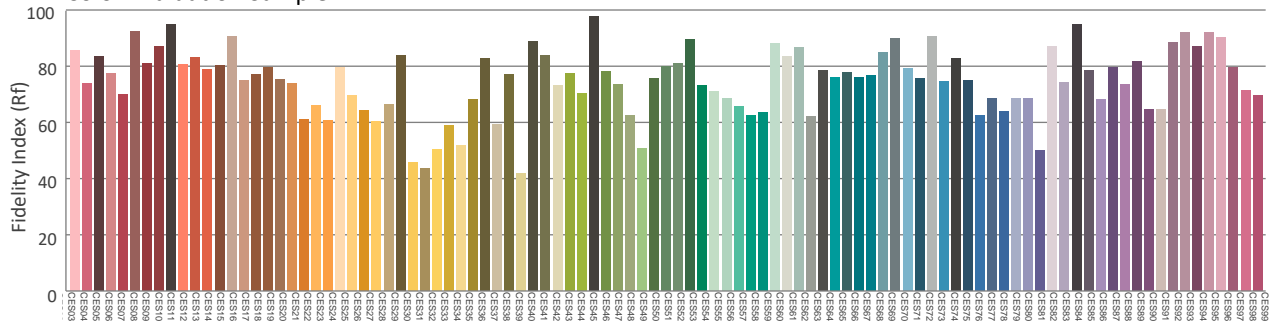
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: 40x1 Filter - Red Only

Report Summary

Measurements

Fixture Output: 132 lm

Fixture Peak: 229 cd

Fixture Efficacy: 8 lm/W

Intensity @ 5m: 9 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%): 32.9°

Field Angle (10%): 71.4°

Cutoff Angle (2%): 118.8°

Conditions

AC Supply: 120 V, 60 Hz

Power: 19.29 W

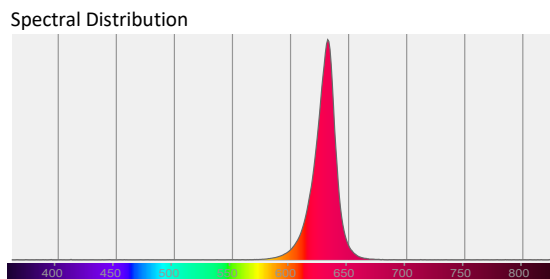
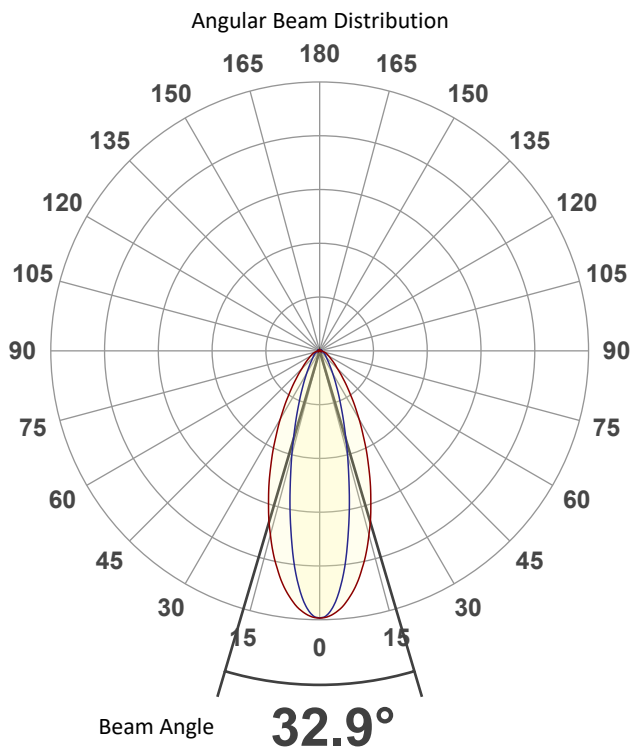
Current: 0.161 A

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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.695

Y: 0.305



Light Quality

CRI: 0.0

Color Temperature

0 K

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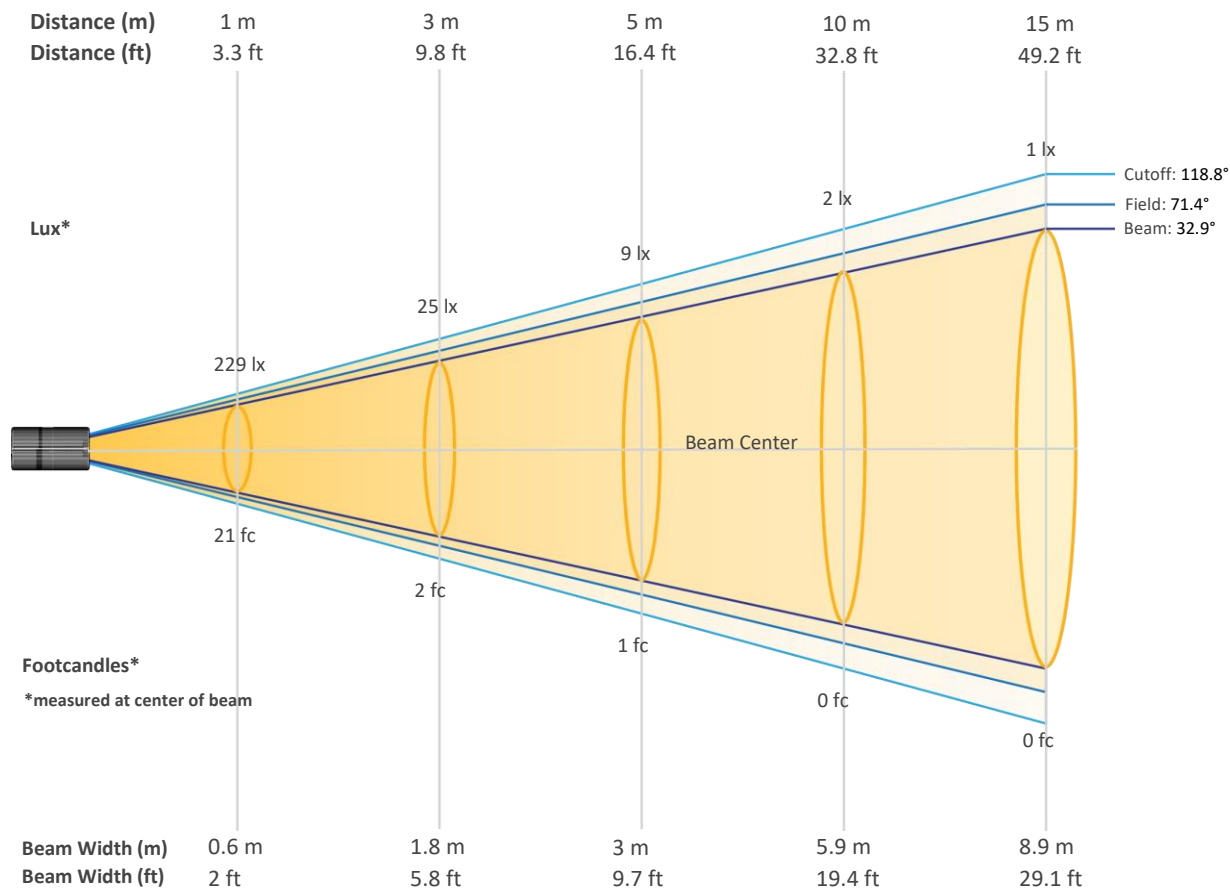
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Photometric & Chromaticity Report

Logic GZS: 40x1 Filter - 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	229	57	25	14	9	6	5	4	3	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	2	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	21	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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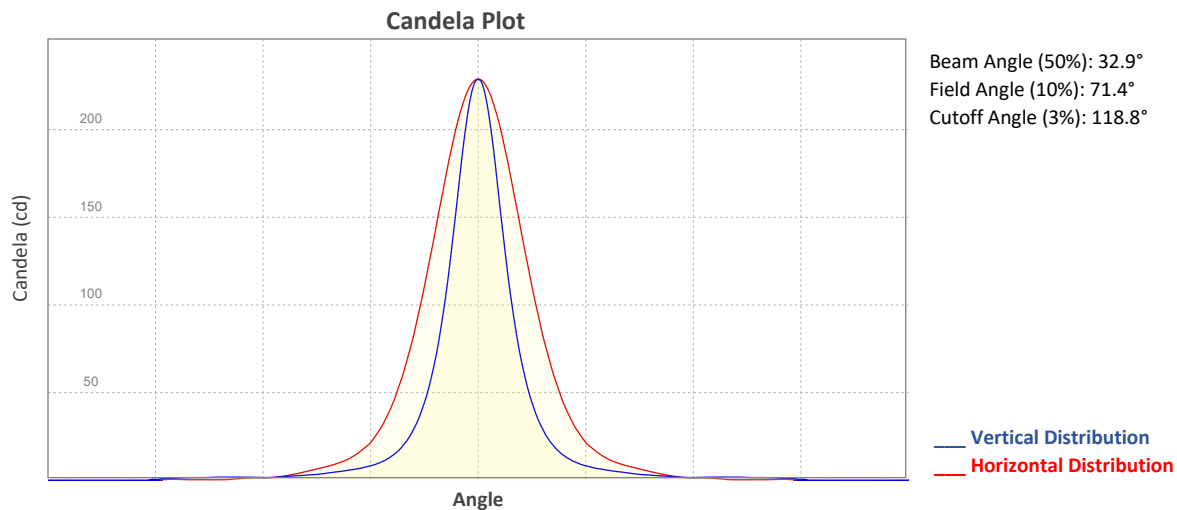
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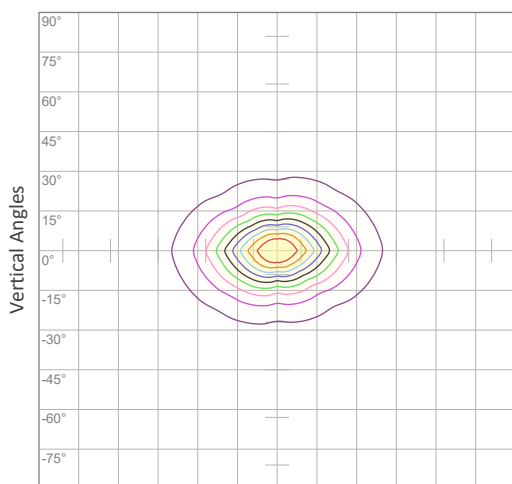
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Photometric & Chromaticity Report

Logic GZS: 40x1 Filter - Red Only



ISO Diagrams



ISO Candela Diagram

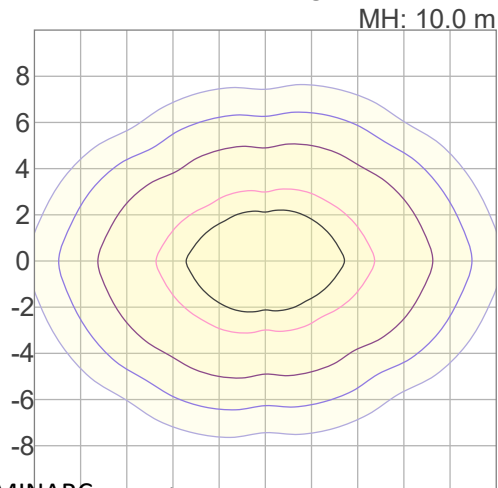
10%	23 cd
20%	46 cd
30%	69 cd
40%	91 cd
50%	114 cd
60%	137 cd
70%	160 cd
80%	183 cd
90%	206 cd

Conditions:

Number of c-planes: 8

Candela at center: 229 cd

Horizontal Angles



ISO Lux Diagram

3%	68.6m lx
5%	0.114 lx
10%	0.229 lx
30%	0.686 lx
50%	1.14 lx

Conditions:

Number of c-planes: 8

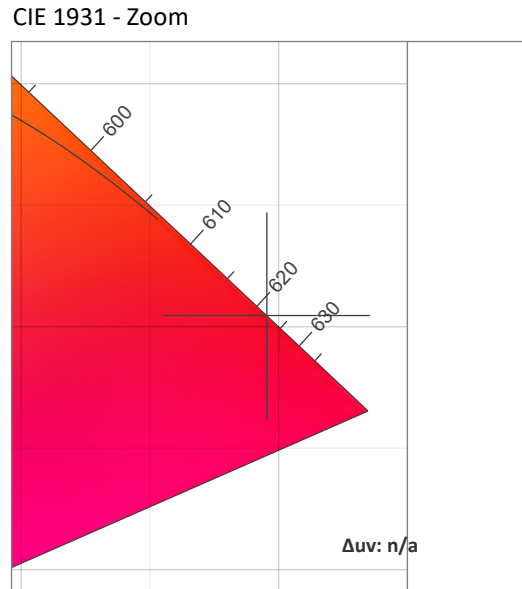
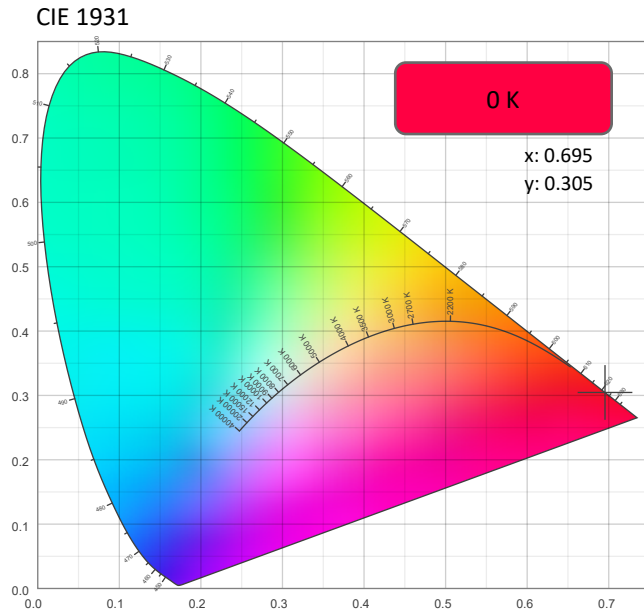
Candela at center: 2.29 lx

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

Photometric & Chromaticity Report

Logic GZS: 40x1 Filter - 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	0.695	0.305

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.305	0.528

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

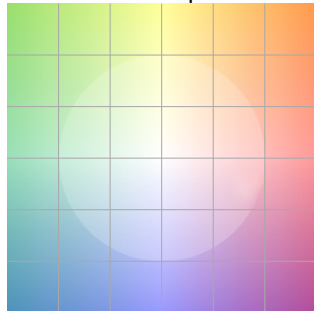
Logic GZS: 40x1 Filter - Red Only

TM-30 Details

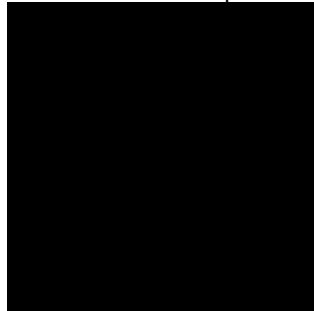
Rf 0.0
Fidelity Index
(Rg)

Rg 0.0
Gammut Index (Rg)

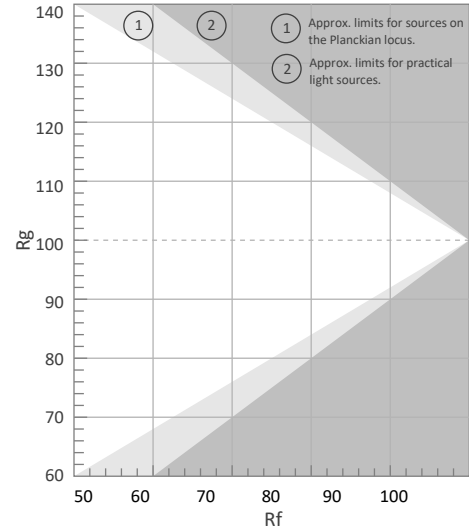
Color Vector Graphic



Color Distortion Graphic



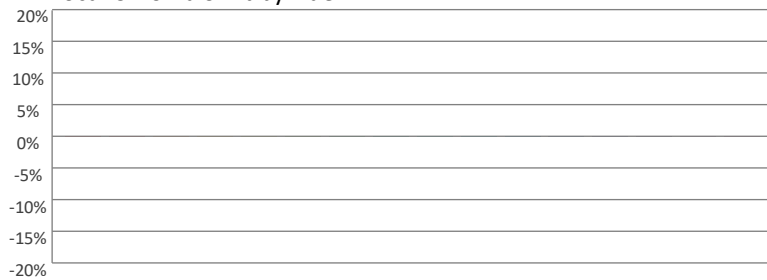
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



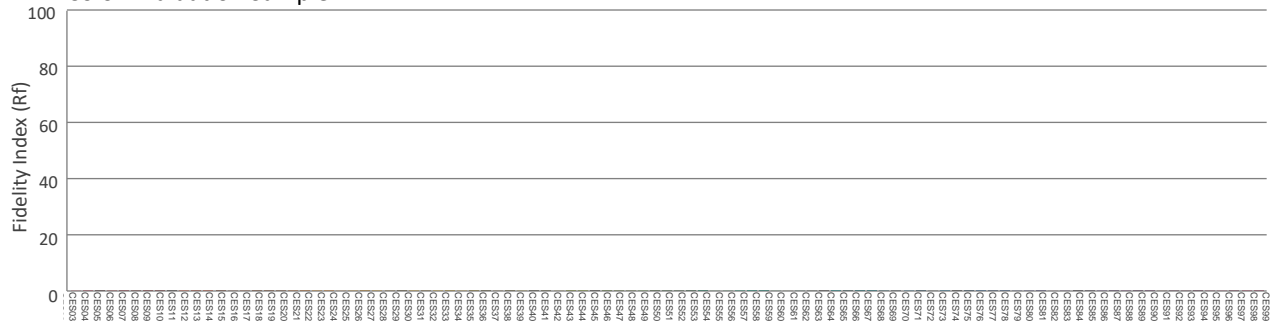
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZS: 40x1 Filter - Green Only

Report Summary

Measurements

Fixture Output: 279 lm

Fixture Peak: 470 cd

Fixture Efficacy: 17 lm/W

Intensity @ 5m: 19 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%): 33.5°

Field Angle (10%): 73°

Cutoff Angle (3%): 121.4°

Conditions

AC Supply: 120 V, 60 Hz

Power: 19.64 W

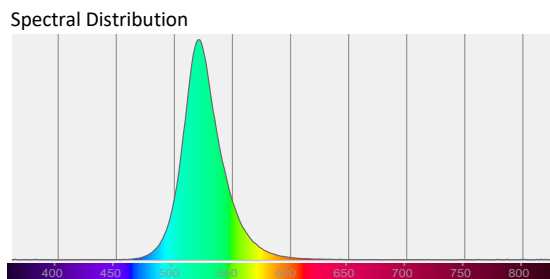
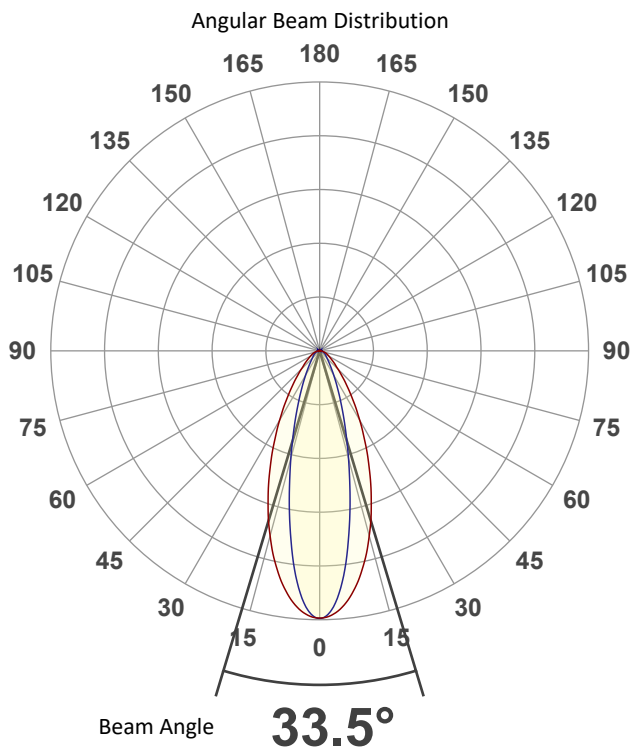
Current: 0.164 A

Power Factor: 0.86



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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.174

Y: 0.725



Light Quality

CRI: 0.0

Color Temperature

0 K

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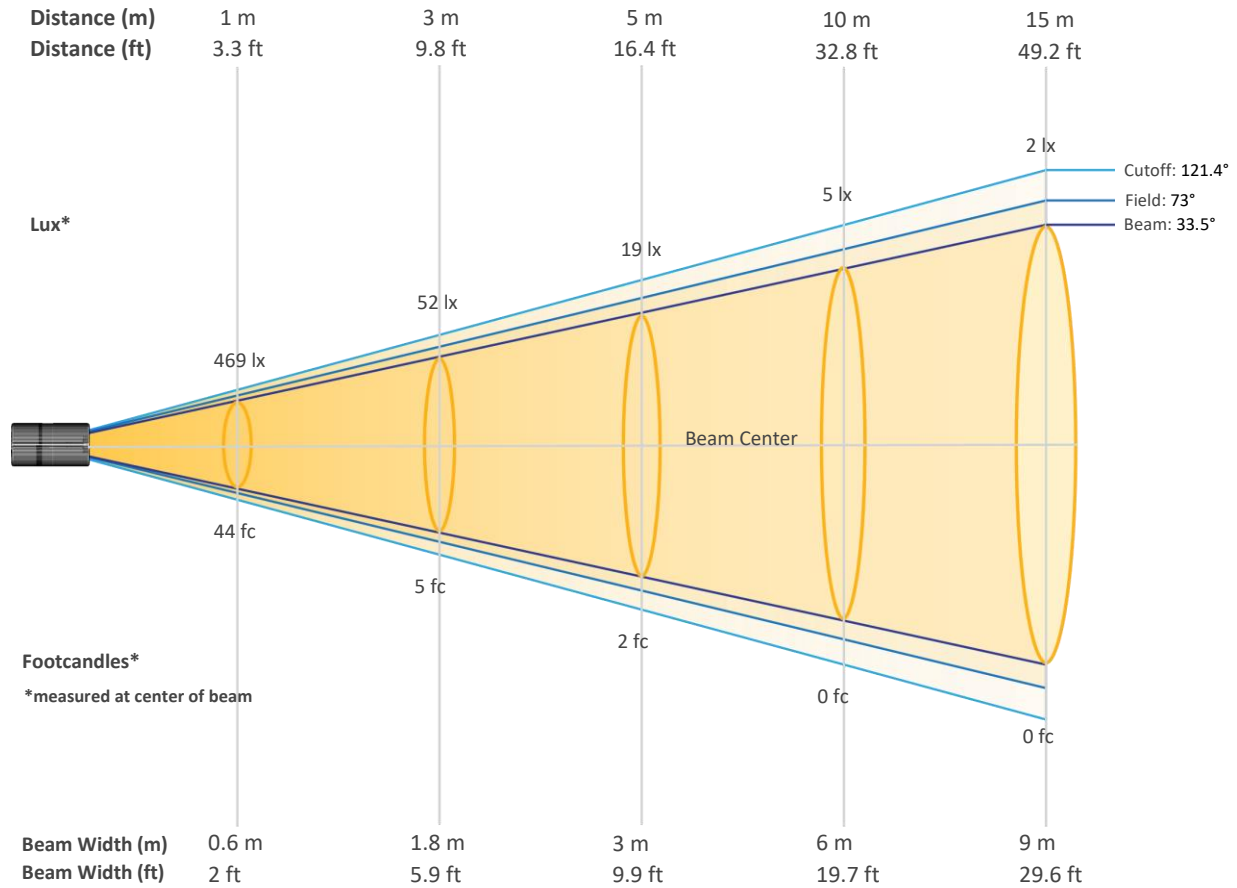
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Photometric & Chromaticity Report

Logic GZS: 40x1 Filter - 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	469	117	52	29	19	13	10	7	6	5
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	4	3	3	2	2	2	2	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	44	11	5	3	2	1	1	1	1	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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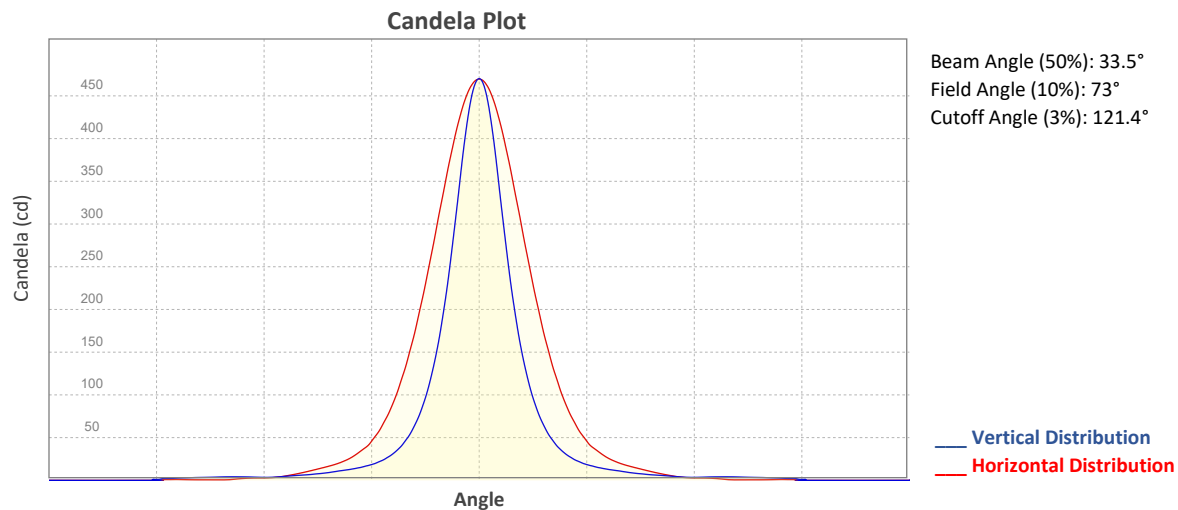
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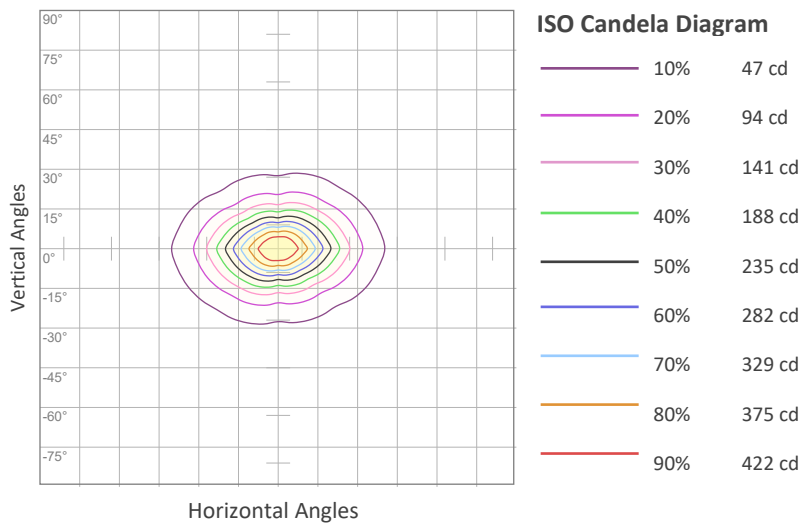
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Photometric & Chromaticity Report

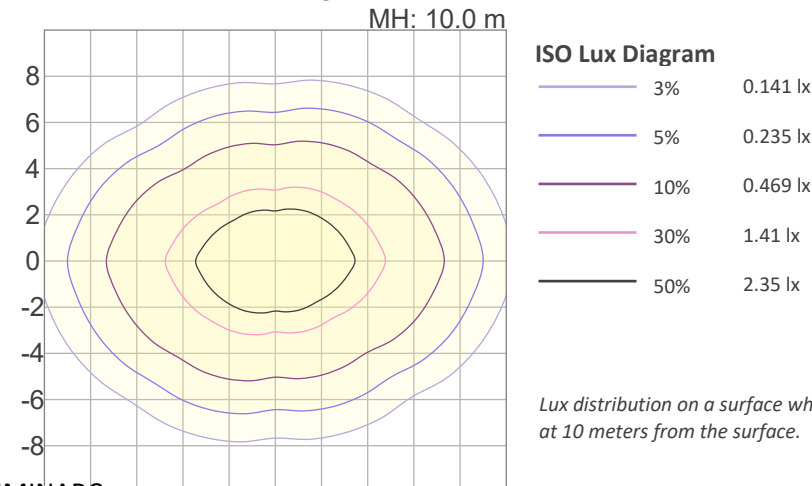
Logic GZS: 40x1 Filter - Green Only



ISO Diagrams



Conditions:
 Number of c-planes: 8
 Candela at center: 469 cd



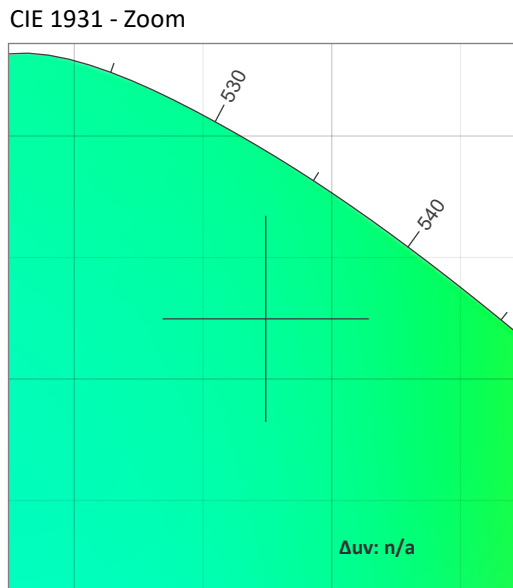
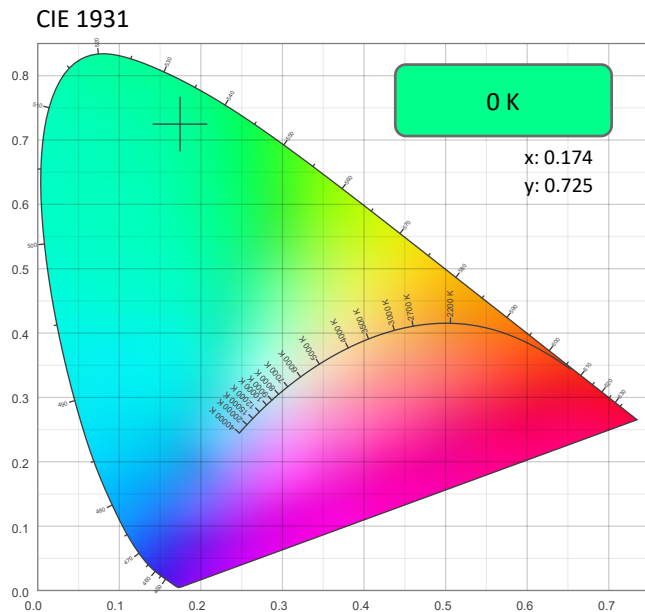
Conditions:
 Number of c-planes: 8
 Candela at center: 4.69 lx

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

Photometric & Chromaticity Report

Logic GZS: 40x1 Filter - 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	0.174	0.725

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.725	0.061

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

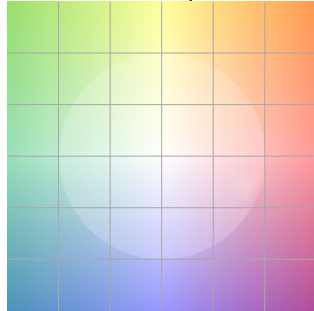
Logic GZS: 40x1 Filter - Green Only

TM-30 Details

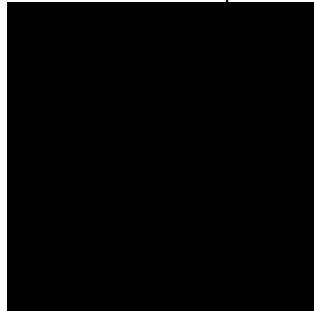
Rf 0.0
Fidelity Index
(Rg)

Rg 0.0
Gammut Index (Rg)

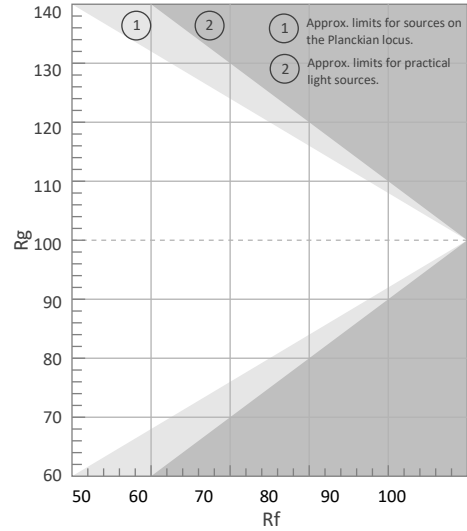
Color Vector Graphic



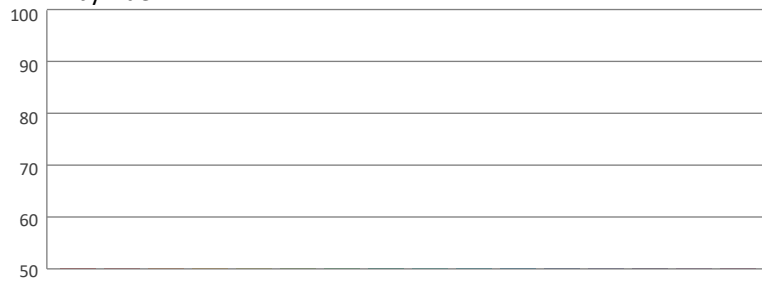
Color Distortion Graphic



Hue Bin	R _f	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%



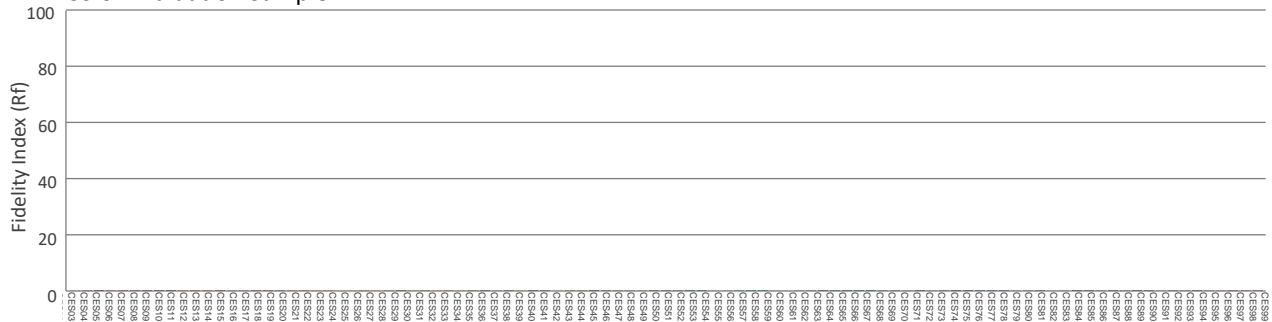
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZS: 40x1 Filter - Blue Only

Report Summary

Measurements

Fixture Output: 105 lm

Fixture Peak: 148 cd

Fixture Efficacy: 6 lm/W

Intensity @ 5m: 6 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%): 79.4°

Cutoff Angle (2%): 134.4°

Conditions

AC Supply: 120 V, 60 Hz

Power: 19.13 W

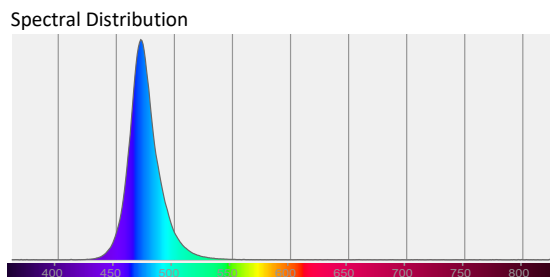
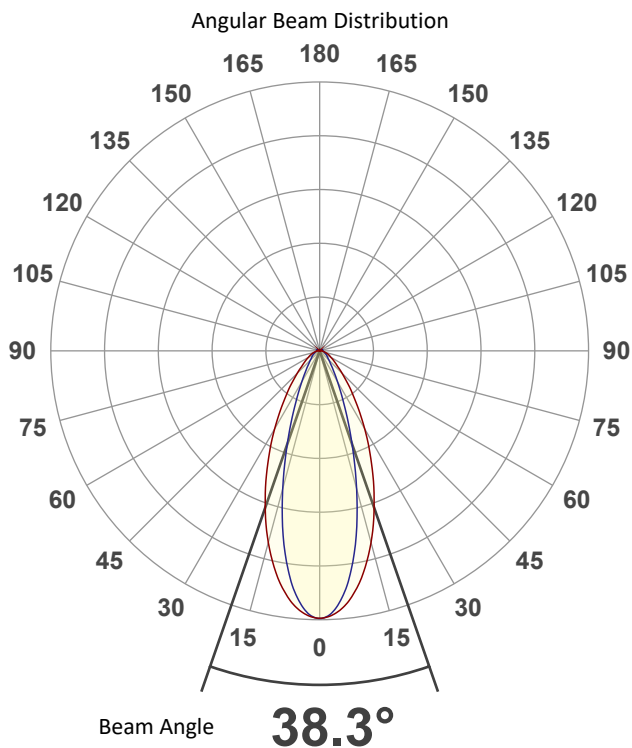
Current: 0.160 A

Power Factor: 0.85



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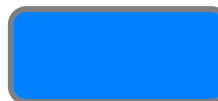
Overall Measurement



Tested Color (CIE 1931):

X: 0.119

Y: 0.098

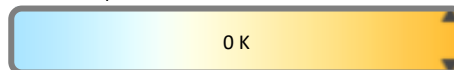


Light Quality

CRI: 0.0

Color Temperature

0 K



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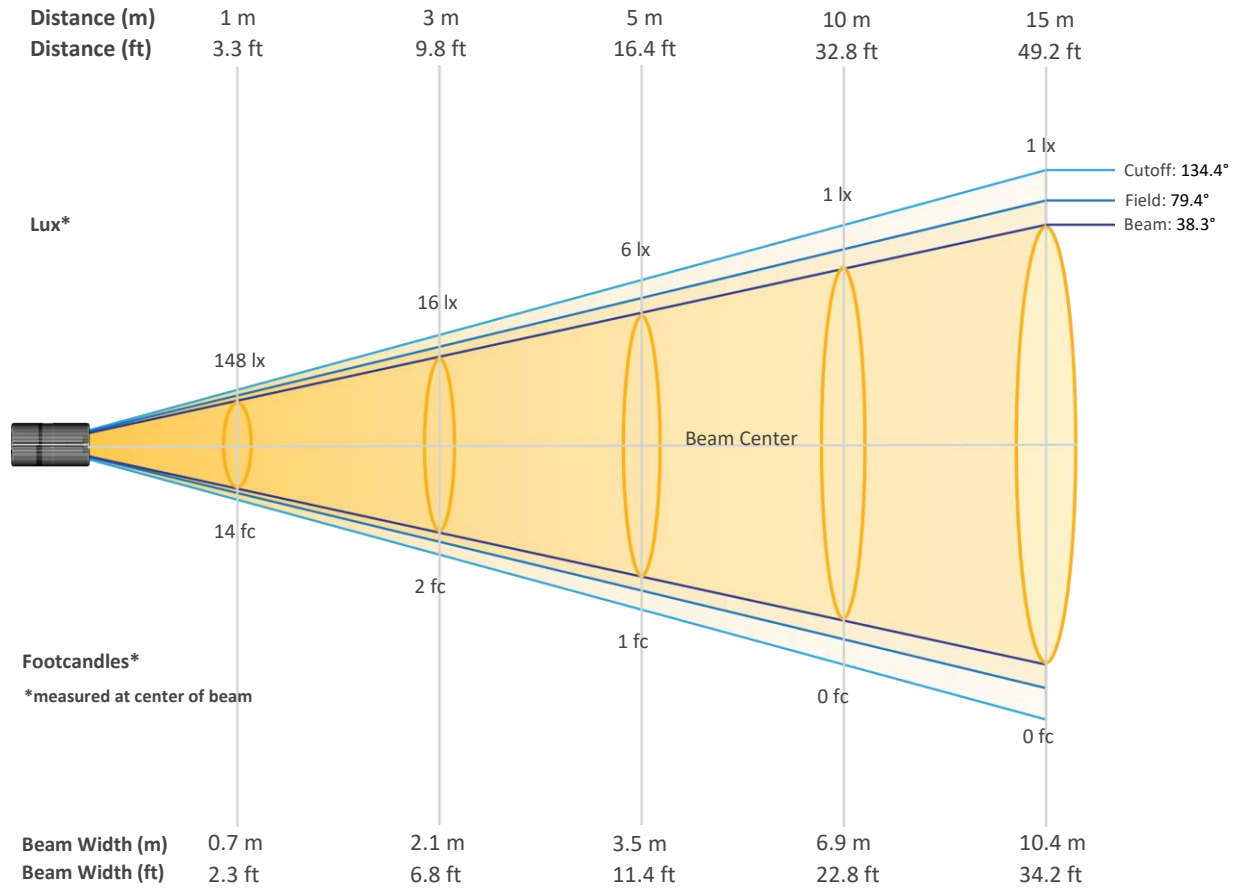
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Photometric & Chromaticity Report

Logic GZS: 40x1 Filter - 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	148	37	16	9	6	4	3	2	2	1
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	3	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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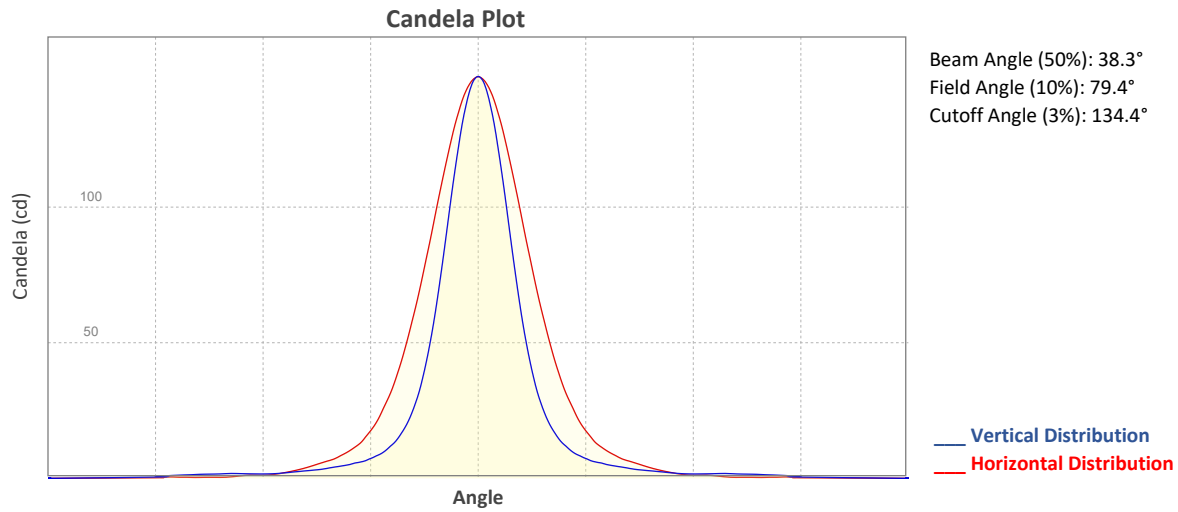
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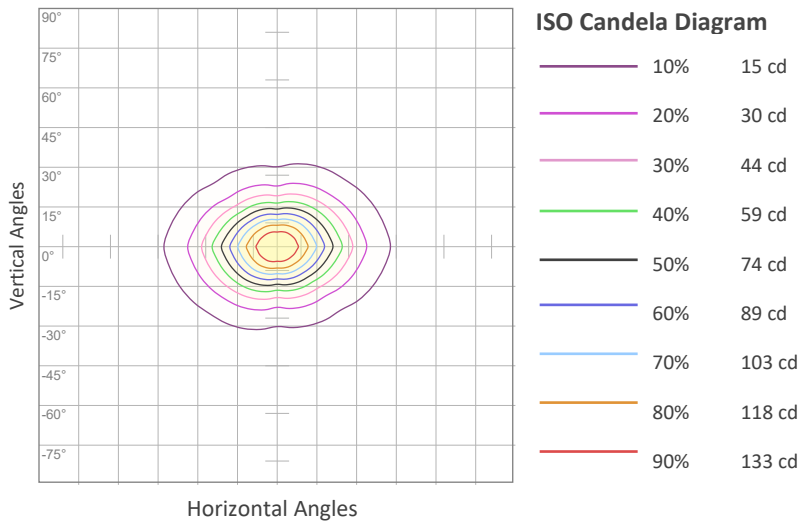
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Photometric & Chromaticity Report

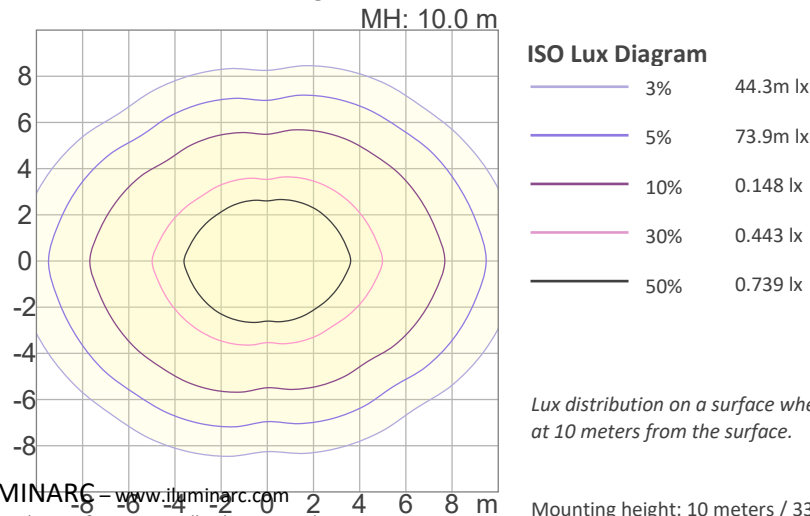
Logic GZS: 40x1 Filter - Blue Only



ISO Diagrams



Conditions:
 Number of c-planes: 8
 Candela at center: 148 cd



Conditions:
 Number of c-planes: 8
 Candela at center: 1.48 lx

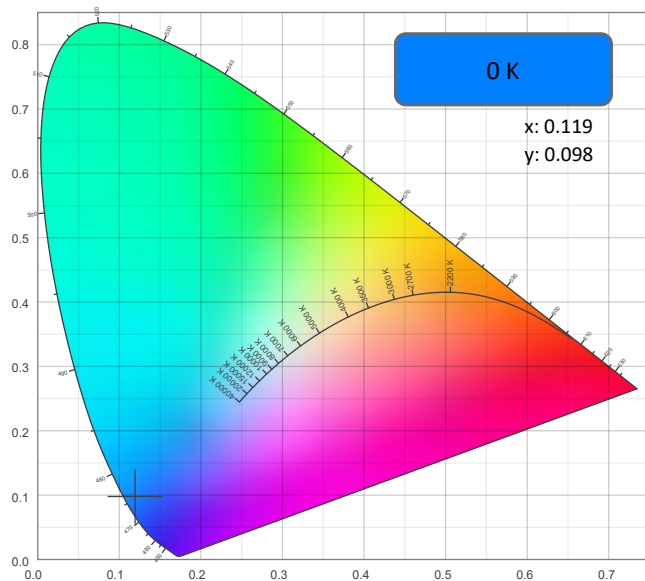
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Photometric & Chromaticity Report

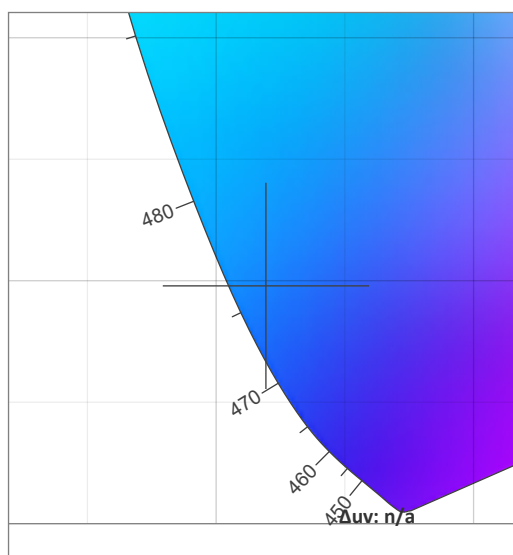
Logic GZS: 40x1 Filter - Blue Only

Chromaticity

CIE 1931



CIE 1931 - Zoom



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	0.119	0.098

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.098	0.121

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

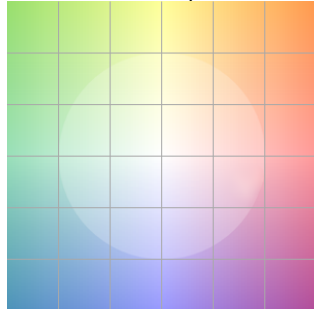
Logic GZS: 40x1 Filter - Blue Only

TM-30 Details

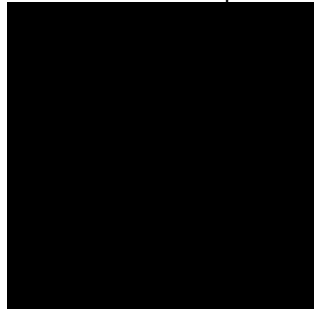
Rf 0.0
Fidelity Index (Rg)

Rg 0.0
Gammut Index (Rg)

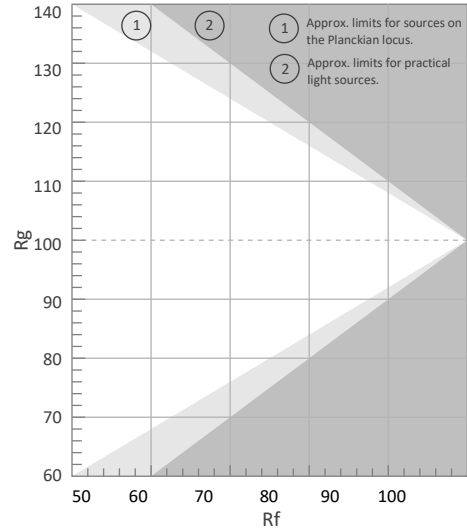
Color Vector Graphic



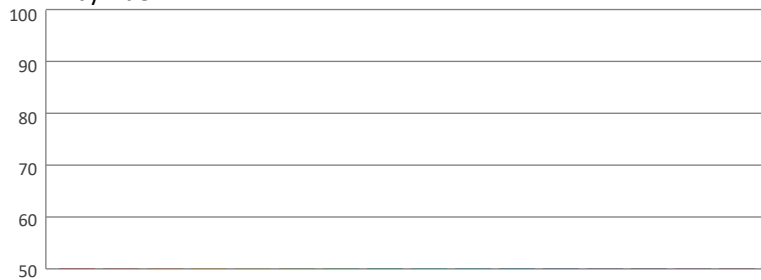
Color Distortion Graphic



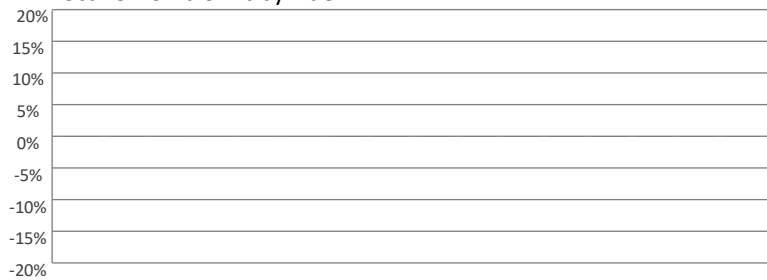
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
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13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



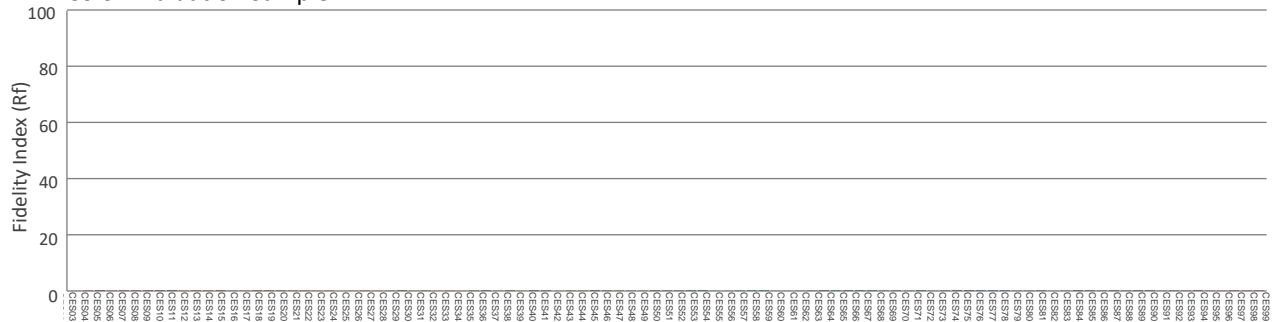
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZS: 40x1 Filter - Warm White Only

Report Summary

Measurements

Fixture Output: 432 lm

Fixture Peak: 654 cd

Fixture Efficacy: 25 lm/W

Intensity @ 5m: 26 lux

Color Temperature: 3023 K

CRI: 84.4 CRI R9 Value: 14.2

CQS: 83.5

TLCI: 73

TM-30 Rf: 85.6

TM-30 Rg: 94.9

Beam Angle (50%): 37.2°

Field Angle (10%): 76.3°

Cutoff Angle (3%): 126.2°

Conditions

AC Supply: 120 V, 60 Hz

Power: 19.82 W

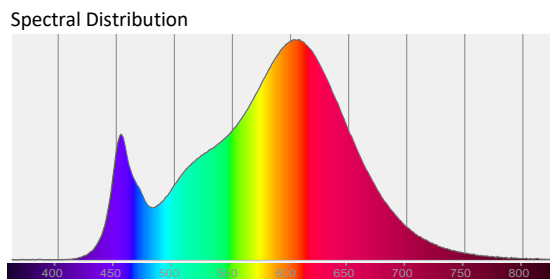
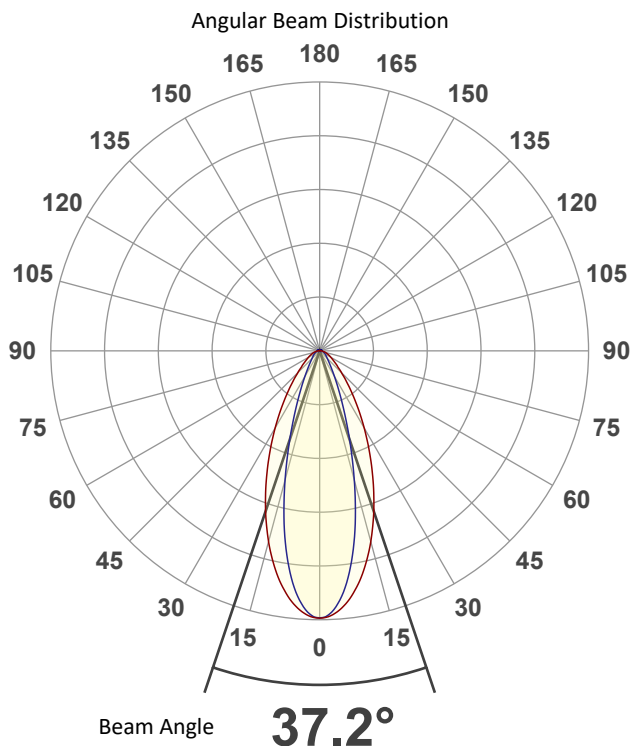
Current: 0.165 A

Power Factor: 0.86



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Overall Measurement



Tested Color (CIE 1931):

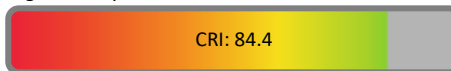
X: 0.434

Y: 0.400



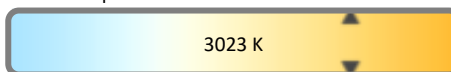
Light Quality

CRI: 84.4



Color Temperature

3023 K



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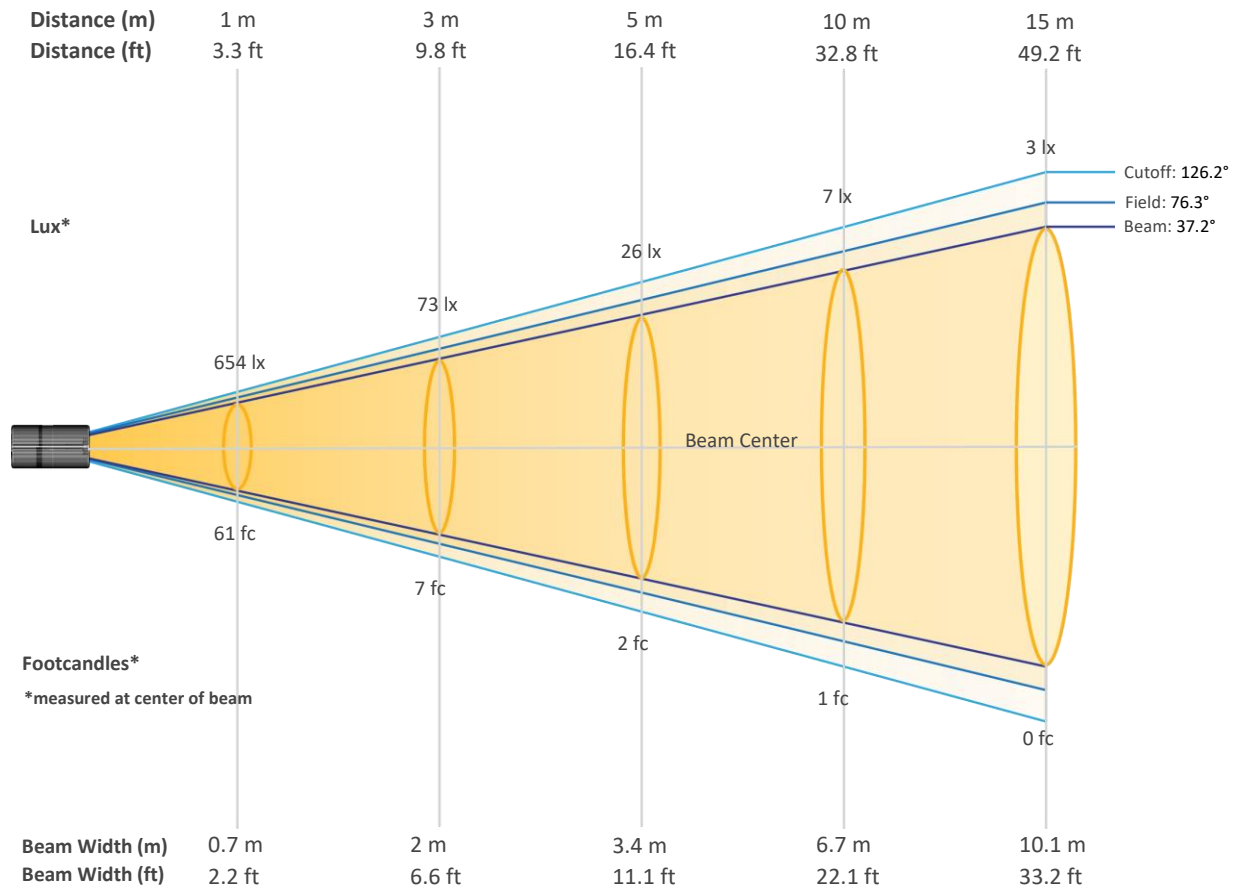
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Photometric & Chromaticity Report

Logic GZS: 40x1 Filter - 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	654	163	73	41	26	18	13	10	8	7
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	5	5	4	3	3	3	2	2	2	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	61	15	7	4	2	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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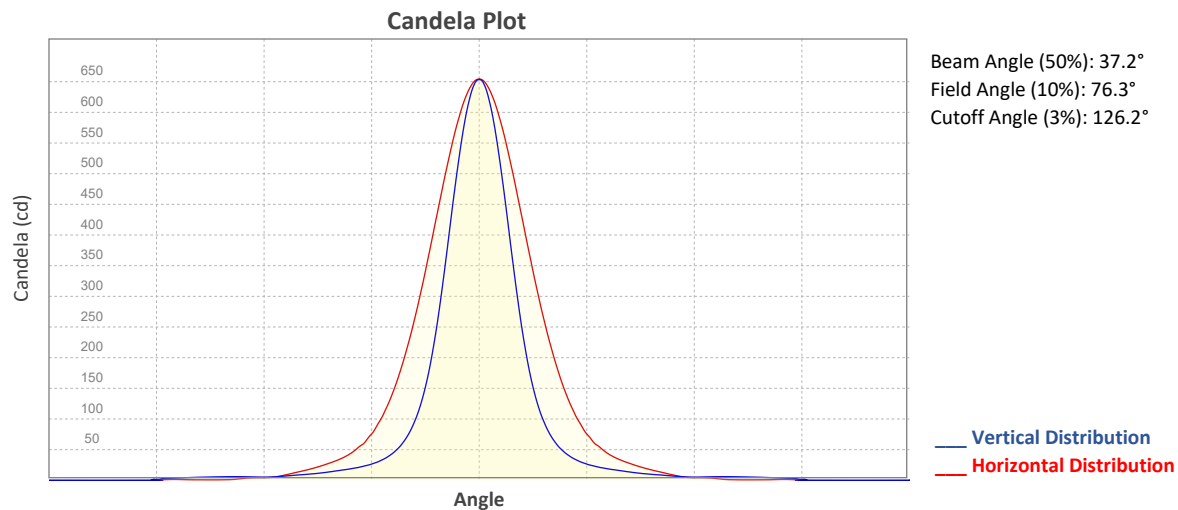
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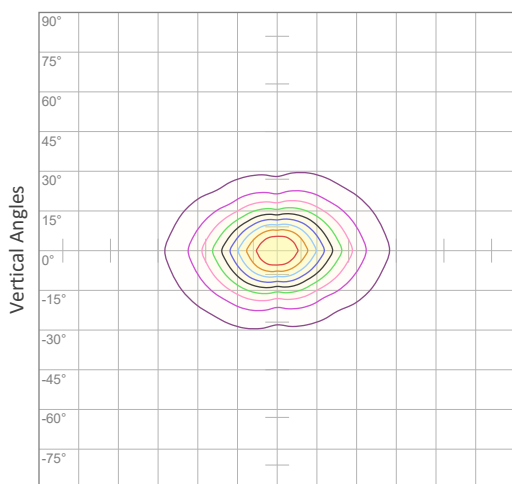
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Photometric & Chromaticity Report

Logic GZS: 40x1 Filter - Warm White Only



ISO Diagrams

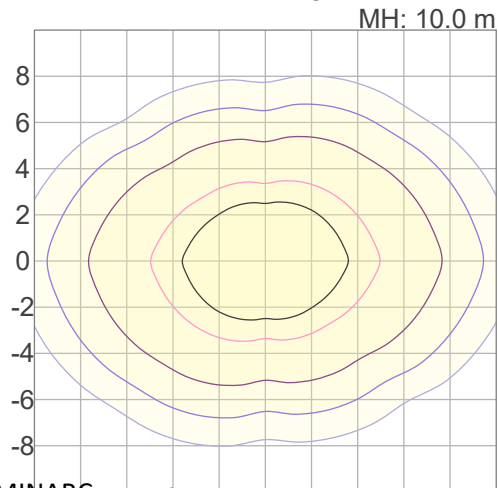


ISO Candela Diagram

10%	65 cd
20%	131 cd
30%	196 cd
40%	262 cd
50%	327 cd
60%	392 cd
70%	458 cd
80%	523 cd
90%	588 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 654 cd

Horizontal Angles



ISO Lux Diagram

3%	0.196 lx
5%	0.327 lx
10%	0.654 lx
30%	1.96 lx
50%	3.27 lx

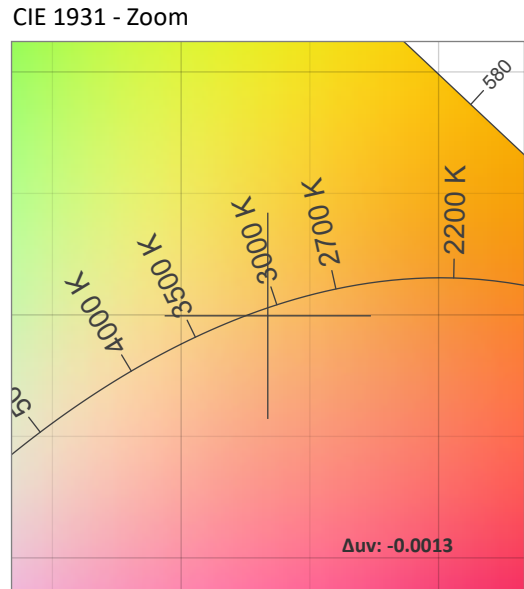
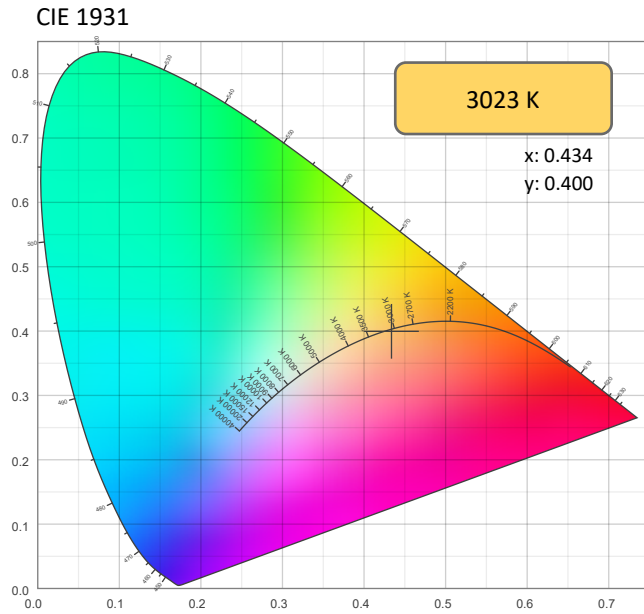
Conditions:
 Number of c-planes: 8
 Candela at center: 6.54 lx

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

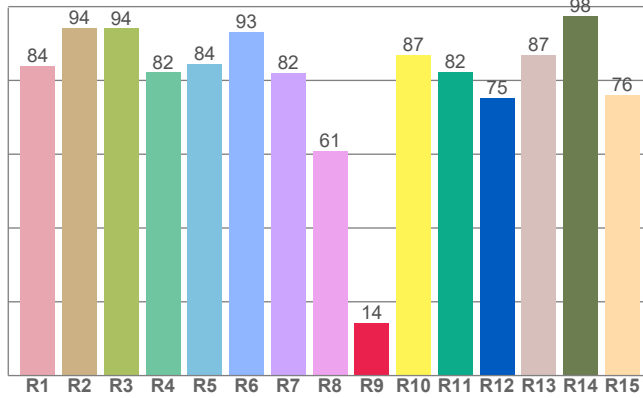
Photometric & Chromaticity Report

Logic GZS: 40x1 Filter - Warm White Only

Chromaticity



CRI: 84.4 (R1-R8)

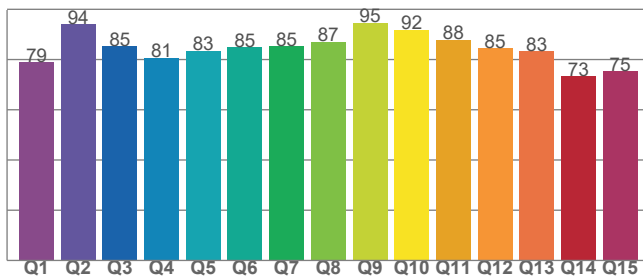


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3023 K	0.434	0.400

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0013	0.400	0.250

CQS: 83.5



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
84.4	14.2	83.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
73	85.6	94.9

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Photometric & Chromaticity Report

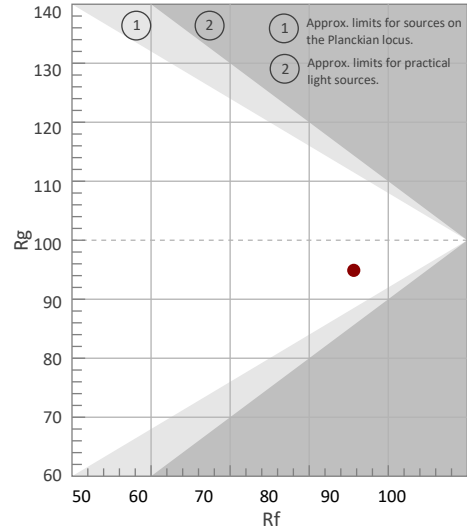
Logic GZS: 40x1 Filter - Warm White Only

TM-30 Details

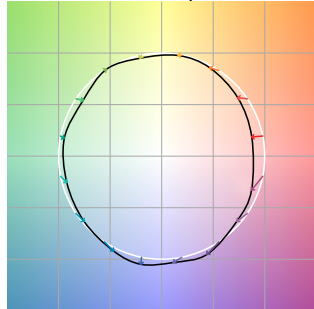
Rf 85.6
Fidelity Index (Rg)

Rg 94.9
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	81	-11%	1%
2	83	-7%	6%
3	82	-3%	9%
4	92	-1%	3%
5	92	-3%	2%
6	94	0%	-2%
7	88	-7%	-3%
8	92	-4%	1%
9	87	-5%	7%
10	81	-2%	11%
11	83	2%	12%
12	86	7%	1%
13	87	3%	-9%
14	80	4%	-16%
15	80	-4%	-12%
16	77	-8%	-15%



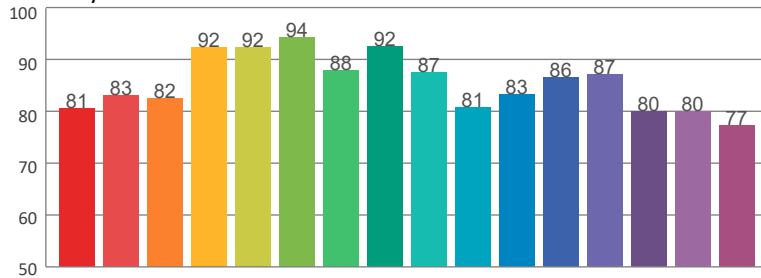
Color Vector Graphic



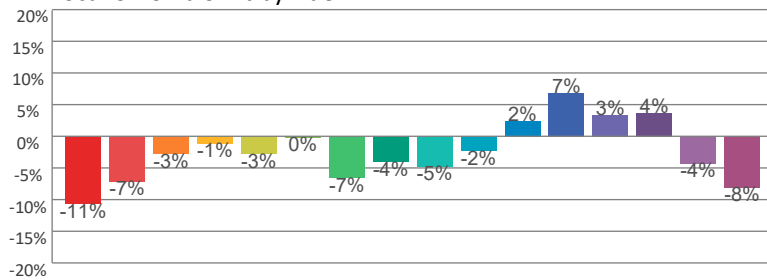
Color Distortion Graphic



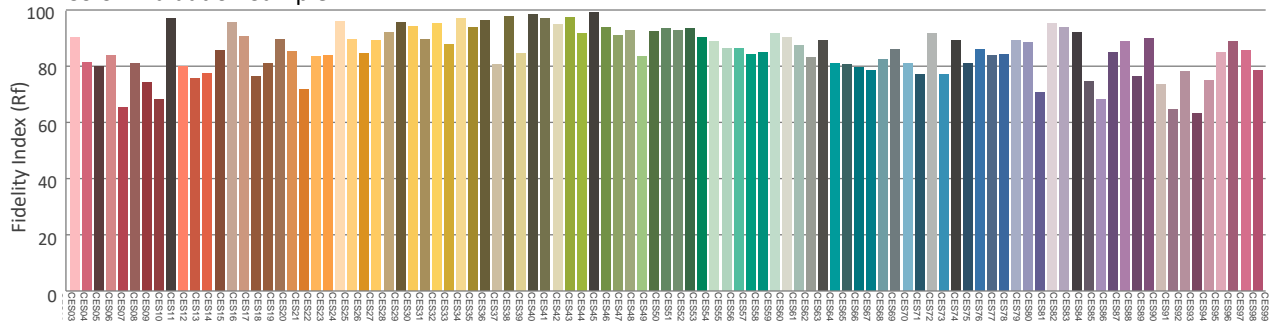
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: 60x1 Filter - RGBW - Full Power

Report Summary

Measurements

Fixture Output: 594 lm
Fixture Peak: 800 cd
Fixture Efficacy: 26 lm/W
Intensity @ 5m: 32 lux
Color Temperature: 5558 K
CRI: 75.2 CRI R9 Value: 43.6
CQS: 81.0
TLCI: 77
TM-30 Rf: 74.8
TM-30 Rg: 92.4
Beam Angle (50%): 37.9°
Field Angle (10%): 81.4°
Cutoff Angle (2%): 117.6°

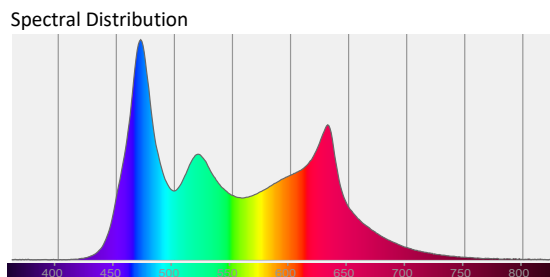
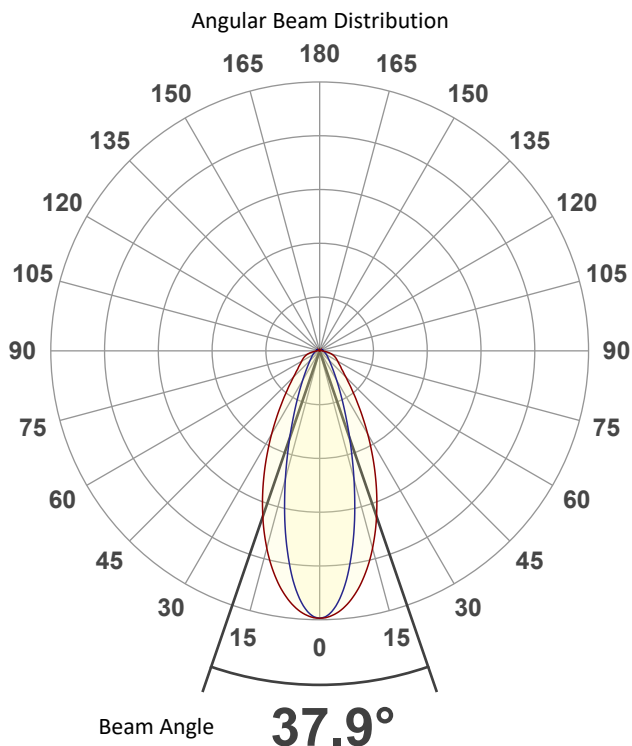
Conditions

AC Supply: 121 V, 60 Hz
Power: 25.5 W
Current: 0.211 A
Power Factor: 0.9



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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.331

Y: 0.337

Light Quality

CRI: 75.2

Color Temperature

5558 K

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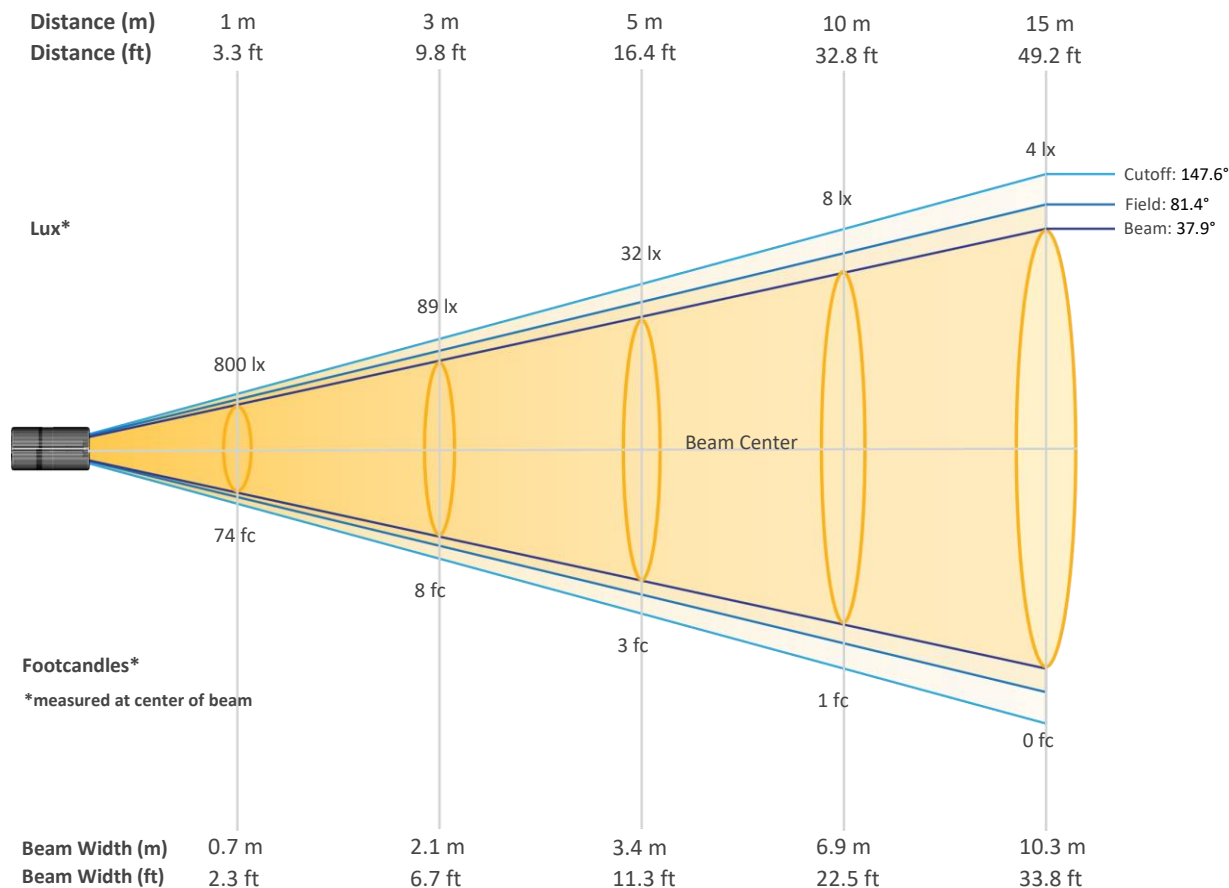
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Photometric & Chromaticity Report

Logic GZS: 60x1 Filter - 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	800	200	89	50	32	22	16	13	10	8
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	7	6	5	4	4	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	74	19	8	5	3	2	2	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	1	0	0	0	0	0	0	0	0

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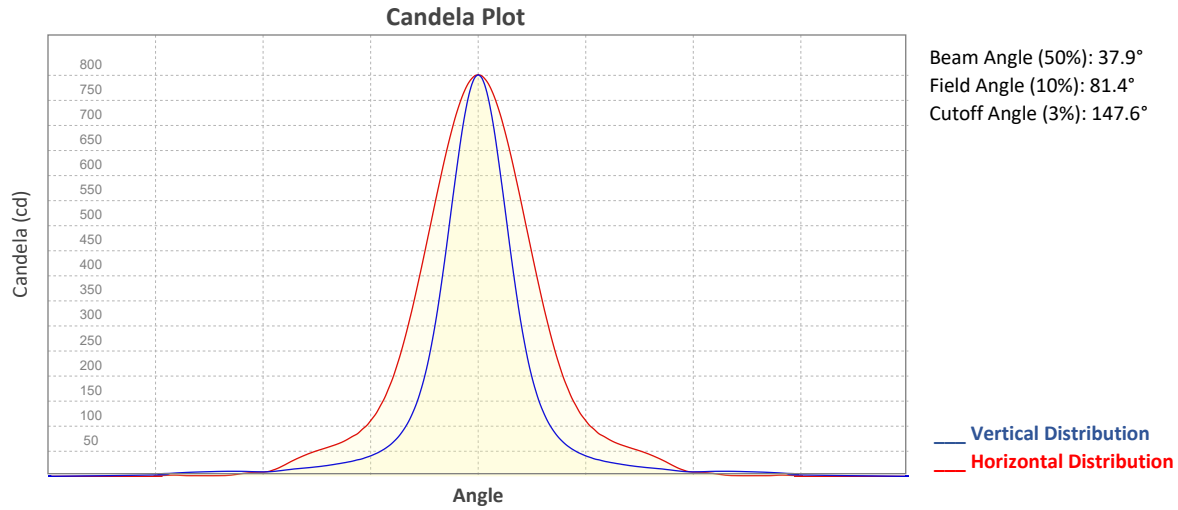
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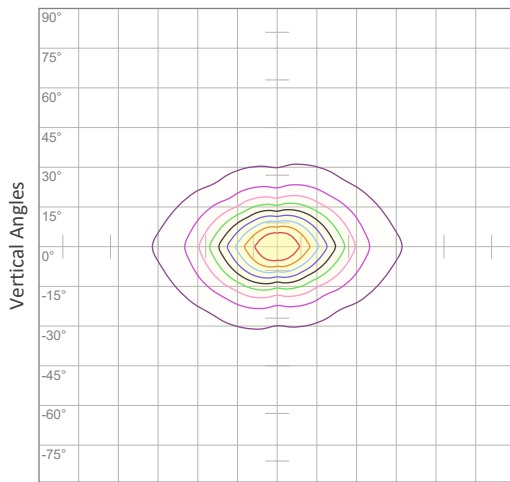
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Photometric & Chromaticity Report

Logic GZS: 60x1 Filter - RGBW - Full Power



ISO Diagrams

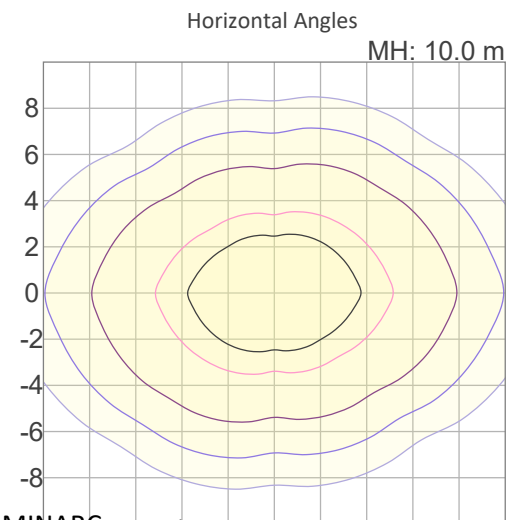


ISO Candela Diagram

10%	80 cd
20%	160 cd
30%	240 cd
40%	320 cd
50%	400 cd
60%	480 cd
70%	560 cd
80%	640 cd
90%	720 cd

Conditions:

Number of c-planes: 8
Candela at center: 800 cd



ISO Lux Diagram

3%	0.240 lx
5%	0.400 lx
10%	0.800 lx
30%	2.40 lx
50%	4.00 lx

Conditions:

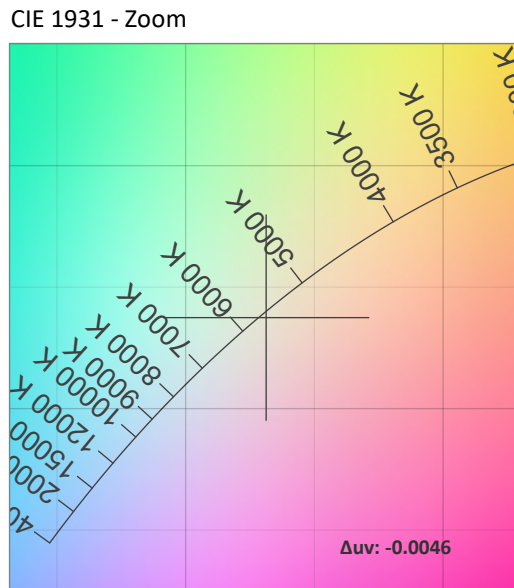
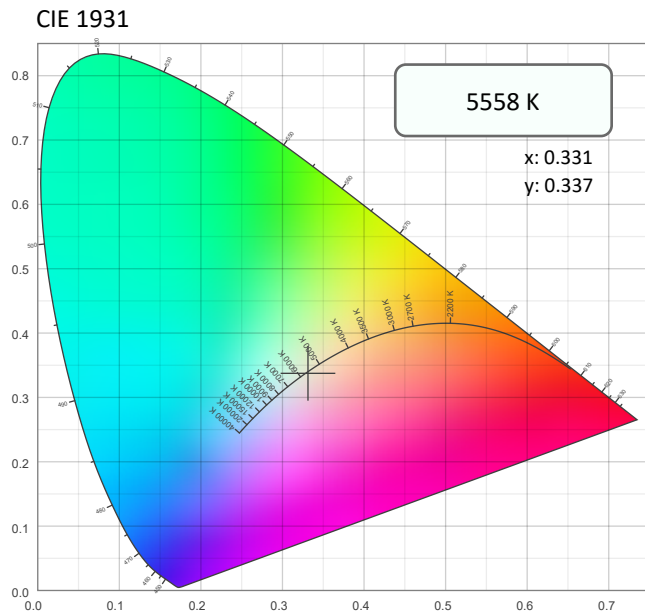
Number of c-planes: 8
Candela at center: 8.00 lx

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

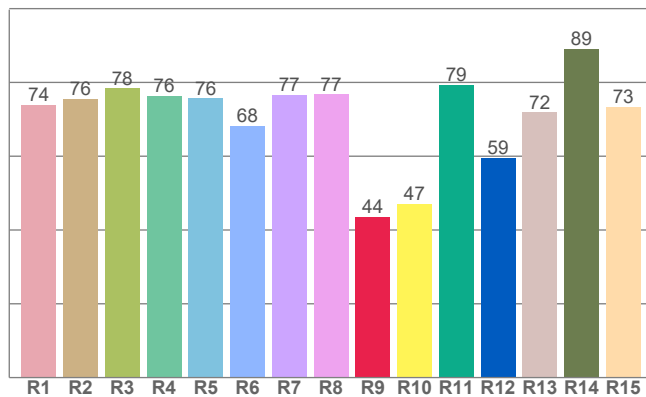
Photometric & Chromaticity Report

Logic GZS: 60x1 Filter - RGBW - Full Power

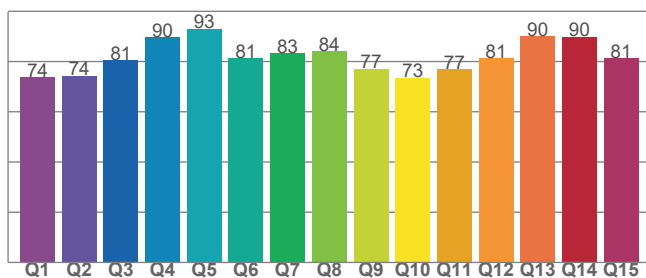
Chromaticity



CRI: 75.2 (R1-R8)



CQS: 81.0



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5558 K	0.331	0.337

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0046	0.337	0.207

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
75.2	43.6	81.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
77	74.8	92.4

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Photometric & Chromaticity Report

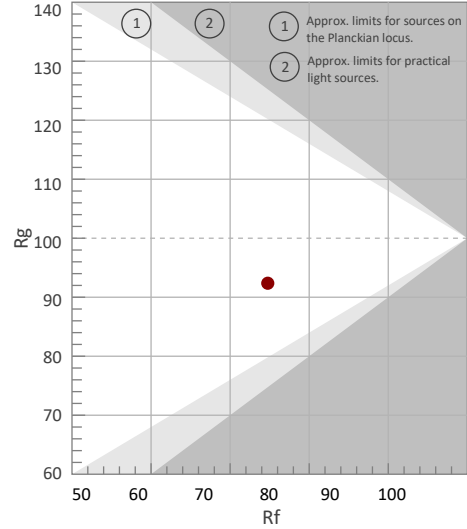
Logic GZS: 60x1 Filter - RGBW - Full Power

TM-30 Details

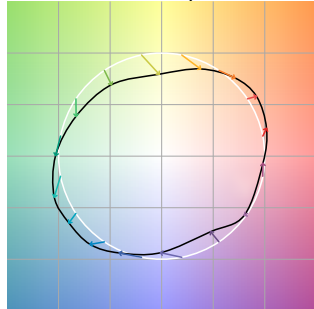
Rf 74.8
Fidelity Index
(Rg)

Rg 92.4
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	81	5%	6%
2	85	9%	-3%
3	71	3%	-17%
4	64	-10%	-20%
5	64	-22%	-13%
6	77	-15%	2%
7	75	-10%	14%
8	68	1%	19%
9	77	10%	19%
10	81	11%	4%
11	75	10%	-10%
12	69	0%	-22%
13	75	-8%	-19%
14	78	-13%	-1%
15	82	-2%	-3%
16	79	-2%	12%



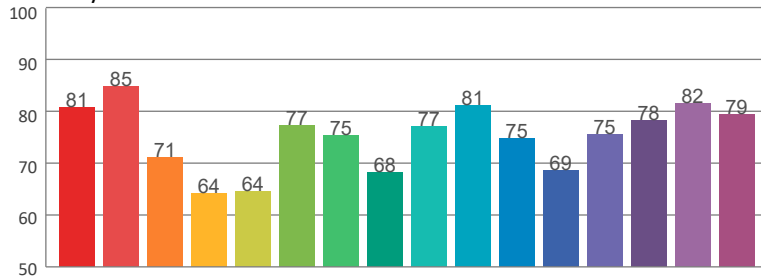
Color Vector Graphic



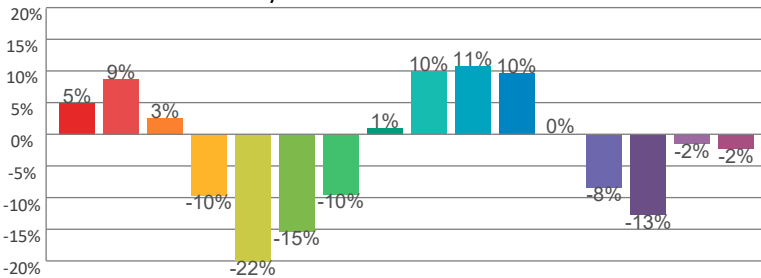
Color Distortion Graphic



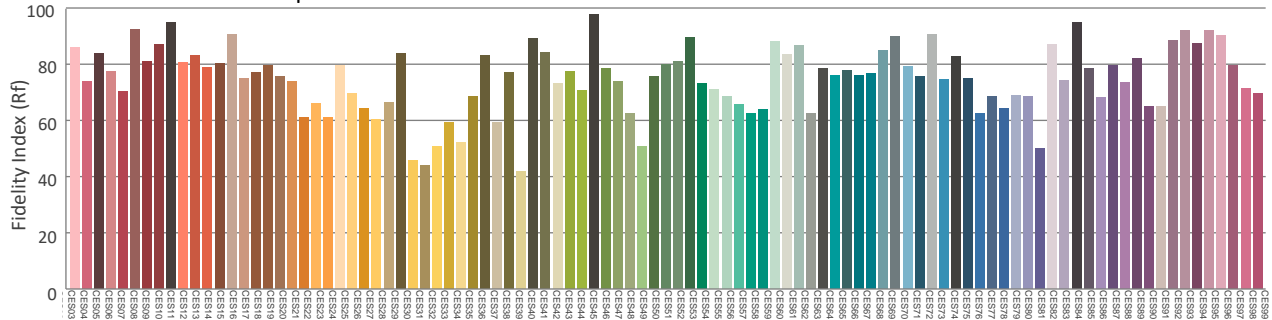
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: 60x1 Filter - Red Only

Report Summary

Measurements

Fixture Output: 123 lm

Fixture Peak: 183 cd

Fixture Efficacy: 7 lm/W

Intensity @ 5m: 7 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%): 34.8°

Field Angle (10%): 77.5°

Cutoff Angle (2%): 127.8°

Conditions

AC Supply: 119 V, 60 Hz

Power: 19.23 W

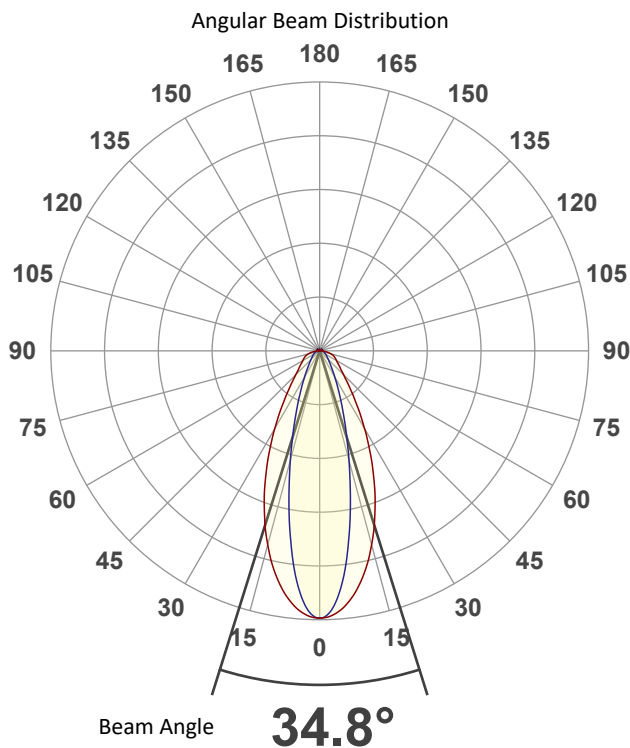
Current: 0.162 A

Power Factor: 0.85

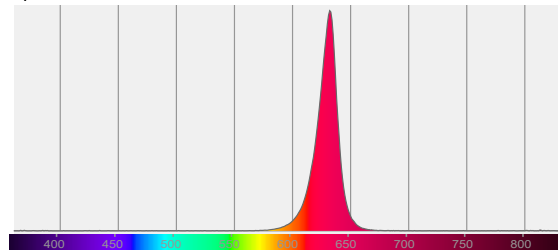


This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Spectral Distribution



Tested Color (CIE 1931):

X: 0.694

Y: 0.305



Light Quality

CRI: 0.0

Color Temperature

0 K

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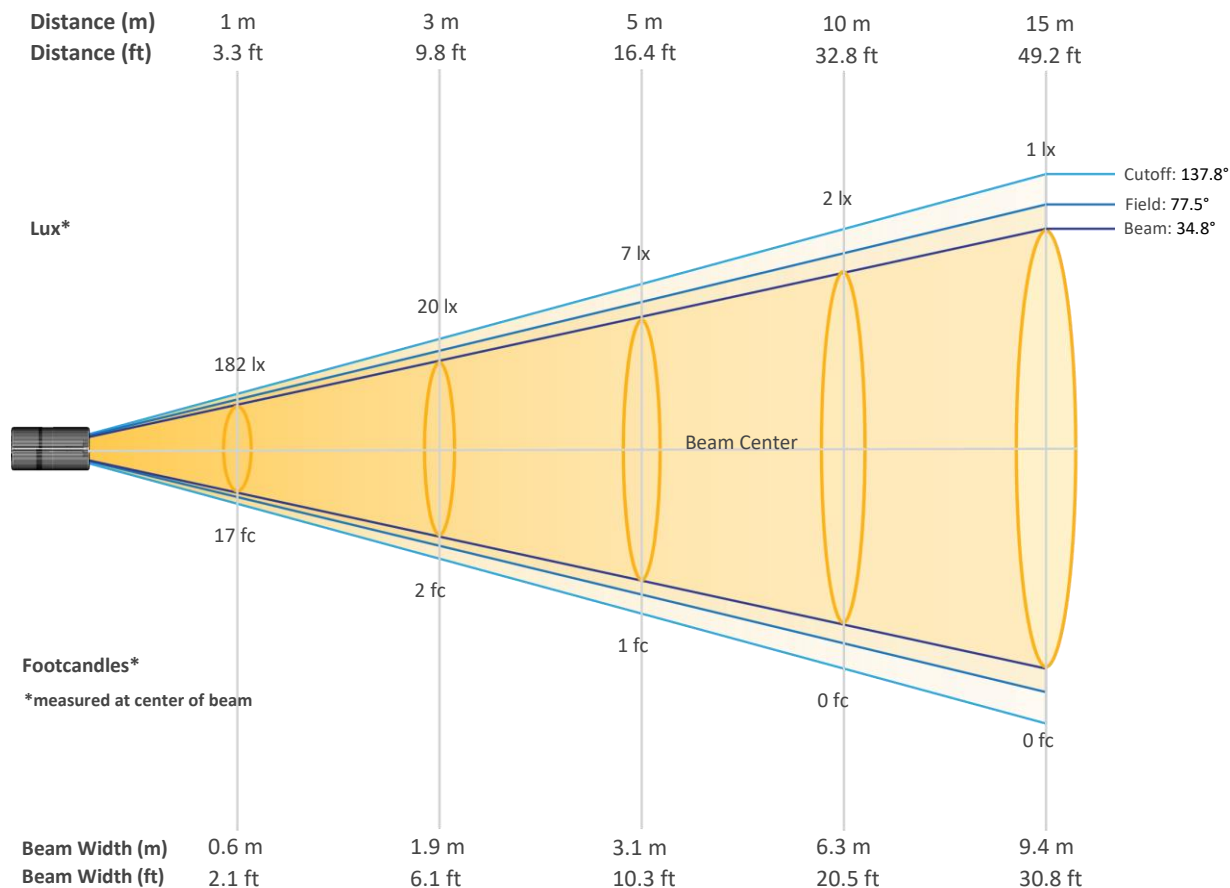
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Photometric & Chromaticity Report

Logic GZS: 60x1 Filter - 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	182	46	20	11	7	5	4	3	2	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	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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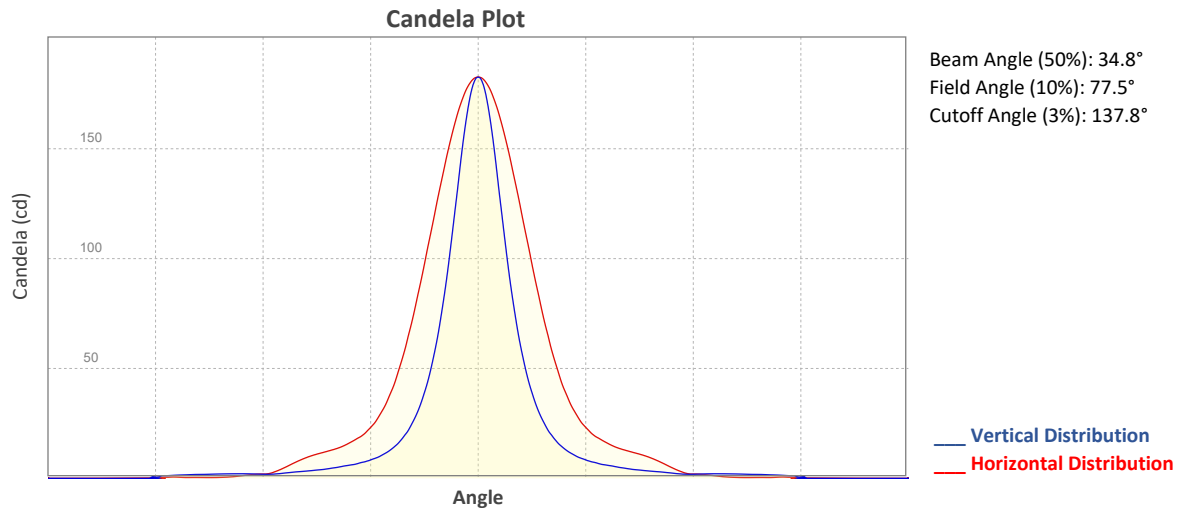
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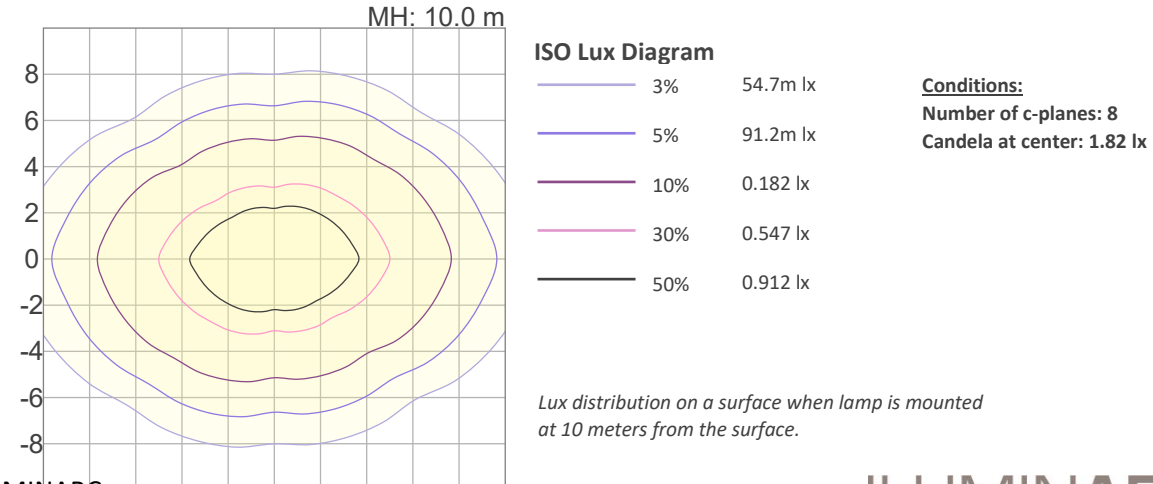
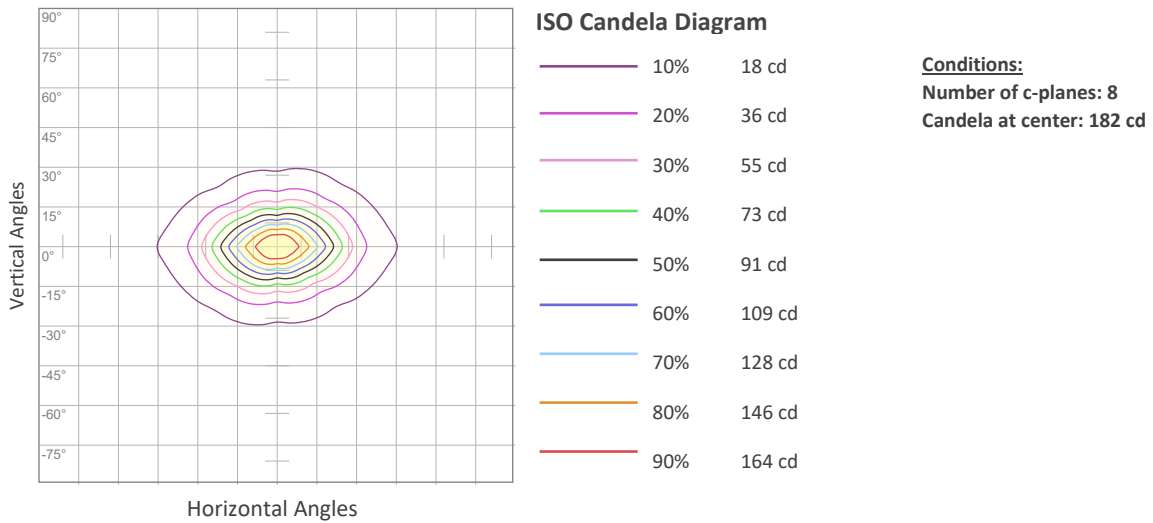
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Photometric & Chromaticity Report

Logic GZS: 60x1 Filter - Red Only



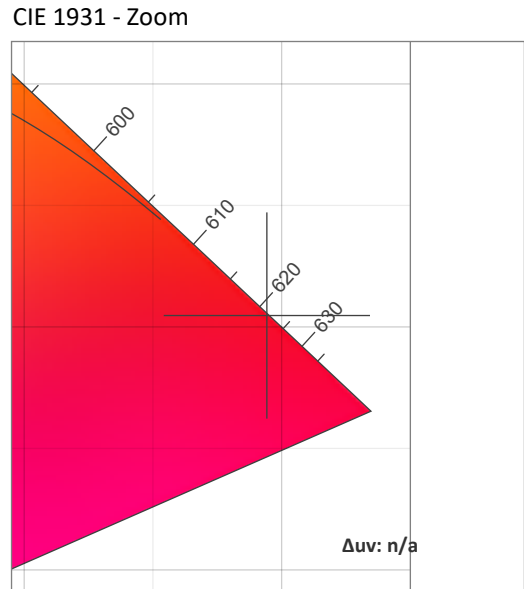
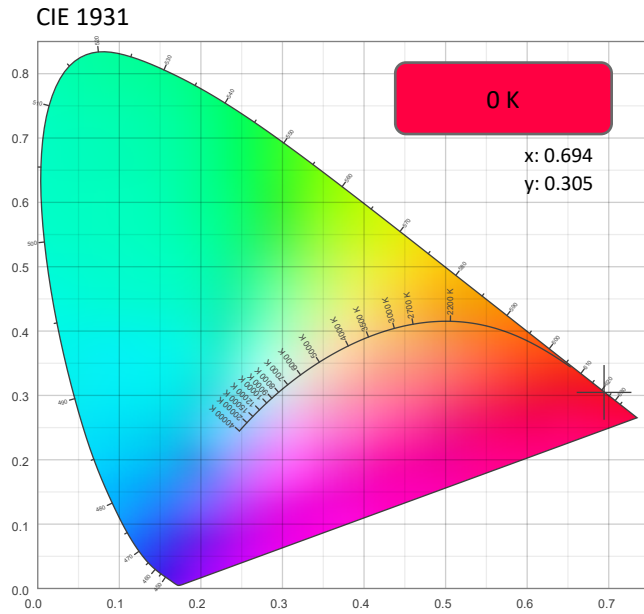
ISO Diagrams



Photometric & Chromaticity Report

Logic GZS: 60x1 Filter - 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	0.694	0.305

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.305	0.527

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

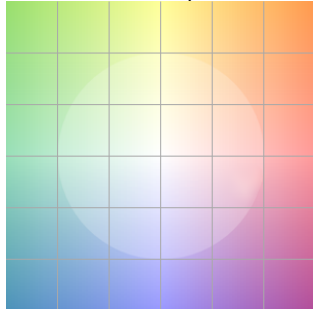
Logic GZS: 60x1 Filter - Red Only

TM-30 Details

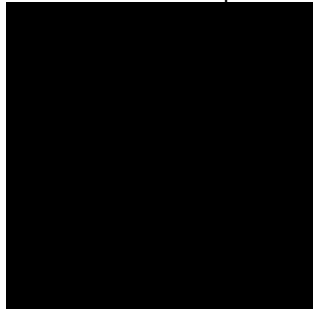
Rf 0.0
Fidelity Index
(Rg)

Rg 0.0
Gammut Index (Rg)

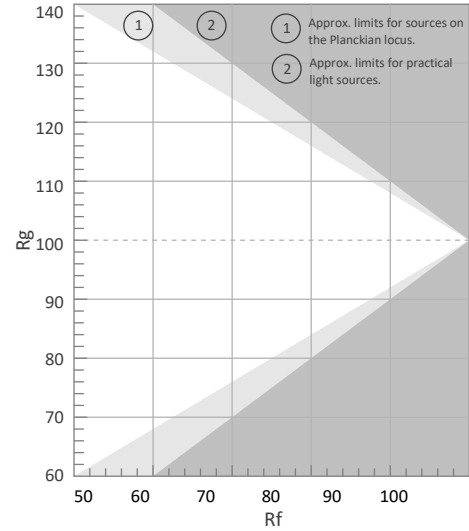
Color Vector Graphic



Color Distortion Graphic



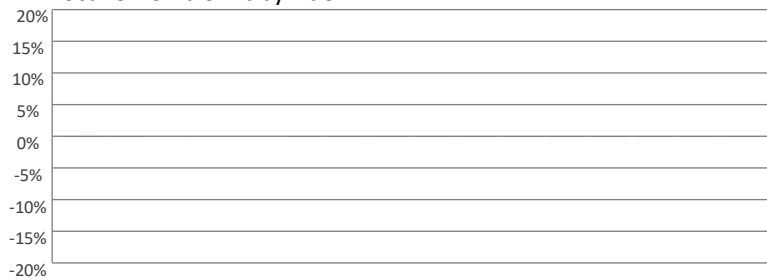
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



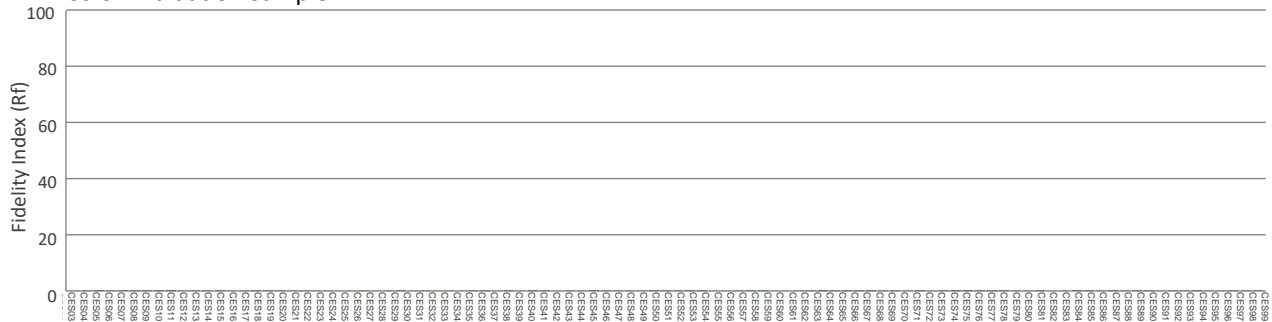
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZS: 60x1 Filter - Green Only

Report Summary

Measurements

Fixture Output: 259 lm

Fixture Peak: 374 cd

Fixture Efficacy: 15 lm/W

Intensity @ 5m: 15 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%): 35.4°

Field Angle (10%): 78.7°

Cutoff Angle (3%): 117.8°

Conditions

AC Supply: 119 V, 60 Hz

Power: 19.58 W

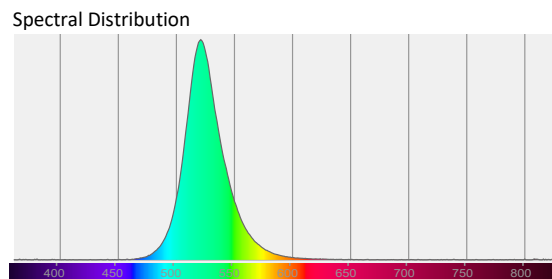
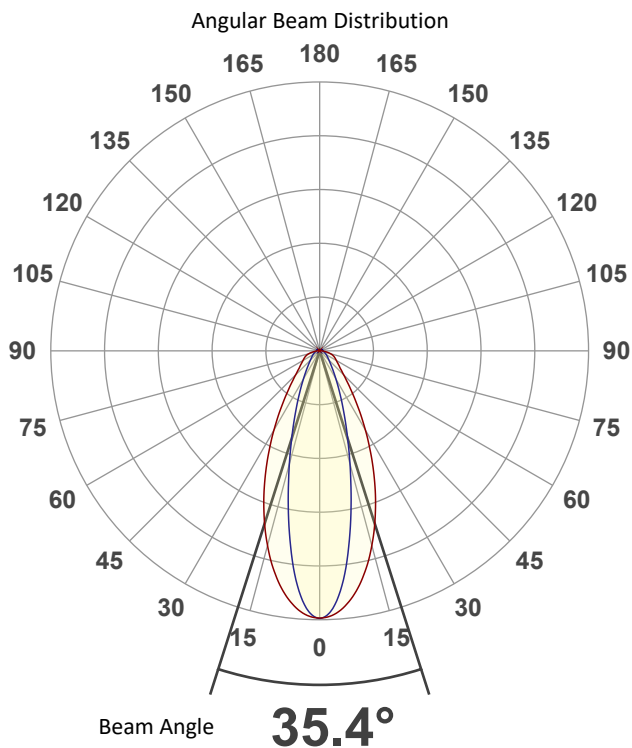
Current: 0.164 A

Power Factor: 0.86



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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.175

Y: 0.725



Light Quality

CRI: 0.0

Color Temperature

0 K

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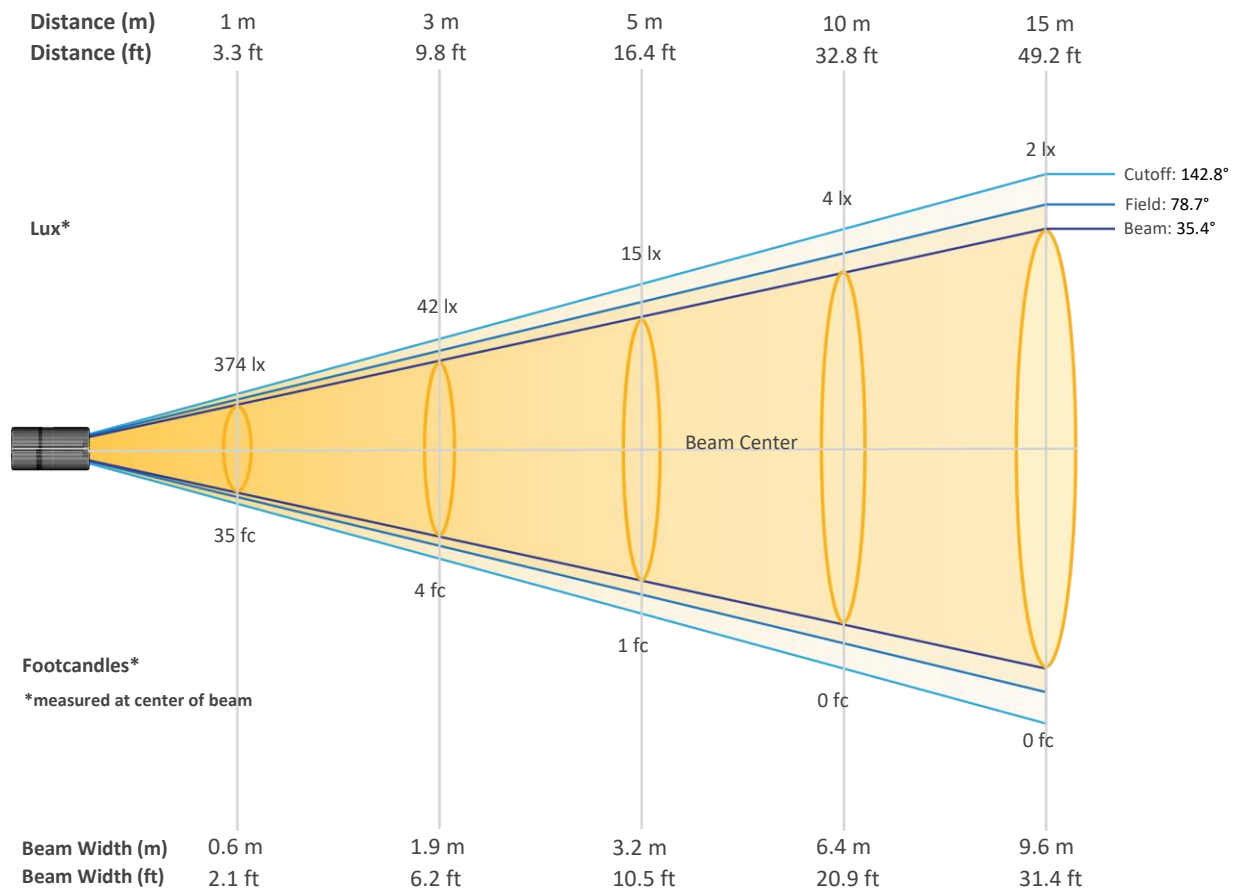
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Photometric & Chromaticity Report

Logic GZS: 60x1 Filter - 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	374	93	42	23	15	10	8	6	5	4
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	3	3	2	2	2	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	35	9	4	2	1	1	1	1	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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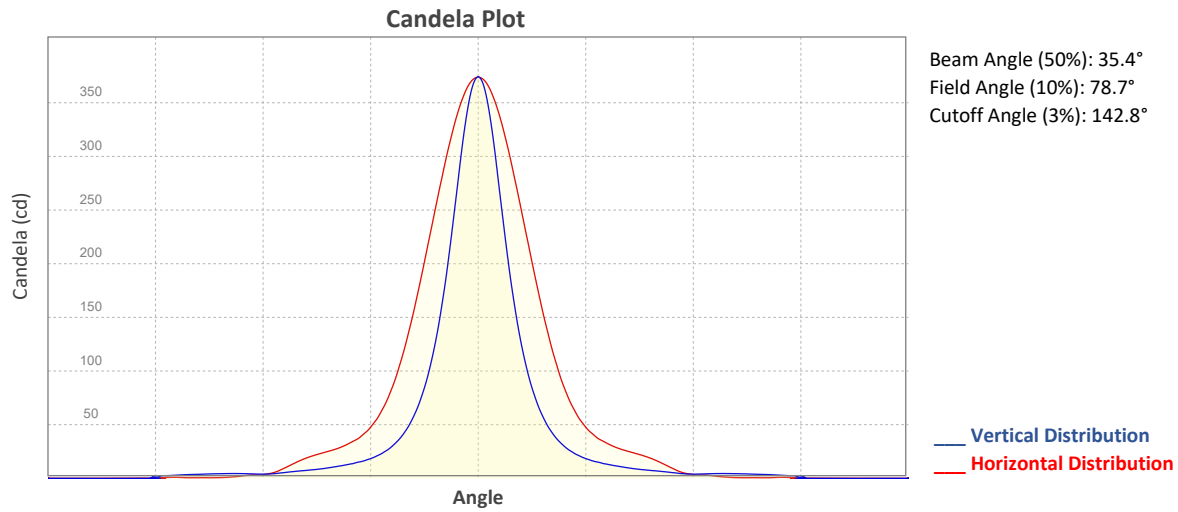
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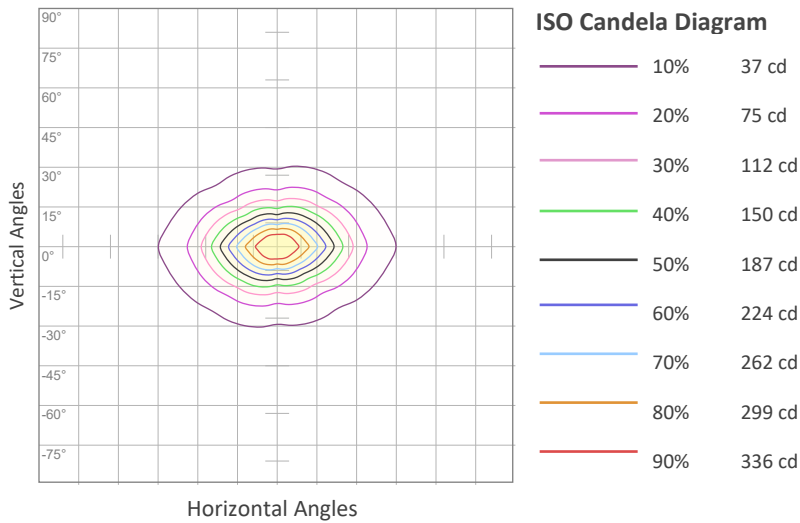
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Photometric & Chromaticity Report

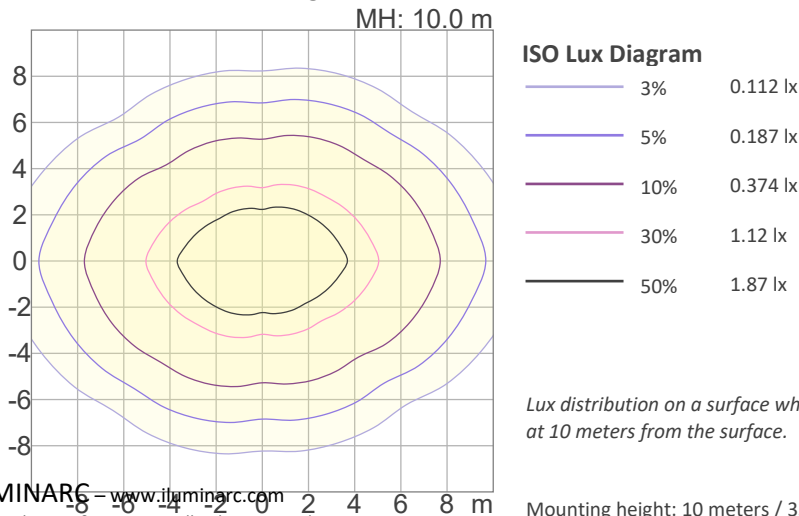
Logic GZS: 60x1 Filter - Green Only



ISO Diagrams



Conditions:
 Number of c-planes: 8
 Candela at center: 374 cd



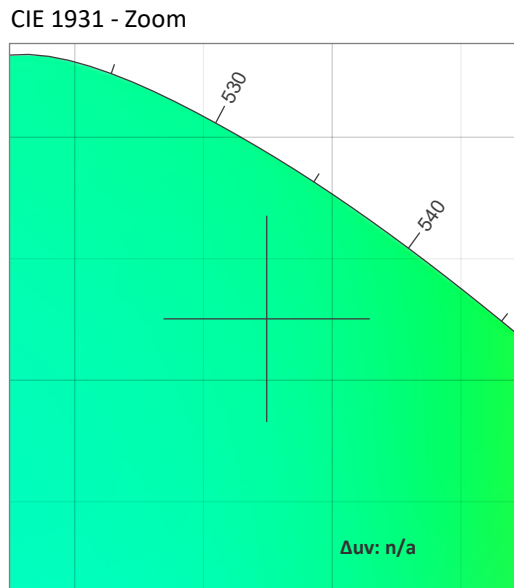
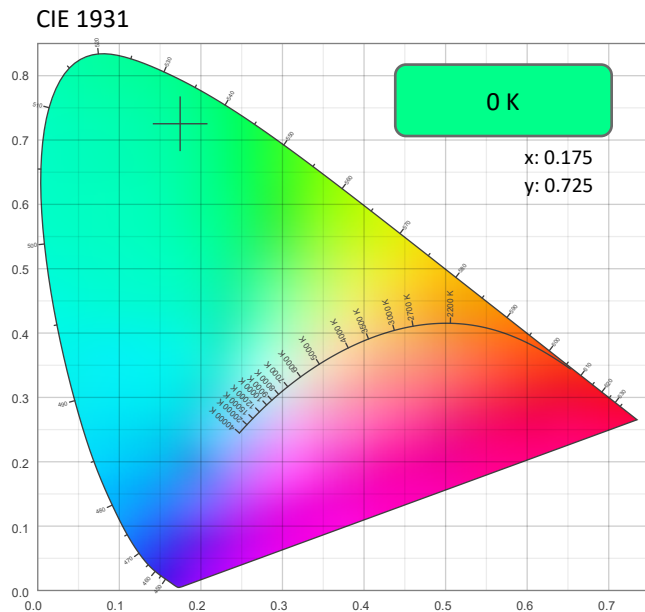
Conditions:
 Number of c-planes: 8
 Candela at center: 3.74 lx

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

Photometric & Chromaticity Report

Logic GZS: 60x1 Filter - 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	0.175	0.725

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.725	0.061

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

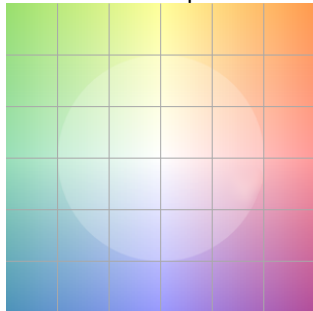
Logic GZS: 60x1 Filter - Green Only

TM-30 Details

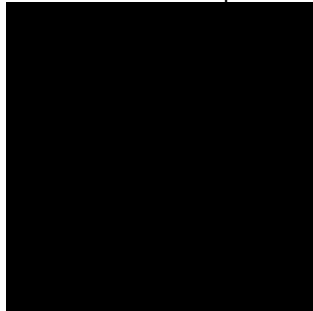
Rf 0.0
Fidelity Index
(Rg)

Rg 0.0
Gammut Index (Rg)

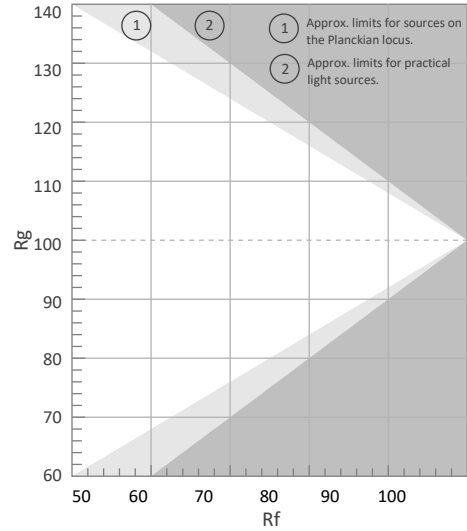
Color Vector Graphic



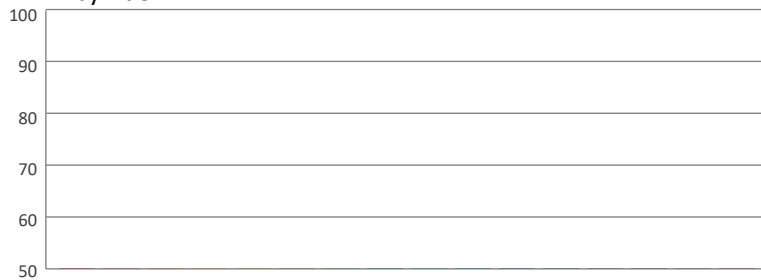
Color Distortion Graphic



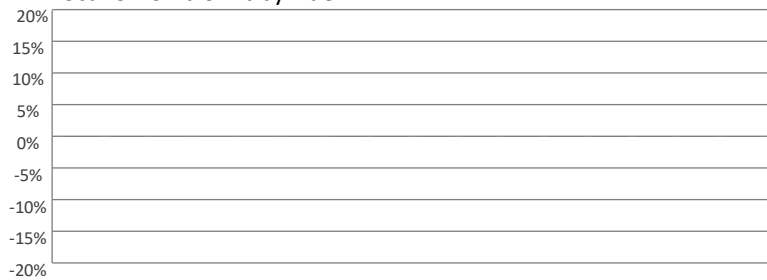
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



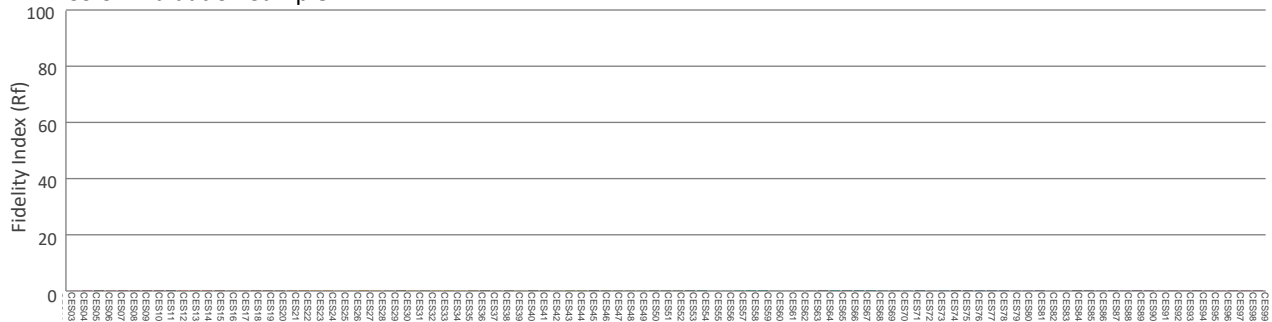
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZS: 60x1 Filter - Blue Only

Report Summary

Measurements

Fixture Output: 98.2 lm

Fixture Peak: 121 cd

Fixture Efficacy: 6 lm/W

Intensity @ 5m: 5 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%): 39.8°

Field Angle (10%): 84.9°

Cutoff Angle (2%): 168.2°

Conditions

AC Supply: 120 V, 60 Hz

Power: 19.86 W

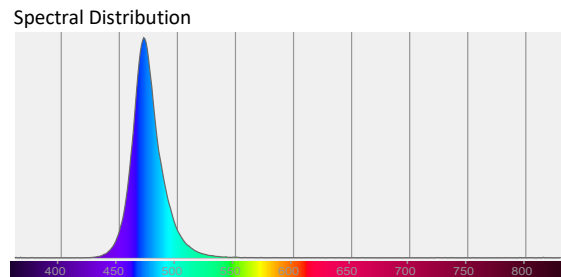
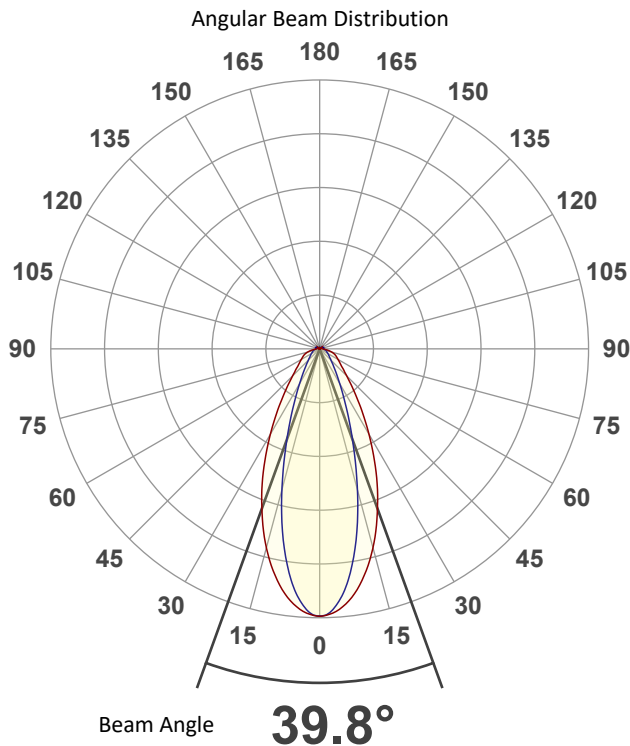
Current: 0.166 A

Power Factor: 0.86



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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.119

Y: 0.098



Light Quality

CRI: 0.0

Color Temperature

0 K

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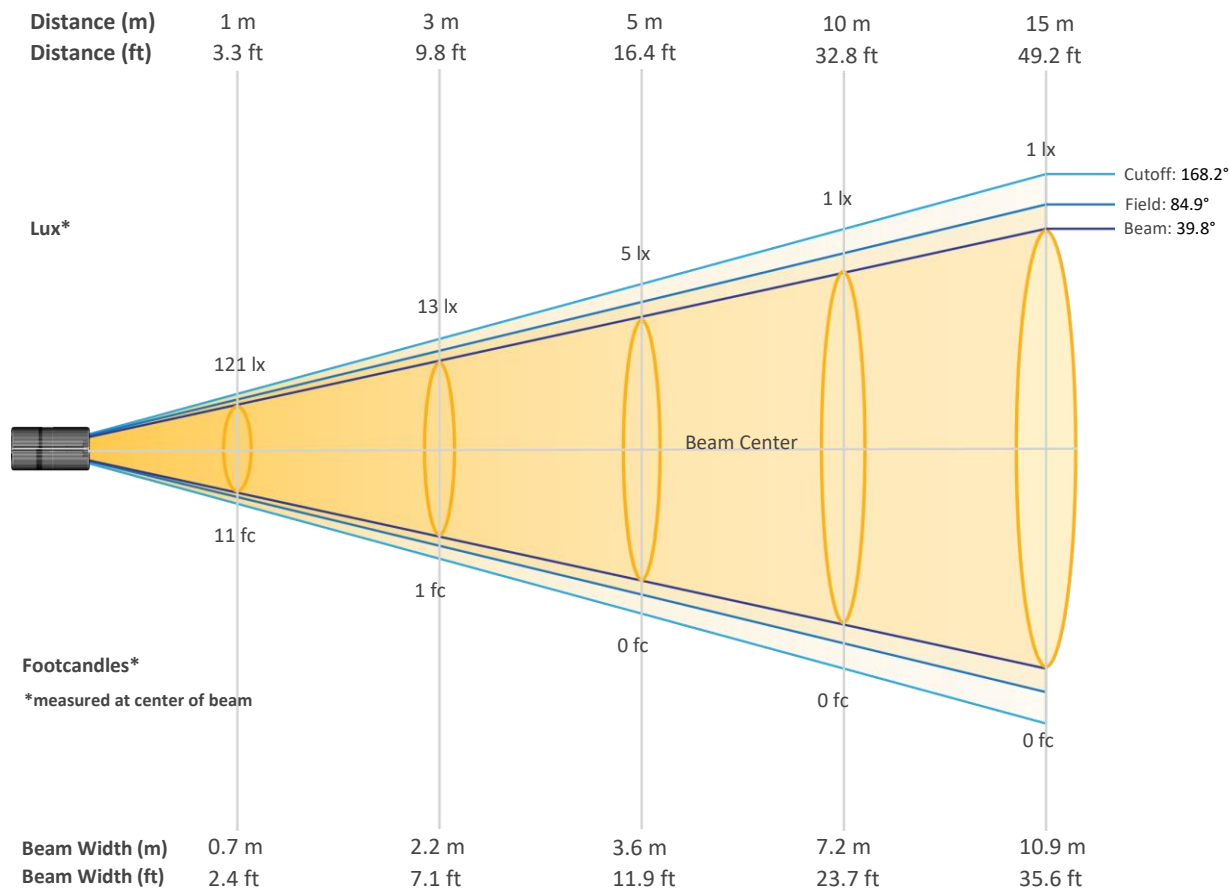
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Photometric & Chromaticity Report

Logic GZS: 60x1 Filter - 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	121	30	13	8	5	3	2	2	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	1	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	11	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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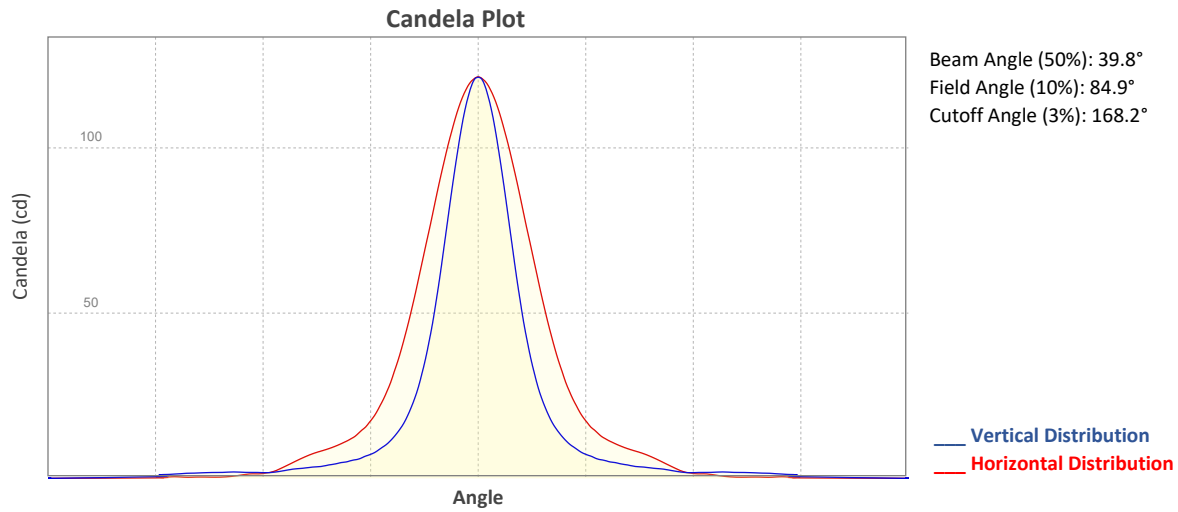
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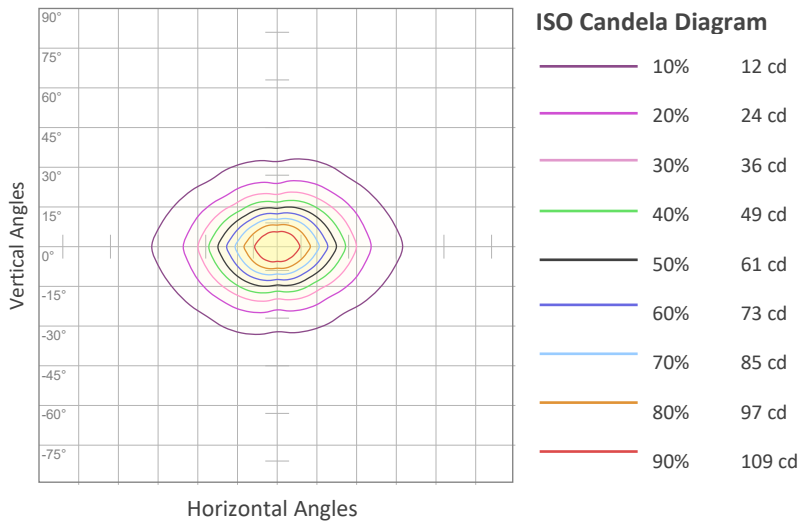
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Photometric & Chromaticity Report

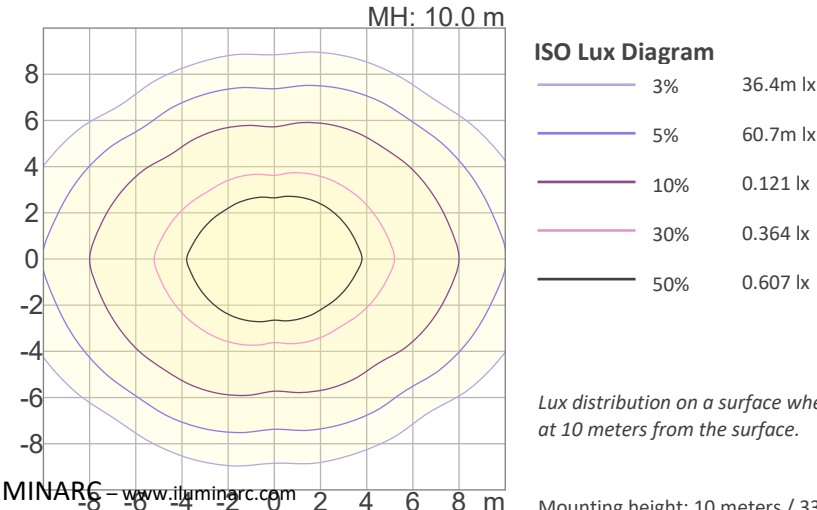
Logic GZS: 60x1 Filter - Blue Only



ISO Diagrams



Conditions:
 Number of c-planes: 8
 Candela at center: 121 cd



Conditions:
 Number of c-planes: 8
 Candela at center: 1.21 lx

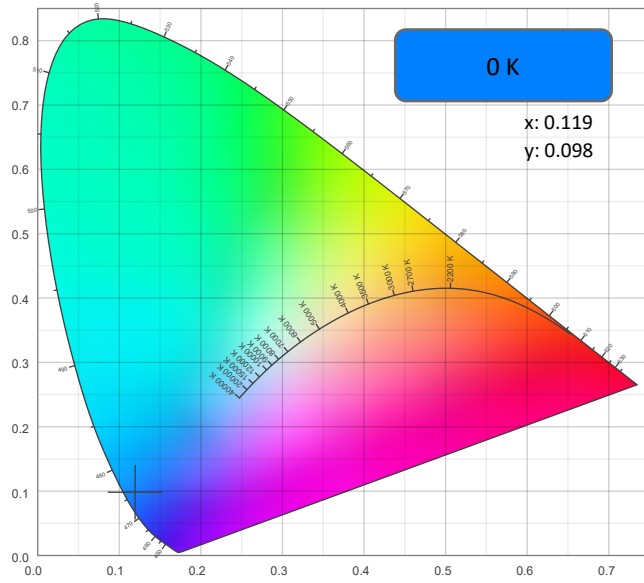
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Photometric & Chromaticity Report

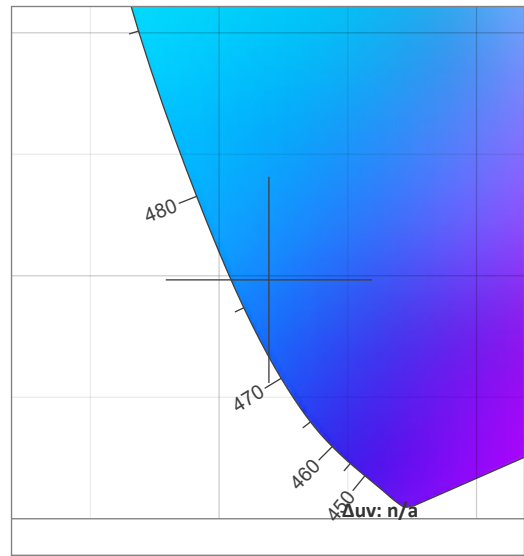
Logic GZS: 60x1 Filter - Blue Only

Chromaticity

CIE 1931



CIE 1931 - Zoom



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	0.119	0.098

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.098	0.121

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

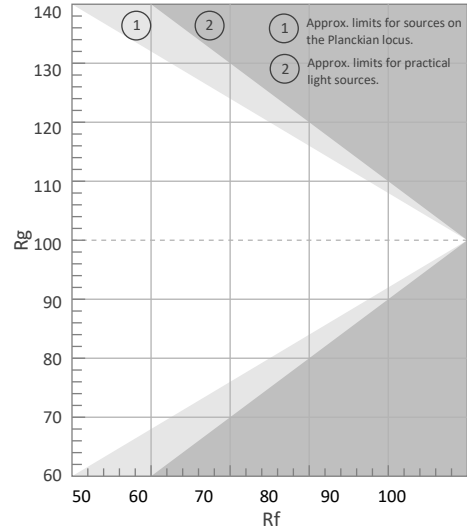
Logic GZS: 60x1 Filter - Blue Only

TM-30 Details

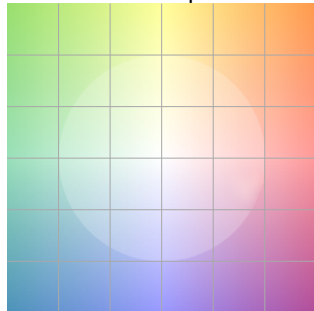
Rf 0.0
Fidelity Index (Rg)

Rg 0.0
Gammut Index (Rg)

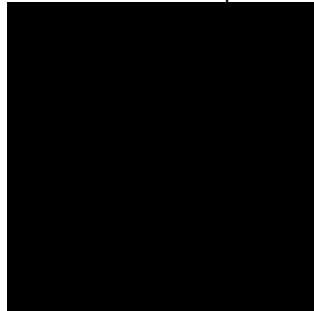
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



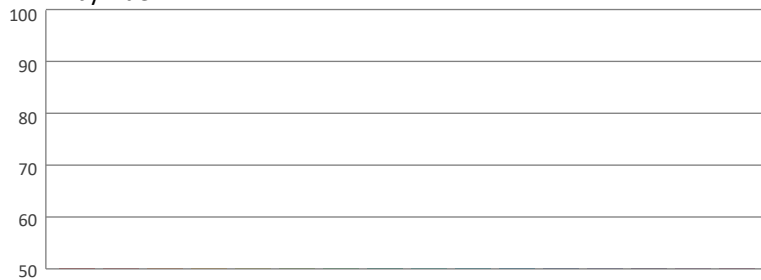
Color Vector Graphic



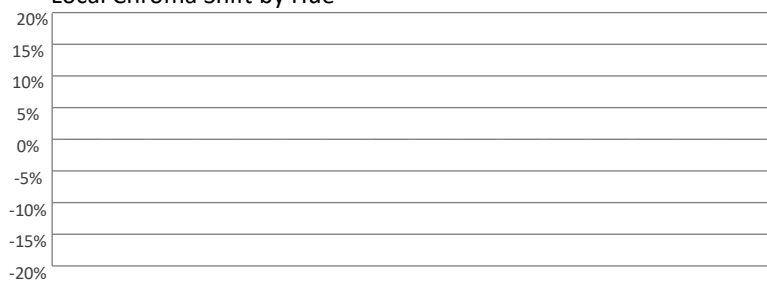
Color Distortion Graphic



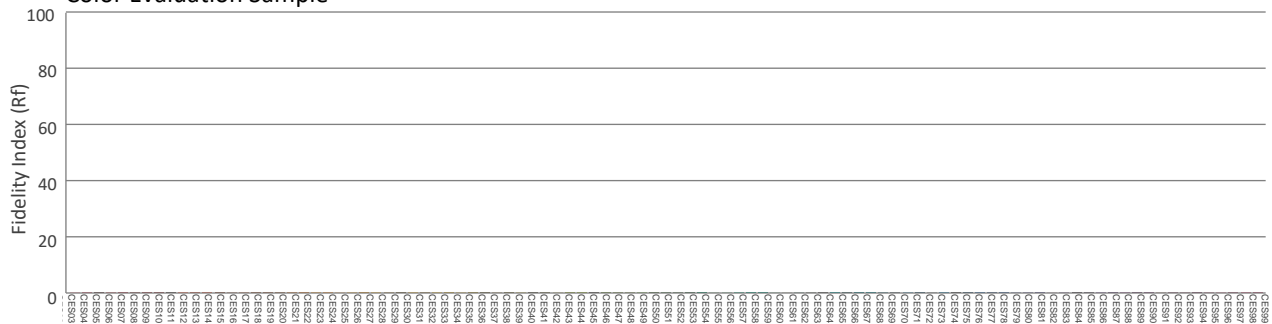
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZS: 60x1 Filter - Warm White Only

Report Summary

Measurements

Fixture Output: 401 lm

Fixture Peak: 535 cd

Fixture Efficacy: 24 lm/W

Intensity @ 5m: 21 lux

Color Temperature: 3014 K

CRI: 84.4 CRI R9 Value: 14.1

CQS: 83.5

TLCI: 73

TM-30 Rf: 85.6

TM-30 Rg: 94.9

Beam Angle (50%): 38.7°

Field Angle (10%): 81.8°

Cutoff Angle (3%): 117.9°

Conditions

AC Supply: 120 V, 60 Hz

Power: 19.8 W

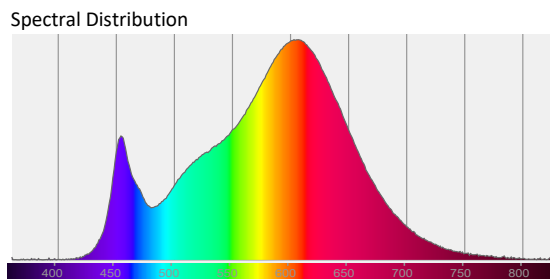
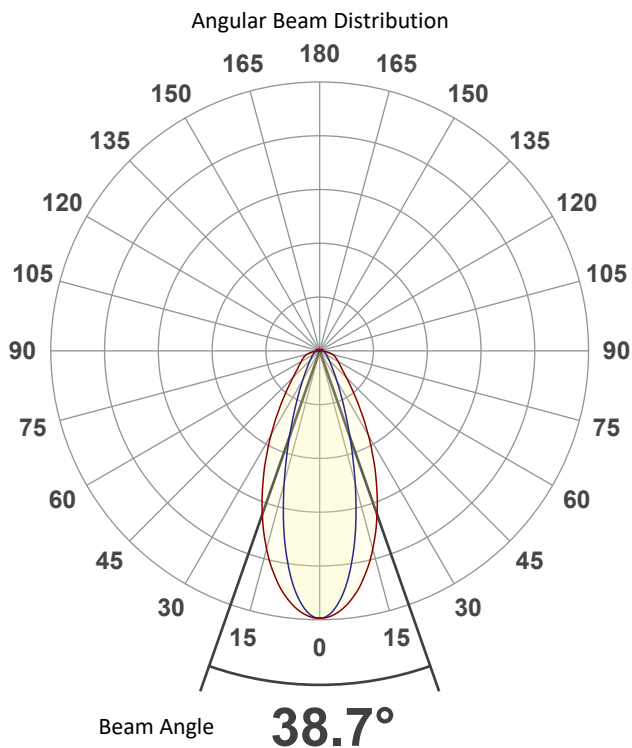
Current: 0.166 A

Power Factor: 0.86



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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.434

Y: 0.400



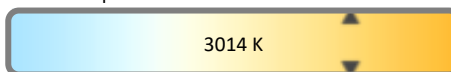
Light Quality

CRI: 84.4



Color Temperature

3014 K



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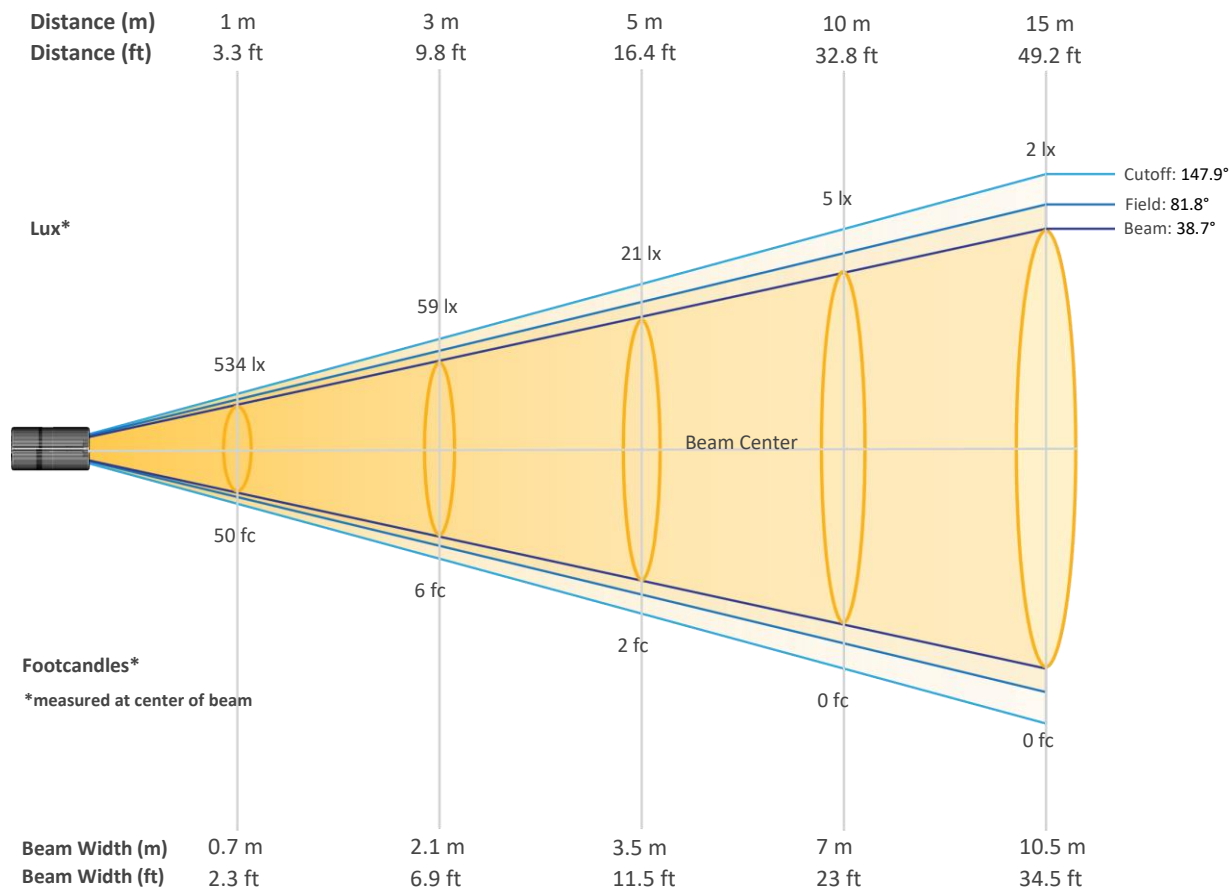
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Photometric & Chromaticity Report

Logic GZS: 60x1 Filter - 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	534	134	59	33	21	15	11	8	7	5
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	4	4	3	3	2	2	2	2	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	50	12	6	3	2	1	1	1	1	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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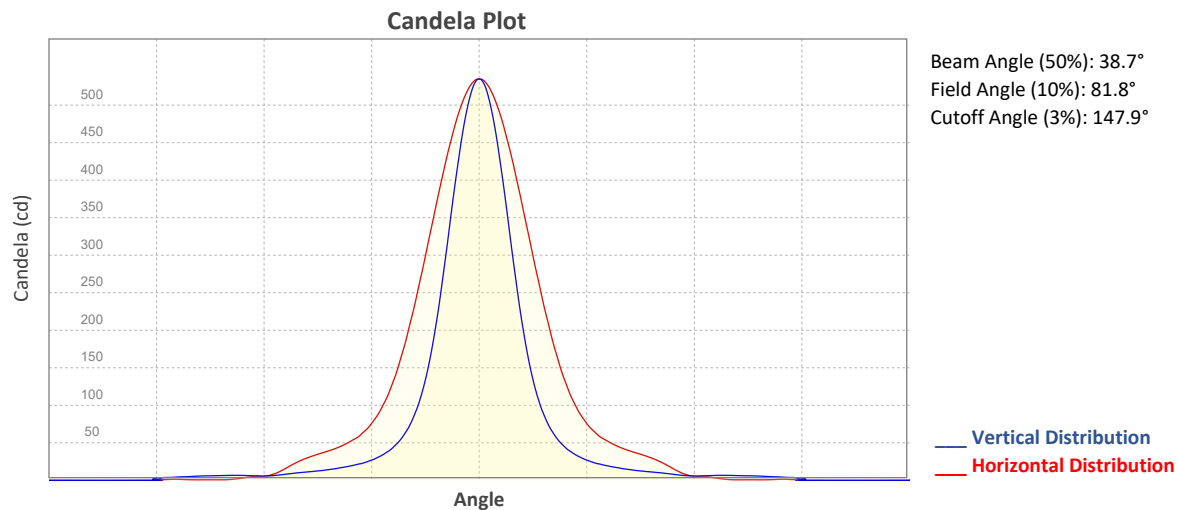
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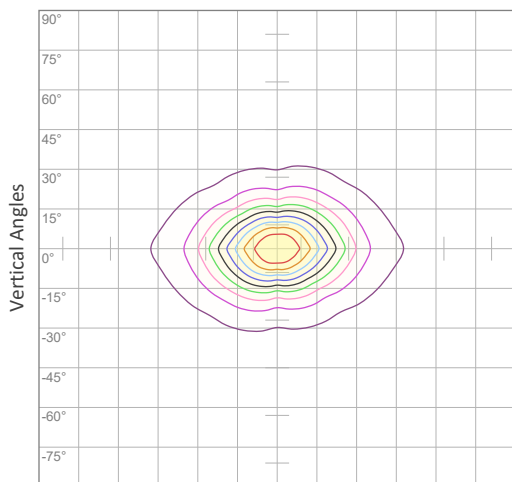
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Photometric & Chromaticity Report

Logic GZS: 60x1 Filter - Warm White Only



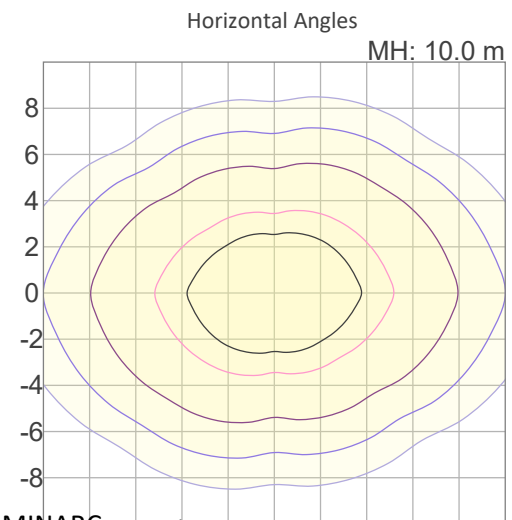
ISO Diagrams



ISO Candela Diagram

10%	53 cd
20%	107 cd
30%	160 cd
40%	214 cd
50%	267 cd
60%	321 cd
70%	374 cd
80%	428 cd
90%	481 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 534 cd



ISO Lux Diagram

3%	0.160 lx
5%	0.267 lx
10%	0.534 lx
30%	1.60 lx
50%	2.67 lx

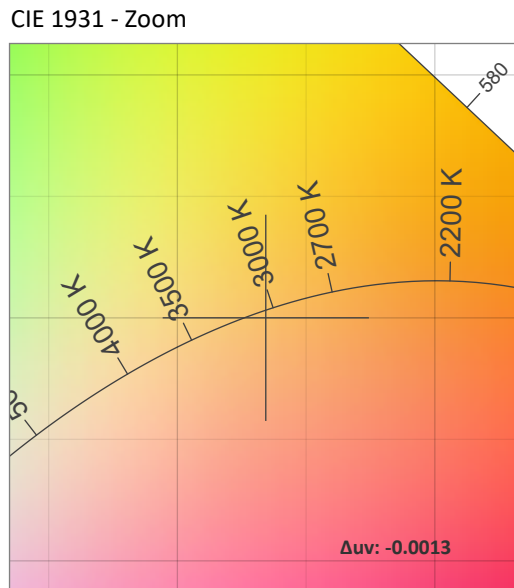
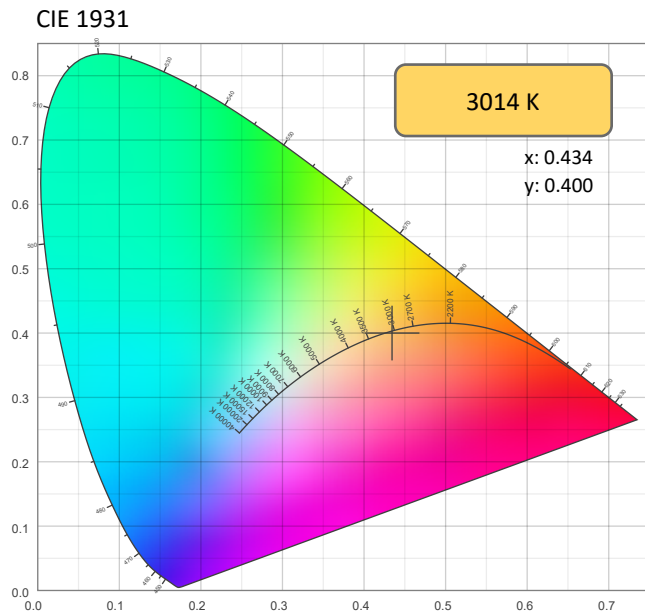
Conditions:
 Number of c-planes: 8
 Candela at center: 5.34 lx

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

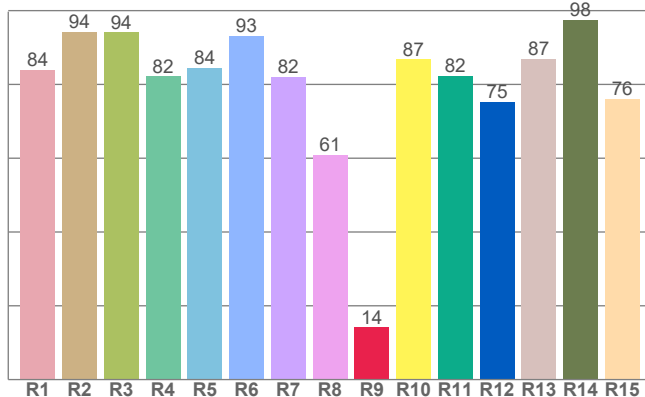
Photometric & Chromaticity Report

Logic GZS: 60x1 Filter - Warm White Only

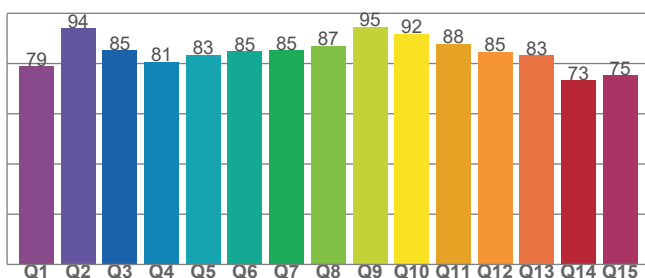
Chromaticity



CRI: 84.4 (R1-R8)



CQS: 83.5



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3014 K	0.434	0.400

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0013	0.400	0.251

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
84.4	14.1	83.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
73	85.6	94.9

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Photometric & Chromaticity Report

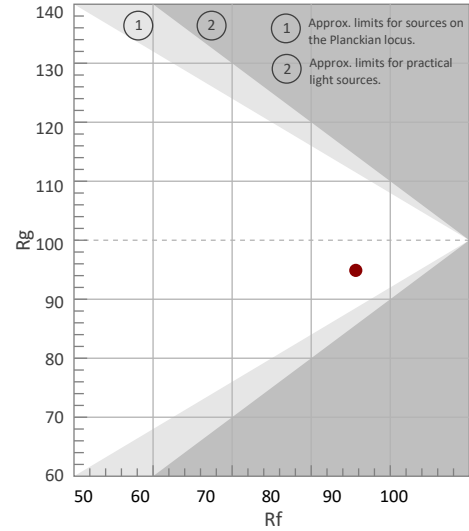
Logic GZS: 60x1 Filter - Warm White Only

TM-30 Details

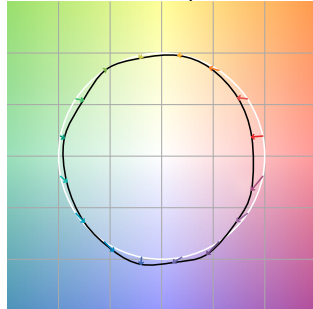
Rf 85.6
Fidelity Index (Rg)

Rg 94.9
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	81	-11%	1%
2	83	-7%	6%
3	82	-3%	9%
4	92	-1%	3%
5	92	-3%	2%
6	94	0%	-2%
7	88	-7%	-3%
8	92	-4%	1%
9	87	-5%	7%
10	82	-2%	11%
11	83	2%	12%
12	86	7%	1%
13	87	3%	-9%
14	80	4%	-16%
15	80	-4%	-12%
16	77	-8%	-15%



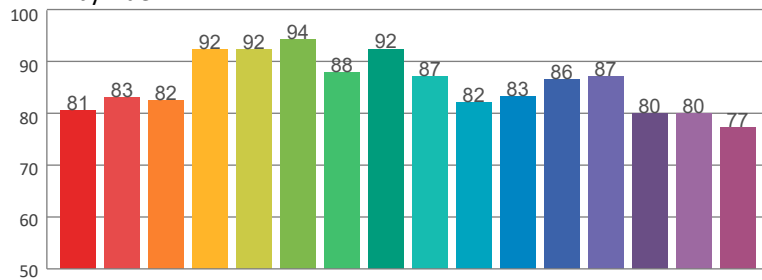
Color Vector Graphic



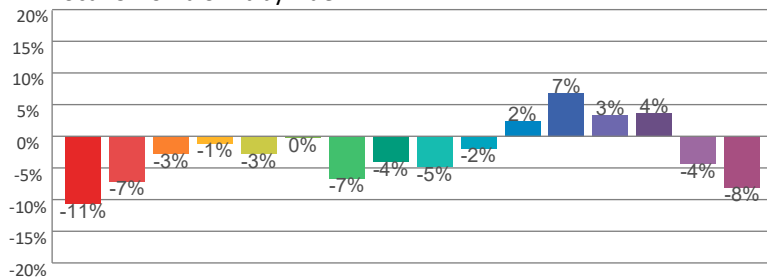
Color Distortion Graphic



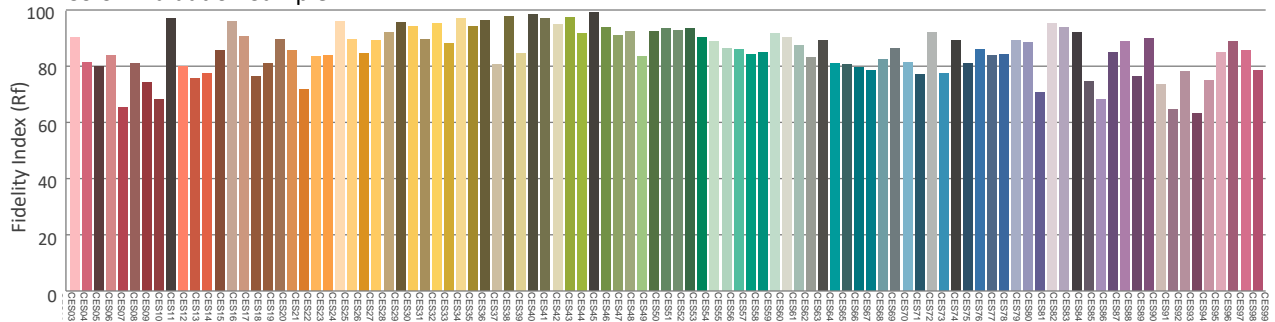
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: 90x1 Filter - RGBW - Full Power

Report Summary

Measurements

Fixture Output: 571 lm
Fixture Peak: 463 cd
Fixture Efficacy: 25 lm/W
Intensity @ 5m: 18 lux
Color Temperature: 5555 K
CRI: 75.3 CRI R9 Value: 43.2
CQS: 81.0
TLCI: 77
TM-30 Rf: 74.8
TM-30 Rg: 92.4
Beam Angle (50%): 61.5°
Field Angle (10%): 102.8°
Cutoff Angle (2%): 201.1°

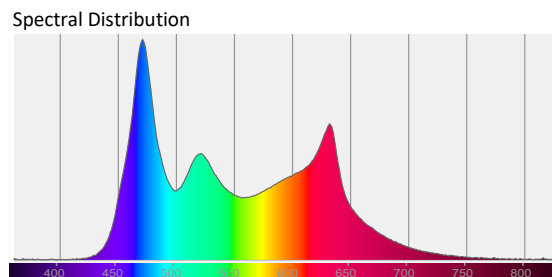
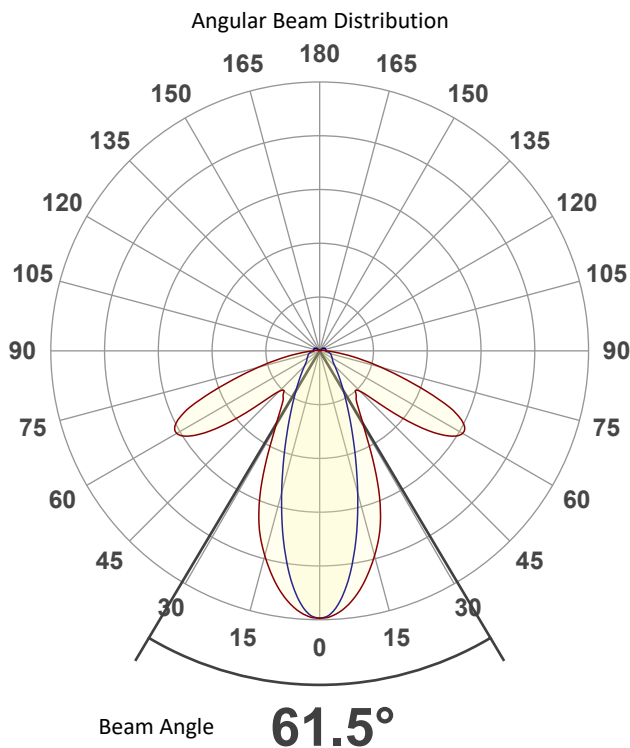
Conditions

AC Supply: 119 V, 60 Hz
Power: 25.37 W
Current: 0.213 A
Power Factor: 0.91



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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.331

Y: 0.338

Light Quality

CRI: 75.3

Color Temperature

5555 K

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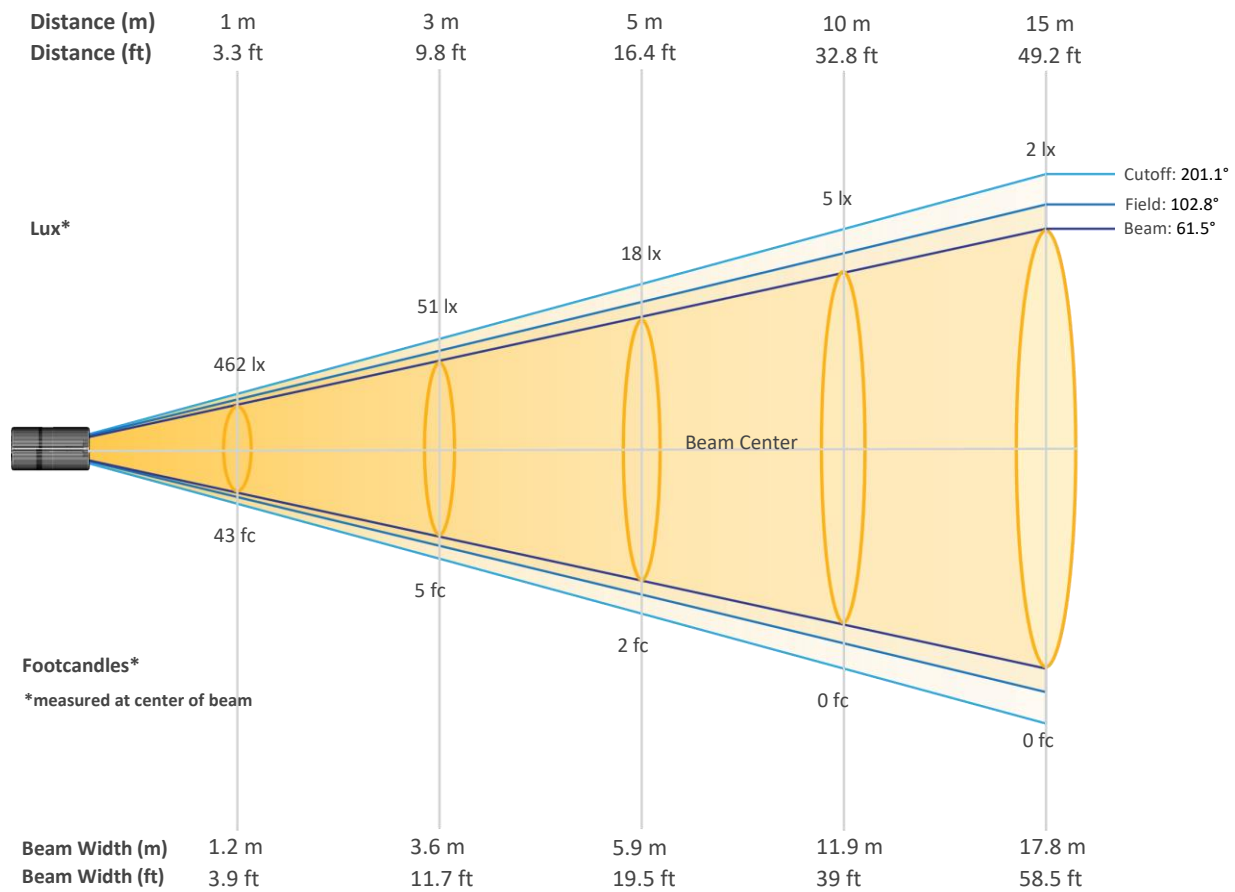
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Photometric & Chromaticity Report

Logic GZS: 90x1 Filter - 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	462	116	51	29	18	13	9	7	6	5
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	4	3	3	2	2	2	2	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	43	11	5	3	2	1	1	1	1	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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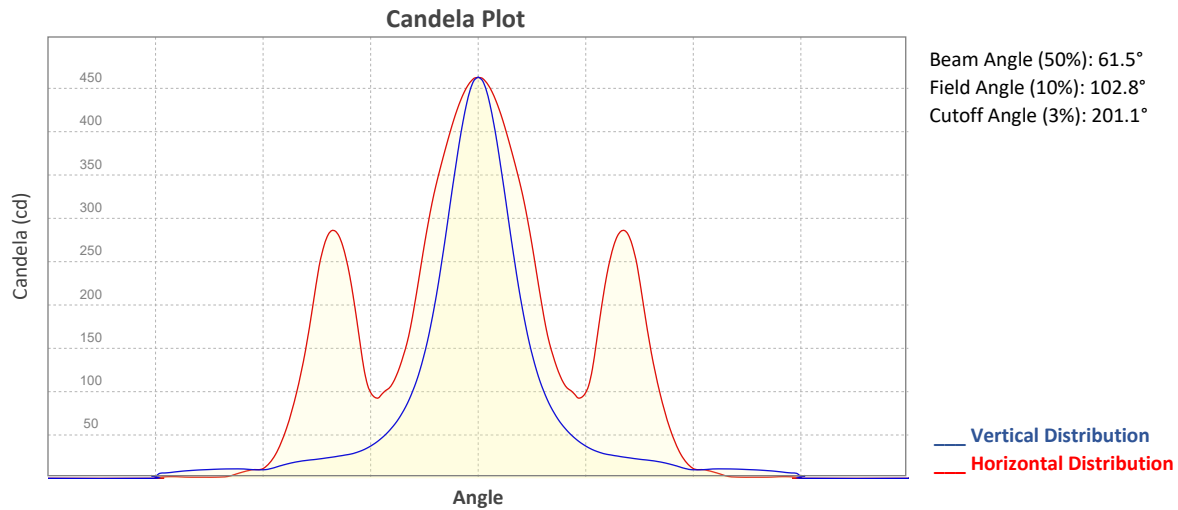
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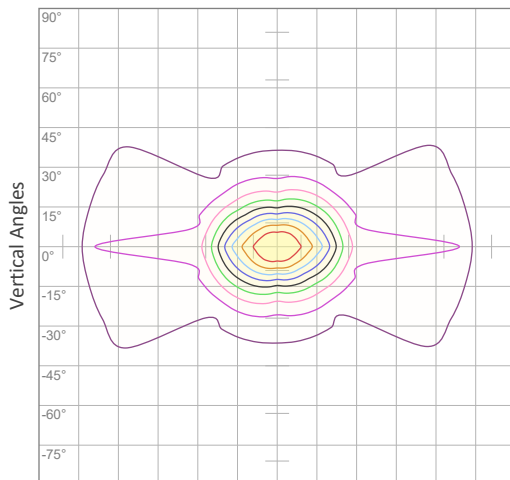
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Photometric & Chromaticity Report

Logic GZS: 90x1 Filter - RGBW - Full Power



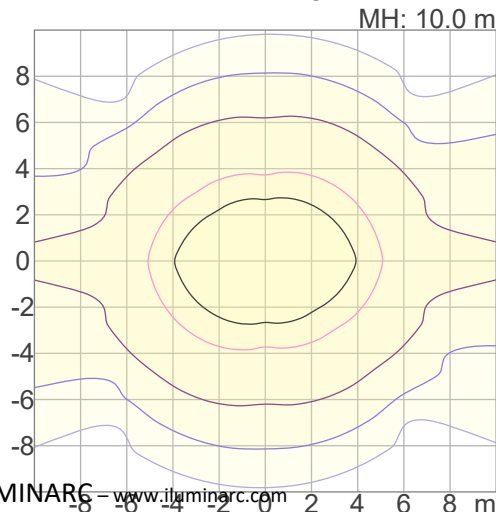
ISO Diagrams



ISO Candela Diagram

10%	46 cd
20%	92 cd
30%	139 cd
40%	185 cd
50%	231 cd
60%	277 cd
70%	324 cd
80%	370 cd
90%	416 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 462 cd



ISO Lux Diagram

3%	0.139 lx
5%	0.231 lx
10%	0.462 lx
30%	1.39 lx
50%	2.31 lx

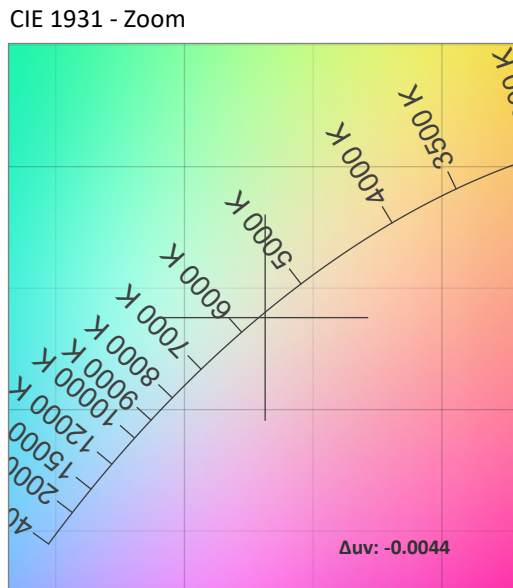
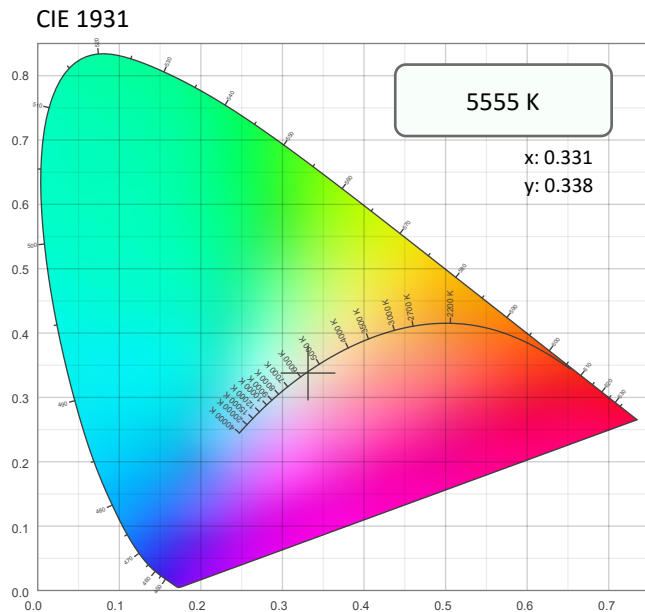
Conditions:
 Number of c-planes: 8
 Candela at center: 4.62 lx

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

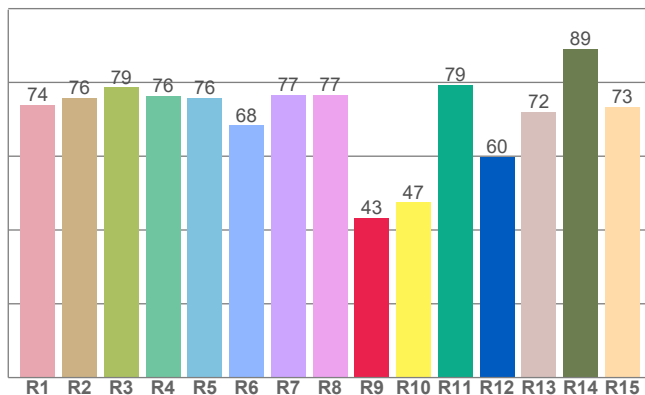
Photometric & Chromaticity Report

Logic GZS: 90x1 Filter - RGBW - Full Power

Chromaticity



CRI: 75.3 (R1-R8)

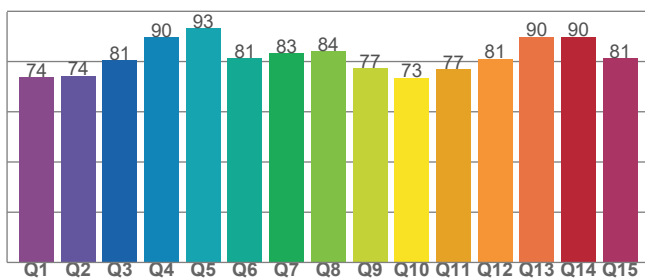


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5555 K	0.331	0.338

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0044	0.338	0.207

CQS: 81.0



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
75.3	43.2	81.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
77	74.8	92.4

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Photometric & Chromaticity Report

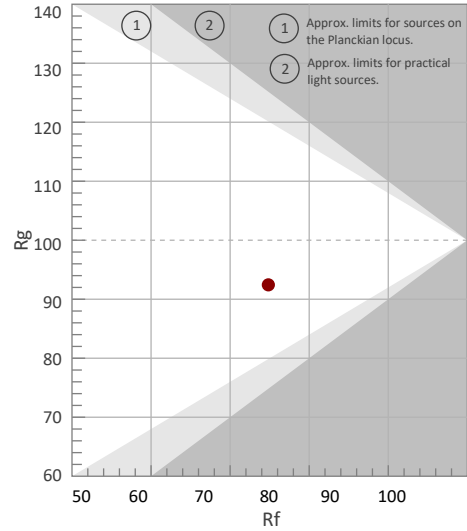
Logic GZS: 90x1 Filter - RGBW - Full Power

TM-30 Details

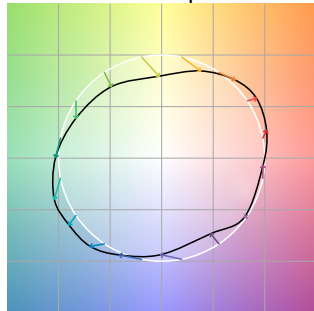
Rf 74.8
Fidelity Index
(Rg)

Rg 92.4
Gammut Index (Rg)

Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	81	5%	6%
2	85	9%	-3%
3	71	3%	-17%
4	64	-10%	-20%
5	65	-22%	-13%
6	77	-15%	2%
7	75	-9%	14%
8	68	1%	19%
9	77	10%	18%
10	81	11%	4%
11	75	10%	-10%
12	69	0%	-22%
13	76	-8%	-19%
14	78	-13%	-1%
15	82	-1%	-3%
16	79	-2%	12%



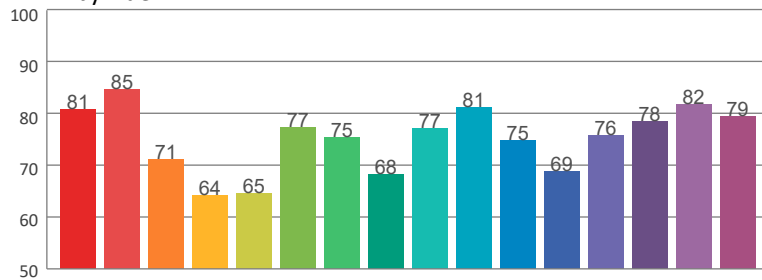
Color Vector Graphic



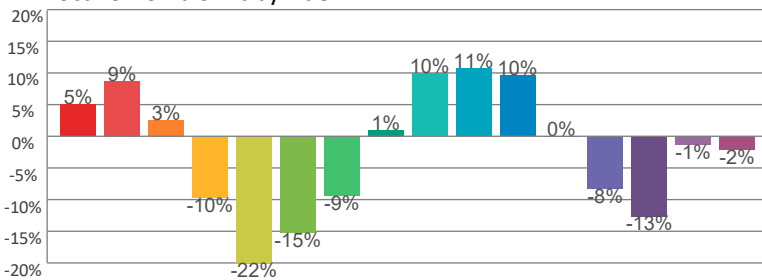
Color Distortion Graphic



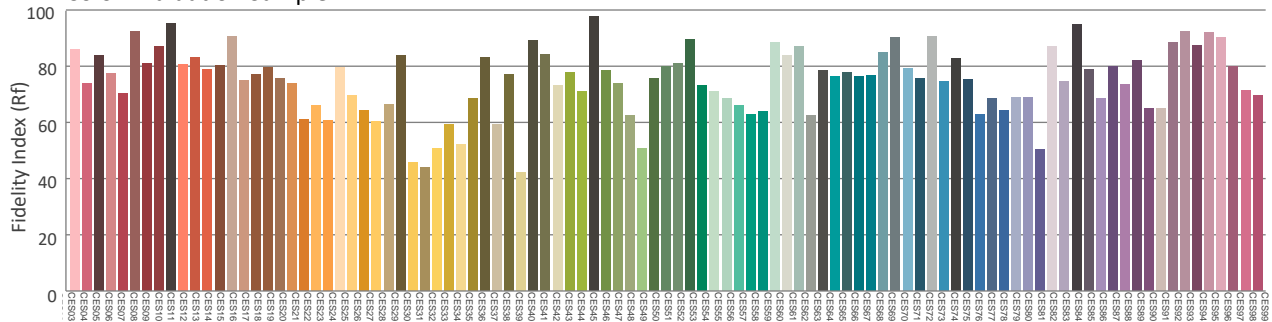
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: 90x1 Filter - Red Only

Report Summary

Measurements

Fixture Output: 119 lm

Fixture Peak: 102 cd

Fixture Efficacy: 7 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%): 58.9°

Field Angle (10%): 100.1°

Cutoff Angle (2%): 108.9°

Conditions

AC Supply: 120 V, 60 Hz

Power: 19.33 W

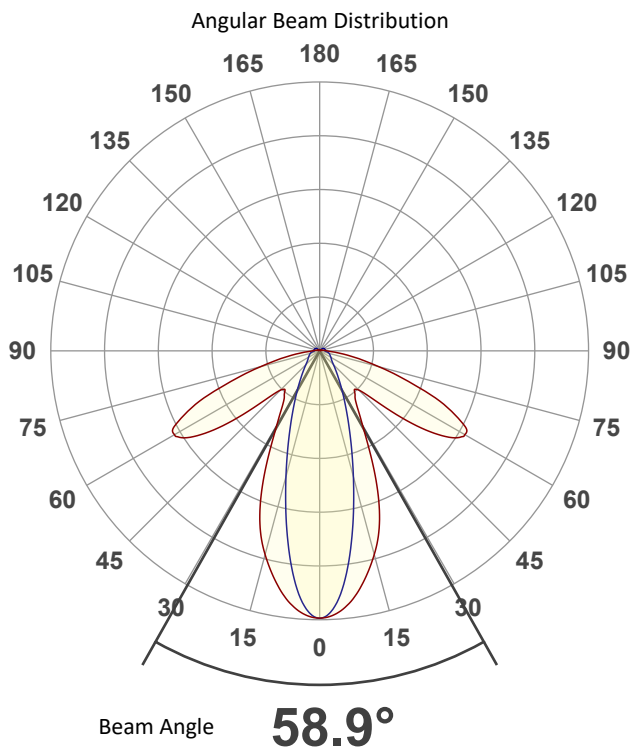
Current: 0.161 A

Power Factor: 0.85

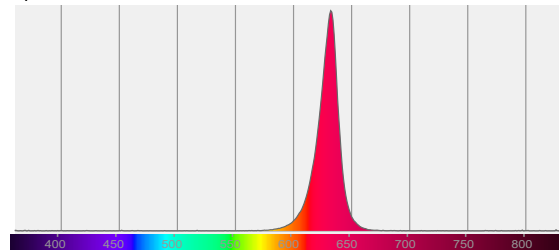


This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Spectral Distribution



Tested Color (CIE 1931):

X: 0.695

Y: 0.305



Light Quality

CRI: 0.0

Color Temperature

0 K

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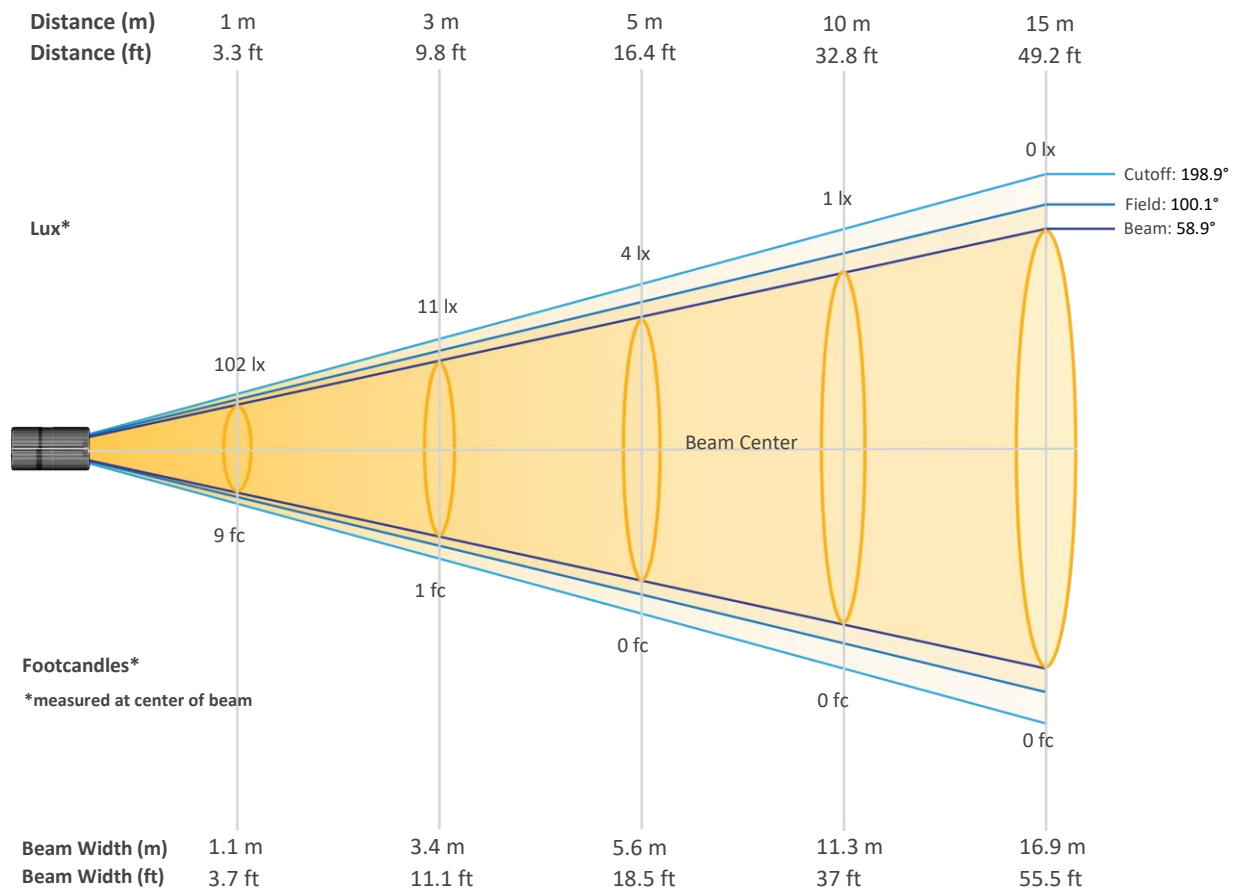
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Photometric & Chromaticity Report

Logic GZS: 90x1 Filter - 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	102	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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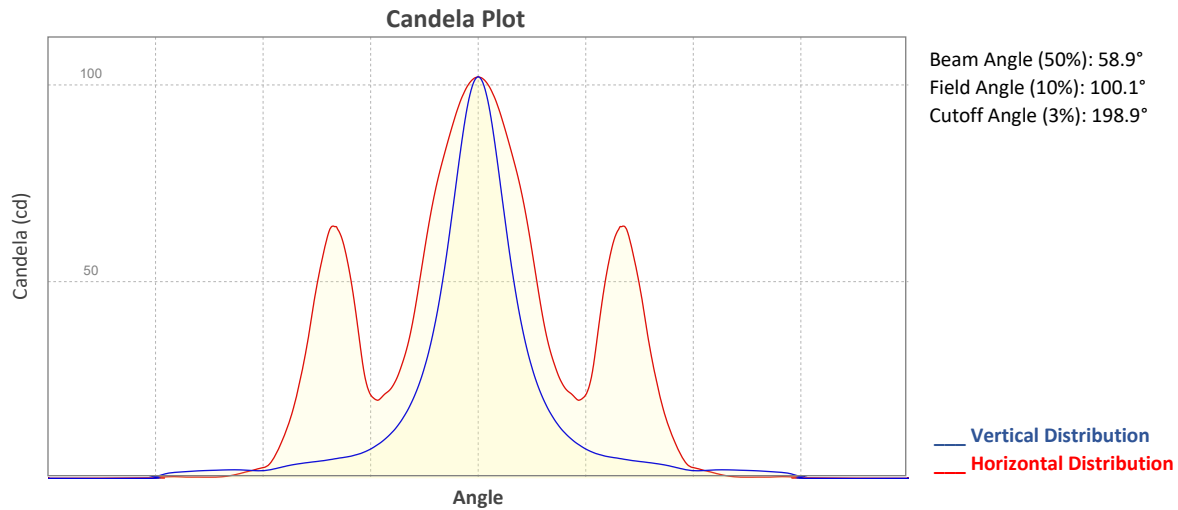
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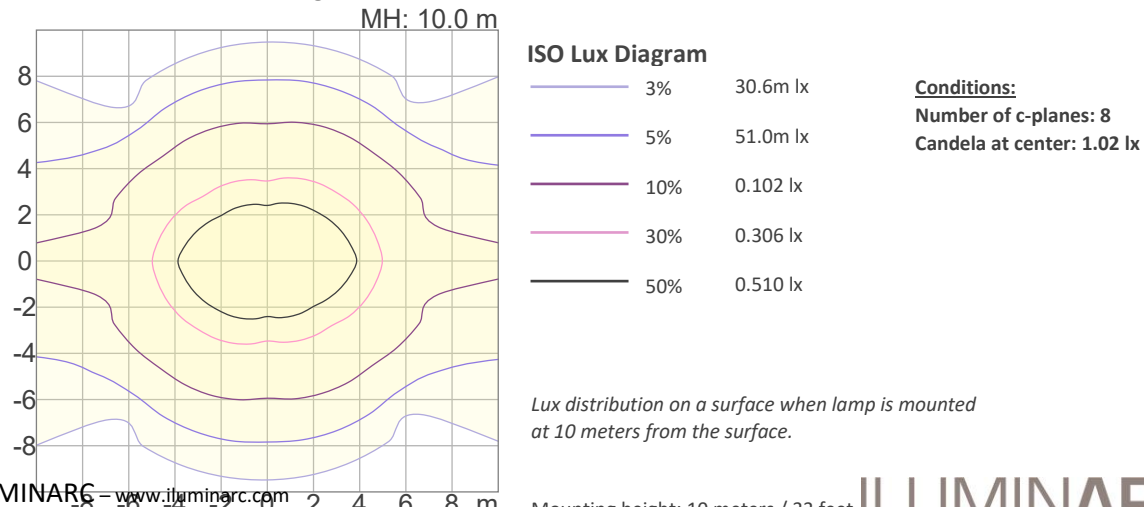
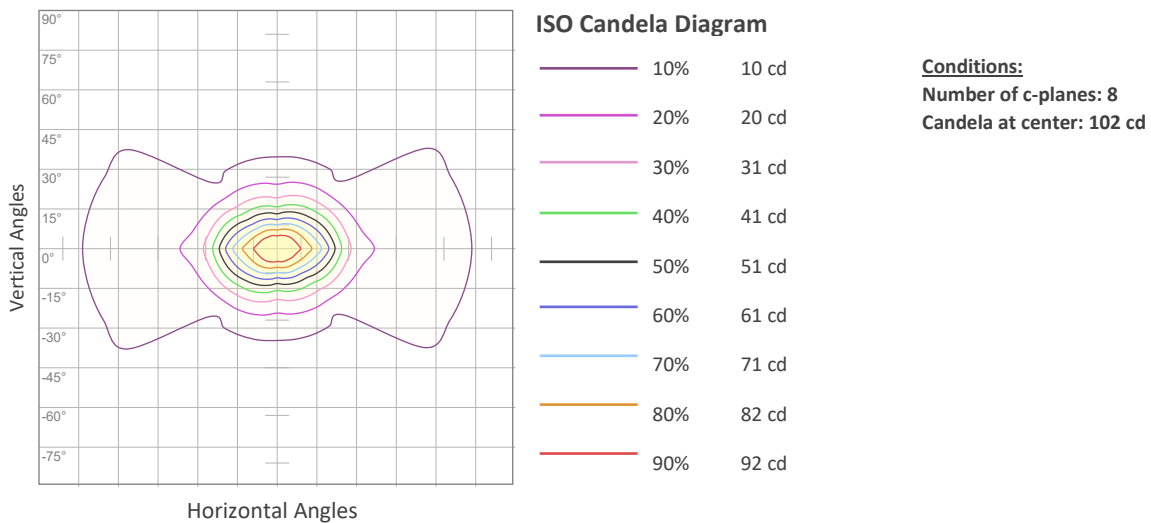
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Photometric & Chromaticity Report

Logic GZS: 90x1 Filter - Red Only



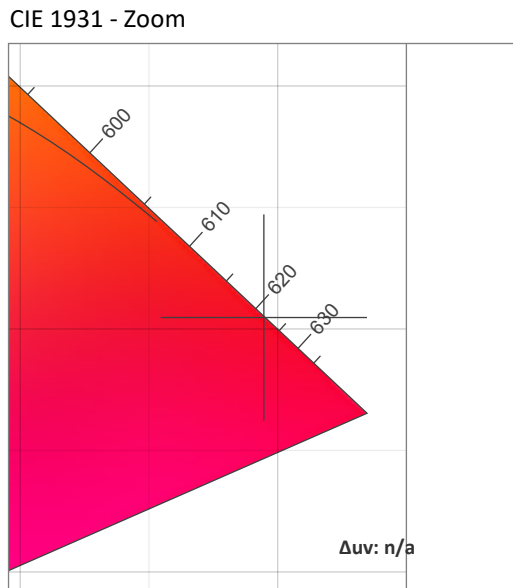
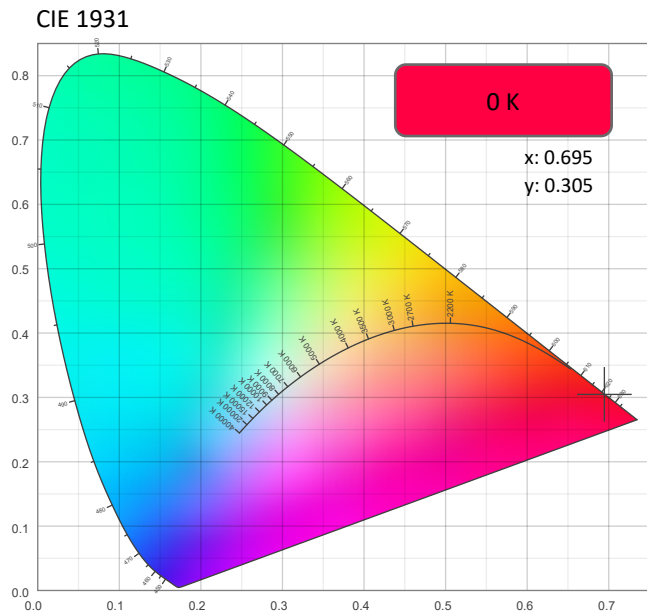
ISO Diagrams



Photometric & Chromaticity Report

Logic GZS: 90x1 Filter - 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	0.695	0.305

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.305	0.528

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

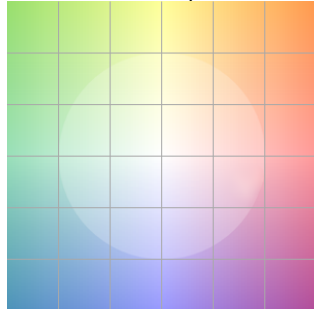
Logic GZS: 90x1 Filter - Red Only

TM-30 Details

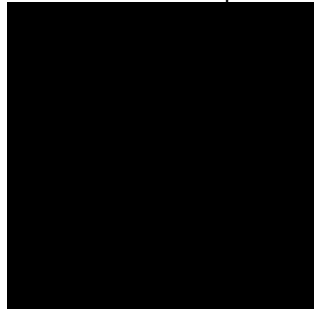
Rf 0.0
Fidelity Index
(Rg)

Rg 0.0
Gammut Index (Rg)

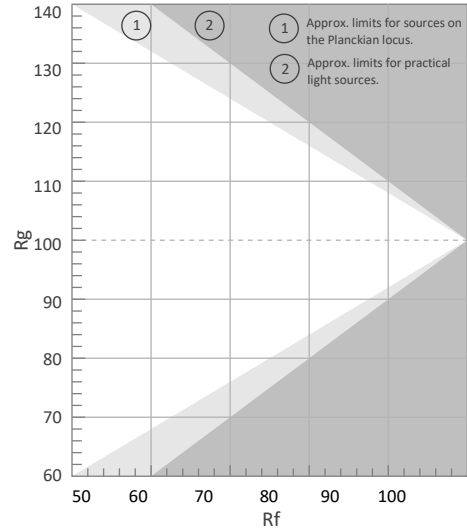
Color Vector Graphic



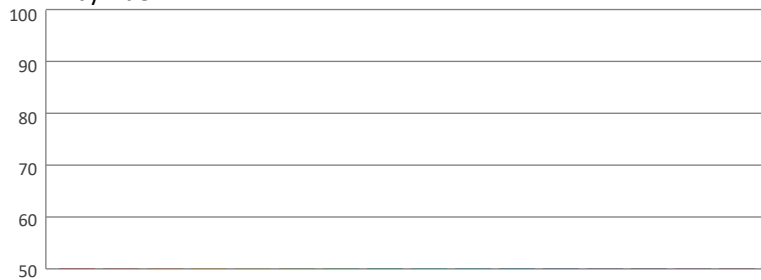
Color Distortion Graphic



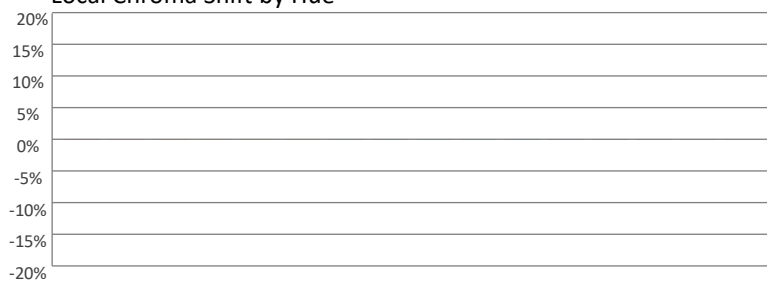
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
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13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



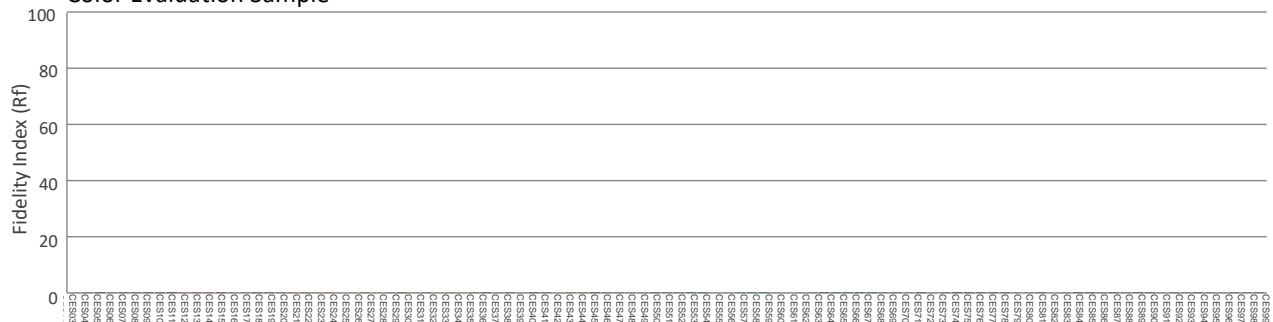
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZS: 90x1 Filter - Green Only

Report Summary

Measurements

Fixture Output: 251 lm

Fixture Peak: 207 cd

Fixture Efficacy: 15 lm/W

Intensity @ 5m: 8 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%): 59.9°

Field Angle (10%): 102.2°

Cutoff Angle (2%): 200.3°

Conditions

AC Supply: 120 V, 60 Hz

Power: 19.59 W

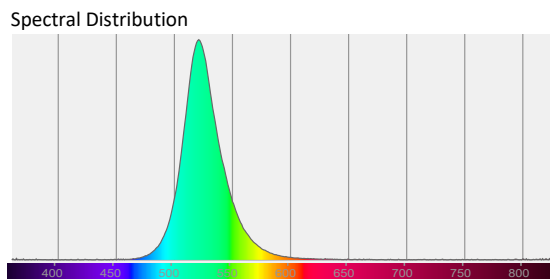
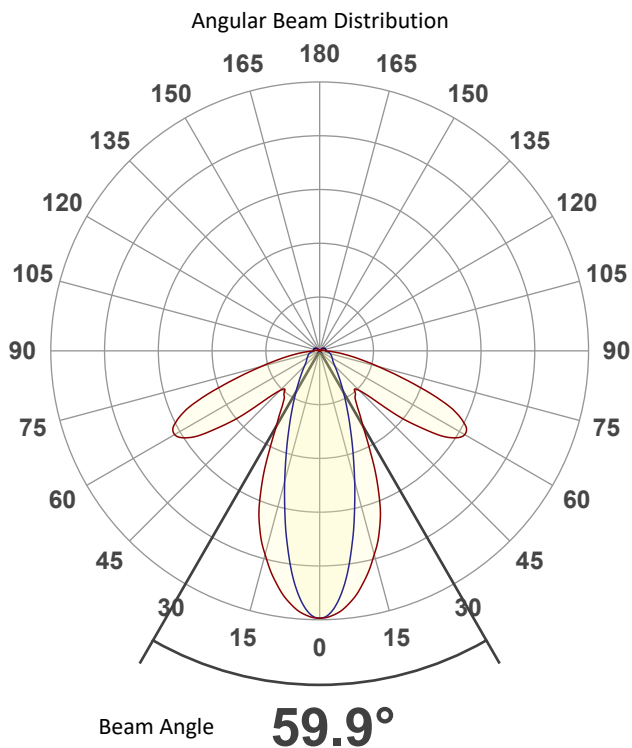
Current: 0.164 A

Power Factor: 0.86



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Overall Measurement



Tested Color (CIE 1931):

X: 0.175

Y: 0.724



Light Quality

CRI: 0.0

Color Temperature

0 K

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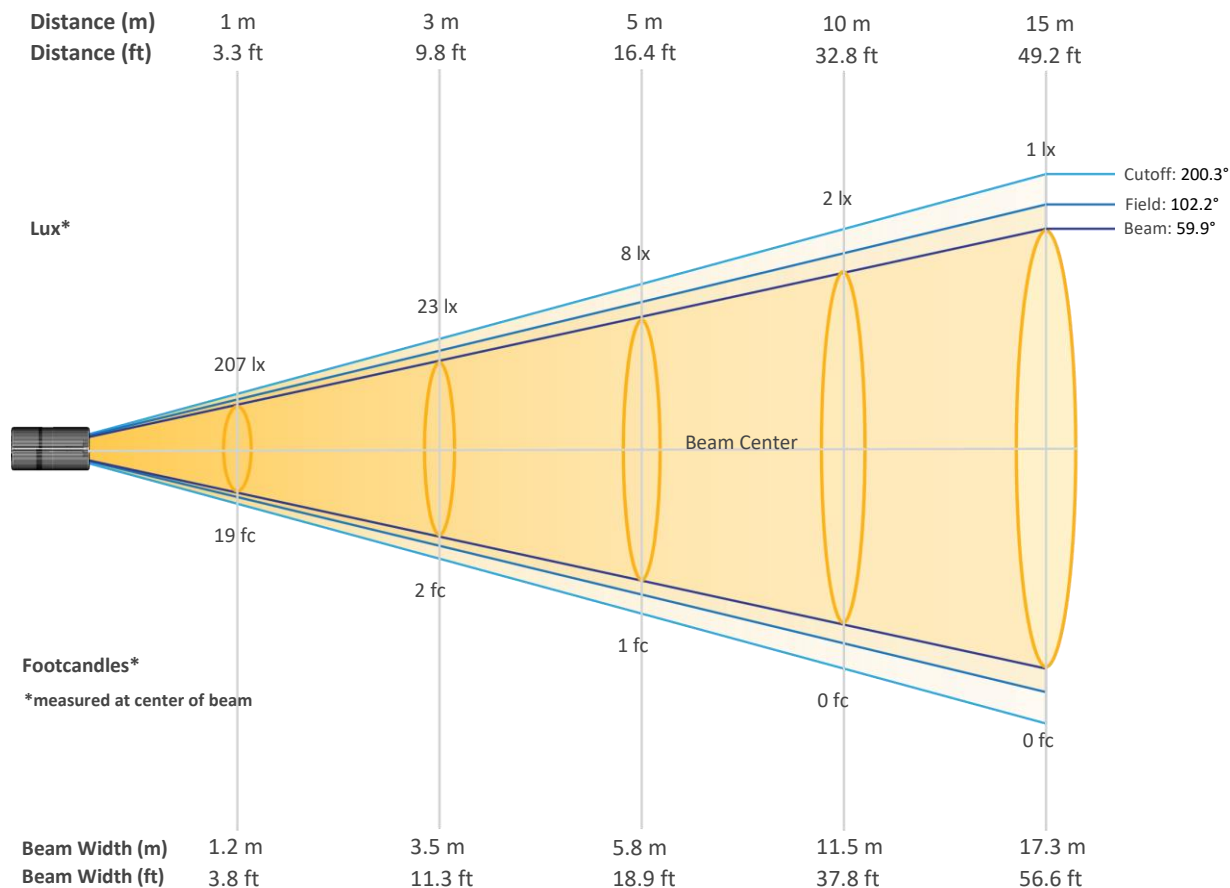
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Photometric & Chromaticity Report

Logic GZS: 90x1 Filter - 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	207	52	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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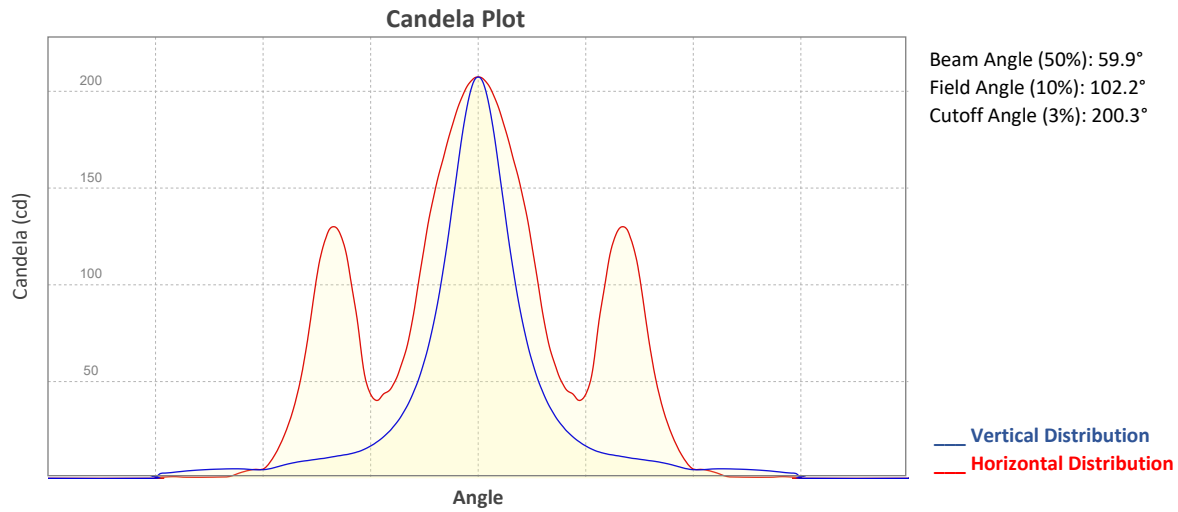
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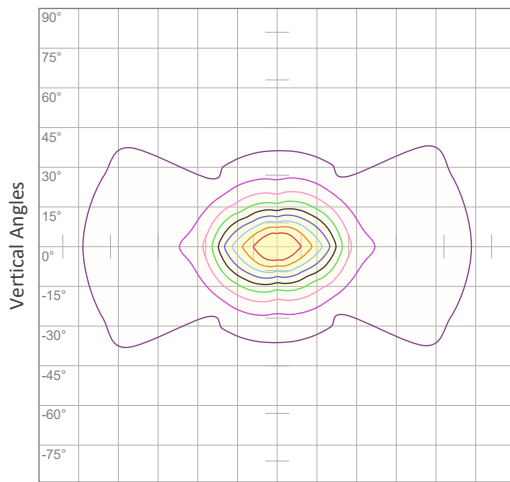
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Photometric & Chromaticity Report

Logic GZS: 90x1 Filter - Green Only



ISO Diagrams



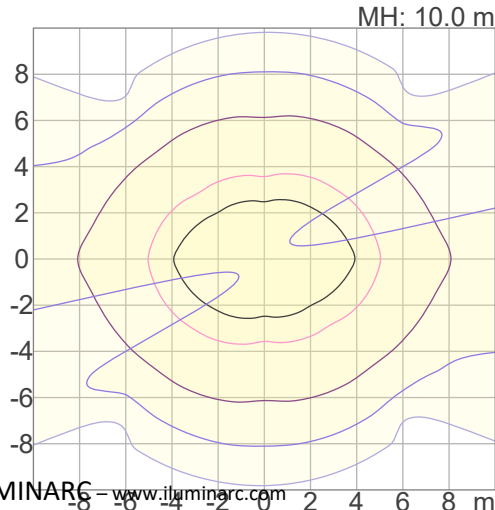
ISO Candela Diagram

10%	21 cd
20%	41 cd
30%	62 cd
40%	83 cd
50%	104 cd
60%	124 cd
70%	145 cd
80%	166 cd
90%	187 cd

Conditions:

Number of c-planes: 8
Candela at center: 207 cd

Horizontal Angles



ISO Lux Diagram

3%	62.2m lx
5%	0.104 lx
10%	0.207 lx
30%	0.622 lx
50%	1.04 lx

Conditions:

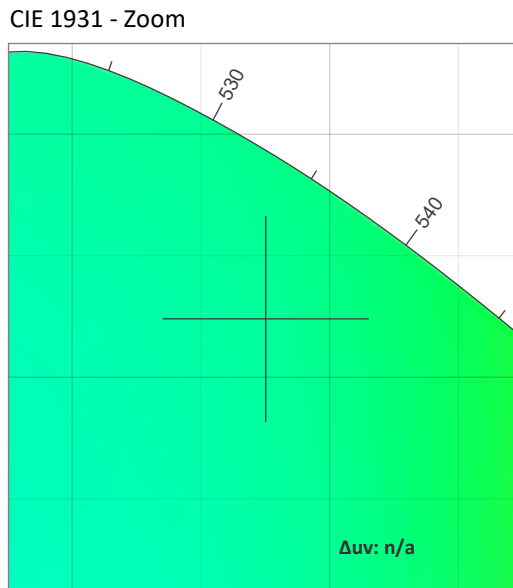
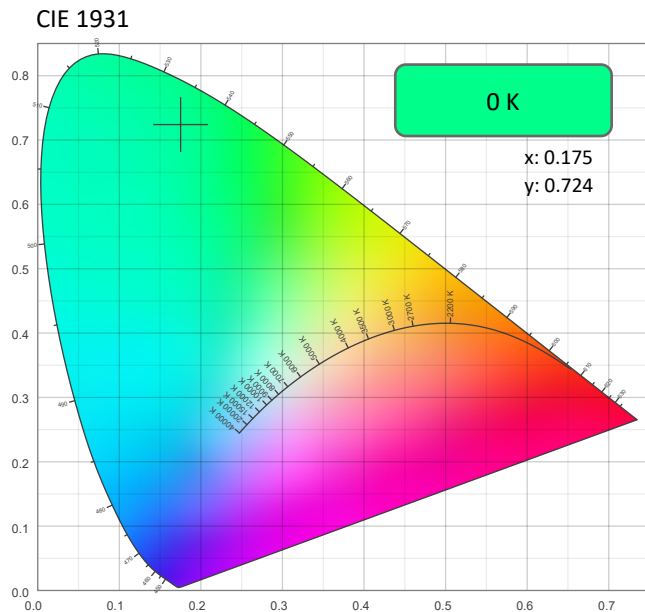
Number of c-planes: 8
Candela at center: 2.07 lx

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

Photometric & Chromaticity Report

Logic GZS: 90x1 Filter - 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	0.175	0.724

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.724	0.062

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

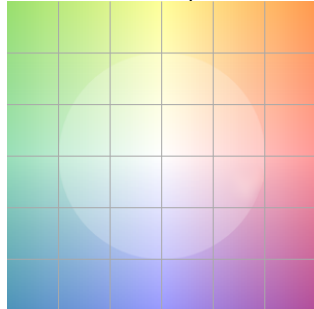
Logic GZS: 90x1 Filter - Green Only

TM-30 Details

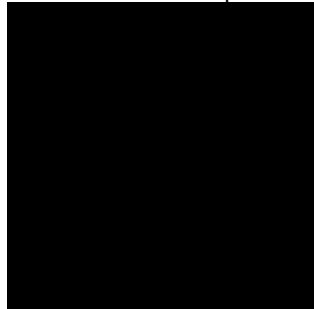
Rf 0.0
Fidelity Index
(Rg)

Rg 0.0
Gammut Index (Rg)

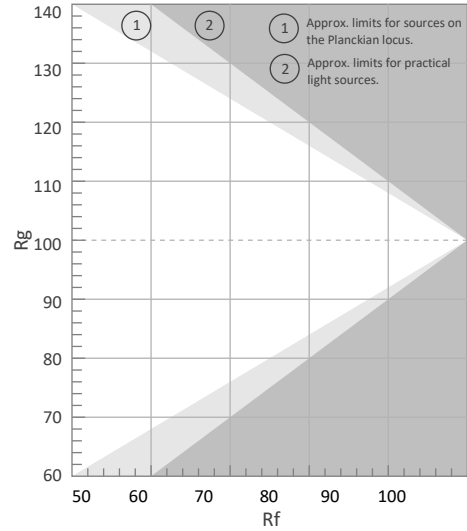
Color Vector Graphic



Color Distortion Graphic



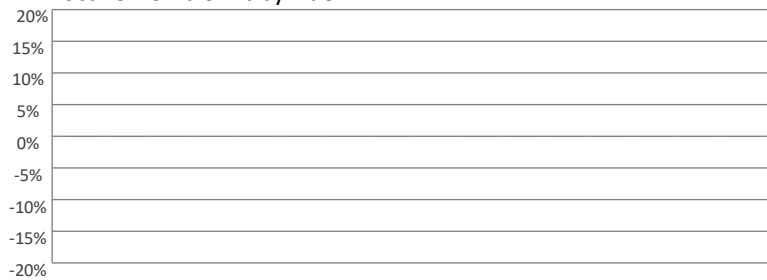
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



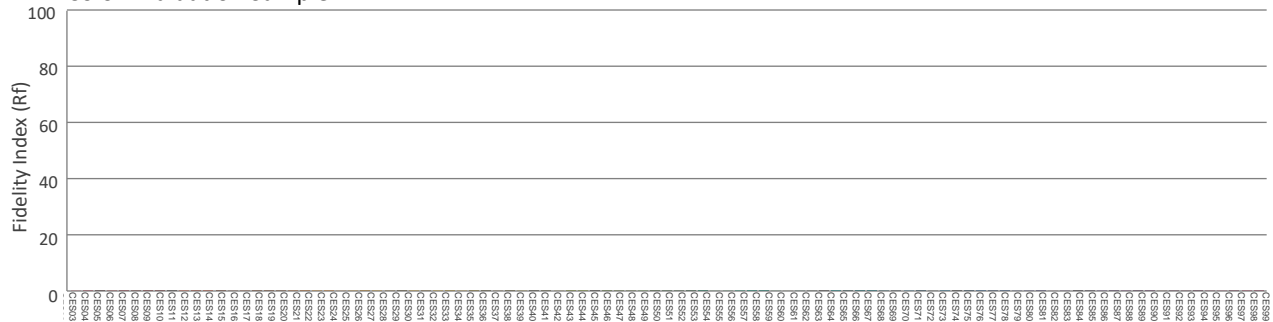
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZS: 90x1 Filter - Blue Only

Report Summary

Measurements

Fixture Output: 95.1 lm
Fixture Peak: 71.7 cd
Fixture Efficacy: 6 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%): 63°
Field Angle (10%): 107.1°
Cutoff Angle (2%): 225.2°

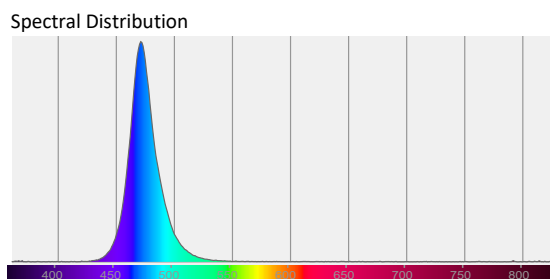
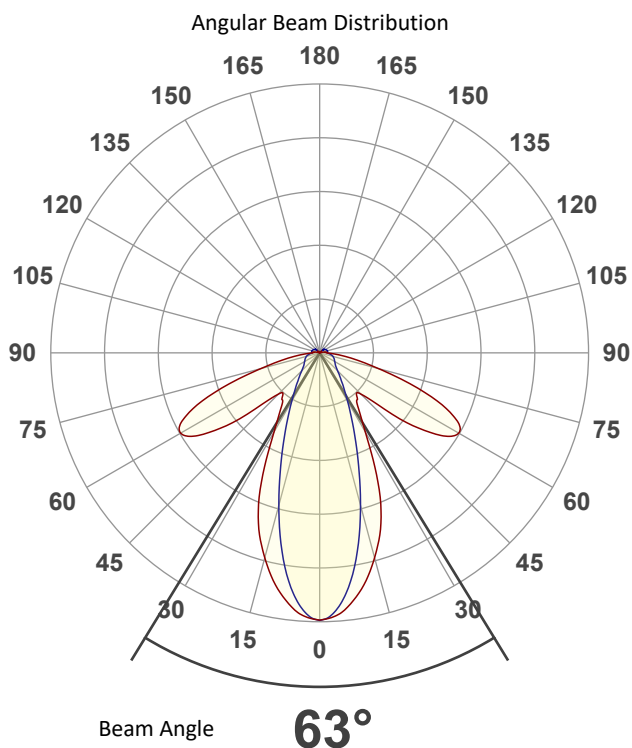
Conditions

AC Supply: 120 V, 60 Hz
Power: 19.9 W
Current: 0.166 A
Power Factor: 0.86



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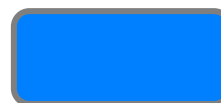
Overall Measurement



Tested Color (CIE 1931):

X: 0.120

Y: 0.099



Light Quality

CRI: 0.0

Color Temperature

0 K

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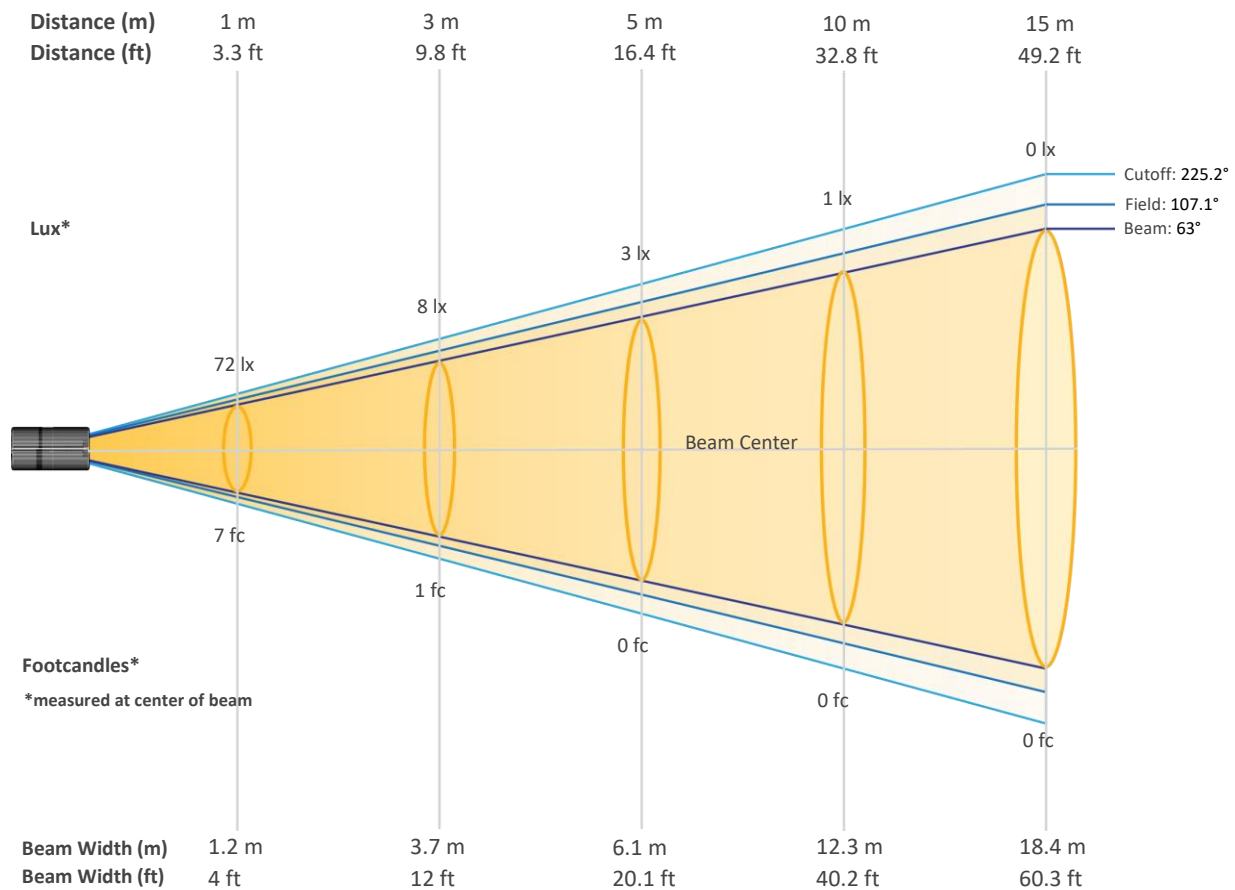
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Photometric & Chromaticity Report

Logic GZS: 90x1 Filter - 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	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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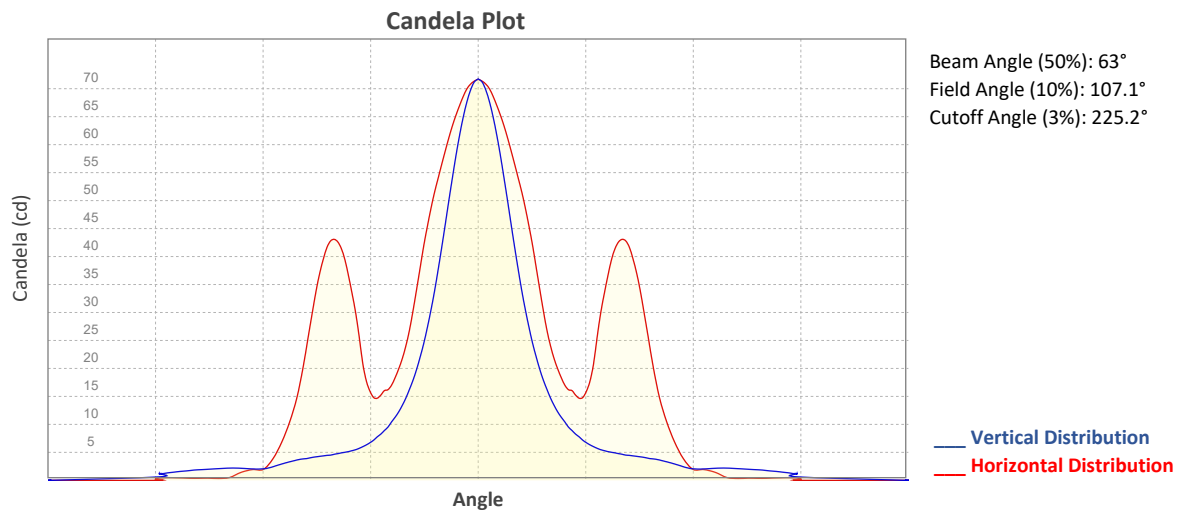
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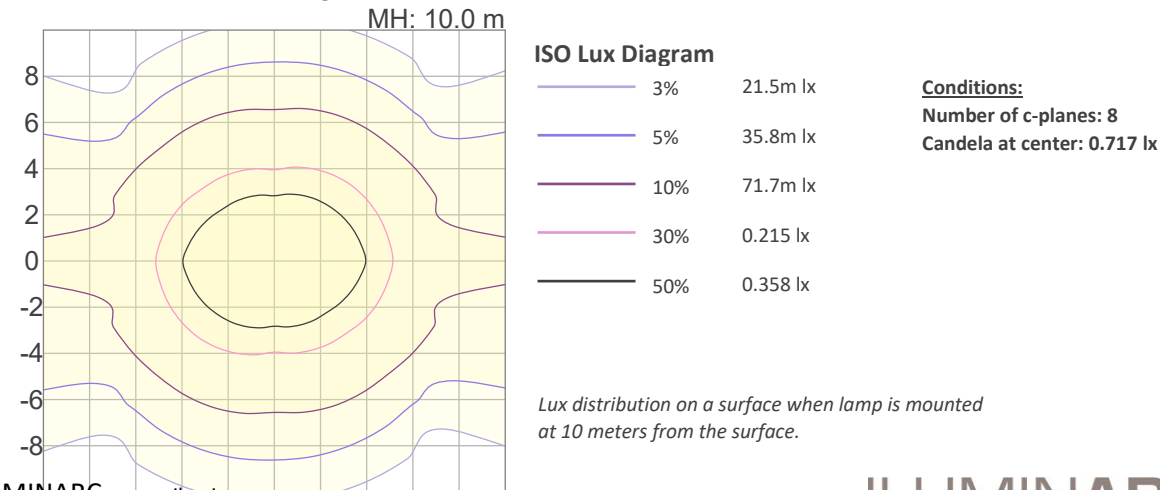
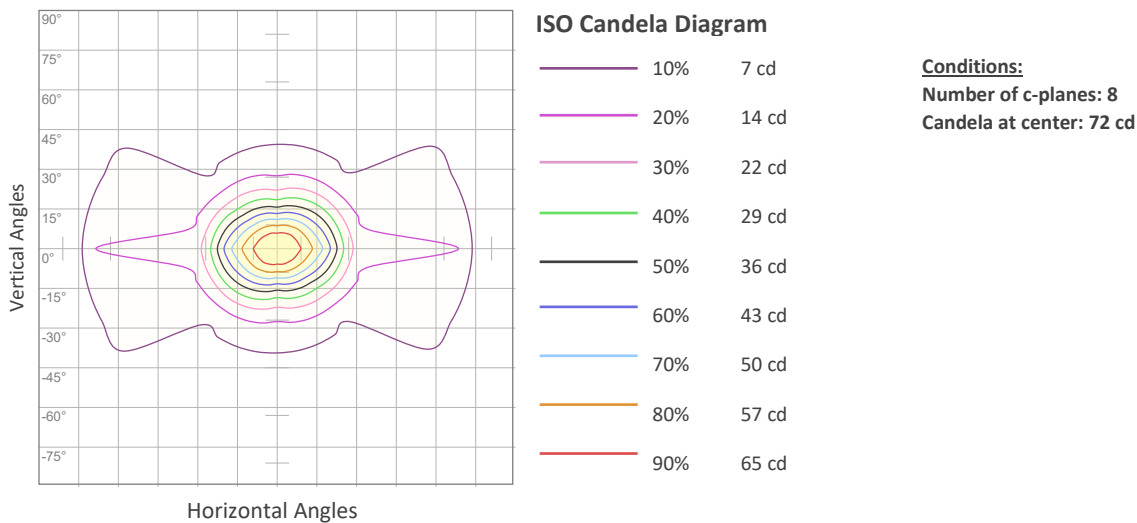
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Photometric & Chromaticity Report

Logic GZS: 90x1 Filter - Blue Only



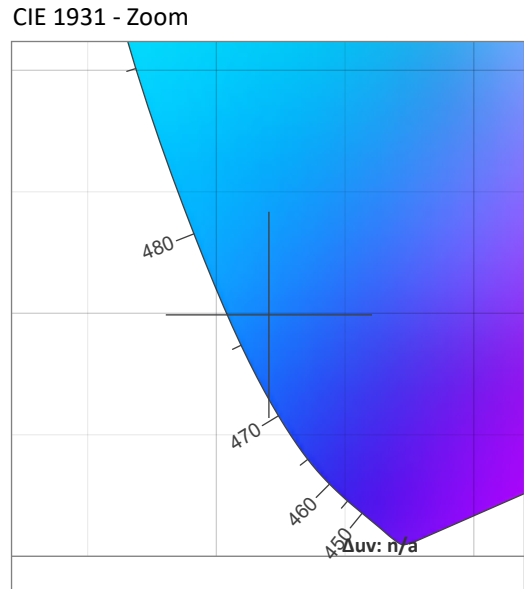
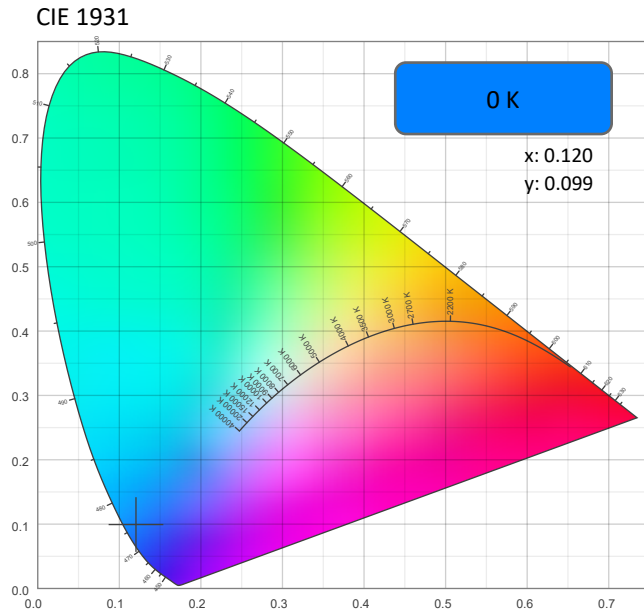
ISO Diagrams



Photometric & Chromaticity Report

Logic GZS: 90x1 Filter - 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	0.120	0.099

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.099	0.122

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

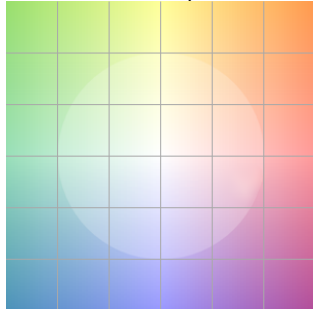
Logic GZS: 90x1 Filter - Blue Only

TM-30 Details

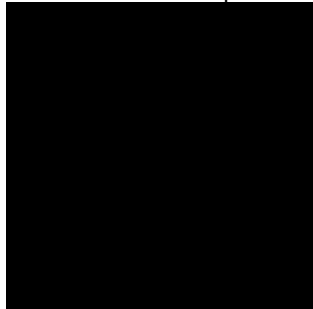
Rf 0.0
Fidelity Index
(Rg)

Rg 0.0
Gammut Index (Rg)

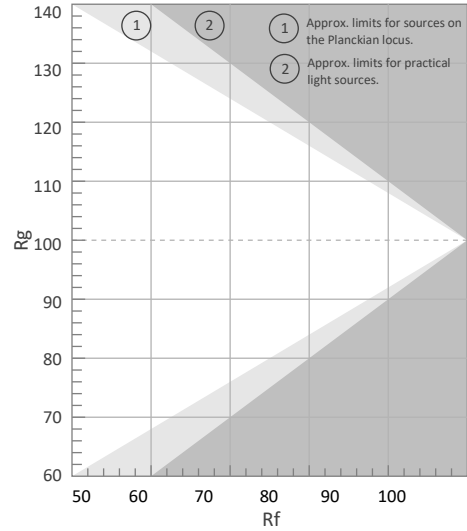
Color Vector Graphic



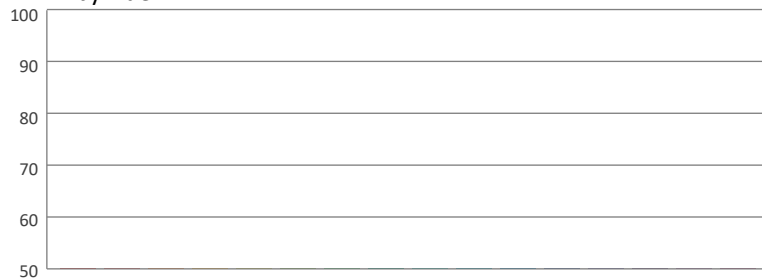
Color Distortion Graphic



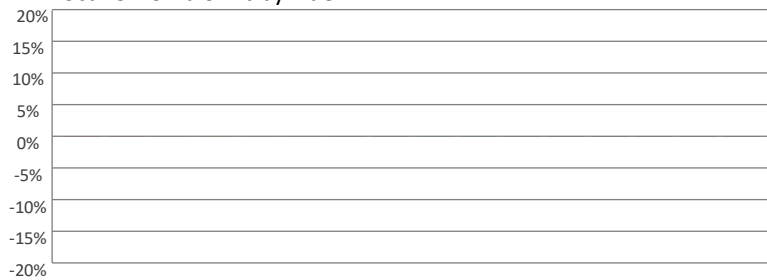
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



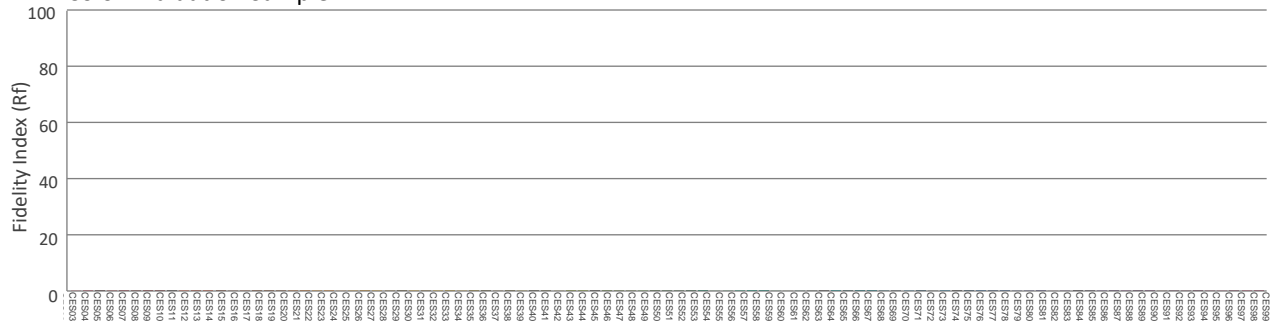
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZS: 90x1 Filter - Warm White Only

Report Summary

Measurements

Fixture Output: 389 lm

Fixture Peak: 313 cd

Fixture Efficacy: 23 lm/W

Intensity @ 5m: 13 lux

Color Temperature: 3025 K

CRI: 84.7 CRI R9 Value: 15.5

CQS: 83.7

TLCI: 73

TM-30 Rf: 85.8

TM-30 Rg: 94.9

Beam Angle (50%): 62.2°

Field Angle (10%): 102.8°

Cutoff Angle (2%): 201.1°

Conditions

AC Supply: 121 V, 60 Hz

Power: 19.9 W

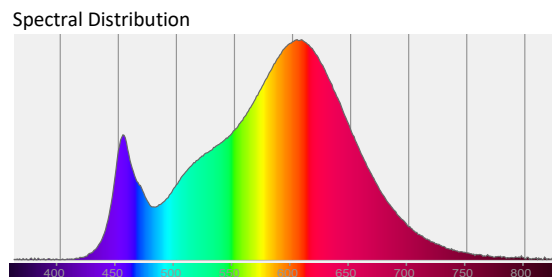
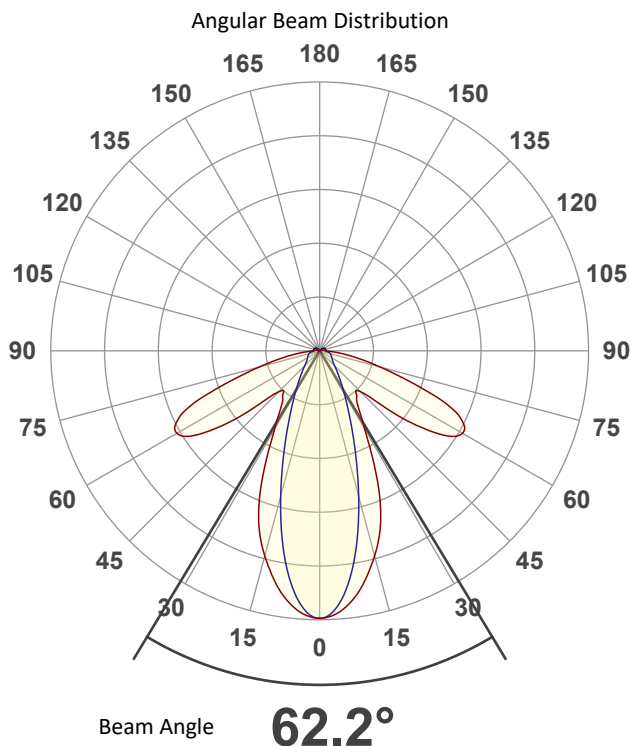
Current: 0.165 A

Power Factor: 0.86



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 5/16/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

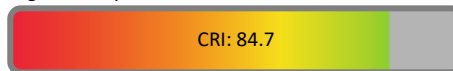
X: 0.434

Y: 0.400



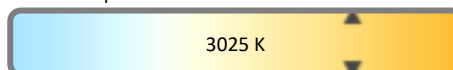
Light Quality

CRI: 84.7



Color Temperature

3025 K



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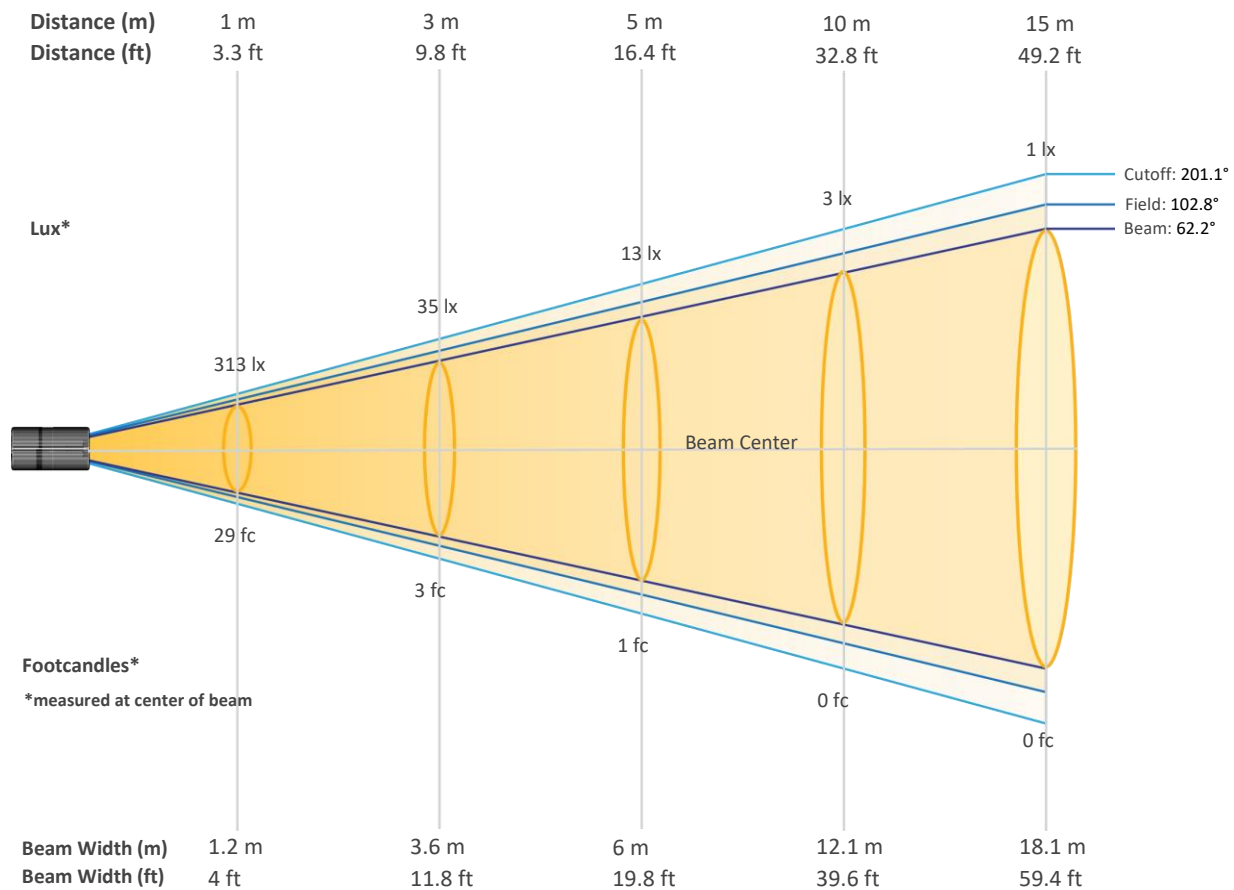
All product specifications, measurements and dimensions are subject to change without notice

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Photometric & Chromaticity Report

Logic GZS: 90x1 Filter - 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	313	78	35	20	13	9	6	5	4	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	3	2	2	2	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	29	7	3	2	1	1	1	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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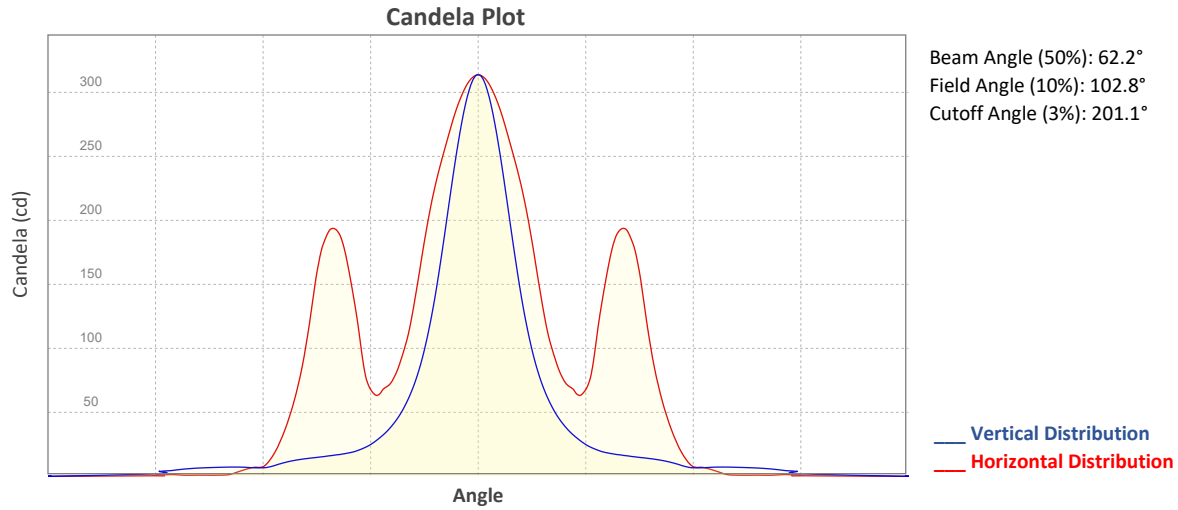
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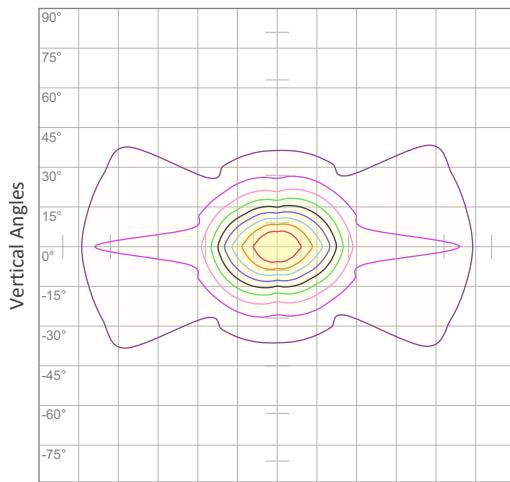
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Photometric & Chromaticity Report

Logic GZS: 90x1 Filter - Warm White Only



ISO Diagrams

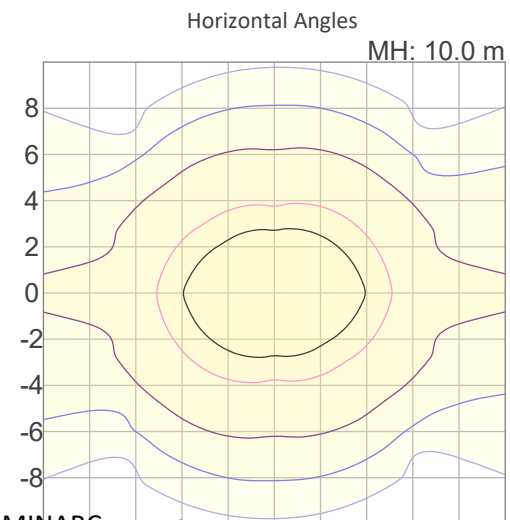


ISO Candela Diagram

10%	31 cd
20%	63 cd
30%	94 cd
40%	125 cd
50%	157 cd
60%	188 cd
70%	219 cd
80%	251 cd
90%	282 cd

Conditions:

Number of c-planes: 8
Candela at center: 313 cd



ISO Lux Diagram

3%	94.0m lx
5%	0.157 lx
10%	0.313 lx
30%	0.940 lx
50%	1.57 lx

Conditions:

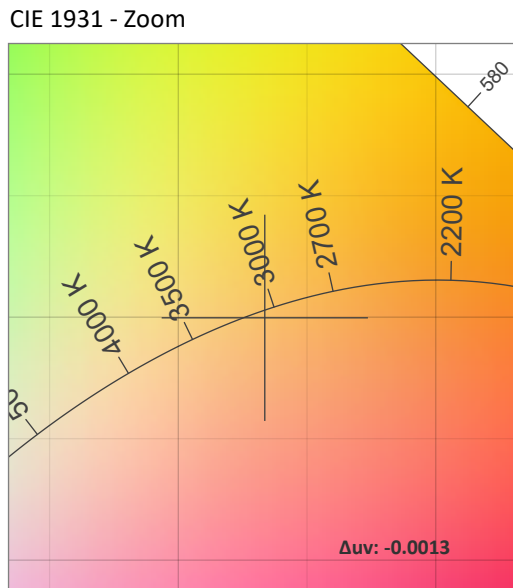
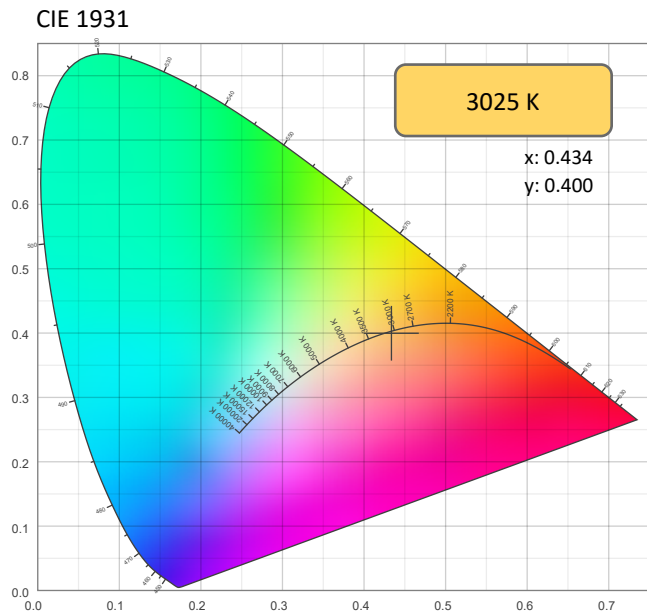
Number of c-planes: 8
Candela at center: 3.13 lx

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

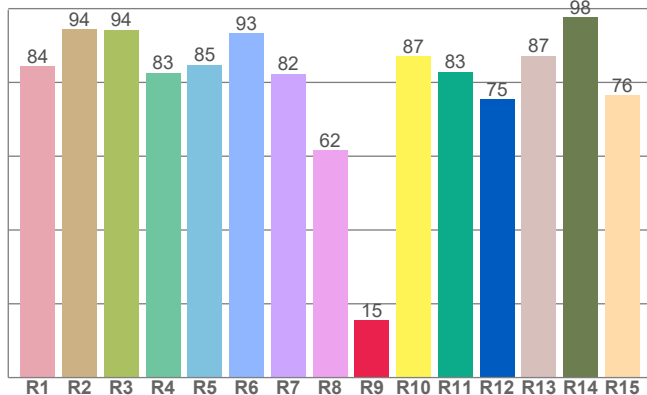
Photometric & Chromaticity Report

Logic GZS: 90x1 Filter - Warm White Only

Chromaticity



CRI: 84.7 (R1-R8)

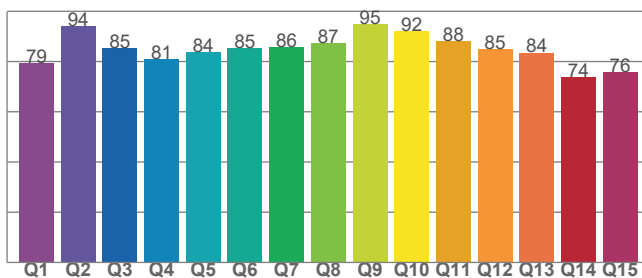


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3025 K	0.434	0.400

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0013	0.400	0.250

CQS: 83.7



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
84.7	15.5	83.7

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
73	85.8	94.9

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Photometric & Chromaticity Report

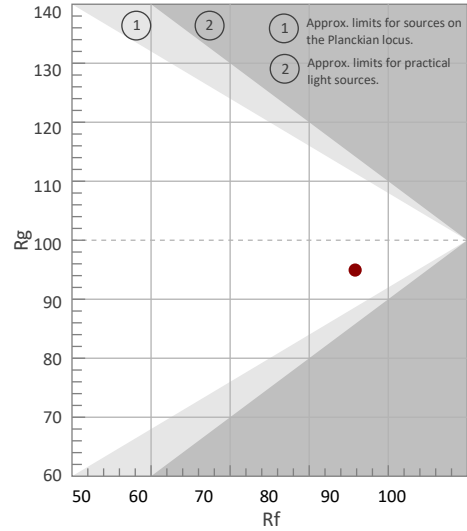
Logic GZS: 90x1 Filter - Warm White Only

TM-30 Details

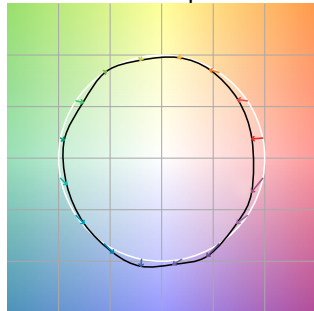
Rf 85.8
Fidelity Index (Rg)

Rg 94.9
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	81	-11%	1%
2	83	-7%	6%
3	83	-3%	9%
4	92	-1%	3%
5	92	-3%	2%
6	94	0%	-2%
7	88	-7%	-3%
8	93	-4%	1%
9	88	-5%	7%
10	81	-2%	11%
11	83	2%	12%
12	87	7%	1%
13	87	3%	-9%
14	80	4%	-16%
15	80	-4%	-12%
16	78	-8%	-15%



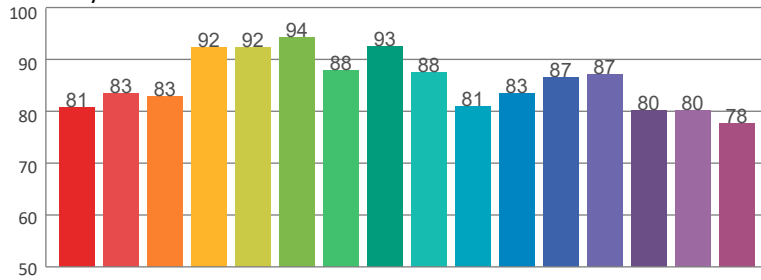
Color Vector Graphic



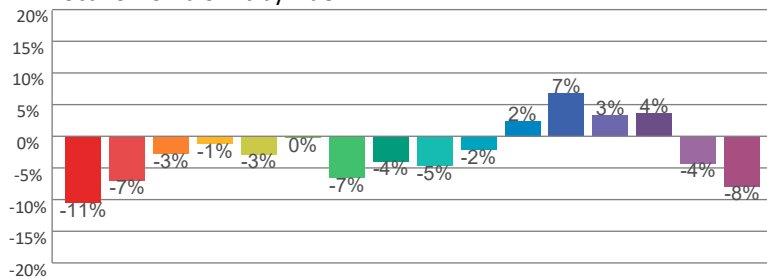
Color Distortion Graphic



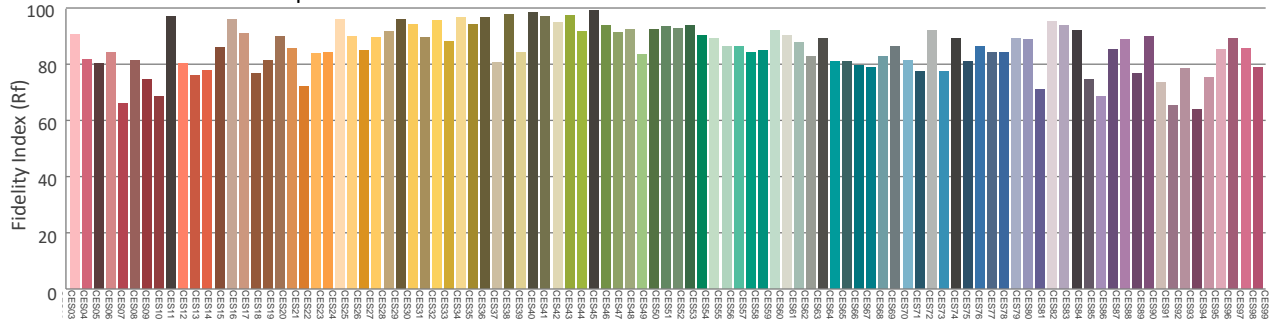
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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