

PHOTOMETRICS REPORT

LOGIC Graze L



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 L

Photometrics & Chromaticity Reports

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Photometric & Chromaticity Report

Logic GZL: No Optics - RGBW - Full Power

Report Summary

Measurements

Fixture Output: 3267 lm
Fixture Peak: 977 cd
Fixture Efficacy: 66 lm/W
Intensity @ 5m: 39 lux
Color Temperature: 5543 K
CRI: 70.2 CRI R9 Value: 32.4
CQS: 82.3
TLCI: 80
TM-30 Rf: 73.6
TM-30 Rg: 93.1
Beam Angle (50%): 125.4°
Field Angle (10%): 157.3°
Cutoff Angle (2%): 264.3°

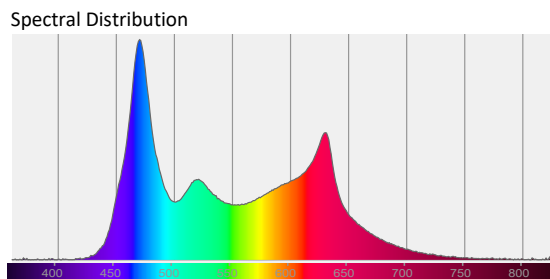
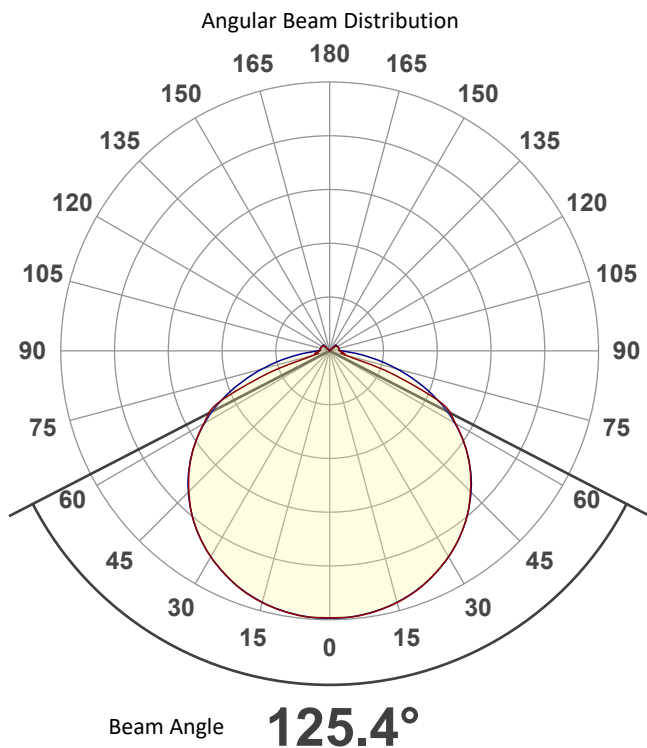
Conditions

AC Supply: 120 V, 60 Hz
Power: 51.98 W
Current: 0.434 A
Power Factor: 0.95



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

Overall Measurement



Tested Color (CIE 1931):

X: 0.332

Y: 0.319



Light Quality

CRI: 70.2

Color Temperature

5543 K

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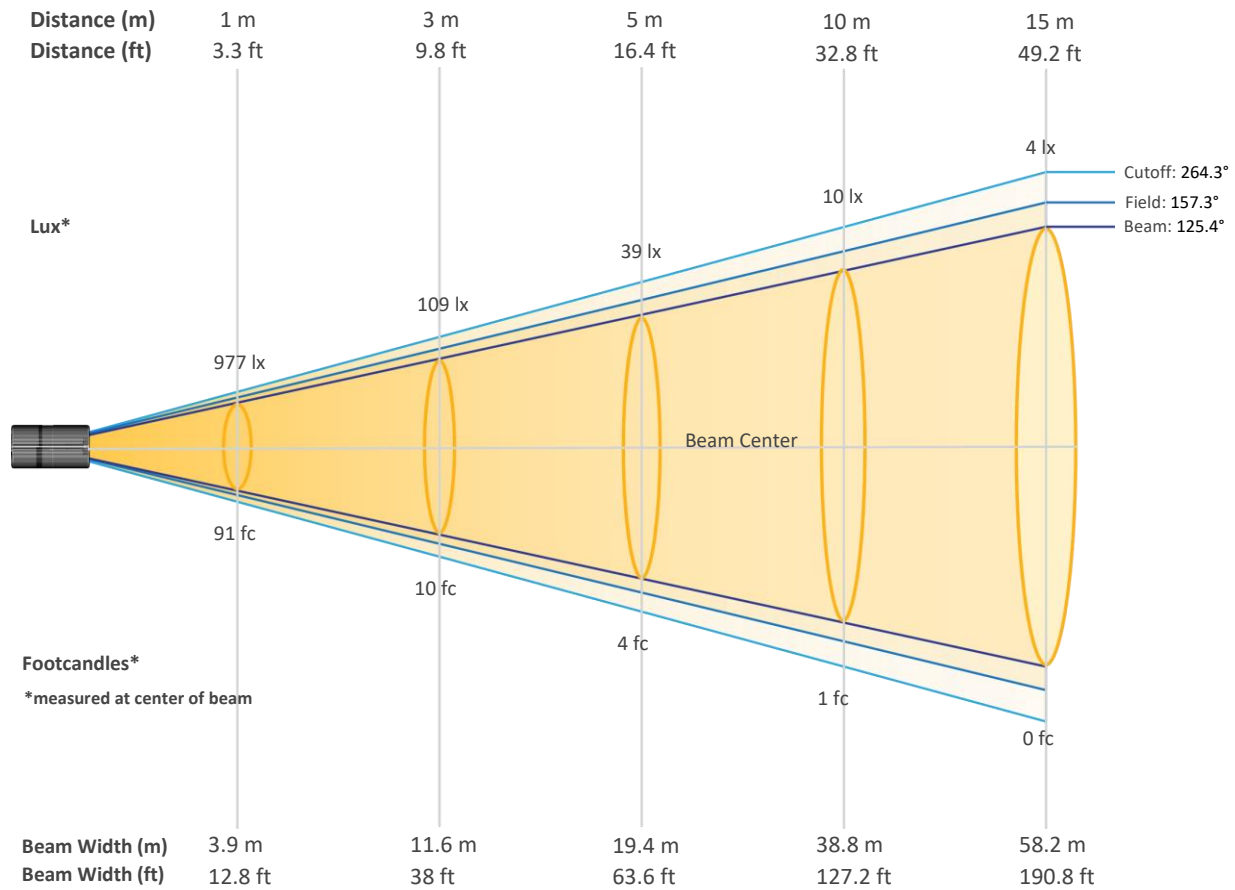
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Photometric & Chromaticity Report

Logic GZL: 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	977	244	109	61	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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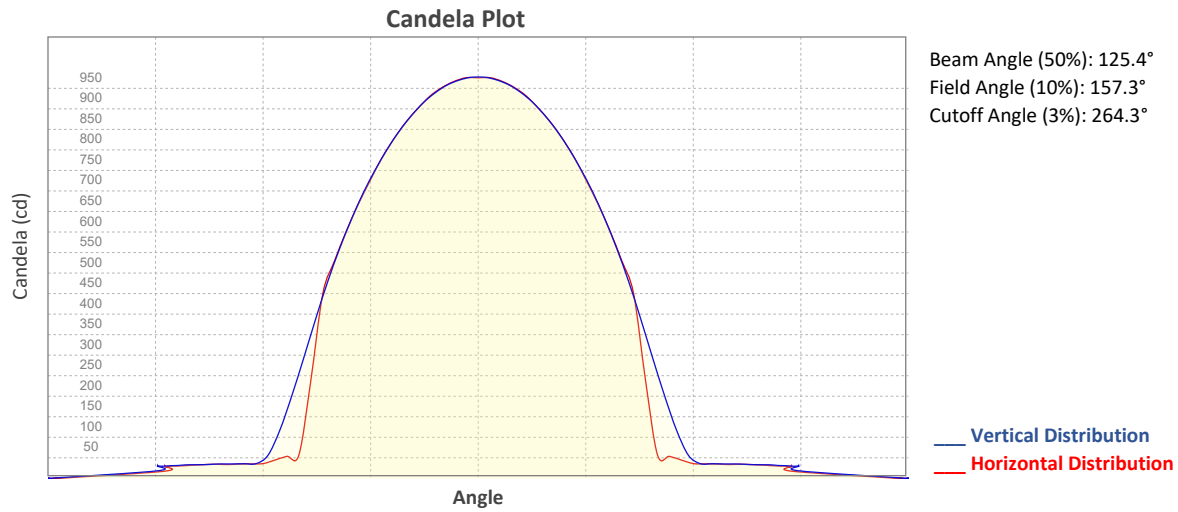
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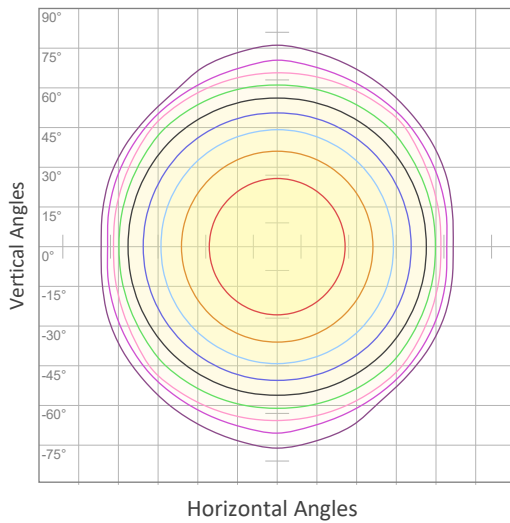
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Photometric & Chromaticity Report

Logic GZL: No Optics - RGBW - Full Power



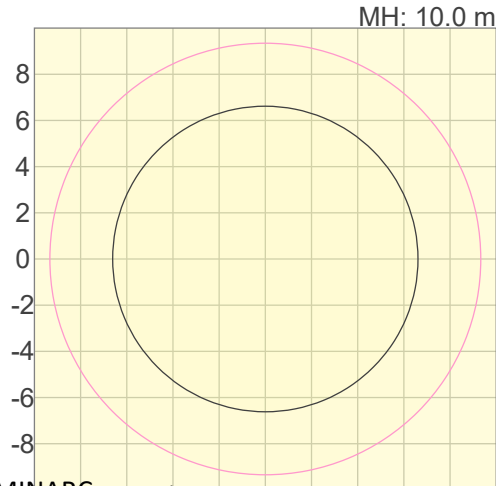
ISO Diagrams



ISO Candela Diagram

10%	98 cd
20%	195 cd
30%	293 cd
40%	391 cd
50%	488 cd
60%	586 cd
70%	684 cd
80%	781 cd
90%	879 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 977 cd



ISO Lux Diagram

3%	0.293 lx
5%	0.488 lx
10%	0.977 lx
30%	2.93 lx
50%	4.88 lx

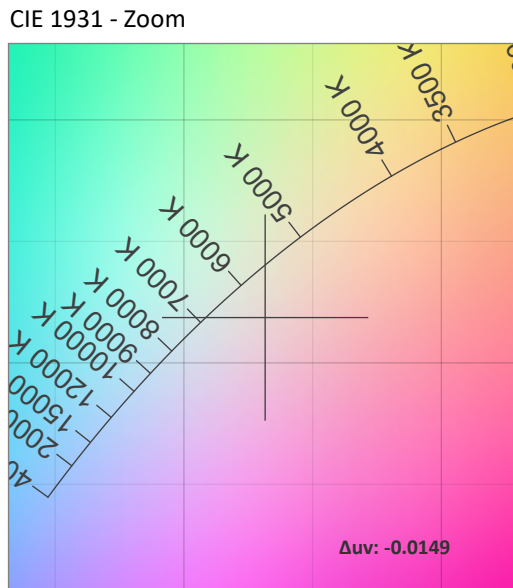
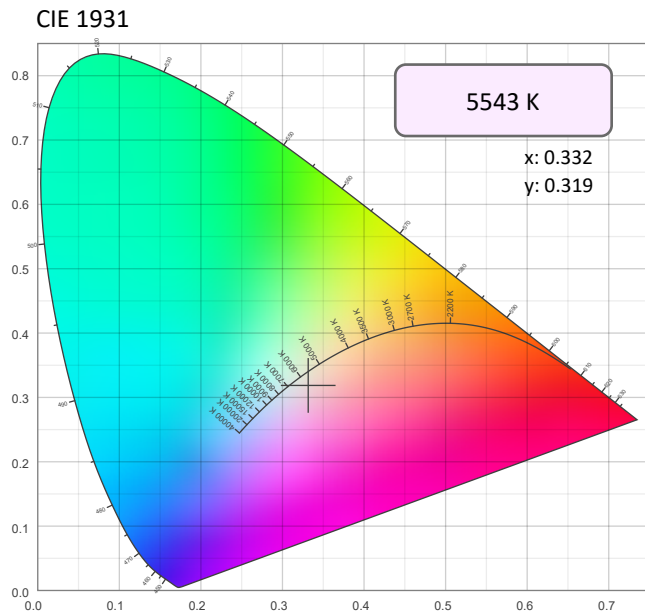
Conditions:
 Number of c-planes: 8
 Candela at center: 9.77 lx

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

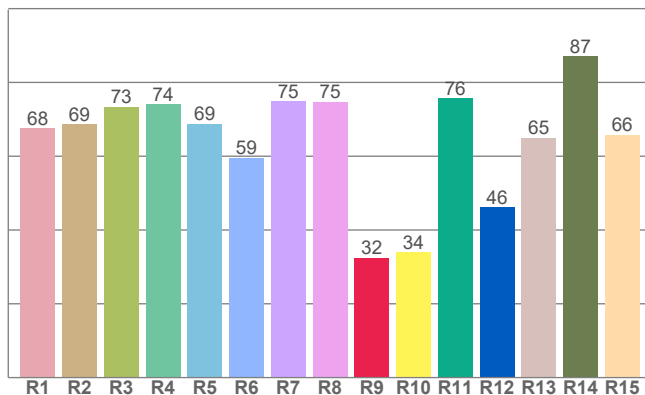
Photometric & Chromaticity Report

Logic GZL: No Optics - RGBW - Full Power

Chromaticity



CRI: 70.2 (R1-R8)

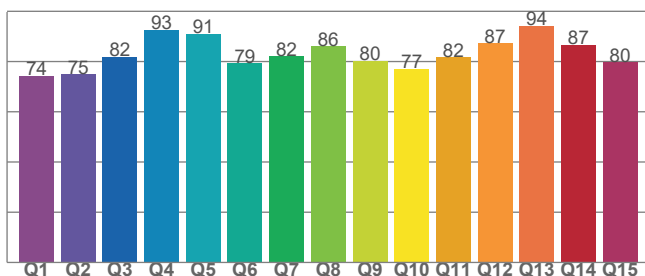


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5543 K	0.332	0.319

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0149	0.319	0.215

CQS: 82.3



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
70.2	32.4	82.3

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
80	73.6	93.1

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Photometric & Chromaticity Report

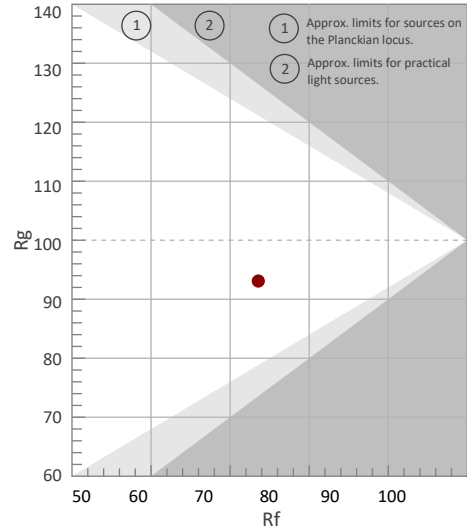
Logic GZL: No Optics - RGBW - Full Power

TM-30 Details

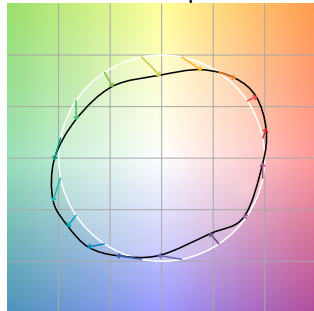
Rf 73.6
Fidelity Index (Rg)

Rg 93.1
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	79	5%	8%
2	83	9%	-1%
3	72	4%	-16%
4	65	-8%	-20%
5	65	-21%	-14%
6	76	-16%	1%
7	74	-10%	14%
8	65	2%	21%
9	75	11%	20%
10	80	12%	4%
11	72	11%	-11%
12	66	1%	-24%
13	74	-8%	-21%
14	77	-13%	-2%
15	81	-2%	-3%
16	76	-3%	14%



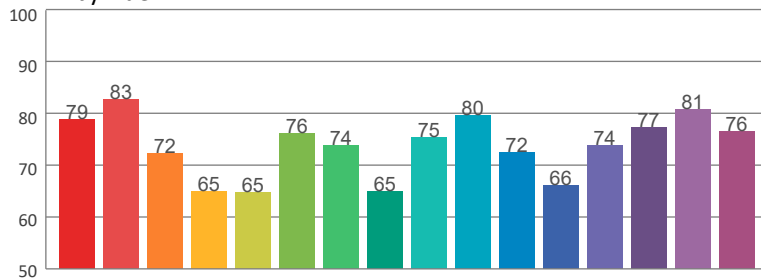
Color Vector Graphic



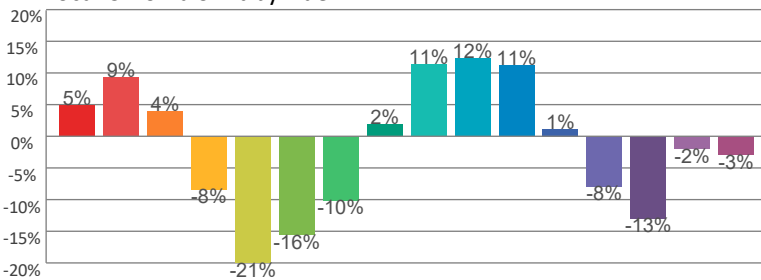
Color Distortion Graphic



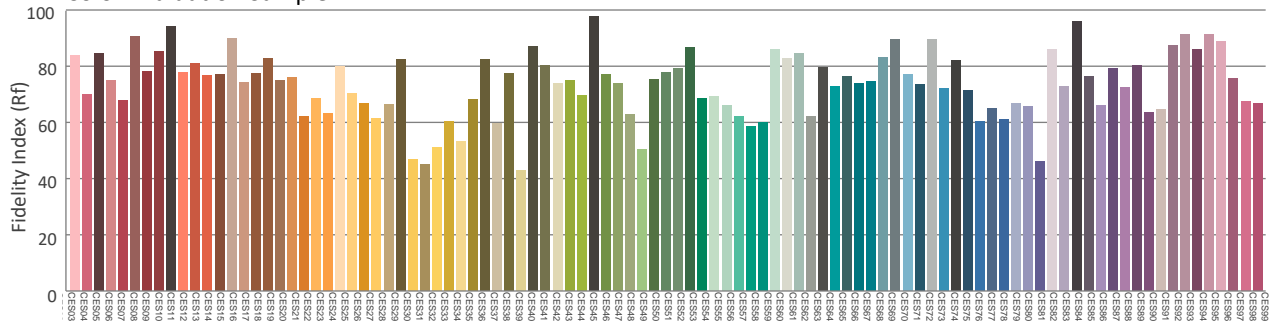
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: Standard Optics - RGBW - Full Power

Report Summary

Measurements

Fixture Output: 2692 lm
Fixture Peak: 4283 cd
Fixture Efficacy: 54 lm/W
Intensity @ 5m: 171 lux
Color Temperature: 5567 K
CRI: 69.4 CRI R9 Value: 26.6
CQS: 81.6
TLCI: 79
TM-30 Rf: 73.0
TM-30 Rg: 93.1
Beam Angle (50%): 34.3°
Field Angle (10%): 70.2°
Cutoff Angle (2%): 127.8°

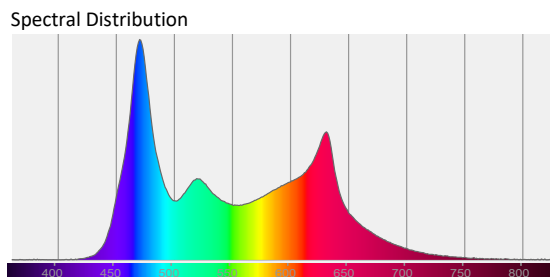
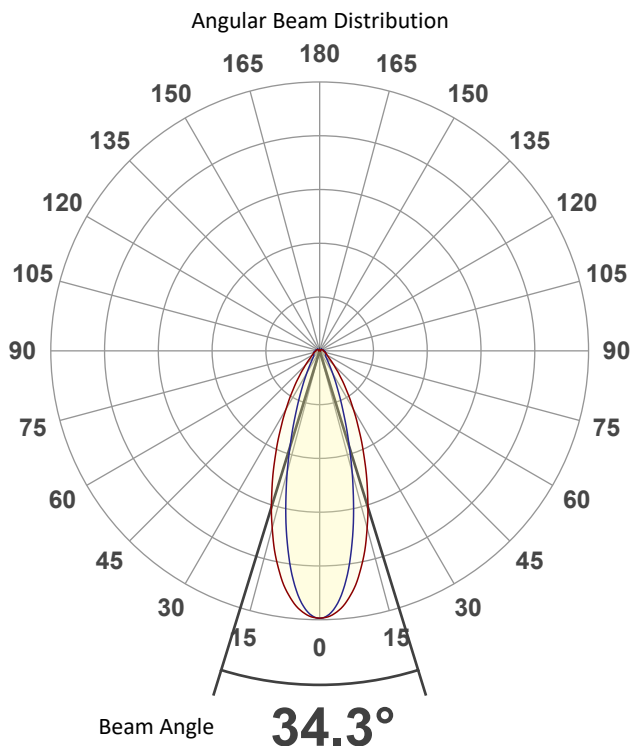
Conditions

AC Supply: 119 V, 60 Hz
Power: 52.1 W
Current: 0.438 A
Power Factor: 0.95



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

Overall Measurement



Tested Color (CIE 1931):
X: 0.331
Y: 0.319



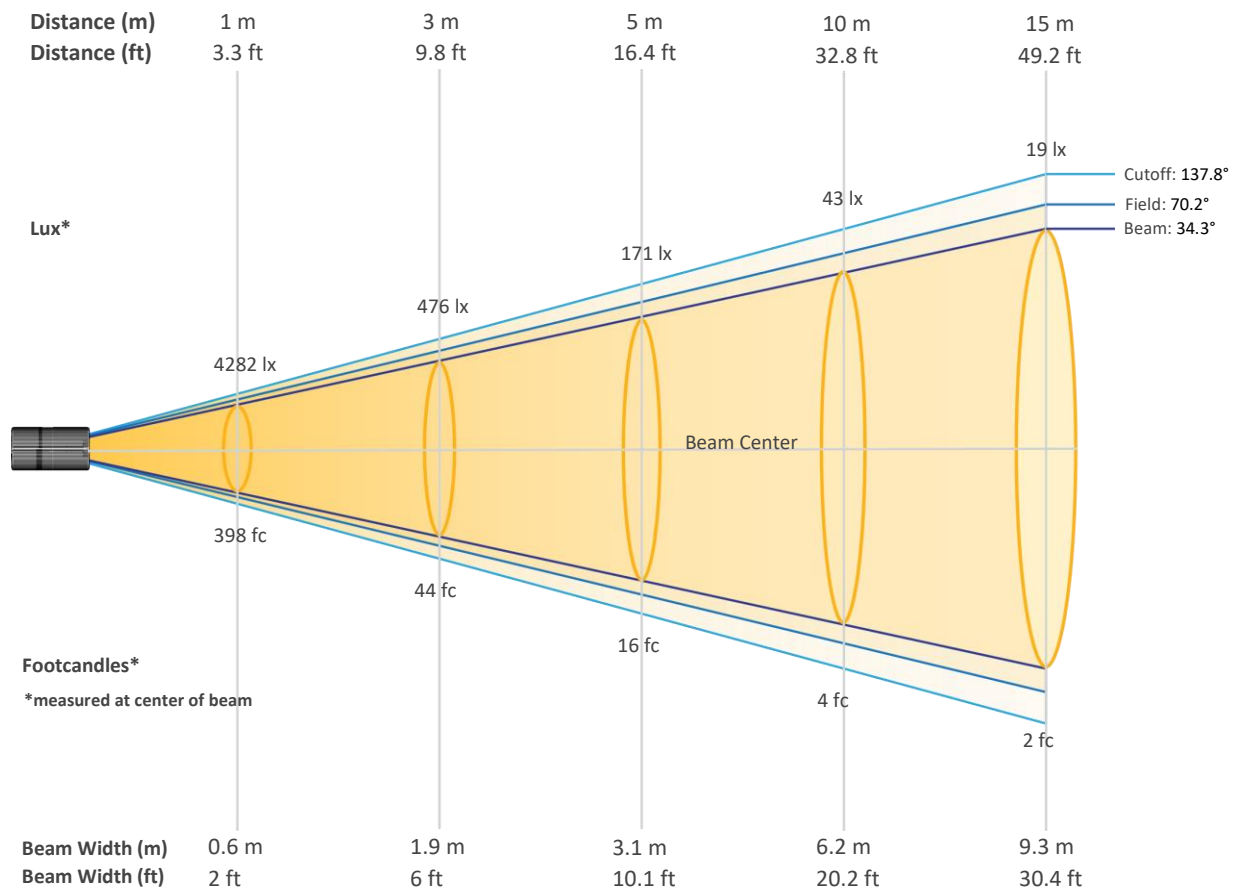
Light Quality
CRI: 69.4

Color Temperature
5567 K

Photometric & Chromaticity Report

Logic GZL: 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	4282	1070	476	268	171	119	87	67	53	43
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	35	30	25	22	19	17	15	13	12	11
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	398	99	44	25	16	11	8	6	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	3	2	2	2	2	1	1	1	1

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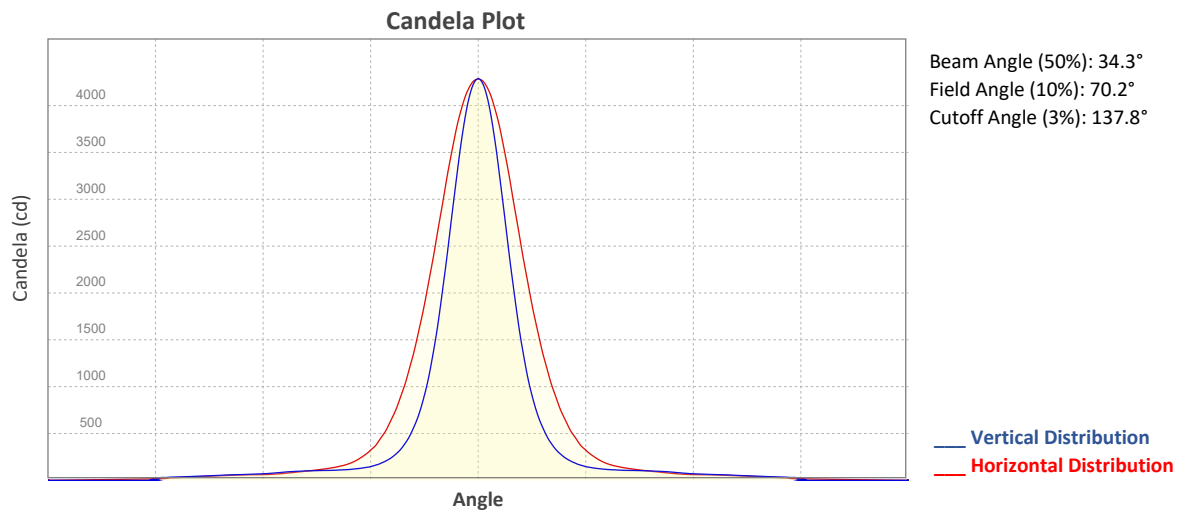
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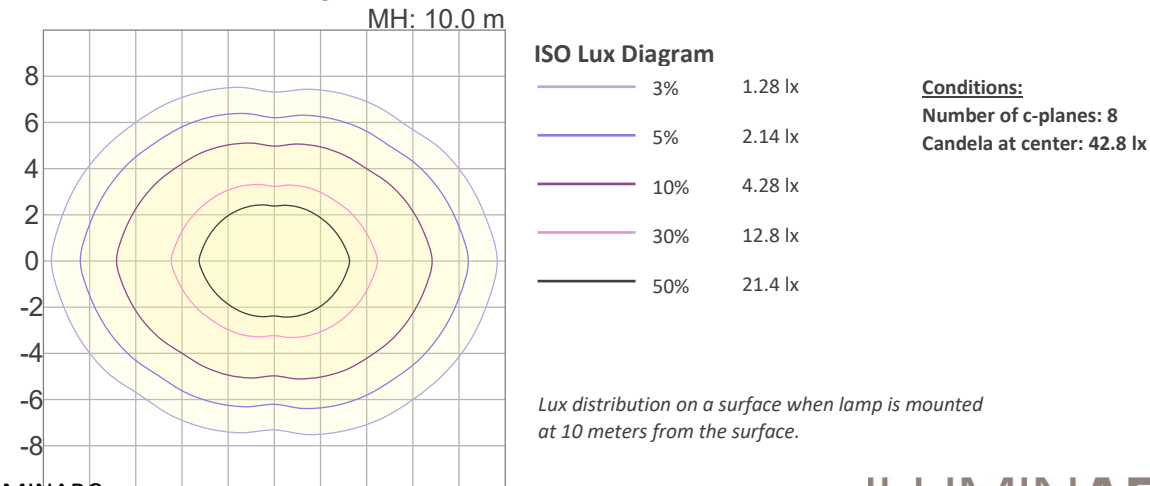
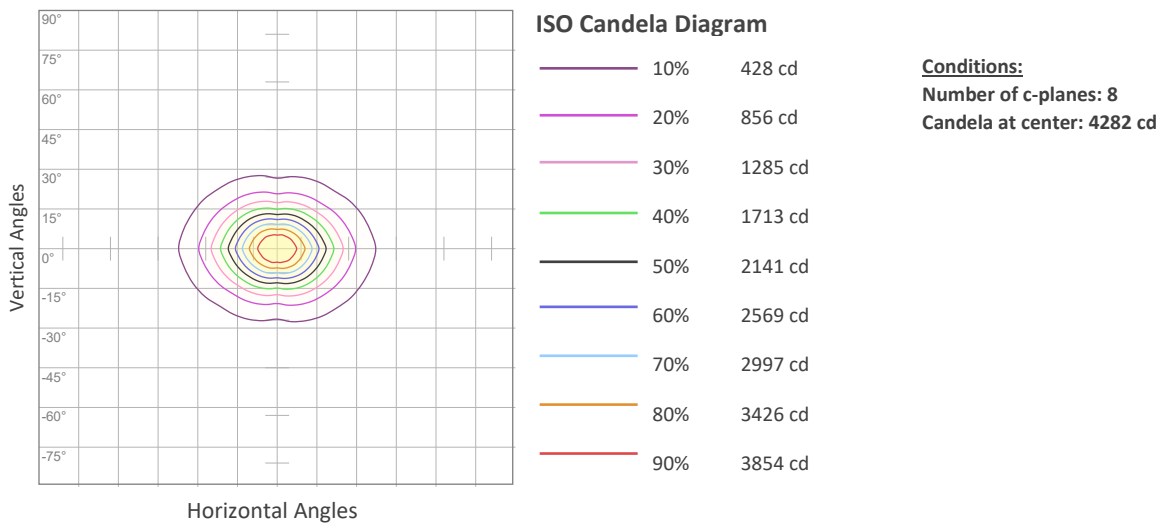
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Photometric & Chromaticity Report

Logic GZL: Standard Optics - RGBW - Full Power



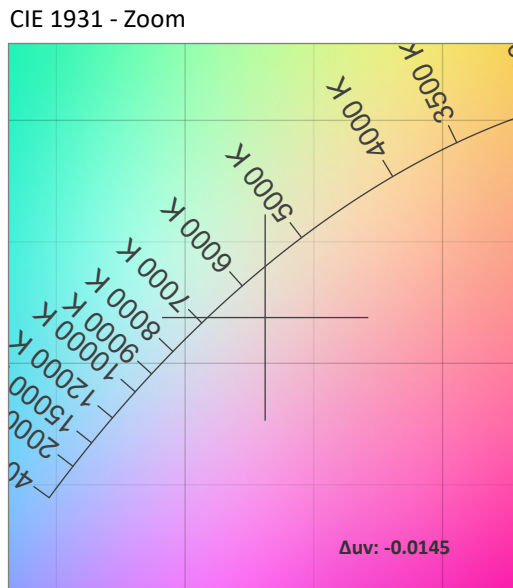
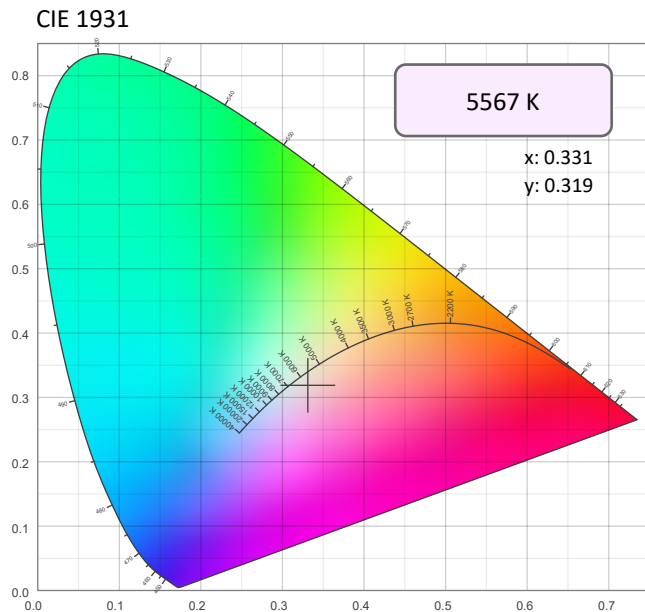
ISO Diagrams



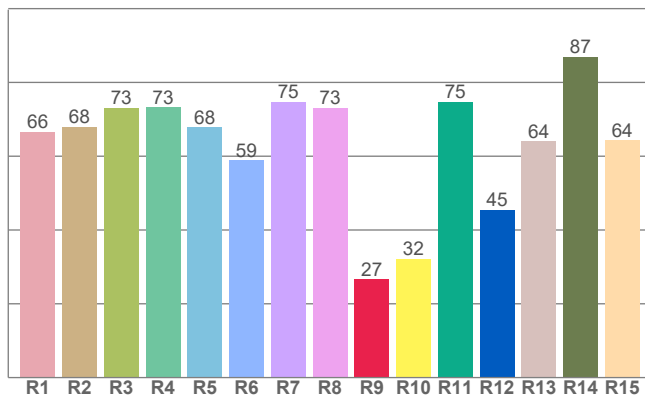
Photometric & Chromaticity Report

Logic GZL: Standard Optics - RGBW - Full Power

Chromaticity



CRI: 69.4 (R1-R8)

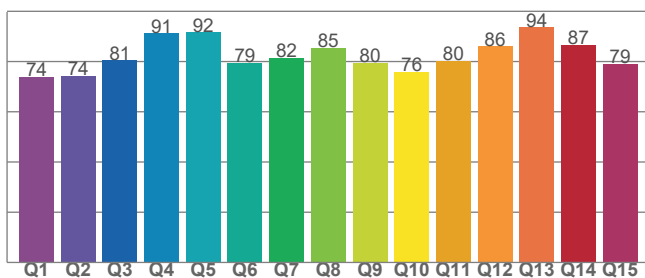


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5567 K	0.331	0.319

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0145	0.319	0.215

CQS: 81.6



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
69.4	26.6	81.6

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
79	73.0	93.1

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Photometric & Chromaticity Report

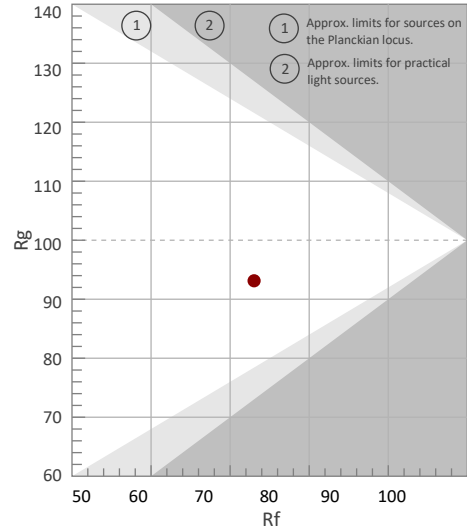
Logic GZL: Standard Optics - RGBW - Full Power

TM-30 Details

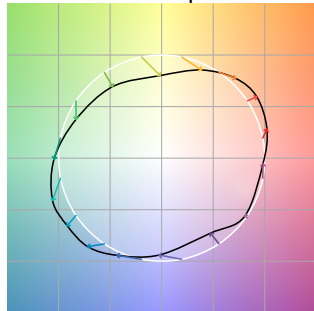
Rf 73.0
Fidelity Index (Rg)

Rg 93.1
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	78	6%	8%
2	82	10%	-2%
3	71	4%	-17%
4	64	-9%	-21%
5	64	-21%	-14%
6	76	-16%	1%
7	74	-10%	15%
8	65	2%	21%
9	75	12%	19%
10	79	13%	4%
11	72	11%	-12%
12	66	1%	-24%
13	74	-8%	-21%
14	77	-13%	-1%
15	81	-2%	-2%
16	76	-3%	14%



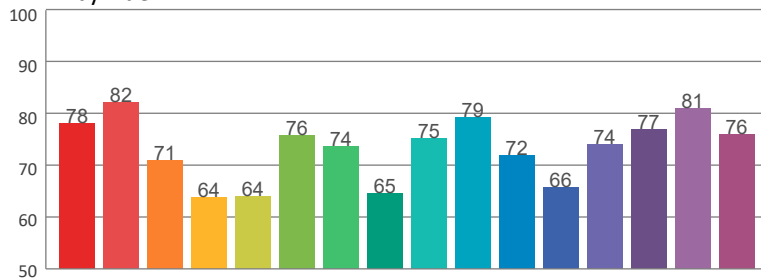
Color Vector Graphic



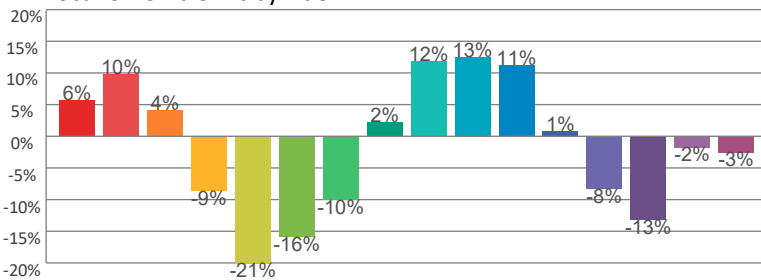
Color Distortion Graphic



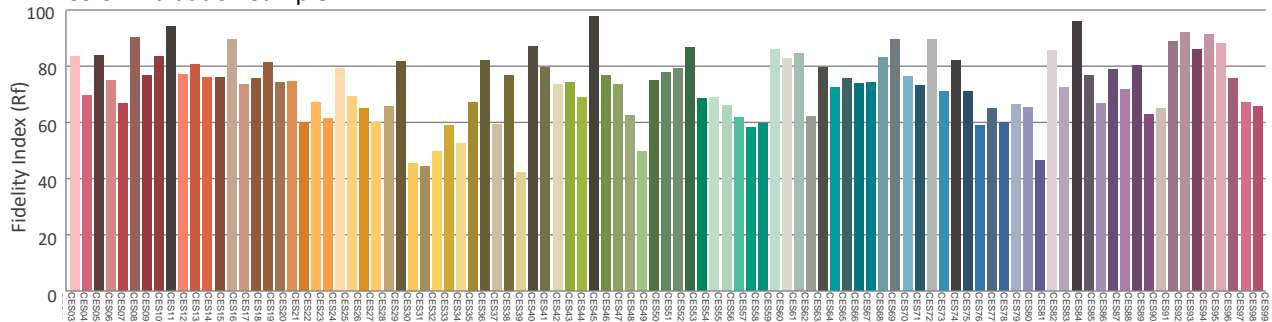
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: Standard Optics - Red Only

Report Summary

Measurements

Fixture Output: 714 lm

Fixture Peak: 1311 cd

Fixture Efficacy: 23 lm/W

Intensity @ 5m: 52 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%): 30.1°

Field Angle (10%): 65.2°

Cutoff Angle (3%): 115.5°

Conditions

AC Supply: 119 V, 60 Hz

Power: 33.24 W

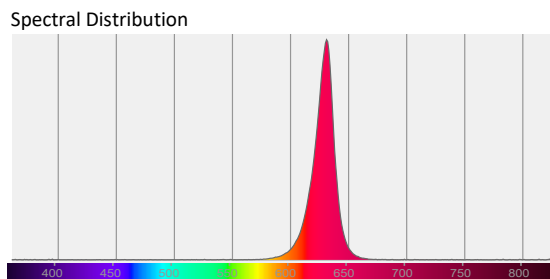
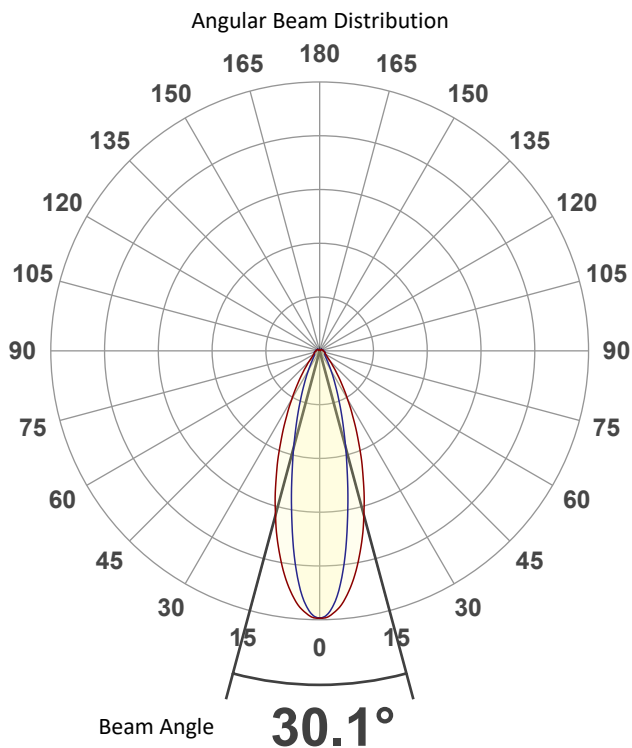
Current: 0.279 A

Power Factor: 0.94



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 5/5/2022 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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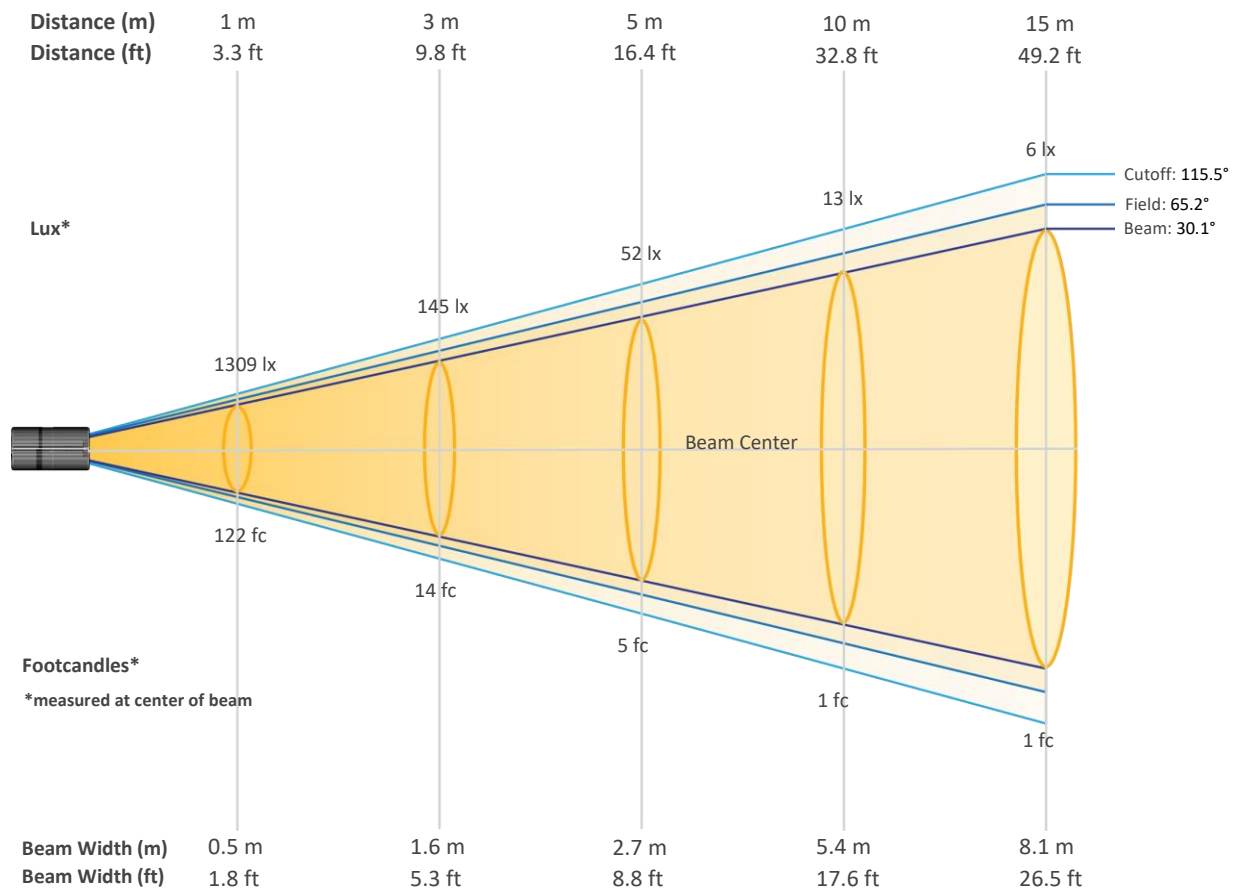
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Photometric & Chromaticity Report

Logic GZL: 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	1309	327	145	82	52	36	27	20	16	13
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	11	9	8	7	6	5	5	4	4	3
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	122	30	14	8	5	3	2	2	2	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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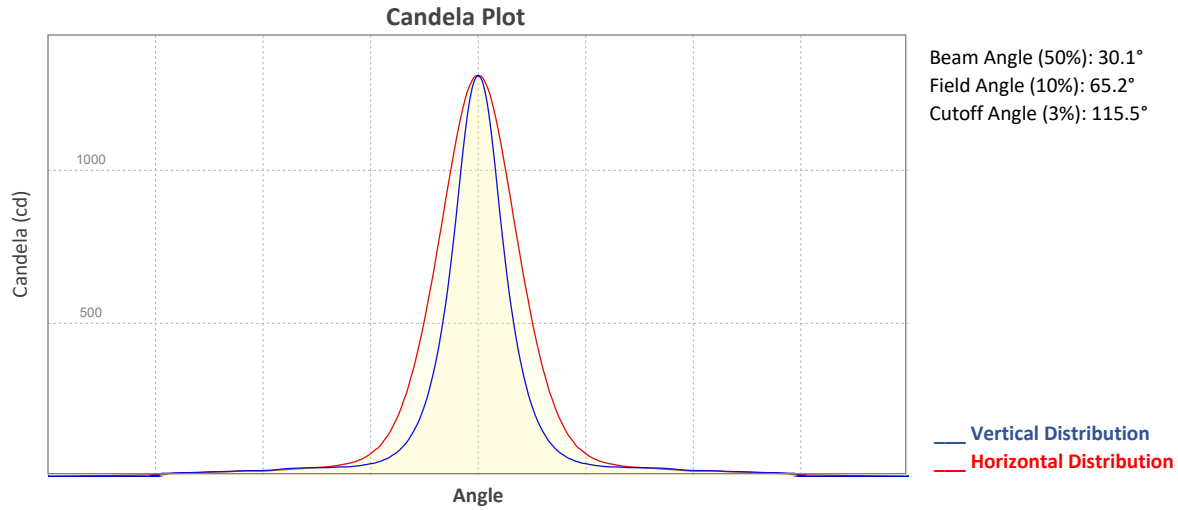
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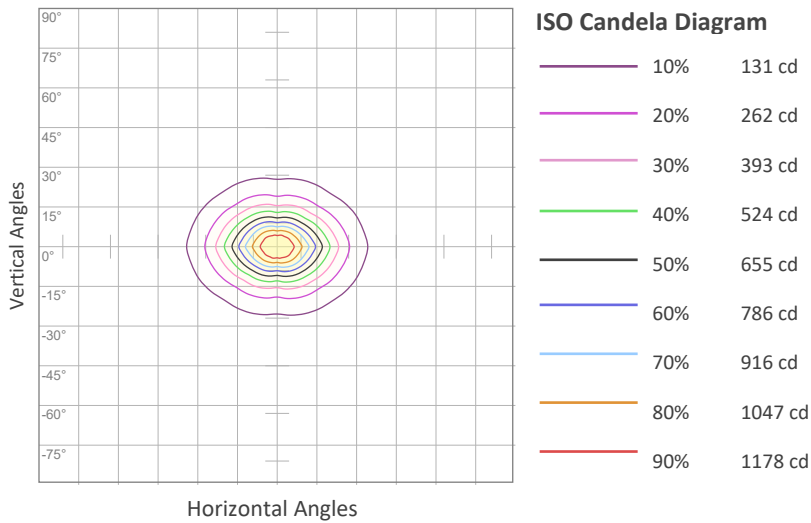
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Photometric & Chromaticity Report

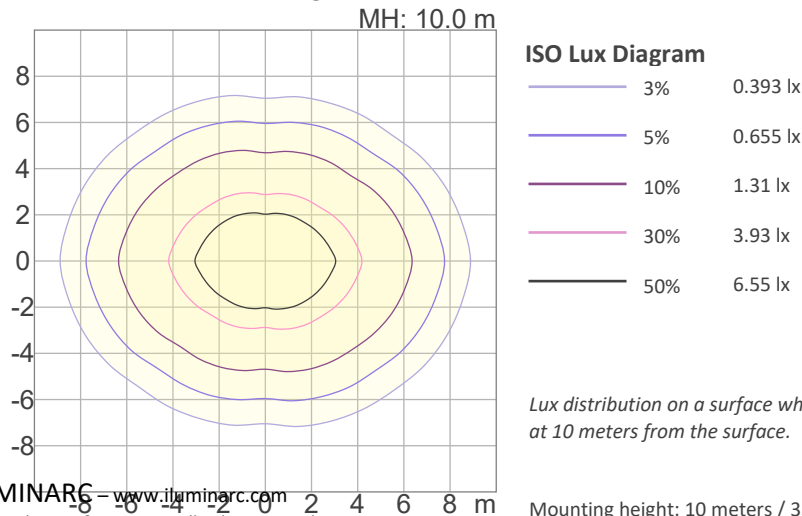
Logic GZL: Standard Optics - Red Only



ISO Diagrams



Conditions:
 Number of c-planes: 8
 Candela at center: 1309 cd



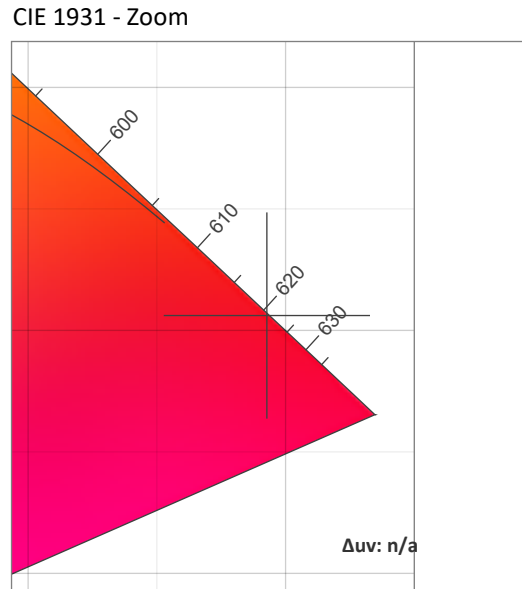
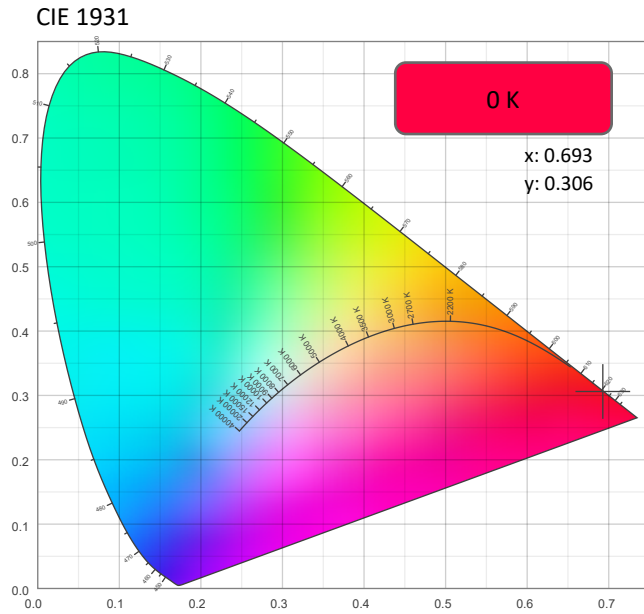
Conditions:
 Number of c-planes: 8
 Candela at center: 13.1 lx

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

Photometric & Chromaticity Report

Logic GZL: 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	0.693	0.306

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.306	0.524

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

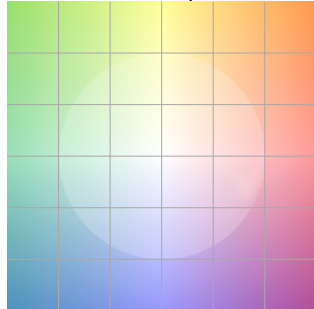
Logic GZL: Standard Optics - Red Only

TM-30 Details

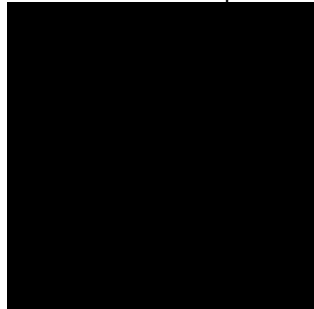
Rf 0.0
Fidelity Index
(Rg)

Rg 0.0
Gammut Index (Rg)

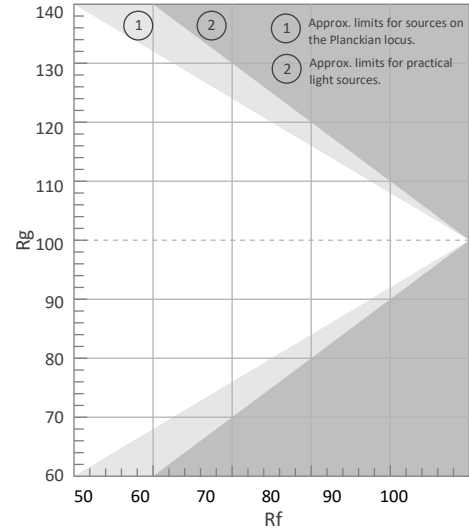
Color Vector Graphic



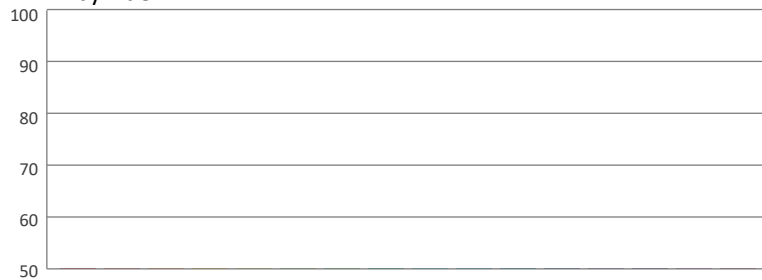
Color Distortion Graphic



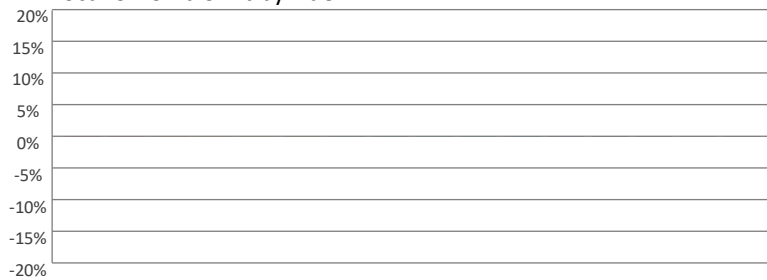
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



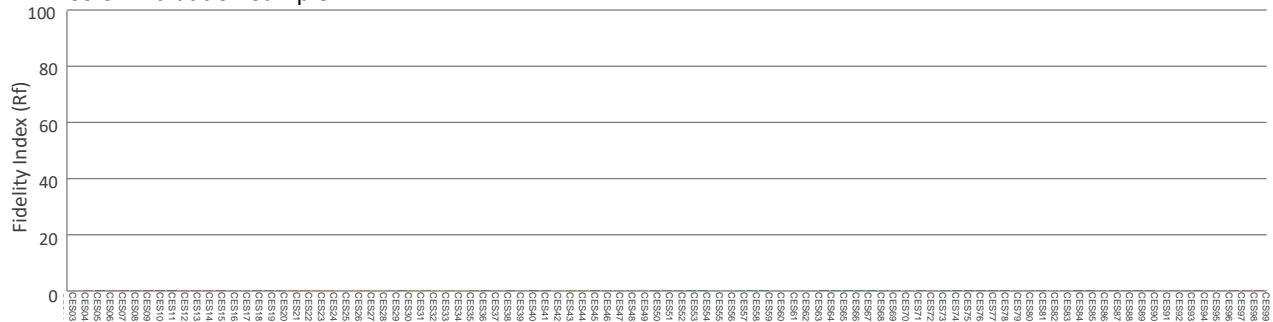
R_f by Hue



Local Chroma Shift by Hue



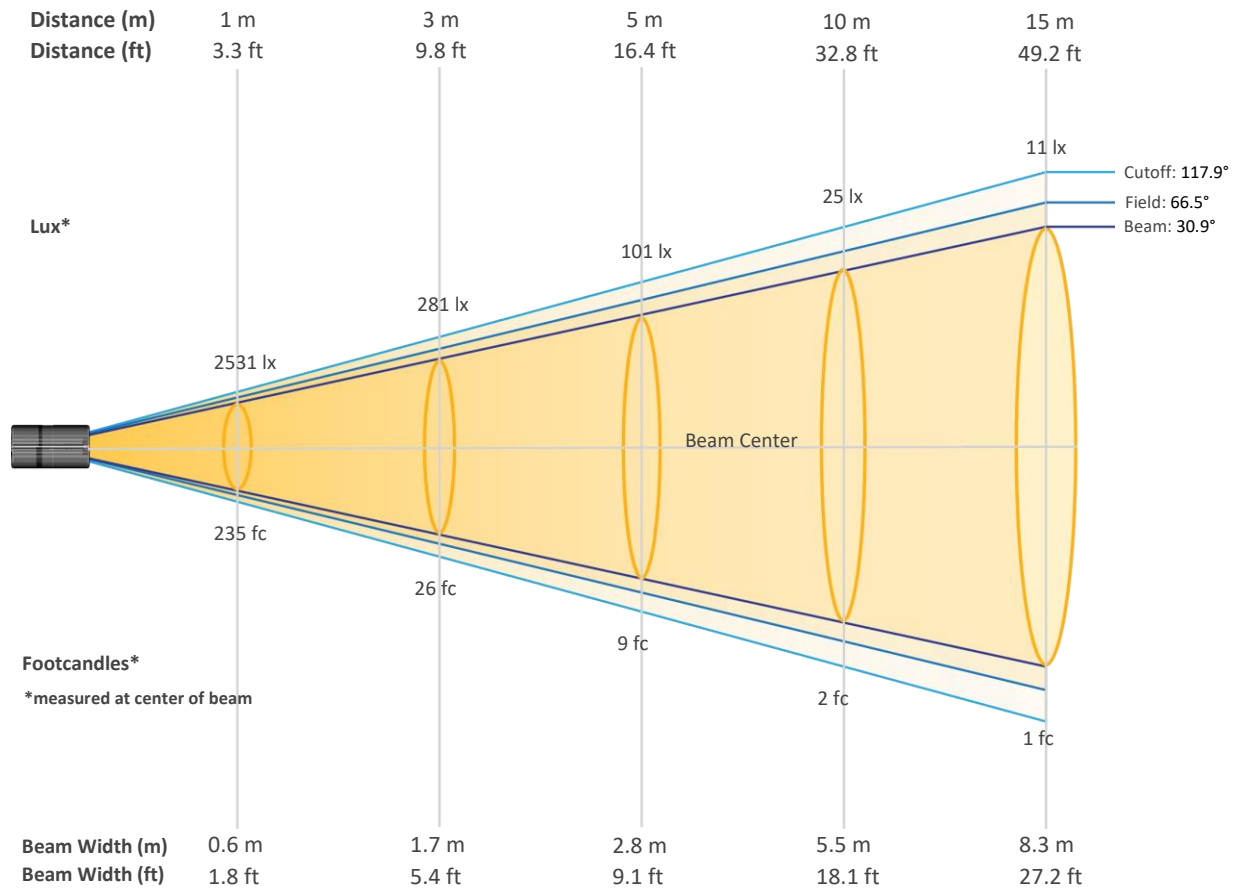
Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZL: 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	2531	633	281	158	101	70	52	40	31	25
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	21	18	15	13	11	10	9	8	7	6
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	235	59	26	15	9	7	5	4	3	2
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	2	2	1	1	1	1	1	1	1	1

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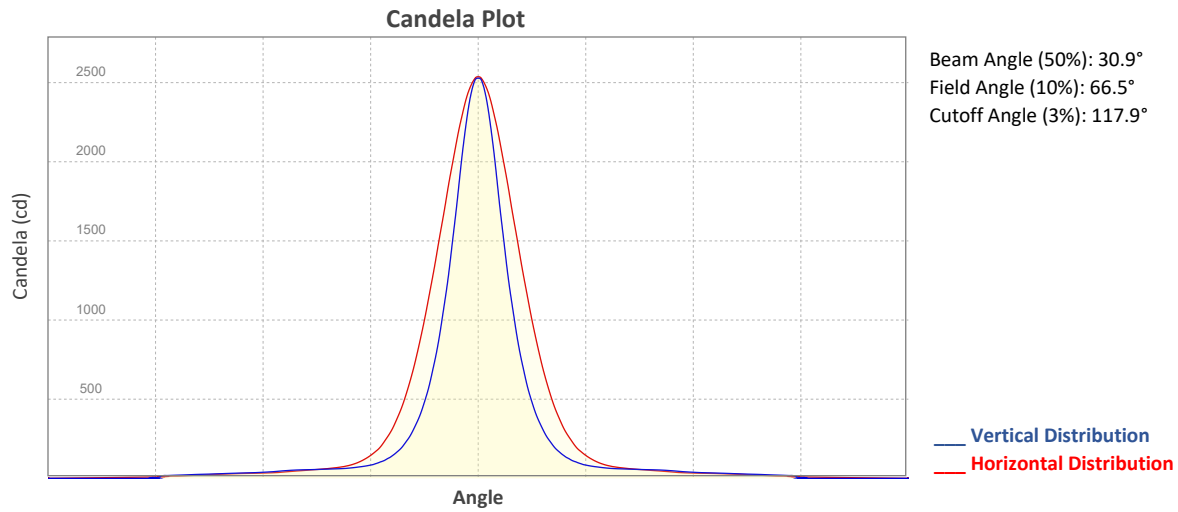
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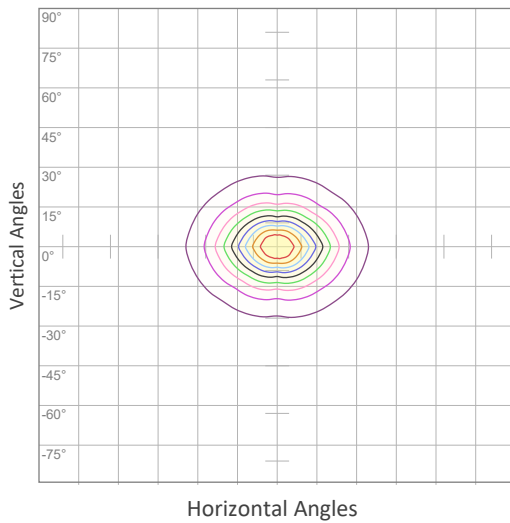
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Photometric & Chromaticity Report

Logic GZL: Standard Optics - Green Only



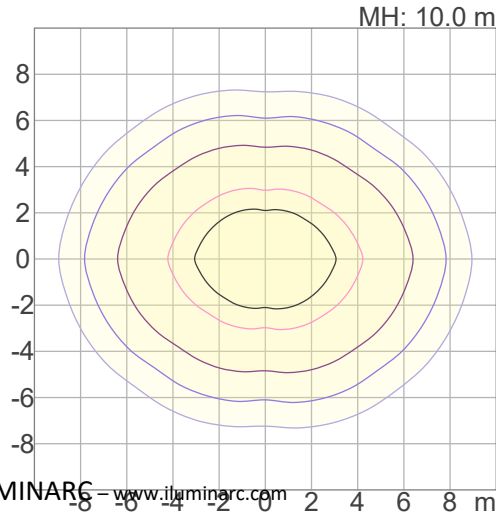
ISO Diagrams



ISO Candela Diagram

10%	253 cd
20%	506 cd
30%	759 cd
40%	1012 cd
50%	1265 cd
60%	1518 cd
70%	1771 cd
80%	2025 cd
90%	2278 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 2531 cd



ISO Lux Diagram

3%	0.759 lx
5%	1.27 lx
10%	2.53 lx
30%	7.59 lx
50%	12.7 lx

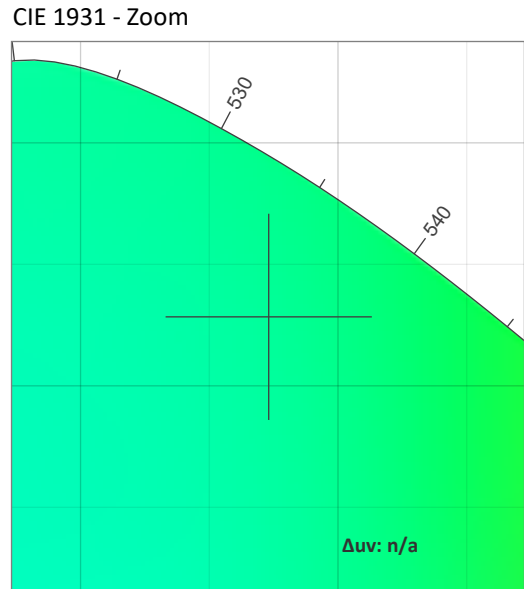
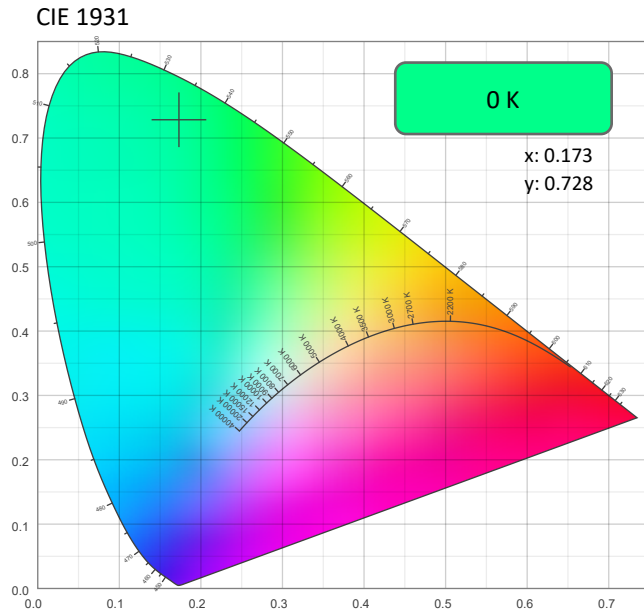
Conditions:
 Number of c-planes: 8
 Candela at center: 25.3 lx

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

Photometric & Chromaticity Report

Logic GZL: 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	0.173	0.728

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.728	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

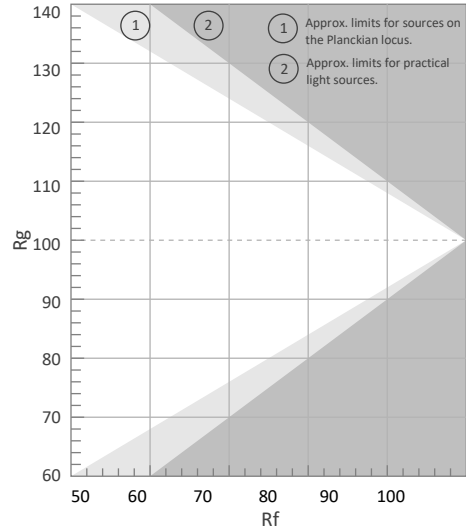
Logic GZL: Standard Optics - Green Only

TM-30 Details

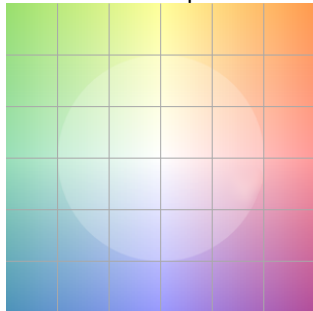
Rf 0.0
Fidelity Index (Rg)

Rg 0.0
Gammut Index (Rg)

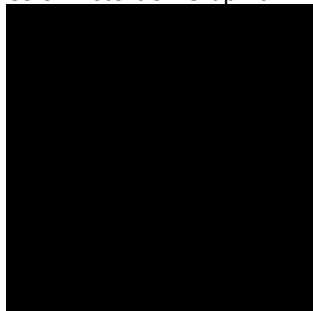
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



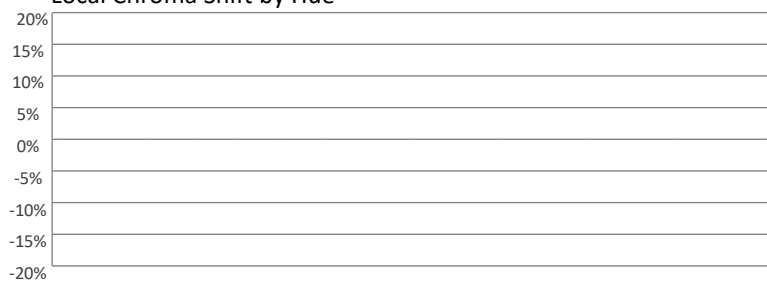
Color Distortion Graphic



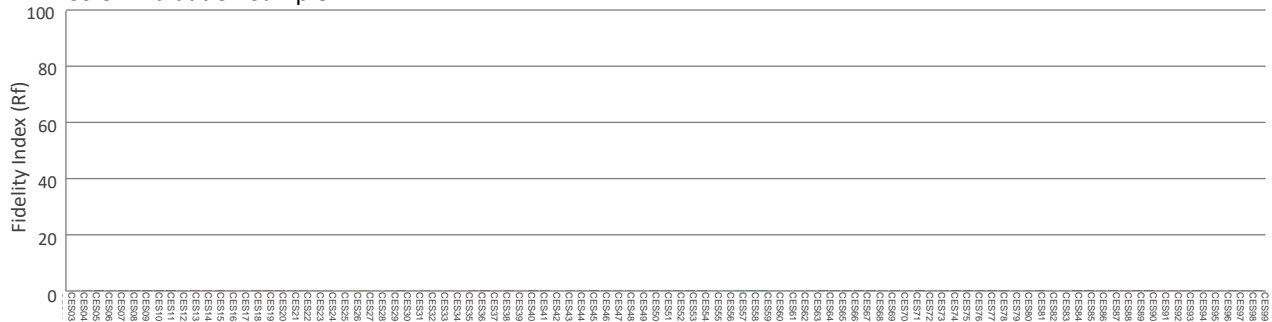
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZL: Standard Optics - Blue Only

Report Summary

Measurements

Fixture Output: 521 lm

Fixture Peak: 767 cd

Fixture Efficacy: 16 lm/W

Intensity @ 5m: 31 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%): 35.7°

Field Angle (10%): 72.9°

Cutoff Angle (3%): 156.4°

Conditions

AC Supply: 119 V, 60.1 Hz

Power: 35.47 W

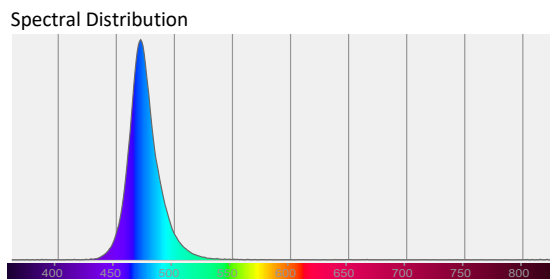
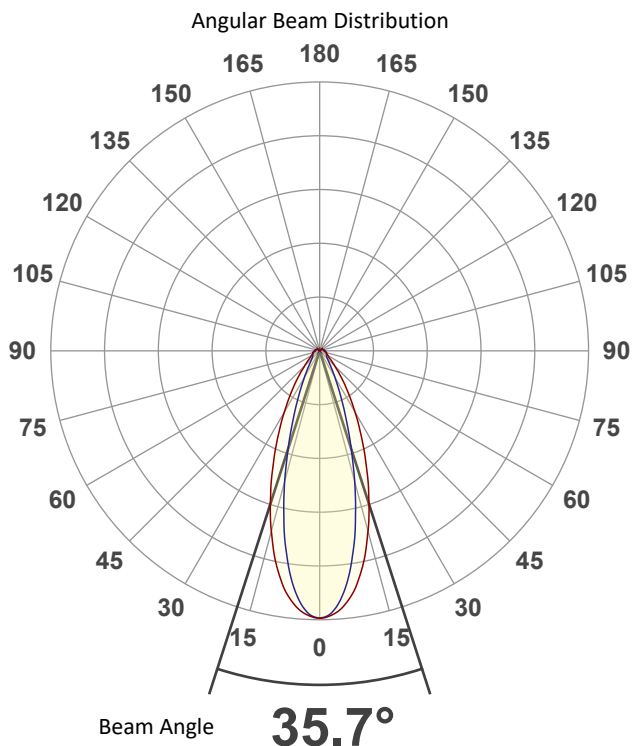
Current: 0.298 A

Power Factor: 0.94



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

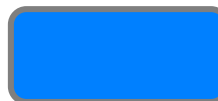
Overall Measurement



Tested Color (CIE 1931):

X: 0.119

Y: 0.095



Light Quality

CRI: 0.0

Color Temperature

0 K

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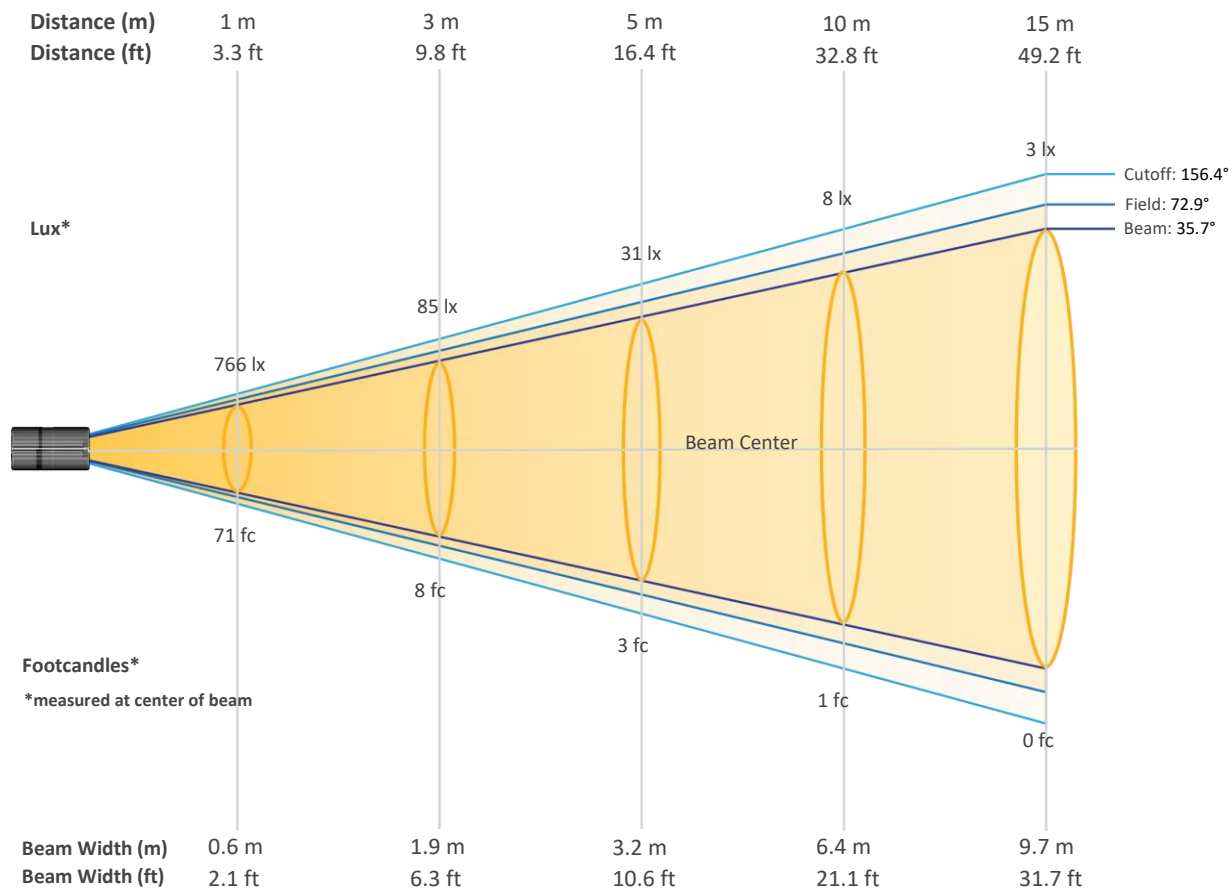
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Photometric & Chromaticity Report

Logic GZL: 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	766	192	85	48	31	21	16	12	9	8
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	6	5	5	4	3	3	3	2	2	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	71	18	8	4	3	2	1	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	1	0	0	0	0	0	0	0	0	0

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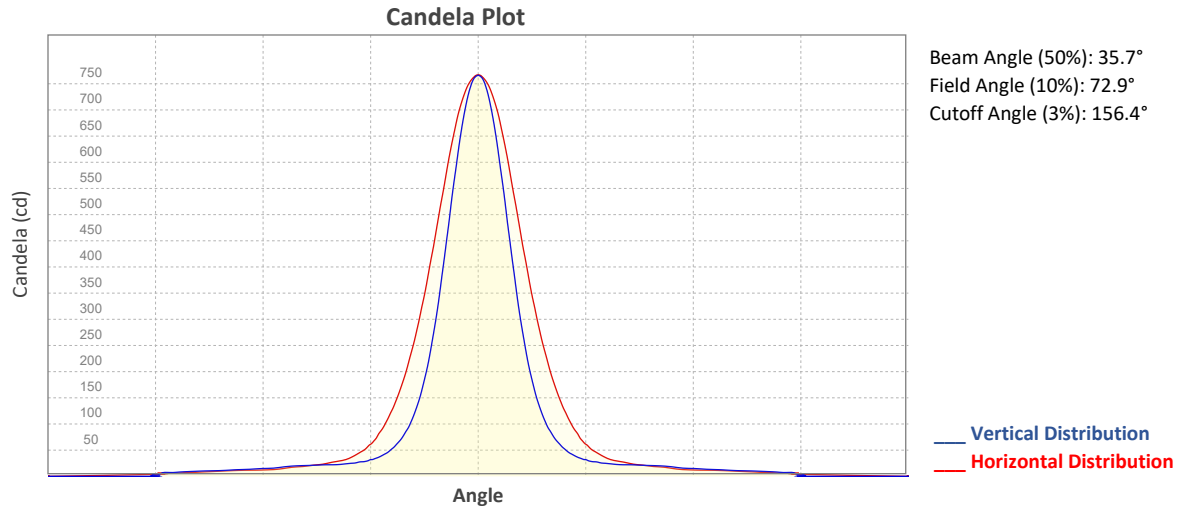
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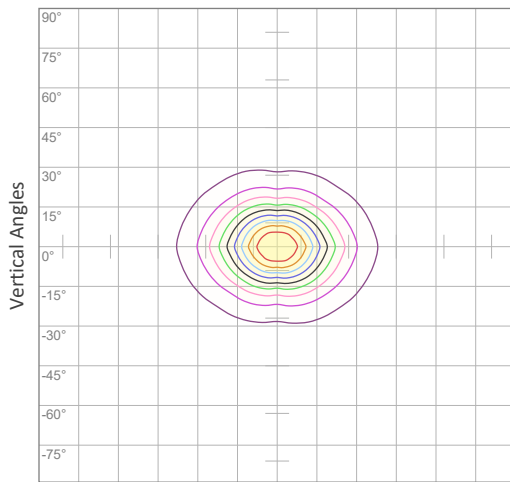
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Photometric & Chromaticity Report

Logic GZL: Standard Optics - Blue Only



ISO Diagrams



ISO Candela Diagram

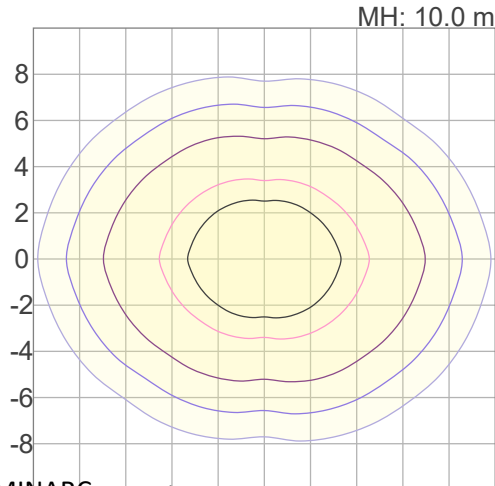
10%	77 cd
20%	153 cd
30%	230 cd
40%	307 cd
50%	383 cd
60%	460 cd
70%	536 cd
80%	613 cd
90%	690 cd

Conditions:

Number of c-planes: 8

Candela at center: 766 cd

Horizontal Angles



ISO Lux Diagram

3%	0.230 lx
5%	0.383 lx
10%	0.766 lx
30%	2.30 lx
50%	3.83 lx

Conditions:

Number of c-planes: 8

Candela at center: 7.66 lx

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

Photometric & Chromaticity Report

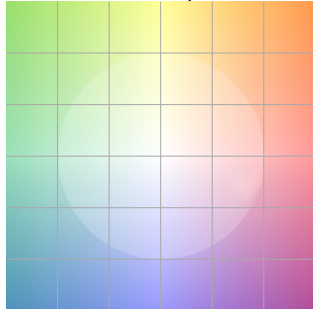
Logic GZL: Standard Optics - Blue Only

TM-30 Details

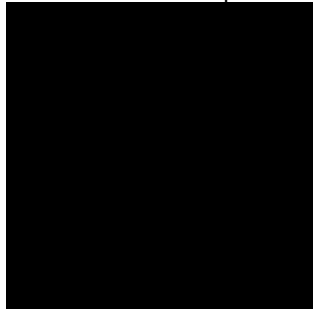
Rf 0.0
Fidelity Index
(Rg)

Rg 0.0
Gammut Index (Rg)

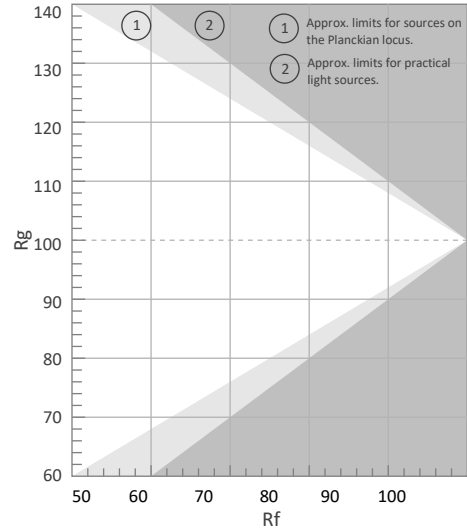
Color Vector Graphic



Color Distortion Graphic



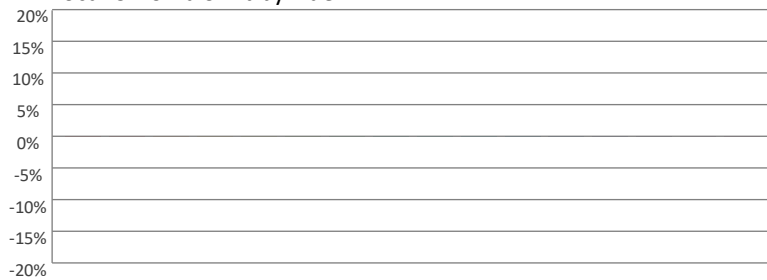
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
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13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



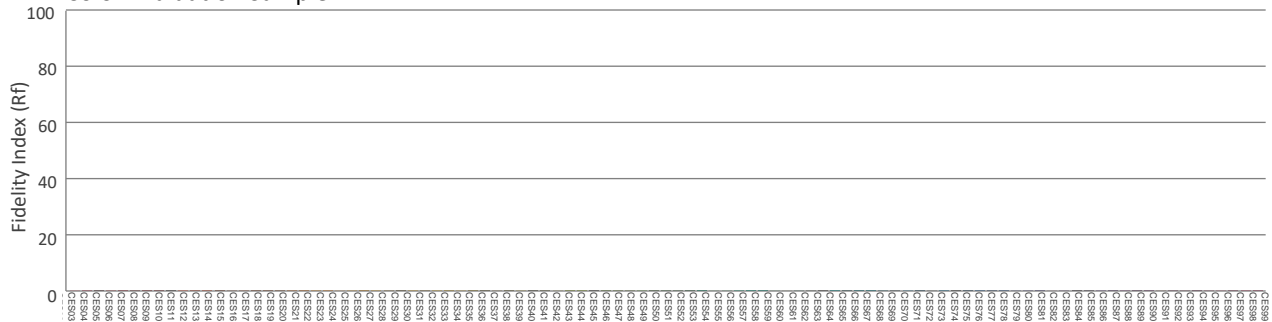
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZL: Standard Optics - Warm White Only

Report Summary

Measurements

Fixture Output: 2231 lm
Fixture Peak: 3420 cd
Fixture Efficacy: 67 lm/W
Intensity @ 5m: 137 lux
Color Temperature: 3051 K
CRI: 84.4 CRI R9 Value: 13.8
CQS: 83.5
TLCI: 73
TM-30 Rf: 85.7
TM-30 Rg: 95.1
Beam Angle (50%): 35.4°
Field Angle (10%): 71.2°
Cutoff Angle (2%): 145.6°

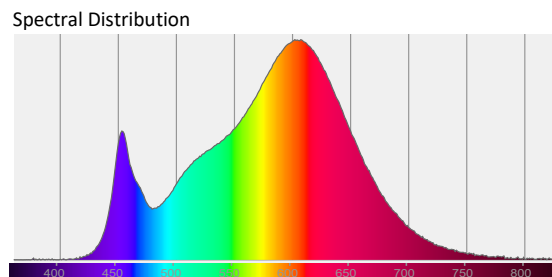
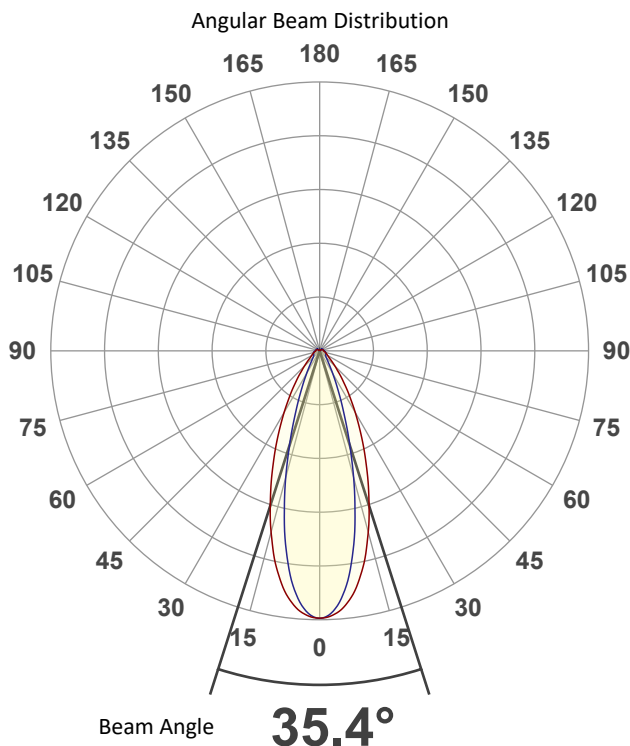
Conditions

AC Supply: 118 V, 60 Hz
Power: 35.16 W
Current: 0.298 A
Power Factor: 0.95



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

Overall Measurement



Tested Color (CIE 1931):
X: 0.432
Y: 0.400

Light Quality
CRI: 84.4

Color Temperature
3051 K

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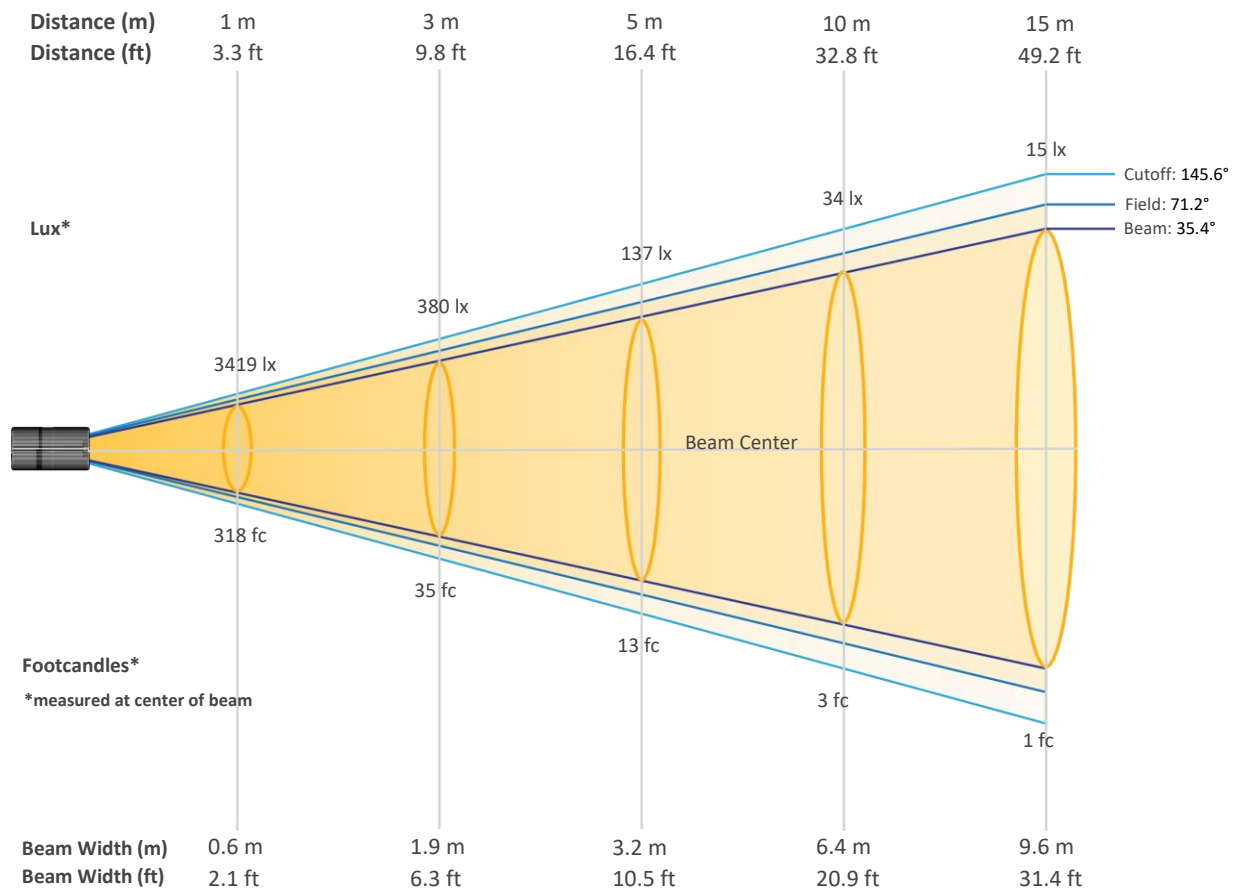
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Photometric & Chromaticity Report

Logic GZL: 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	3419	855	380	214	137	95	70	53	42	34
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	28	24	20	17	15	13	12	11	9	9
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	318	79	35	20	13	9	6	5	4	3
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	2	2	2	1	1	1	1	1	1

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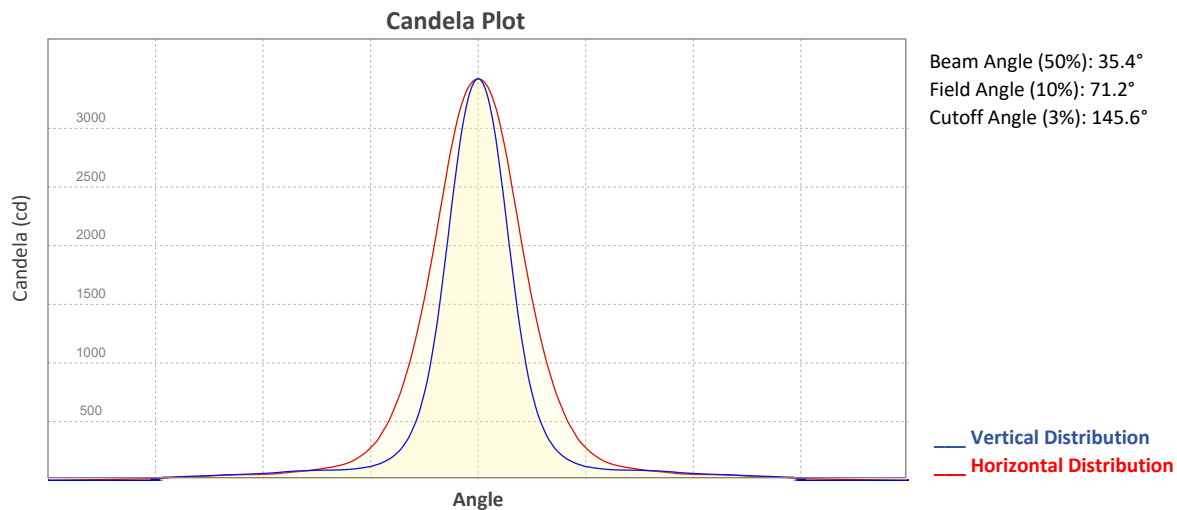
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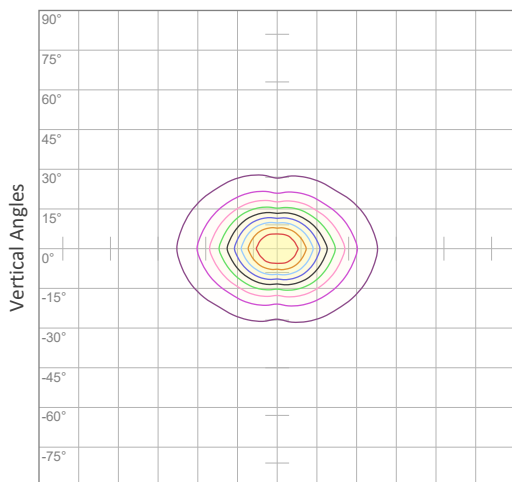
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Photometric & Chromaticity Report

Logic GZL: Standard Optics - Warm White Only



ISO Diagrams

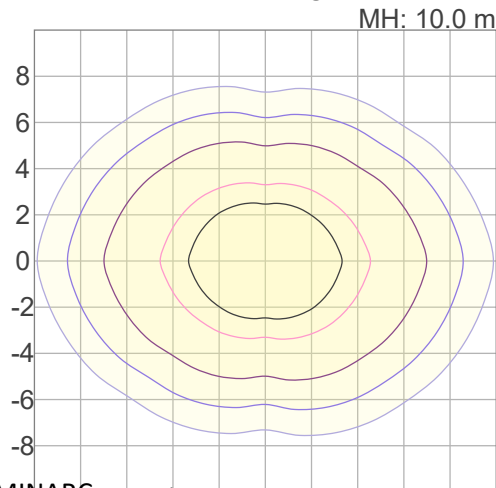


ISO Candela Diagram

10%	342 cd
20%	684 cd
30%	1026 cd
40%	1368 cd
50%	1709 cd
60%	2051 cd
70%	2393 cd
80%	2735 cd
90%	3077 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 3419 cd

Horizontal Angles



ISO Lux Diagram

3%	1.03 lx
5%	1.71 lx
10%	3.42 lx
30%	10.3 lx
50%	17.1 lx

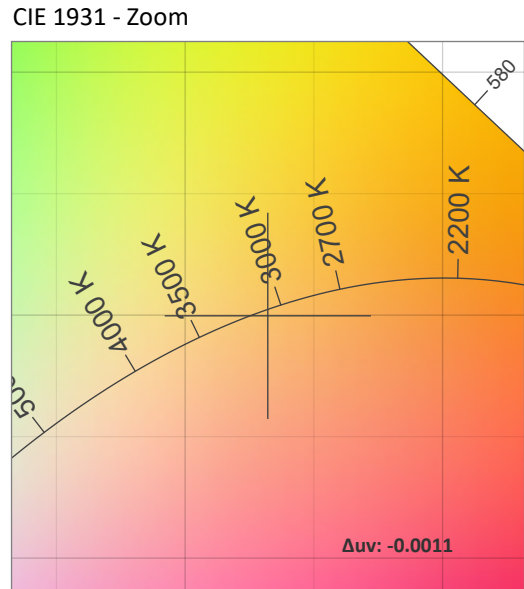
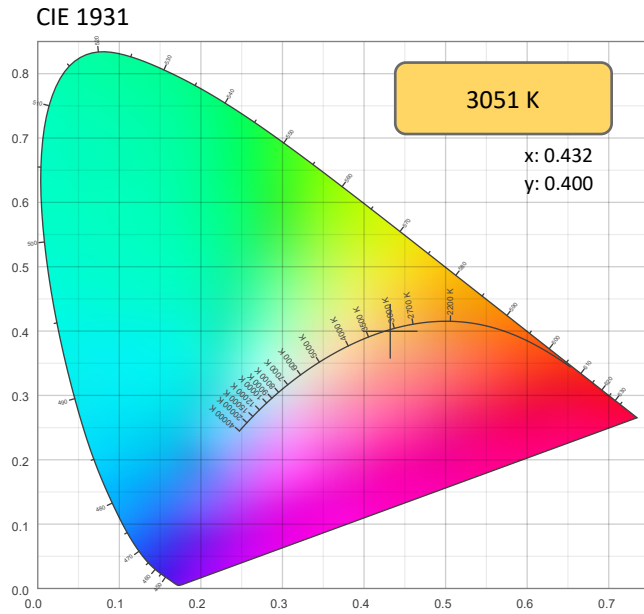
Conditions:
 Number of c-planes: 8
 Candela at center: 34.2 lx

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

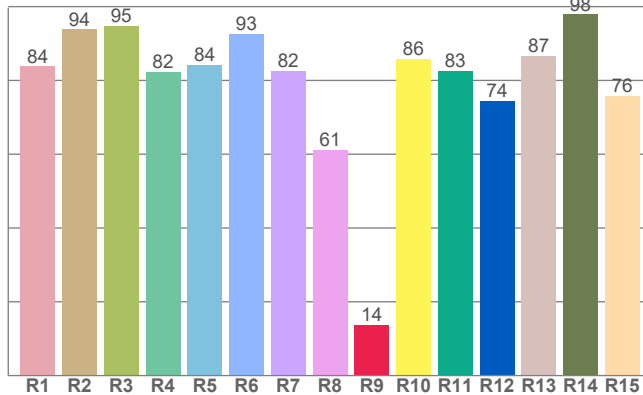
Photometric & Chromaticity Report

Logic GZL: Standard Optics - Warm White Only

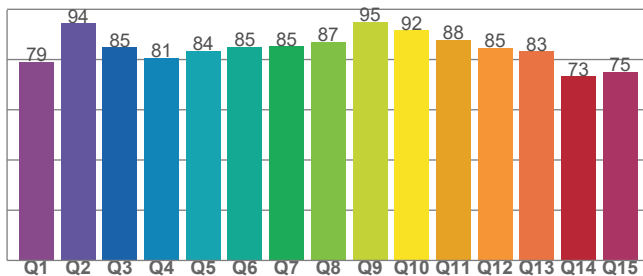
Chromaticity



CRI: 84.4 (R1-R8)



CQS: 83.5



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3051 K	0.432	0.400

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0011	0.400	0.249

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
84.4	13.8	83.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
73	85.7	95.1

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Photometric & Chromaticity Report

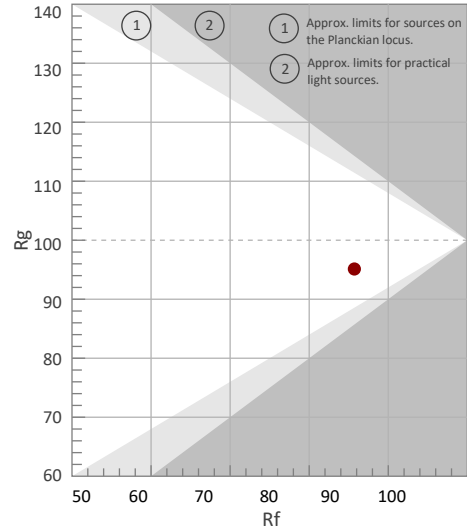
Logic GZL: Standard Optics - Warm White Only

TM-30 Details

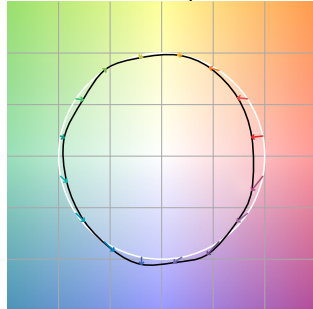
Rf 85.7
Fidelity Index (Rg)

Rg 95.1
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%	4%
5	92	-2%	2%
6	94	0%	-2%
7	88	-6%	-3%
8	93	-4%	1%
9	88	-5%	7%
10	81	-3%	11%
11	83	2%	12%
12	86	7%	1%
13	87	4%	-9%
14	80	4%	-16%
15	80	-4%	-12%
16	77	-8%	-15%



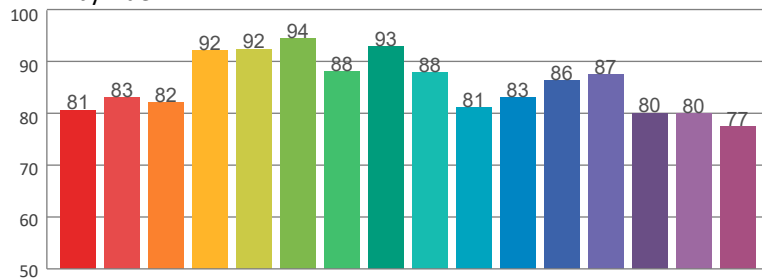
Color Vector Graphic



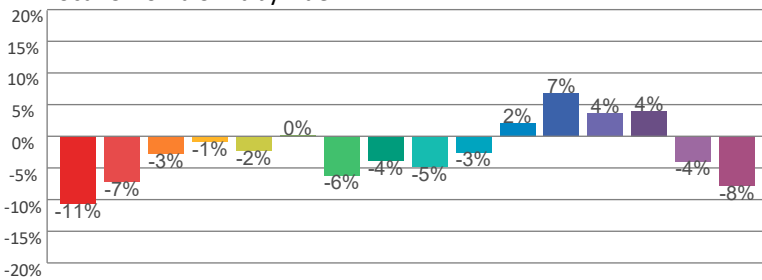
Color Distortion Graphic



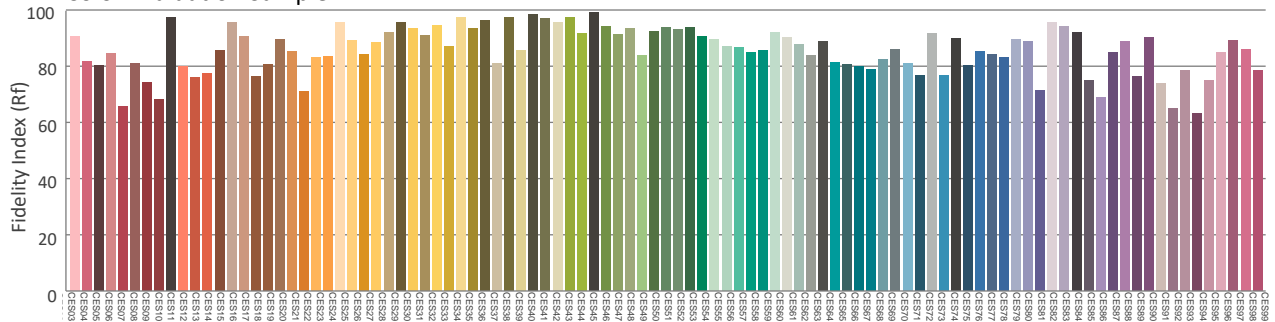
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 1800K

Report Summary

Measurements

Fixture Output: 2295 lm
Fixture Peak: 3789 cd
Fixture Efficacy: 49 lm/W
Intensity @ 5m: 151 lux
Color Temperature: 1860 K
CRI: 74.6 CRI R9 Value: 75.8
CQS: 67.0
TLCI: 46
TM-30 Rf: 76.0
TM-30 Rg: 119.1
Beam Angle (50%): 33.2°
Field Angle (10%): 68.8°
Cutoff Angle (2%): 121.1°

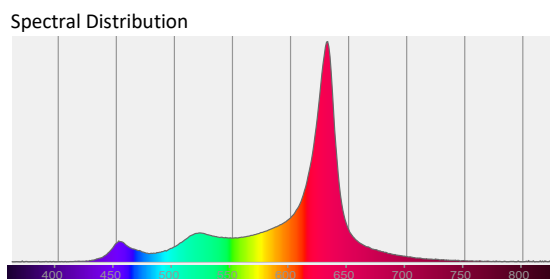
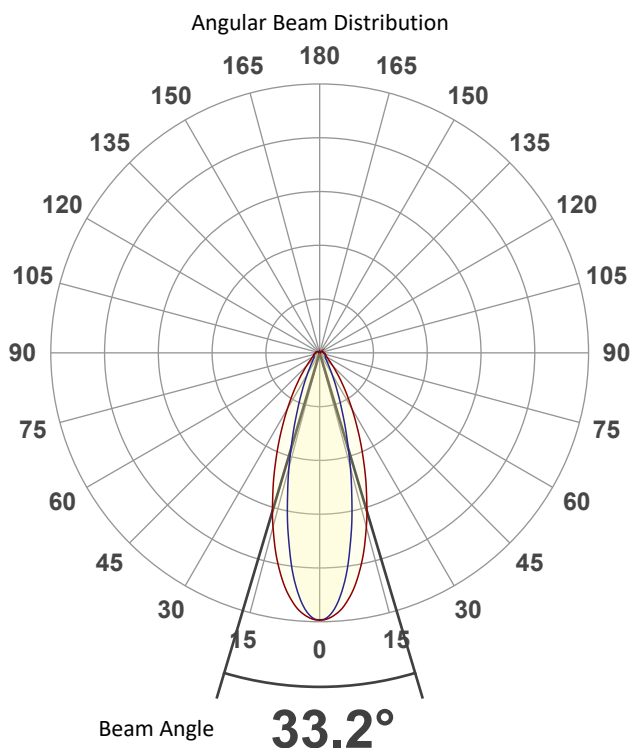
Conditions

AC Supply: 118 V, 60 Hz
Power: 49.07 W
Current: 0.414 A
Power Factor: 0.95



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

Overall Measurement



Tested Color (CIE 1931):

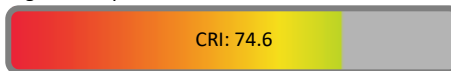
X: 0.518

Y: 0.379



Light Quality

CRI: 74.6



Color Temperature

1860 K



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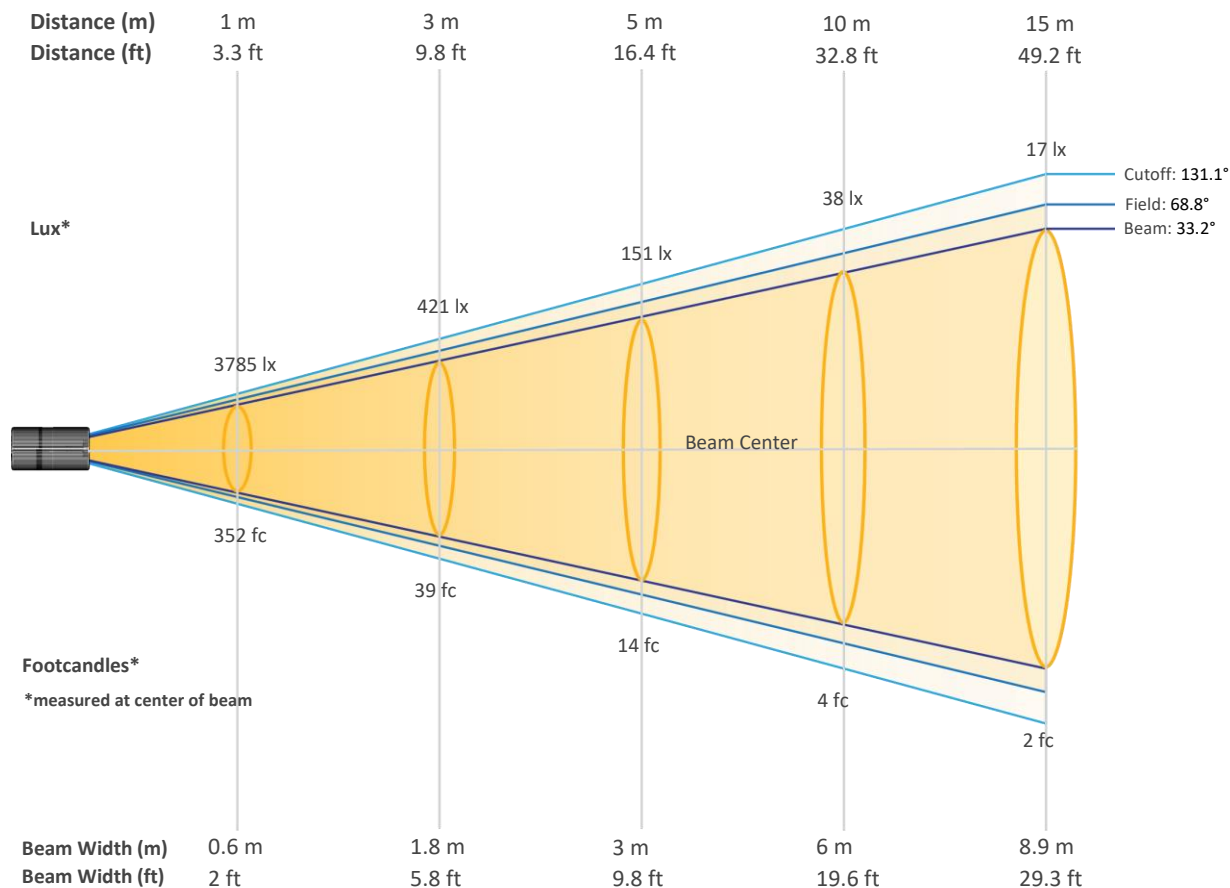
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Photometric & Chromaticity Report

Logic GZL: 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	3785	946	421	237	151	105	77	59	47	38
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	31	26	22	19	17	15	13	12	10	9
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	352	88	39	22	14	10	7	5	4	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	2	2	2	2	1	1	1	1	1

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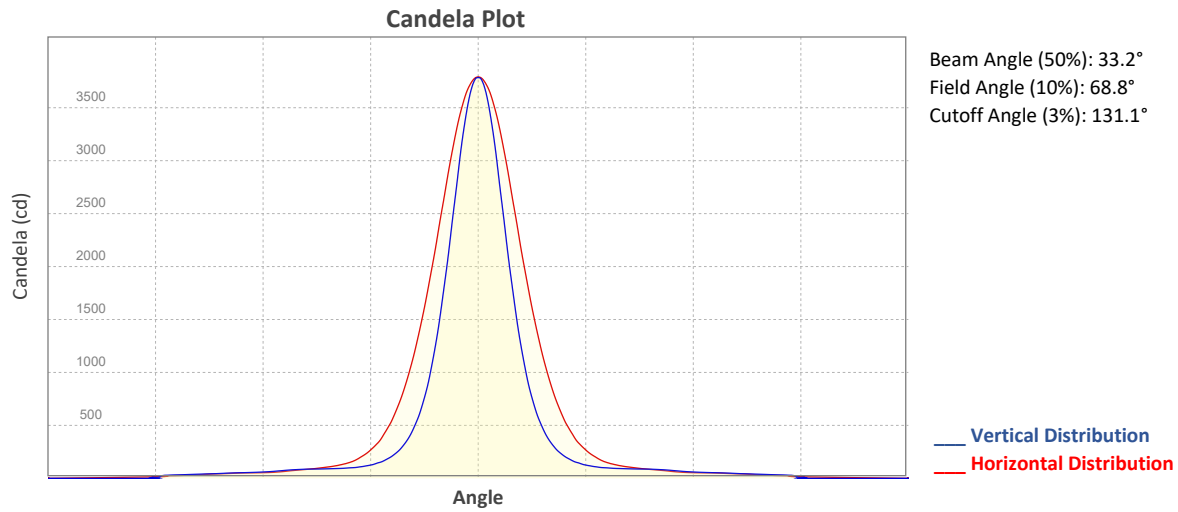
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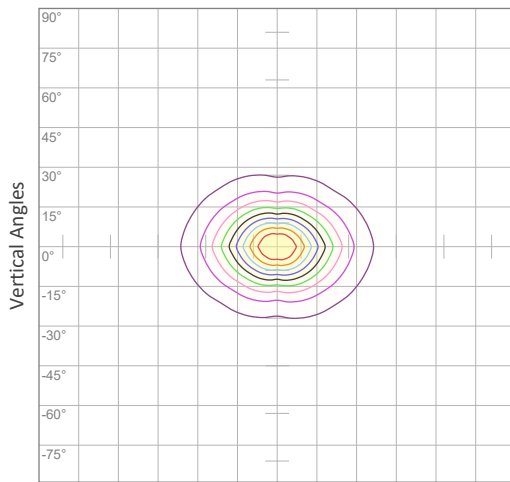
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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 1800K



ISO Diagrams



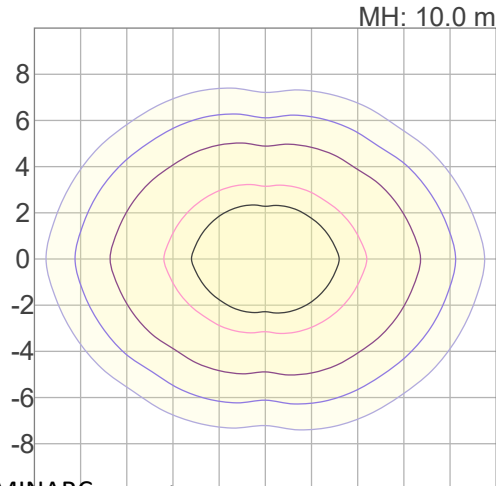
ISO Candela Diagram

10%	378 cd
20%	757 cd
30%	1135 cd
40%	1514 cd
50%	1892 cd
60%	2271 cd
70%	2649 cd
80%	3028 cd
90%	3406 cd

Conditions:

Number of c-planes: 8
Candela at center: 3785 cd

Horizontal Angles



ISO Lux Diagram

3%	1.14 lx
5%	1.89 lx
10%	3.78 lx
30%	11.4 lx
50%	18.9 lx

Conditions:

Number of c-planes: 8
Candela at center: 37.8 lx

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

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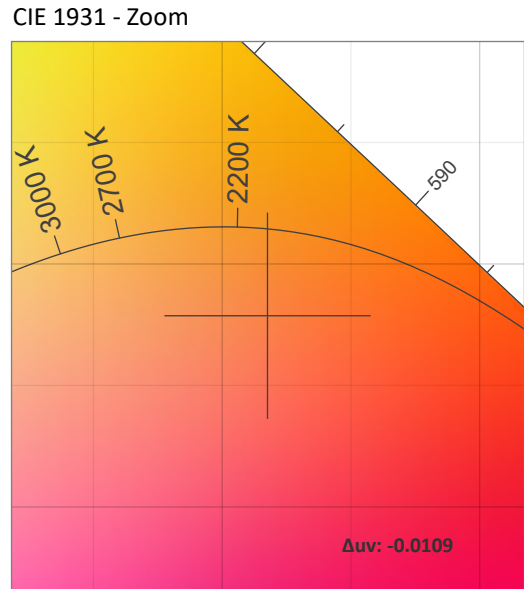
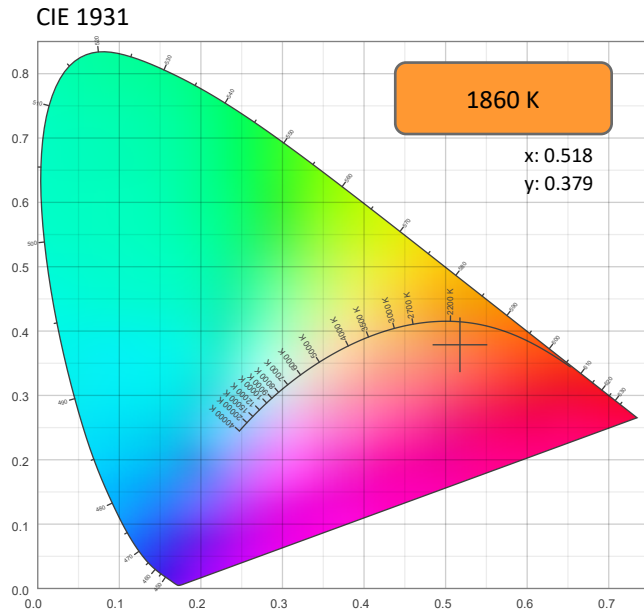
Mounting height: 10 meters / 33 feet

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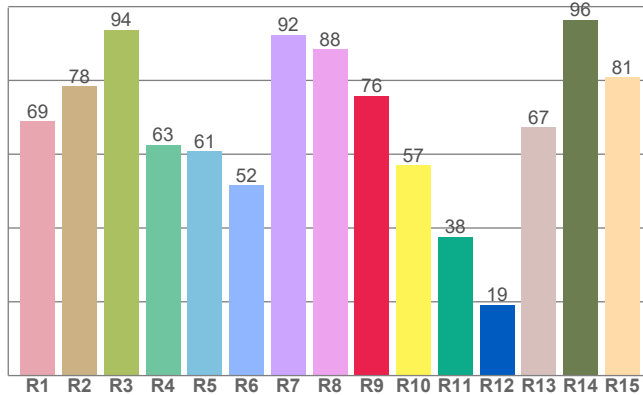
Photometric & Chromaticity Report

Logic GZL: Standard Optics - 1800K

Chromaticity



CRI: 74.6 (R1-R8)

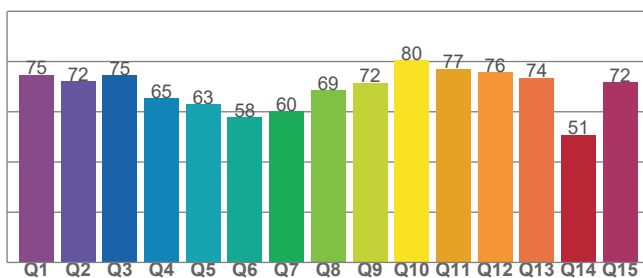


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
1860 K	0.518	0.379

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0109	0.379	0.318

CQS: 67.0



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
74.6	75.8	67.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
46	76.0	119.1

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Photometric & Chromaticity Report

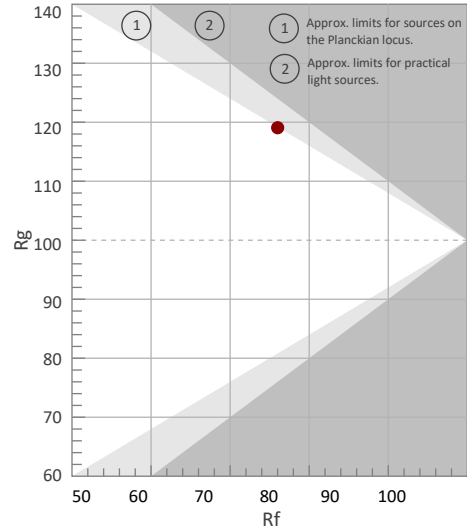
Logic GZL: Standard Optics - 1800K

TM-30 Details

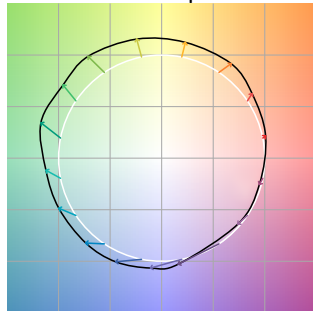
Rf 76.0
Fidelity Index
(Rg)

Rg 119.1
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	85	3%	2%
2	79	8%	3%
3	72	14%	-5%
4	80	15%	-1%
5	82	18%	1%
6	73	22%	5%
7	72	19%	-6%
8	69	22%	-11%
9	71	12%	-10%
10	71	10%	-15%
11	72	9%	-15%
12	63	7%	-24%
13	71	2%	-31%
14	56	-6%	-44%
15	81	-3%	-12%
16	87	-2%	-7%



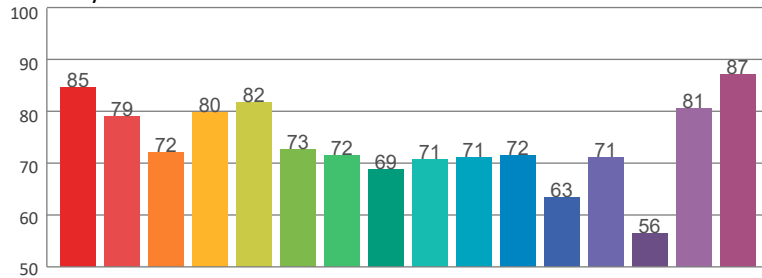
Color Vector Graphic



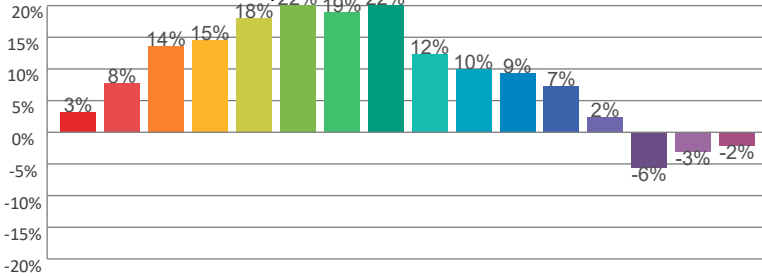
Color Distortion Graphic



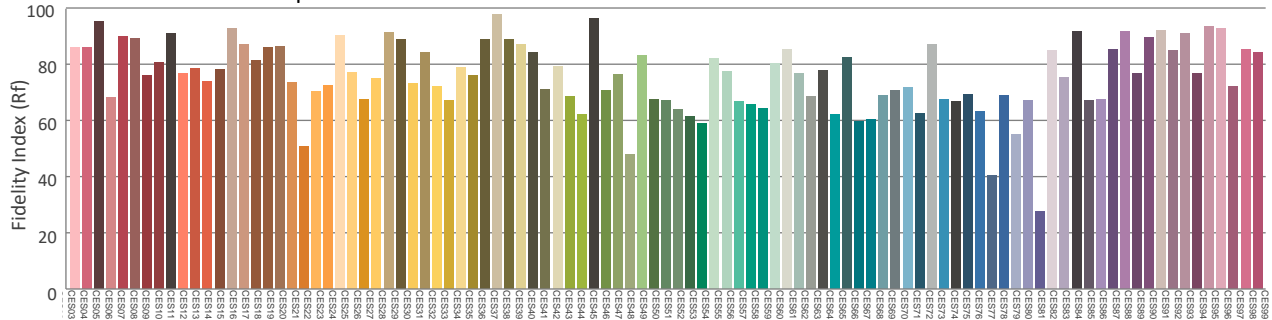
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 2200K

Report Summary

Measurements

Fixture Output: 2901 lm
Fixture Peak: 4665 cd
Fixture Efficacy: 58 lm/W
Intensity @ 5m: 187 lux
Color Temperature: 2244 K
CRI: 85.5 CRI R9 Value: 88.6
CQS: 84.5
TLCI: 71
TM-30 Rf: 86.7
TM-30 Rg: 111.1
Beam Angle (50%): 33.9°
Field Angle (10%): 69.7°
Cutoff Angle (2%): 136.2°

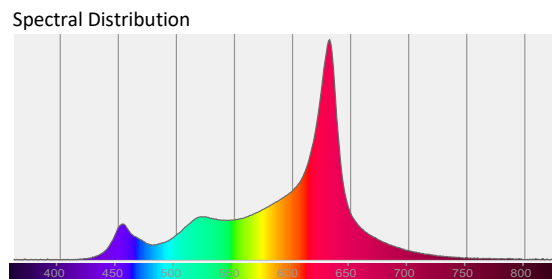
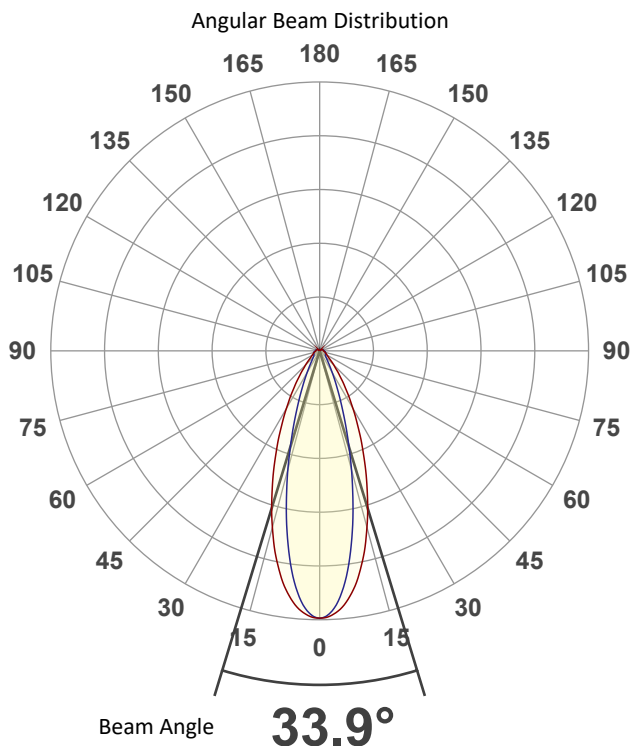
Conditions

AC Supply: 119 V, 60.1 Hz
Power: 52.32 W
Current: 0.439 A
Power Factor: 0.95



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

Overall Measurement



Tested Color (CIE 1931):
X: 0.483
Y: 0.389



Light Quality
CRI: 85.5

Color Temperature
2244 K

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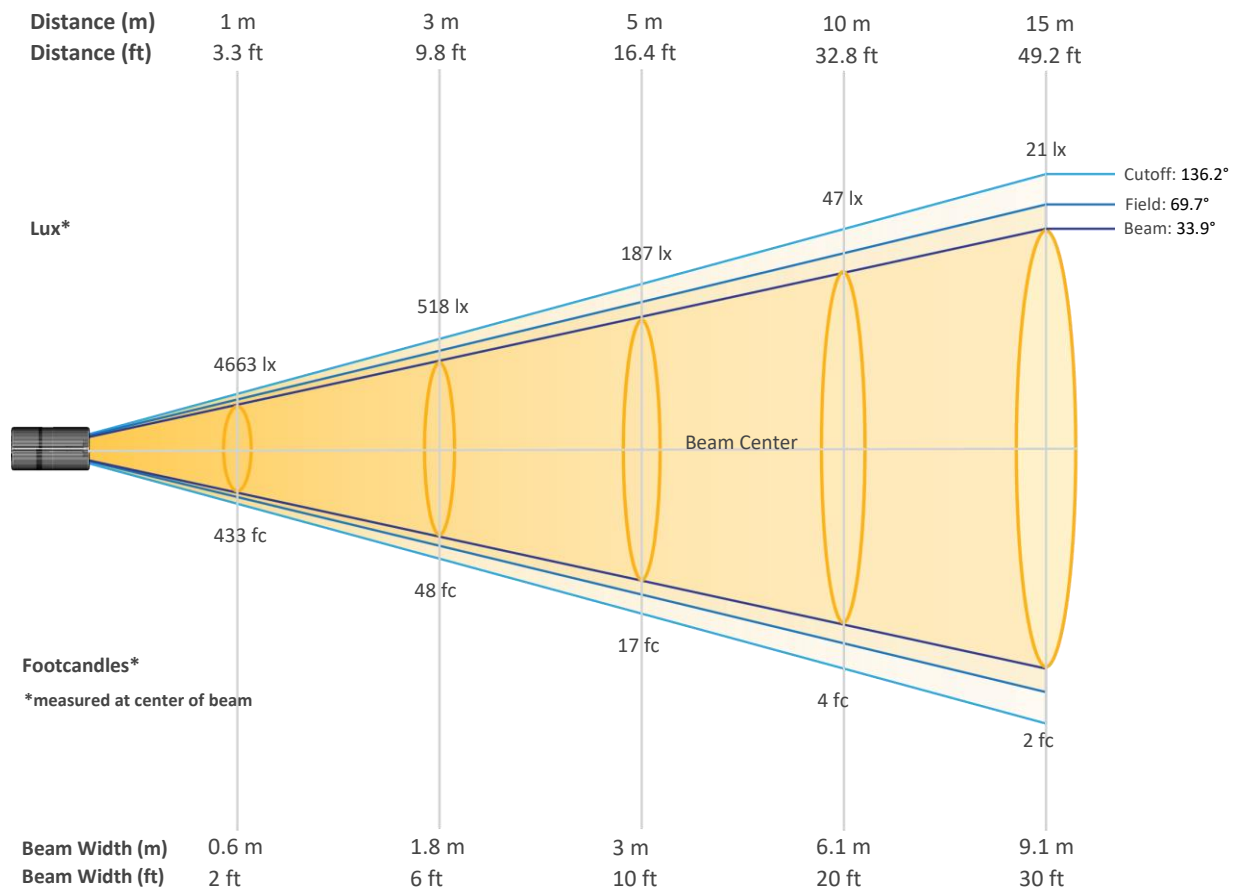
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Photometric & Chromaticity Report

Logic GZL: 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	4663	1166	518	291	187	130	95	73	58	47
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	39	32	28	24	21	18	16	14	13	12
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	433	108	48	27	17	12	9	7	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	4	3	3	2	2	2	1	1	1	1

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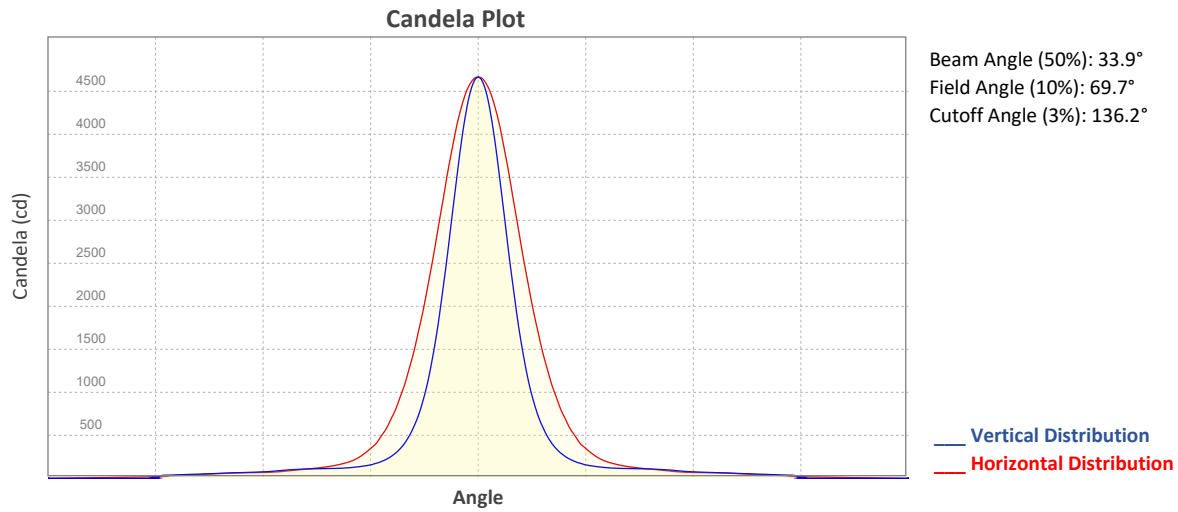
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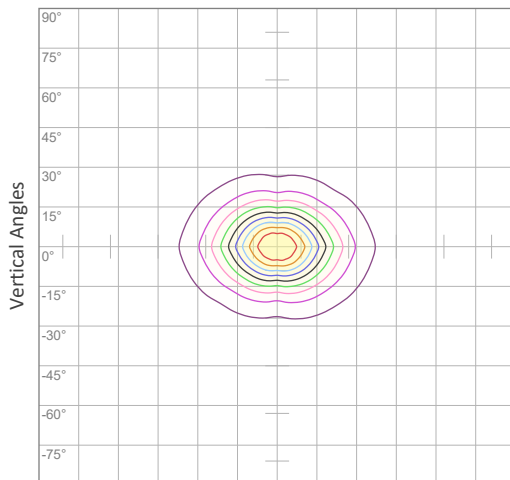
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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 2200K



ISO Diagrams

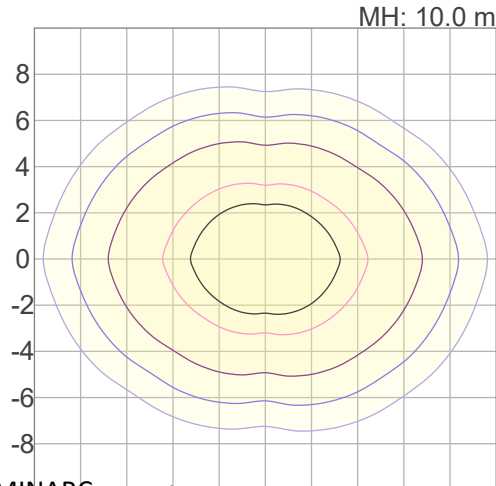


ISO Candela Diagram

10%	466 cd
20%	933 cd
30%	1399 cd
40%	1865 cd
50%	2332 cd
60%	2798 cd
70%	3264 cd
80%	3731 cd
90%	4197 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 4663 cd

Horizontal Angles



ISO Lux Diagram

3%	1.40 lx
5%	2.33 lx
10%	4.66 lx
30%	14.0 lx
50%	23.3 lx

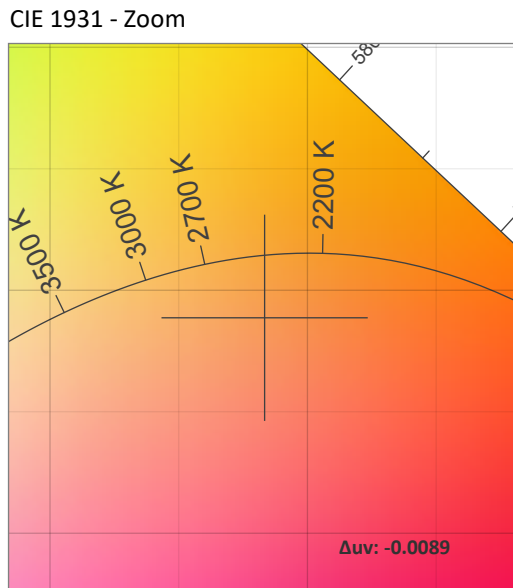
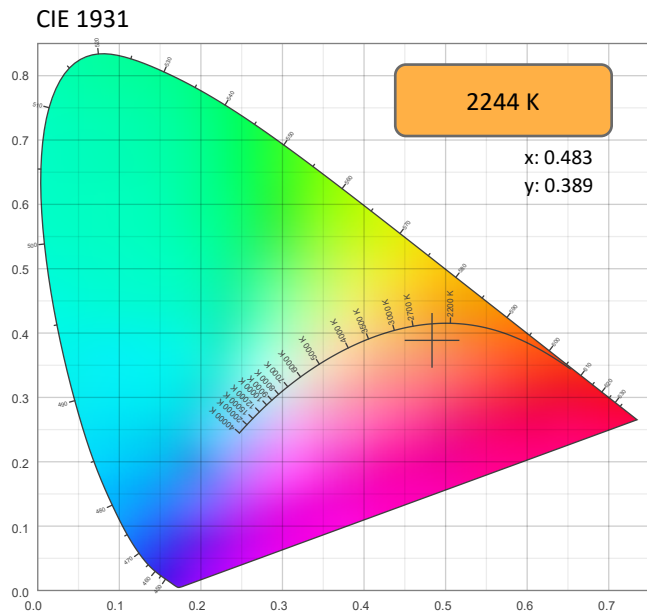
Conditions:
 Number of c-planes: 8
 Candela at center: 46.6 lx

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

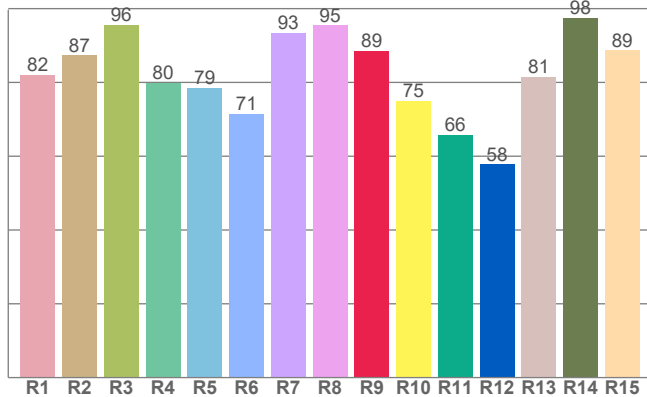
Photometric & Chromaticity Report

Logic GZL: Standard Optics - 2200K

Chromaticity



CRI: 85.5 (R1-R8)

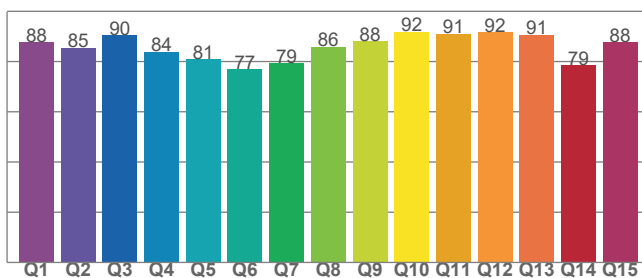


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2244 K	0.483	0.389

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0089	0.389	0.289

CQS: 84.5



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
85.5	88.6	84.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
71	86.7	111.1

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Photometric & Chromaticity Report

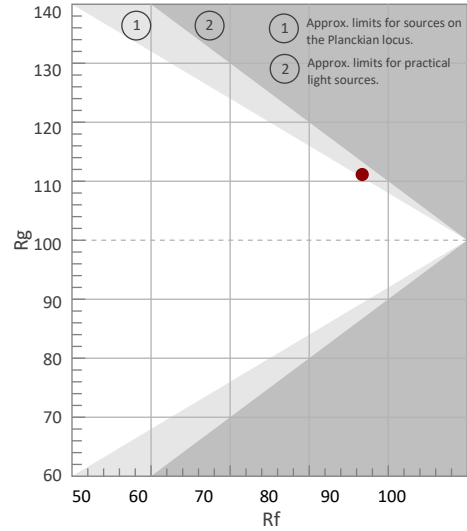
Logic GZL: Standard Optics - 2200K

TM-30 Details

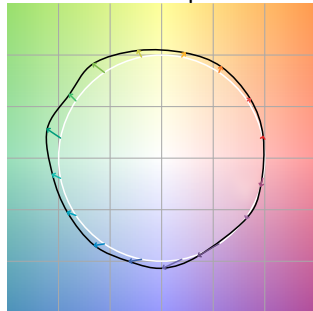
Rf 86.7
Fidelity Index (Rg)

Rg 111.1
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	92	1%	1%
2	90	3%	0%
3	84	6%	1%
4	91	5%	-2%
5	91	7%	2%
6	82	13%	4%
7	86	9%	-2%
8	81	14%	-6%
9	84	7%	-5%
10	86	5%	-7%
11	86	7%	-7%
12	82	4%	-11%
13	81	5%	-20%
14	67	-1%	-23%
15	92	1%	-3%
16	88	0%	-8%



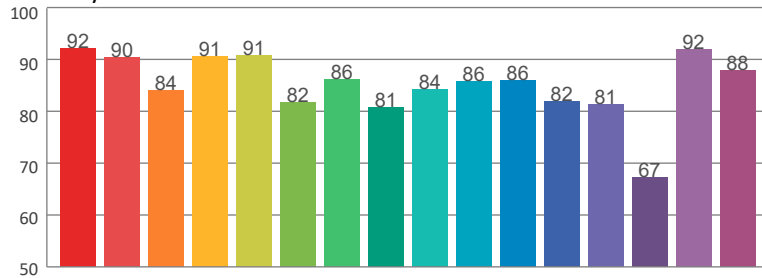
Color Vector Graphic



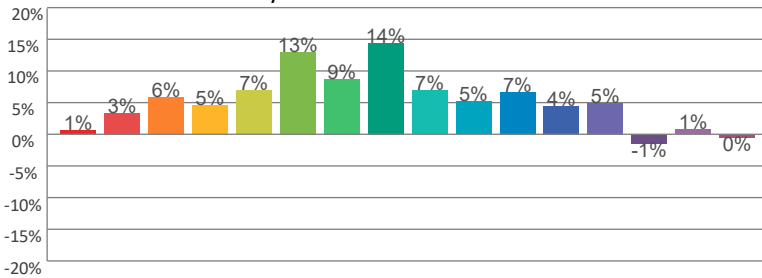
Color Distortion Graphic



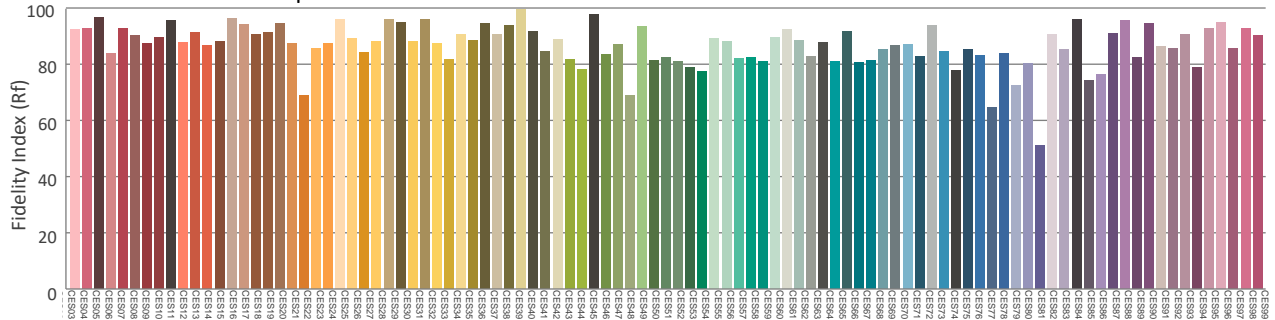
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 2700K

Report Summary

Measurements

Fixture Output: 1821 lm
 Fixture Peak: 2939 cd
 Fixture Efficacy: 53 lm/W
 Intensity @ 5m: 117 lux
 Color Temperature: 2675 K
 CRI: 89.0 CRI R9 Value: 89.0
 CQS: 90.0
 TLCI: 78
 TM-30 Rf: 89.7
 TM-30 Rg: 104.6
 Beam Angle (50%): 33.9°
 Field Angle (10%): 69.8°
 Cutoff Angle (2%): 133.9°

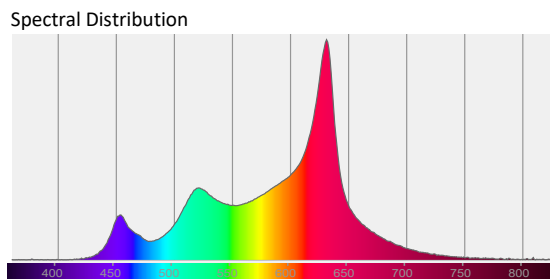
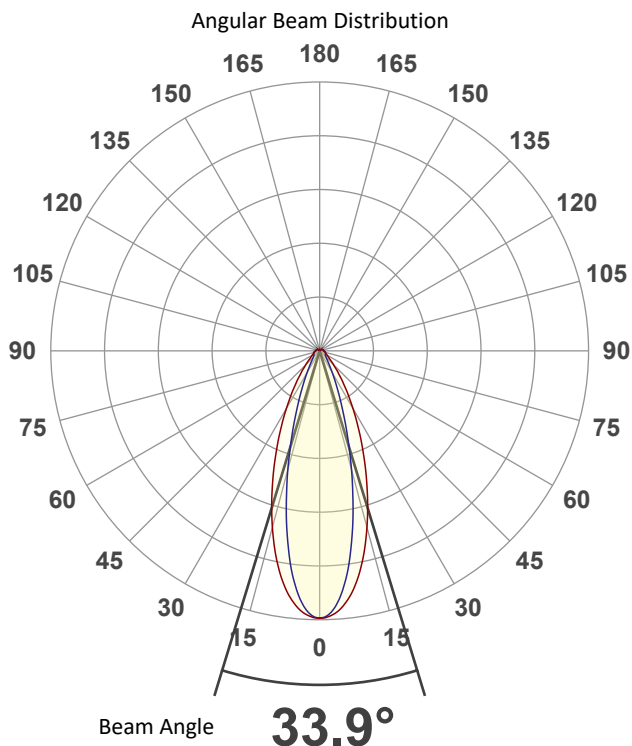
Conditions

AC Supply: 119 V, 60 Hz
 Power: 36.63 W
 Current: 0.307 A
 Power Factor: 0.95



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

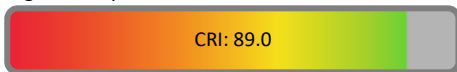
Overall Measurement



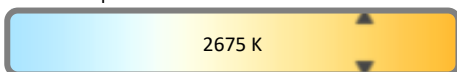
Tested Color (CIE 1931):
 X: 0.460
 Y: 0.407



Light Quality
 CRI: 89.0



Color Temperature
 2675 K



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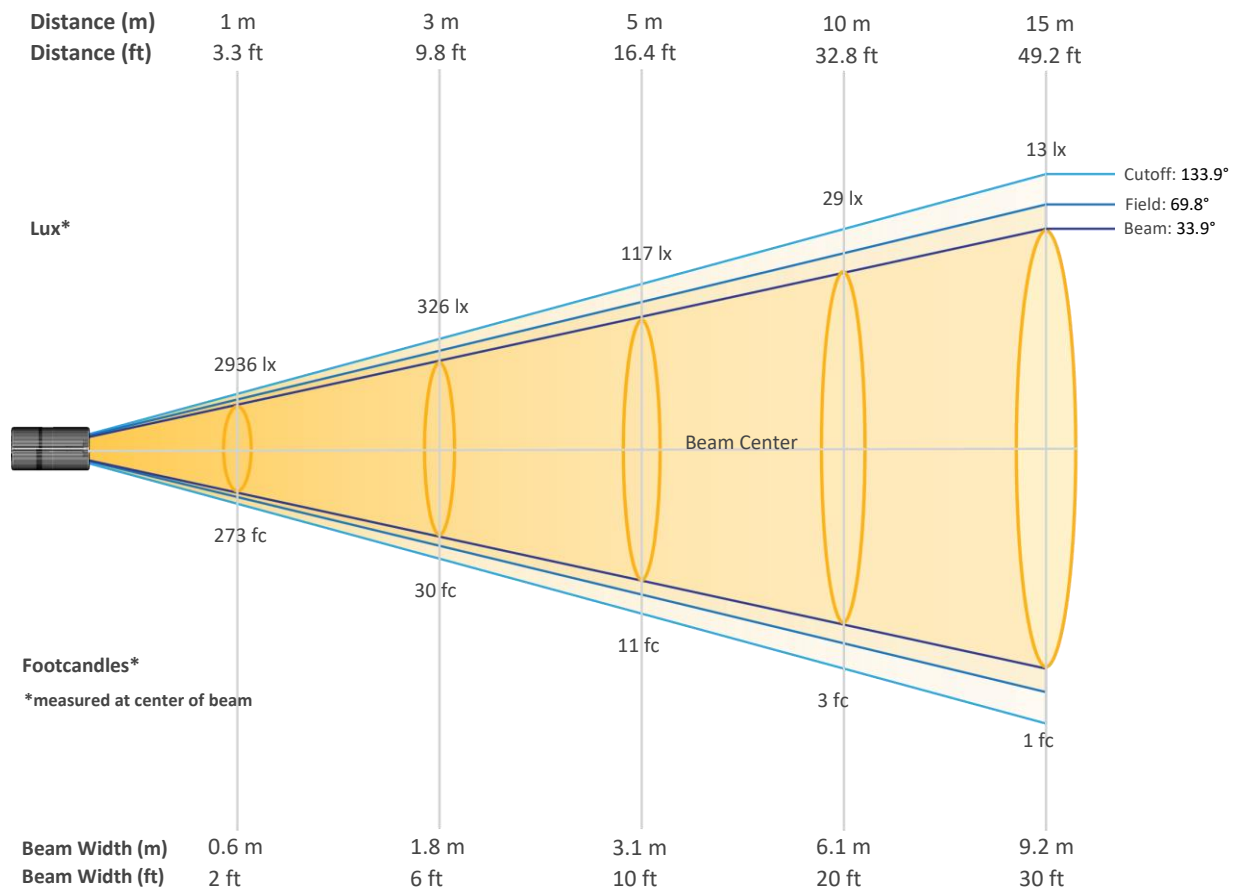
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Photometric & Chromaticity Report

Logic GZL: 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	2936	734	326	184	117	82	60	46	36	29
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	24	20	17	15	13	11	10	9	8	7
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	273	68	30	17	11	8	6	4	3	3
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	2	2	2	1	1	1	1	1	1	1

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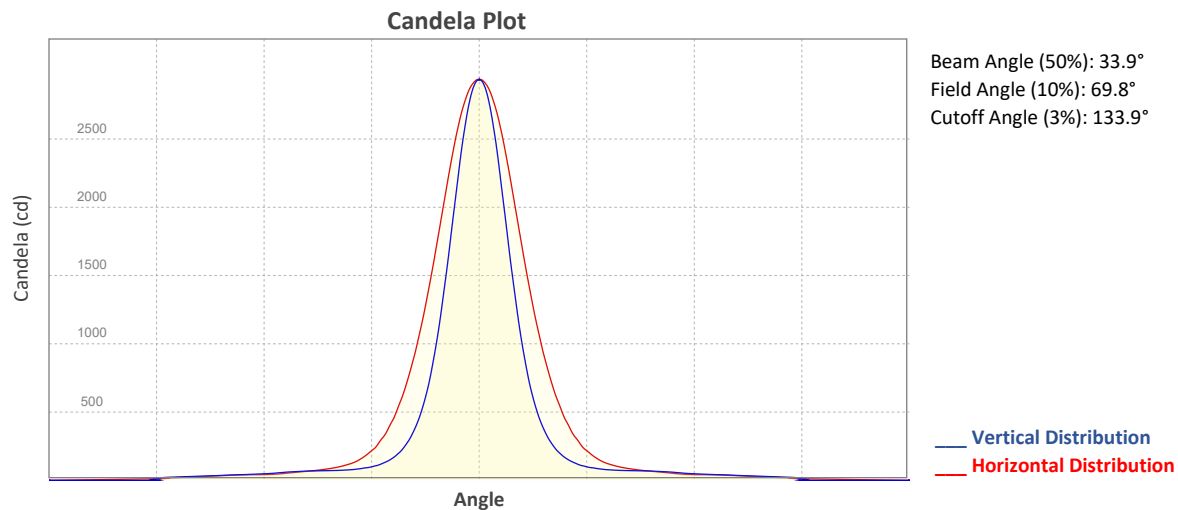
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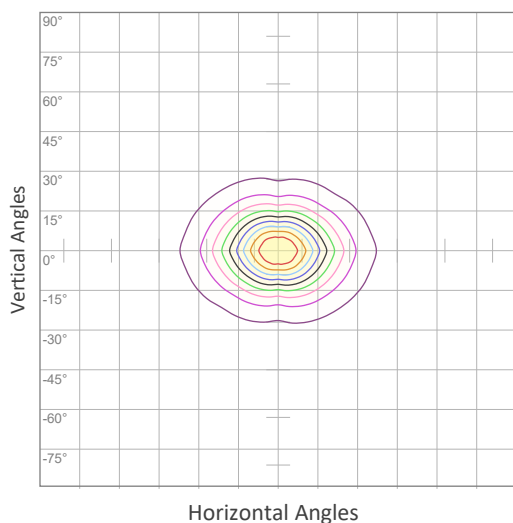
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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 2700K



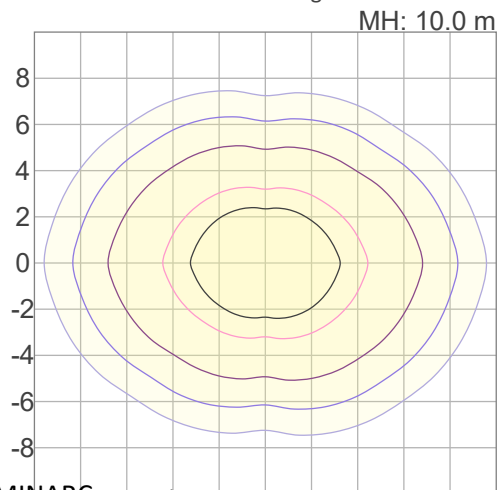
ISO Diagrams



ISO Candela Diagram

10%	294 cd
20%	587 cd
30%	881 cd
40%	1175 cd
50%	1468 cd
60%	1762 cd
70%	2055 cd
80%	2349 cd
90%	2643 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 2936 cd



ISO Lux Diagram

3%	0.881 lx
5%	1.47 lx
10%	2.94 lx
30%	8.81 lx
50%	14.7 lx

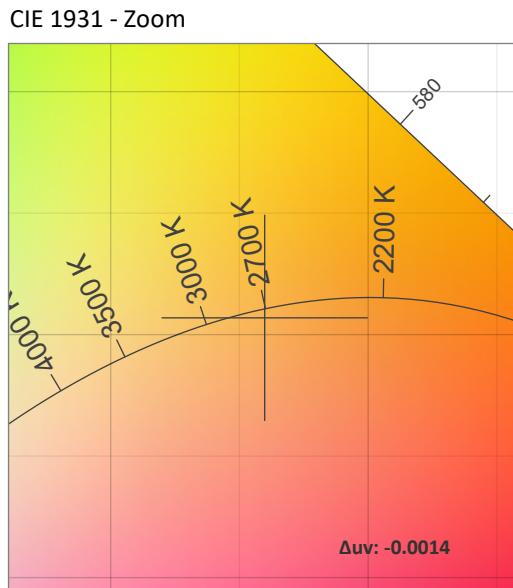
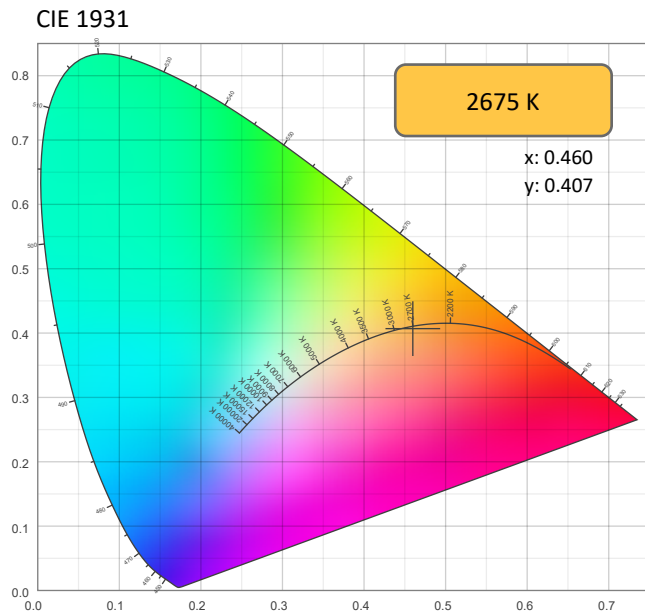
Conditions:
 Number of c-planes: 8
 Candela at center: 29.4 lx

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

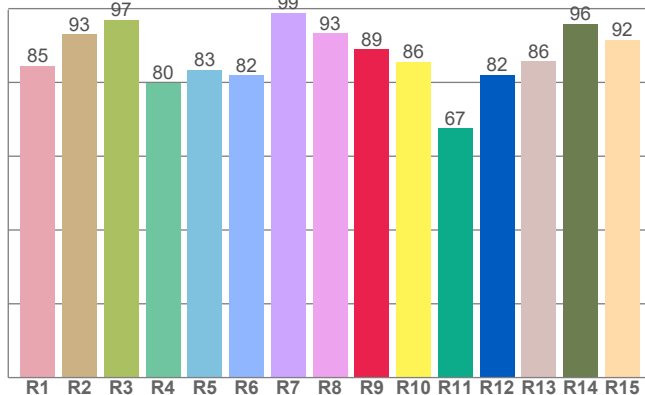
Photometric & Chromaticity Report

Logic GZL: Standard Optics - 2700K

Chromaticity



CRI: 89.0 (R1-R8)

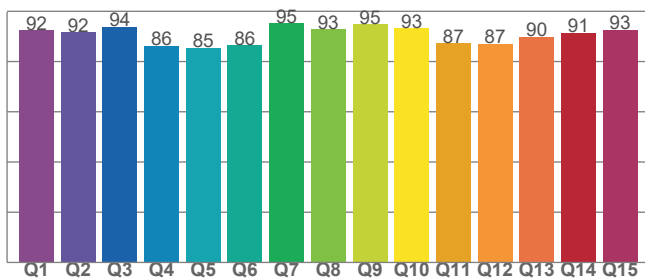


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2675 K	0.460	0.407

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0014	0.407	0.264

CQS: 90.0



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
89.0	89.0	90.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
78	89.7	104.6

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Photometric & Chromaticity Report

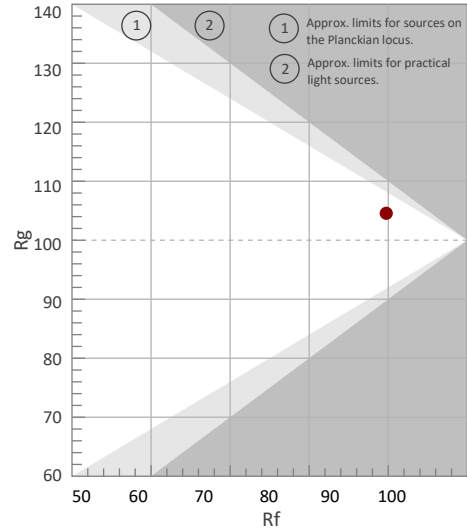
Logic GZL: Standard Optics - 2700K

TM-30 Details

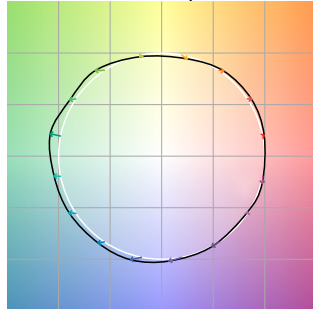
Rf 89.7
Fidelity Index (Rg)

Rg 104.6
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	1%	0%
2	92	3%	-3%
3	88	2%	-4%
4	91	-3%	-6%
5	94	-1%	2%
6	88	5%	7%
7	90	4%	4%
8	84	10%	0%
9	89	6%	-1%
10	89	5%	-4%
11	91	4%	-4%
12	83	4%	-10%
13	84	1%	-13%
14	88	0%	-8%
15	91	-1%	1%
16	89	1%	-7%



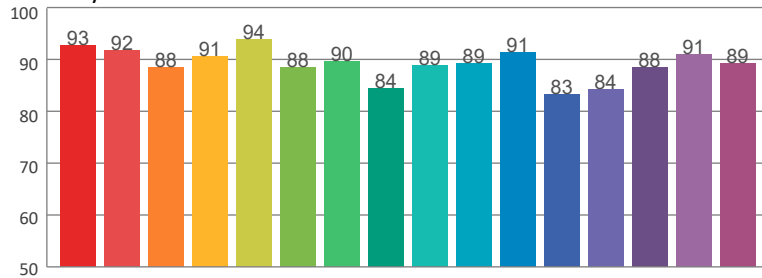
Color Vector Graphic



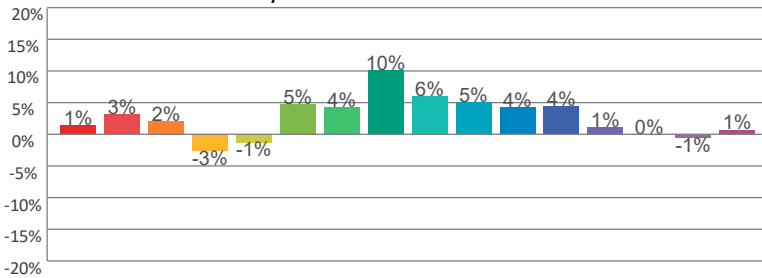
Color Distortion Graphic



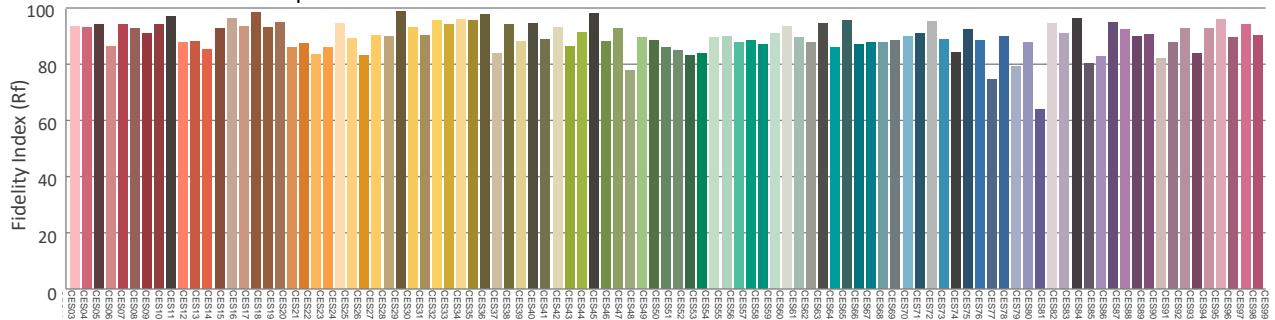
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 3000K

Report Summary

Measurements

Fixture Output: 2848 lm
Fixture Peak: 4548 cd
Fixture Efficacy: 63 lm/W
Intensity @ 5m: 182 lux
Color Temperature: 2908 K
CRI: 93.0 CRI R9 Value: 95.6
CQS: 92.8
TLCI: 86
TM-30 Rf: 91.4
TM-30 Rg: 101.6
Beam Angle (50%): 34.2°
Field Angle (10%): 69.9°
Cutoff Angle (2%): 127.5°

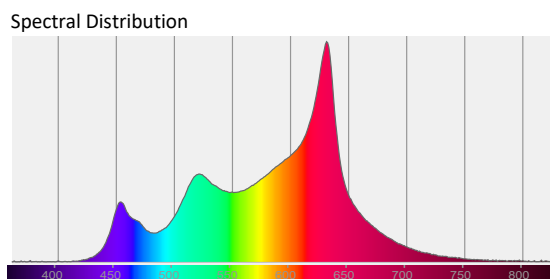
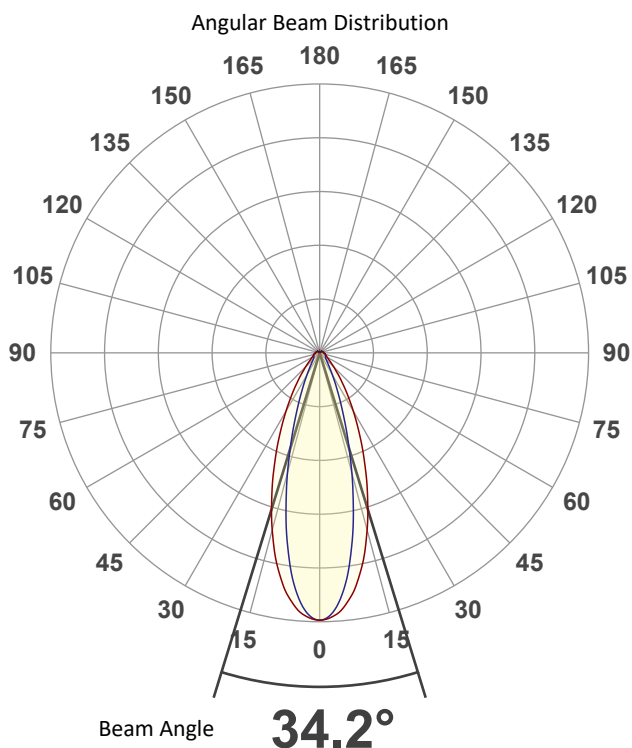
Conditions

AC Supply: 119 V, 60 Hz
Power: 48.11 W
Current: 0.404 A
Power Factor: 0.95



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

Overall Measurement



Tested Color (CIE 1931):

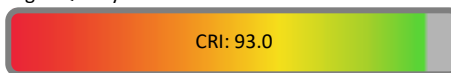
X: 0.444

Y: 0.406



Light Quality

CRI: 93.0



Color Temperature

2908 K



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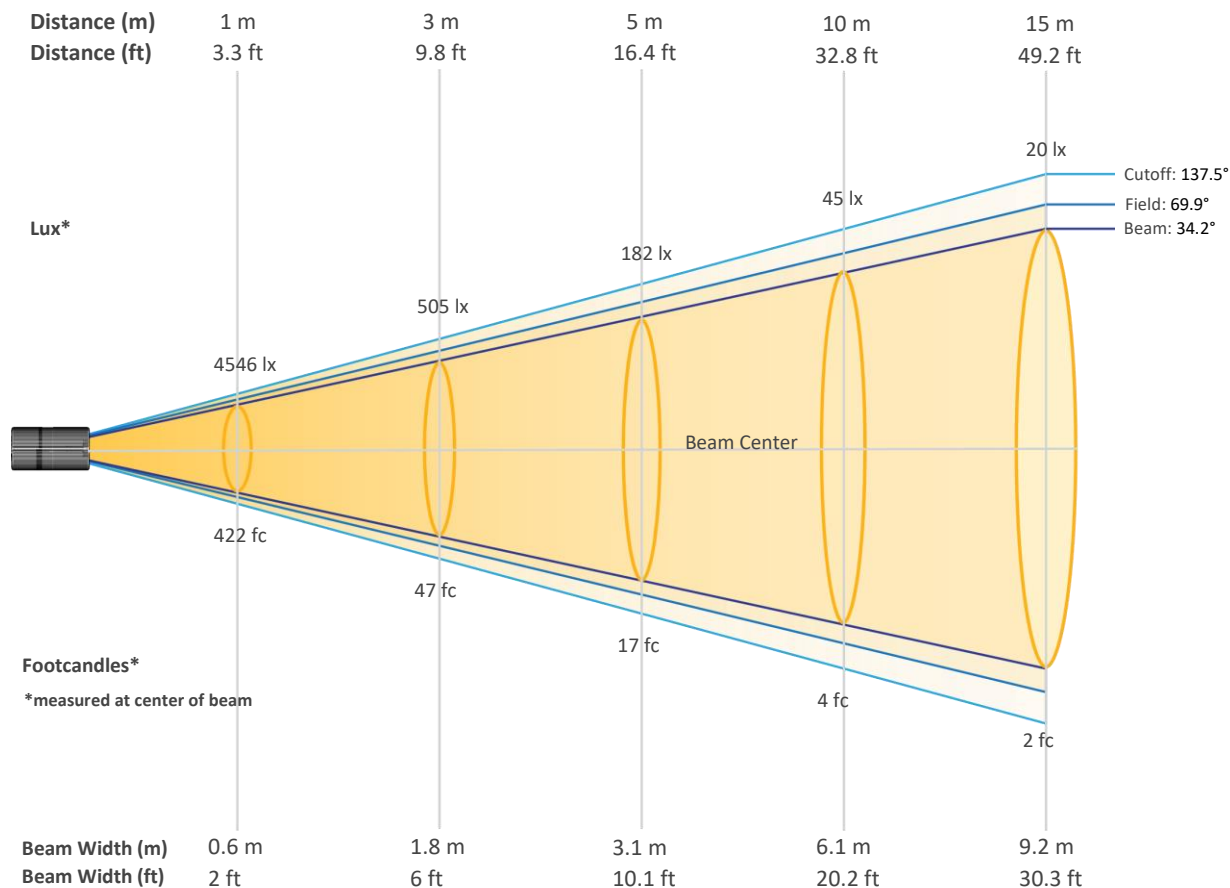
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Photometric & Chromaticity Report

Logic GZL: 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	4546	1136	505	284	182	126	93	71	56	45
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	38	32	27	23	20	18	16	14	13	11
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	422	106	47	26	17	12	9	7	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	3	2	2	2	2	1	1	1	1

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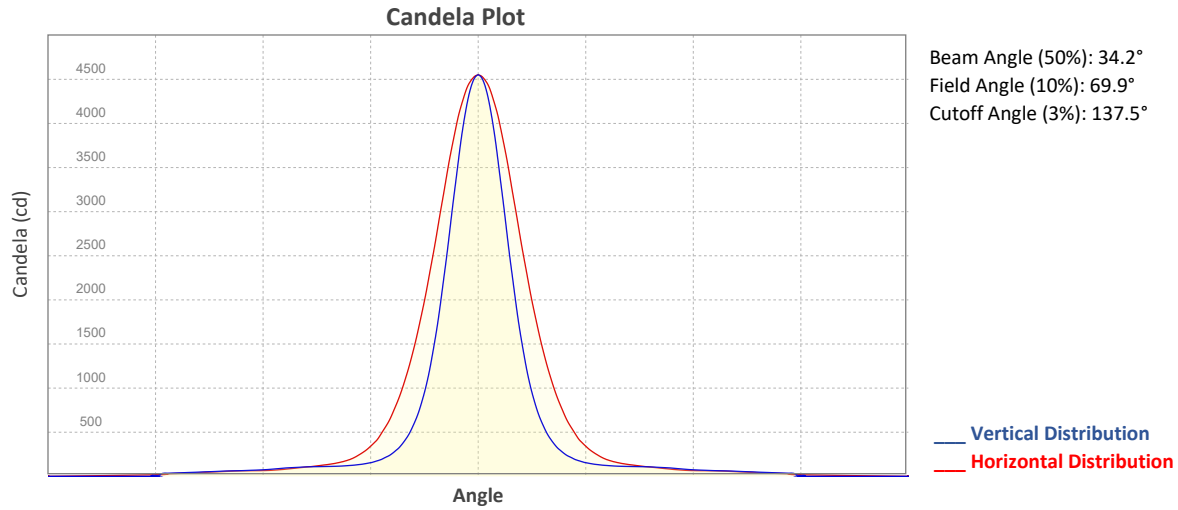
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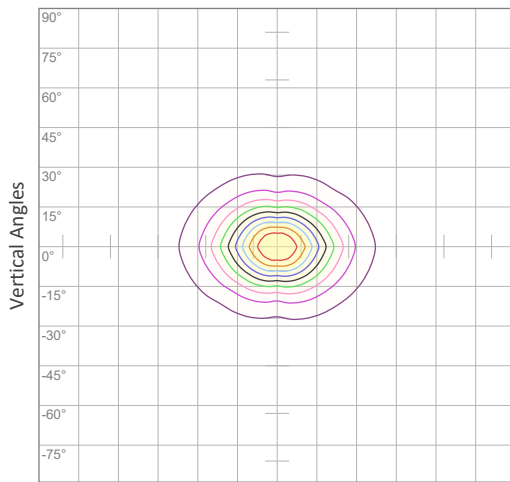
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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 3000K



ISO Diagrams

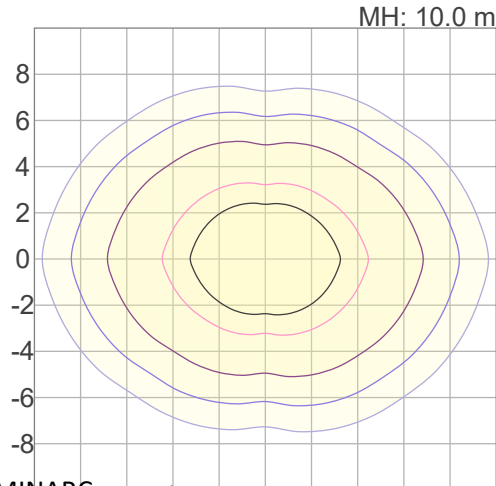


ISO Candela Diagram

10%	455 cd
20%	909 cd
30%	1364 cd
40%	1818 cd
50%	2273 cd
60%	2728 cd
70%	3182 cd
80%	3637 cd
90%	4091 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 4546 cd

Horizontal Angles



ISO Lux Diagram

3%	1.36 lx
5%	2.27 lx
10%	4.55 lx
30%	13.6 lx
50%	22.7 lx

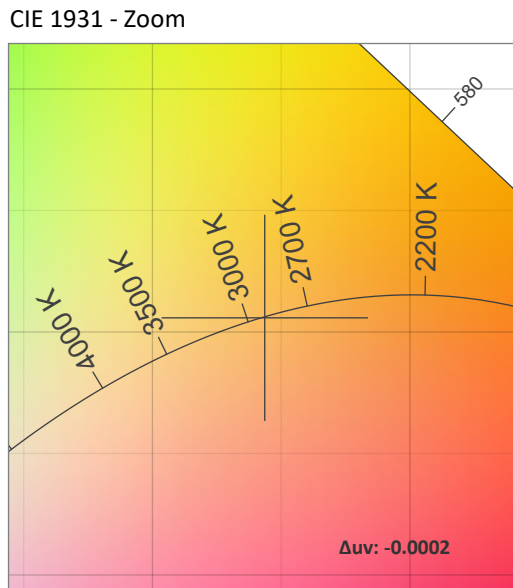
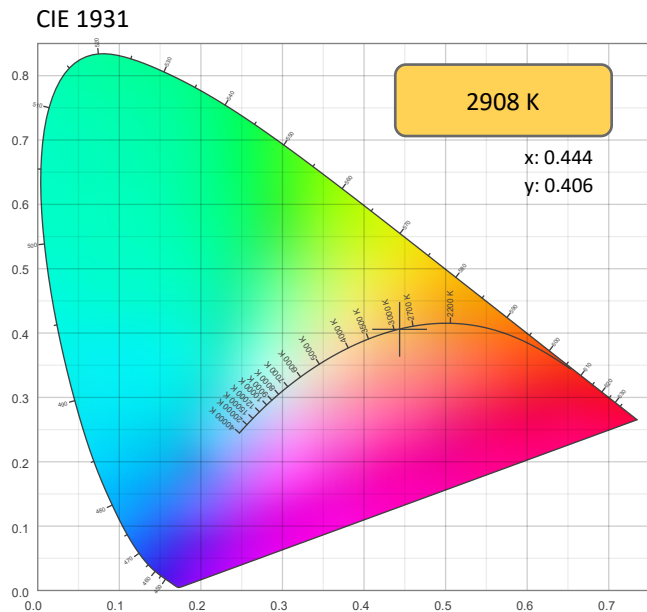
Conditions:
 Number of c-planes: 8
 Candela at center: 45.5 lx

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

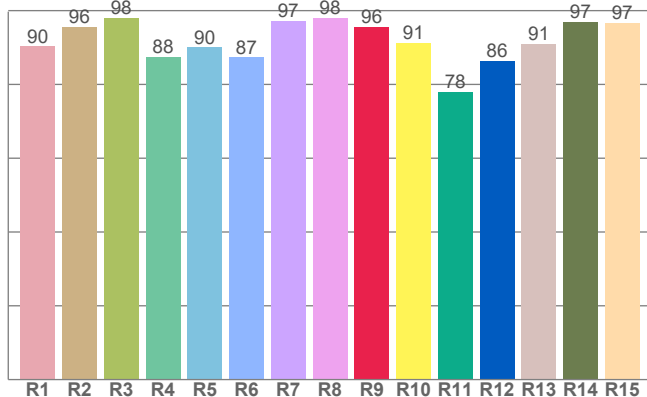
Photometric & Chromaticity Report

Logic GZL: Standard Optics - 3000K

Chromaticity



CRI: 93.0 (R1-R8)

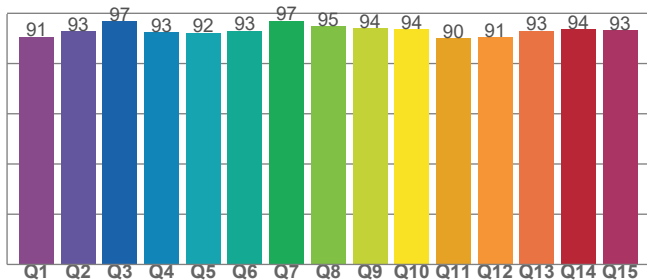


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2908 K	0.444	0.406

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0002	0.406	0.254

CQS: 92.8



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
93.0	95.6	92.8

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
86	91.4	101.6

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Photometric & Chromaticity Report

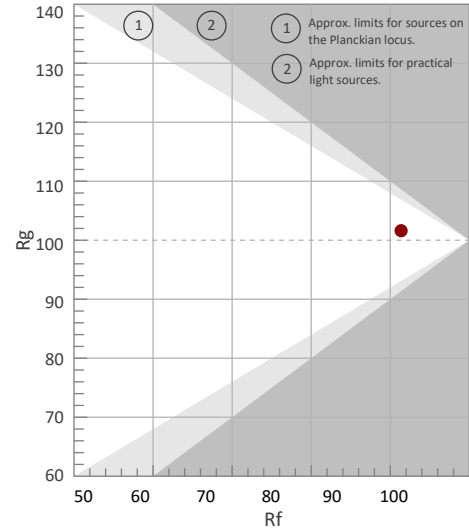
Logic GZL: Standard Optics - 3000K

TM-30 Details

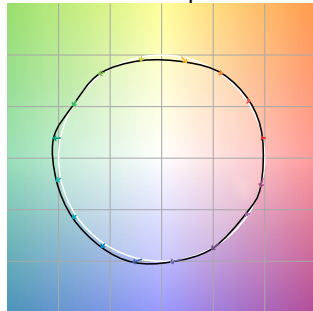
Rf 91.4
Fidelity Index
(Rg)

Rg 101.6
Gammut Index (Rg)

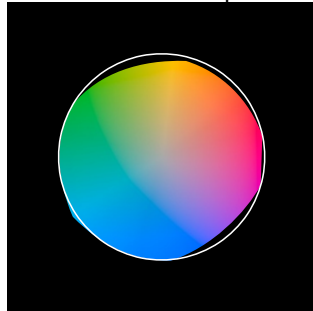
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	0%	1%
2	94	2%	-2%
3	91	1%	-3%
4	90	-4%	-5%
5	93	-3%	1%
6	92	2%	5%
7	90	0%	5%
8	89	7%	2%
9	92	4%	2%
10	93	4%	0%
11	94	4%	0%
12	86	4%	-7%
13	86	0%	-11%
14	89	0%	-8%
15	91	-2%	1%
16	89	0%	-8%



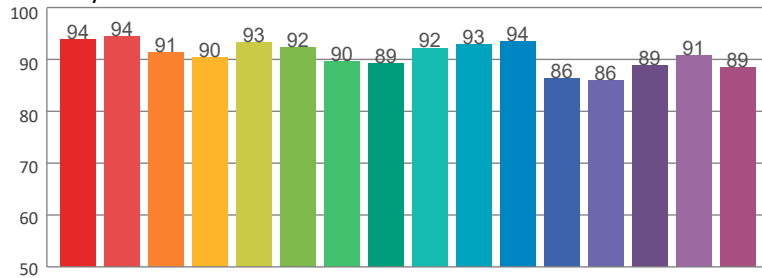
Color Vector Graphic



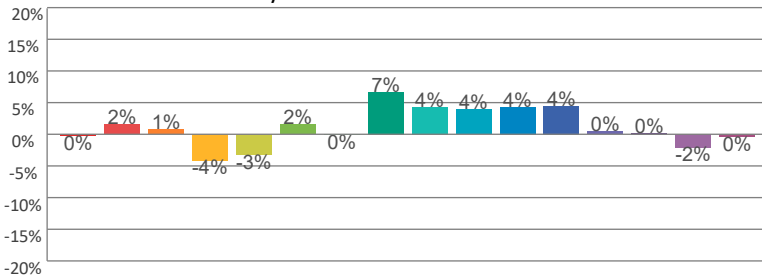
Color Distortion Graphic



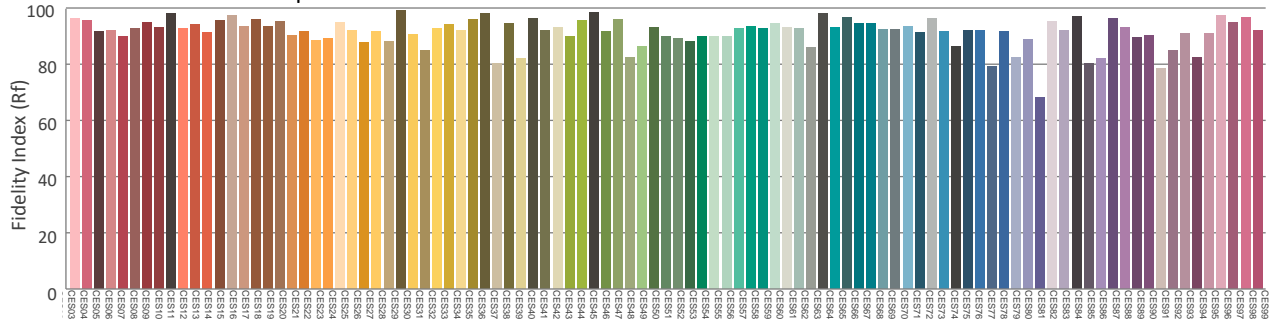
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 3200K

Report Summary

Measurements

Fixture Output: 2834 lm
Fixture Peak: 4496 cd
Fixture Efficacy: 63 lm/W
Intensity @ 5m: 180 lux
Color Temperature: 3085 K
CRI: 92.7 CRI R9 Value: 95.0
CQS: 93.4
TLCI: 88
TM-30 Rf: 90.5
TM-30 Rg: 100.2
Beam Angle (50%): 34.3°
Field Angle (10%): 70.1°
Cutoff Angle (2%): 110.4°

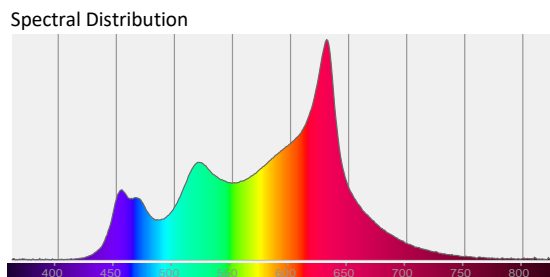
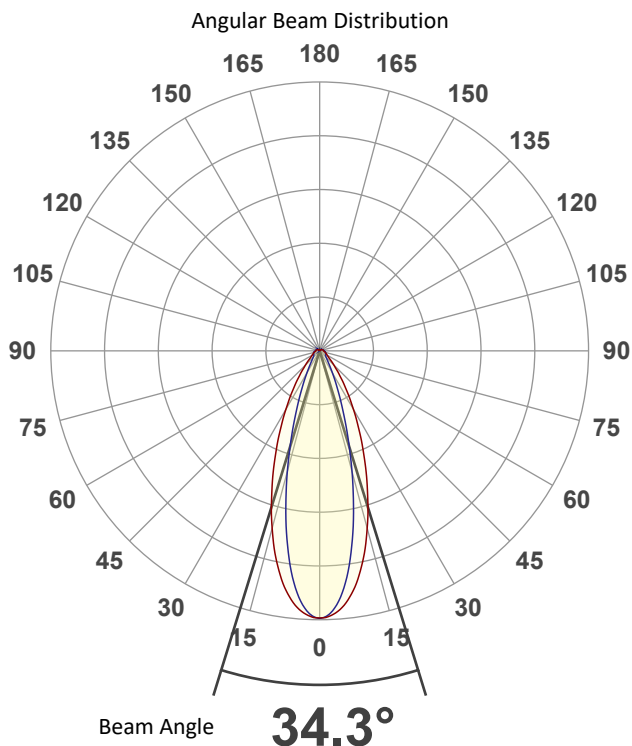
Conditions

AC Supply: 119 V, 60 Hz
Power: 47.73 W
Current: 0.402 A
Power Factor: 0.95



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

Overall Measurement



Tested Color (CIE 1931):

X: 0.430

Y: 0.399



Light Quality

CRI: 92.7

Color Temperature

3085 K

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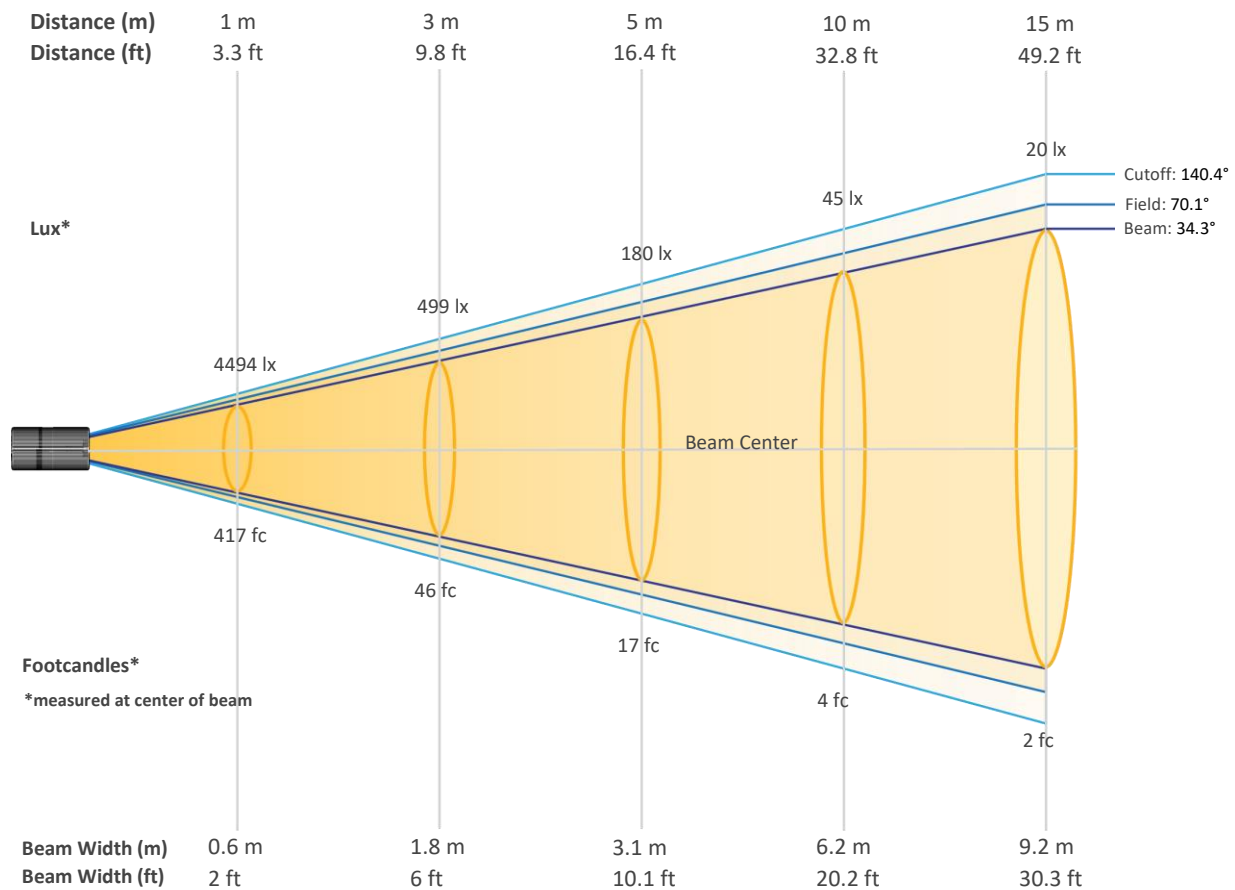
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Photometric & Chromaticity Report

Logic GZL: 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	4494	1123	499	281	180	125	92	70	55	45
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	37	31	27	23	20	18	16	14	12	11
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	417	104	46	26	17	12	9	7	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	3	2	2	2	2	1	1	1	1

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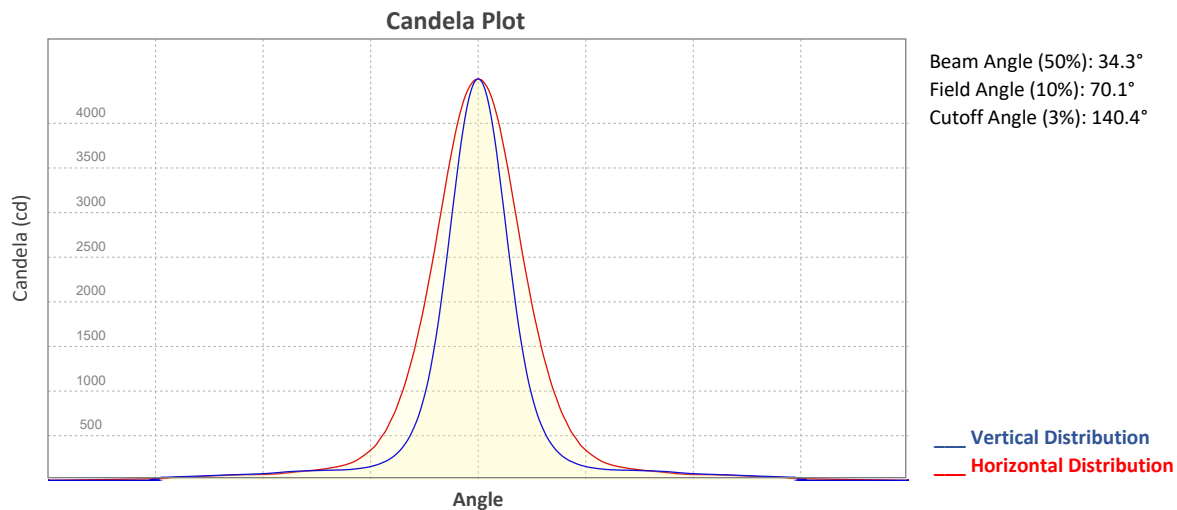
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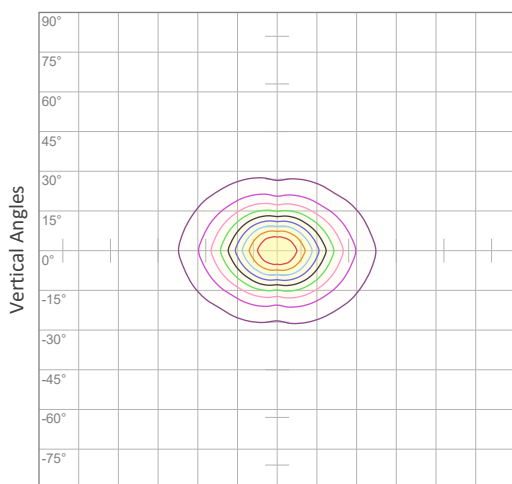
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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 3200K



ISO Diagrams



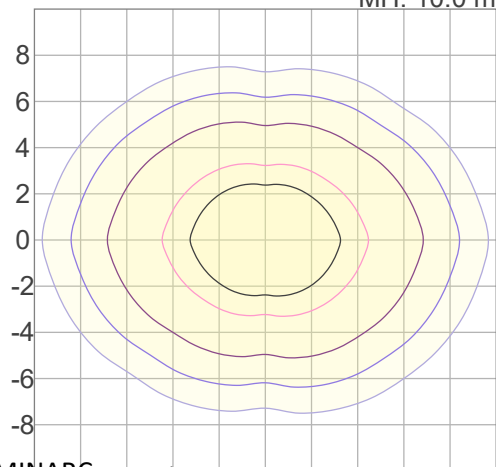
ISO Candela Diagram

10%	449 cd
20%	899 cd
30%	1348 cd
40%	1797 cd
50%	2247 cd
60%	2696 cd
70%	3146 cd
80%	3595 cd
90%	4044 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 4494 cd

Horizontal Angles

MH: 10.0 m



ISO Lux Diagram

3%	1.35 lx
5%	2.25 lx
10%	4.49 lx
30%	13.5 lx
50%	22.5 lx

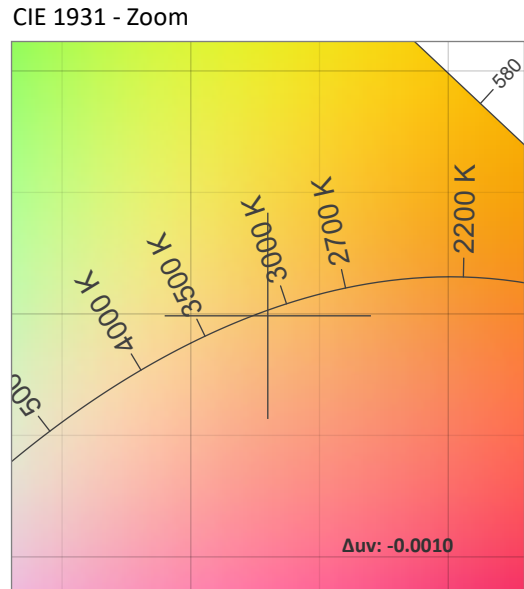
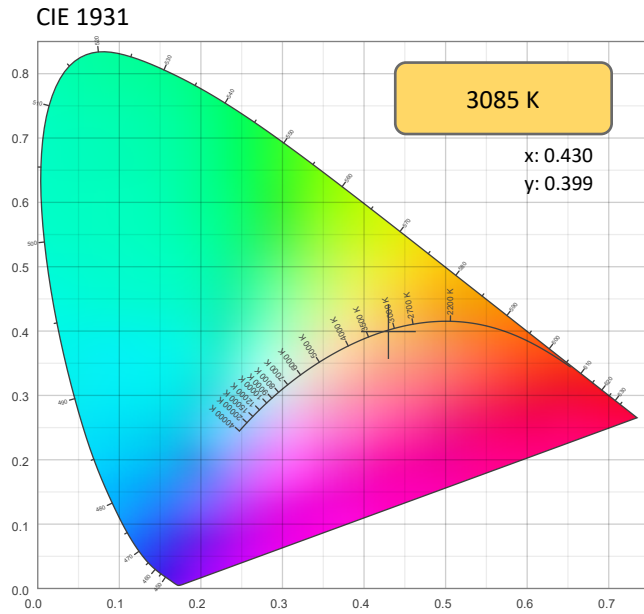
Conditions:
 Number of c-planes: 8
 Candela at center: 44.9 lx

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

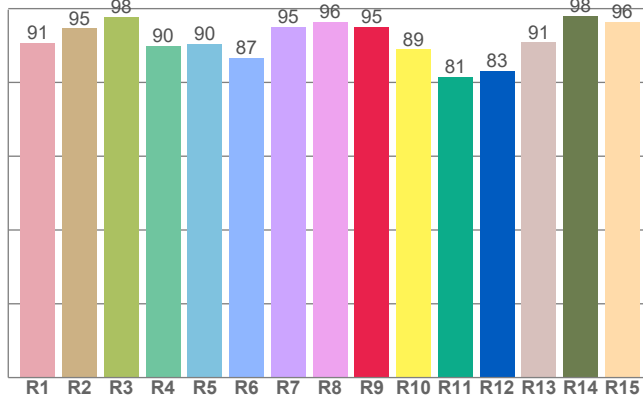
Photometric & Chromaticity Report

Logic GZL: Standard Optics - 3200K

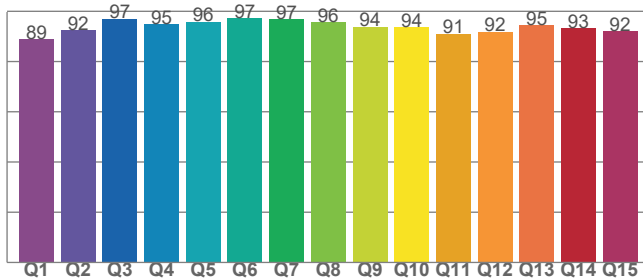
Chromaticity



CRI: 92.7 (R1-R8)



CQS: 93.4



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3085 K	0.430	0.399

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0010	0.399	0.248

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
92.7	95.0	93.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
88	90.5	100.2

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Photometric & Chromaticity Report

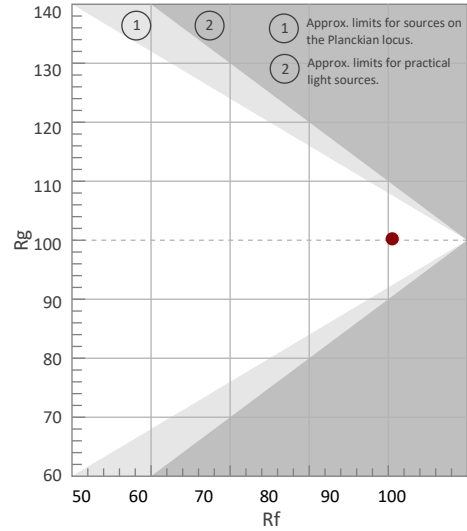
Logic GZL: Standard Optics - 3200K

TM-30 Details

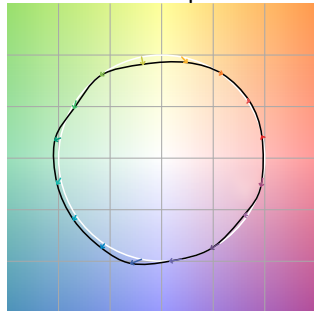
Rf 90.5
Fidelity Index
(Rg)

Rg 100.2
Gammut Index (Rg)

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



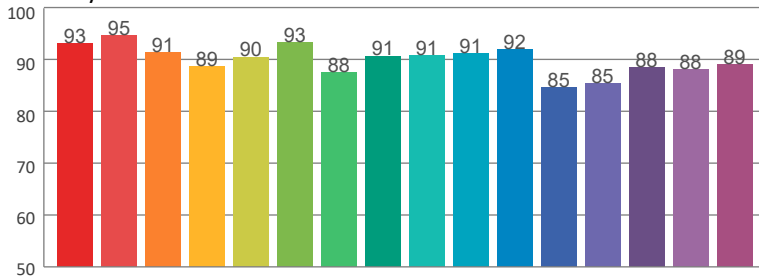
Color Vector Graphic



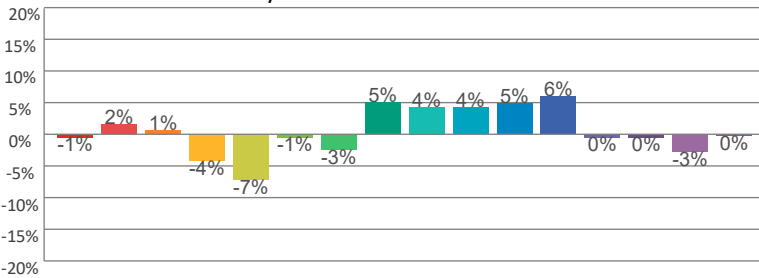
Color Distortion Graphic



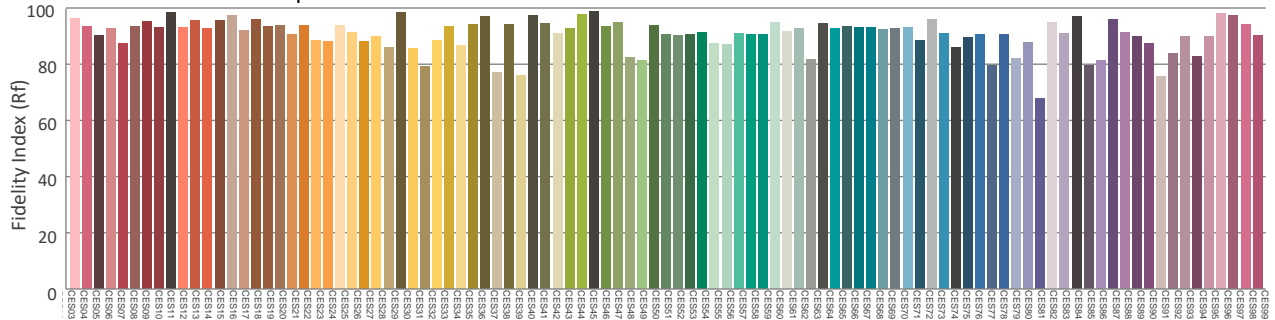
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 4000K

Report Summary

Measurements

Fixture Output: 2616 lm
Fixture Peak: 4074 cd
Fixture Efficacy: 63 lm/W
Intensity @ 5m: 163 lux
Color Temperature: 3883 K
CRI: 88.2 CRI R9 Value: 74.6
CQS: 90.4
TLCI: 87
TM-30 Rf: 84.2
TM-30 Rg: 93.5
Beam Angle (50%): 34.8°
Field Angle (10%): 70.7°
Cutoff Angle (2%): 144.7°

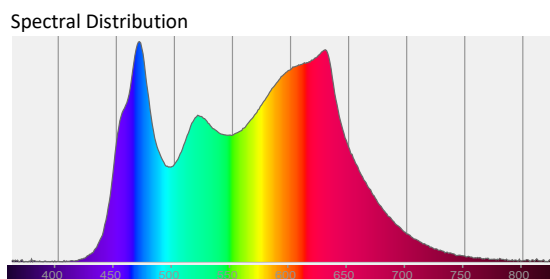
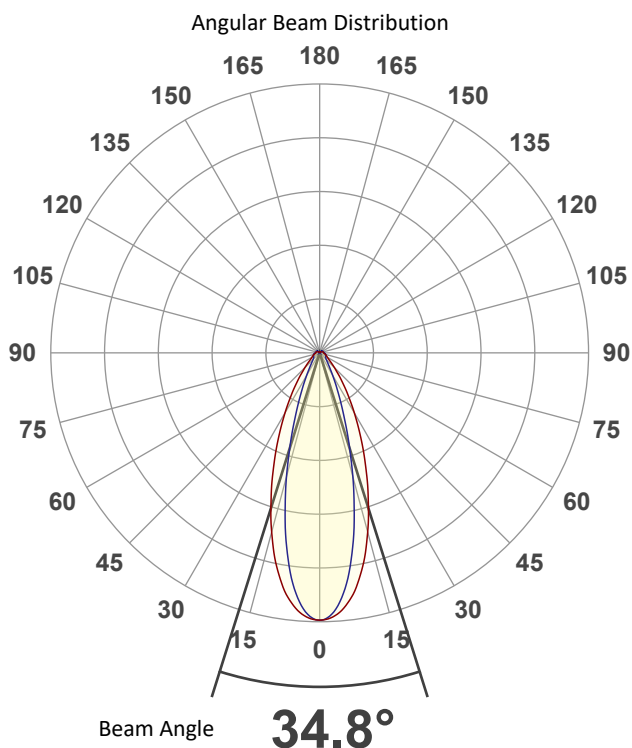
Conditions

AC Supply: 118 V, 60 Hz
Power: 44.29 W
Current: 0.374 A
Power Factor: 0.94



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

Overall Measurement



Tested Color (CIE 1931):
X: 0.383
Y: 0.369

Light Quality
CRI: 88.2

Color Temperature
3883 K

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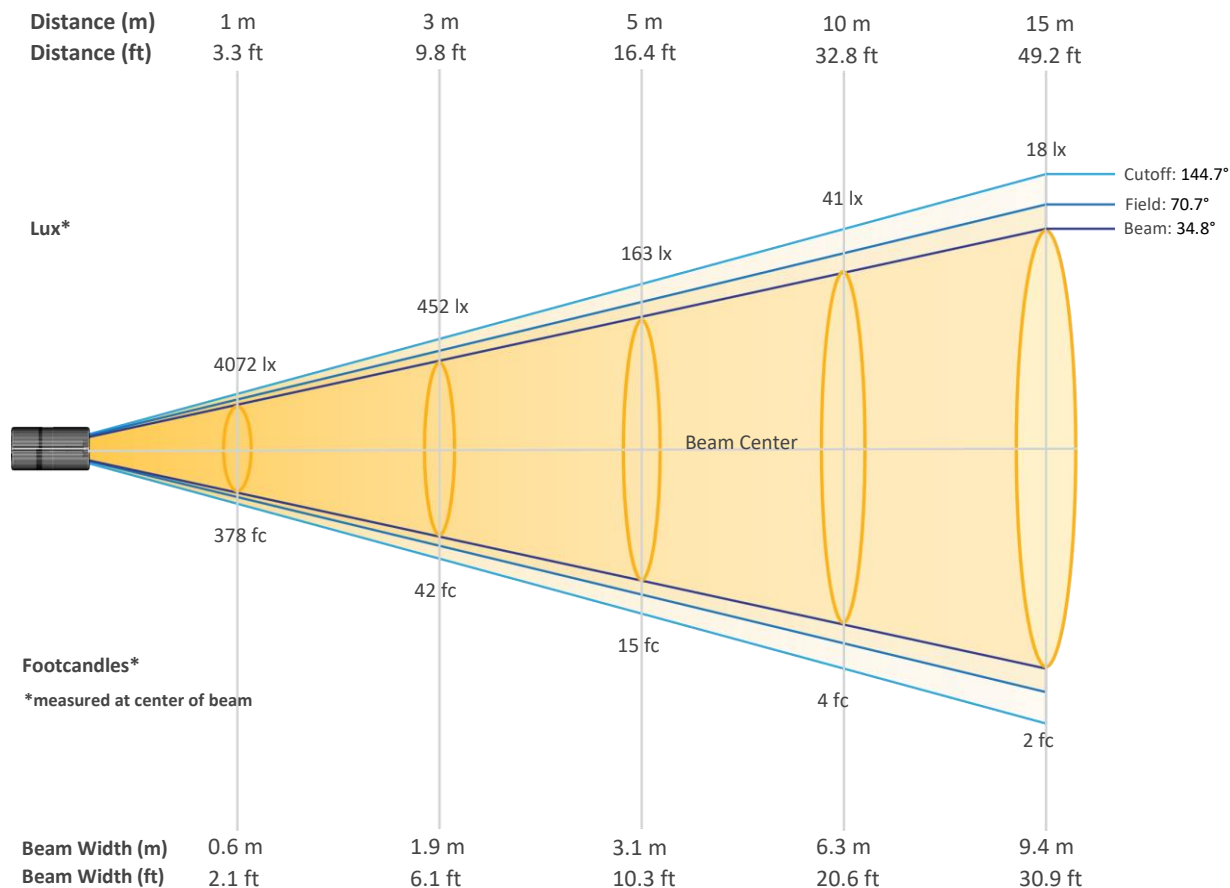
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Photometric & Chromaticity Report

Logic GZL: 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	4072	1018	452	254	163	113	83	64	50	41
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	34	28	24	21	18	16	14	13	11	10
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	378	95	42	24	15	11	8	6	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	3	2	2	2	1	1	1	1	1

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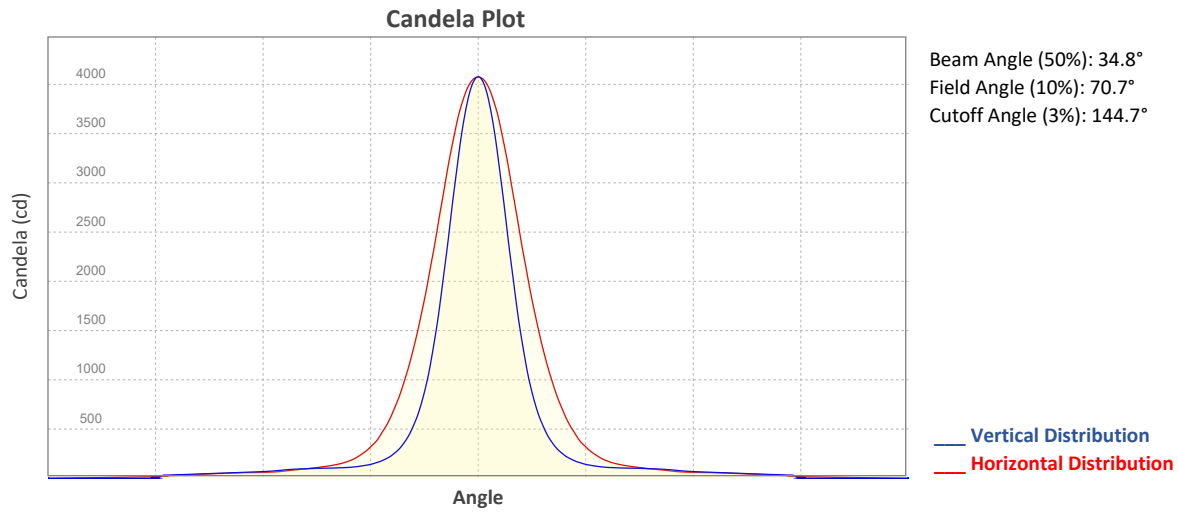
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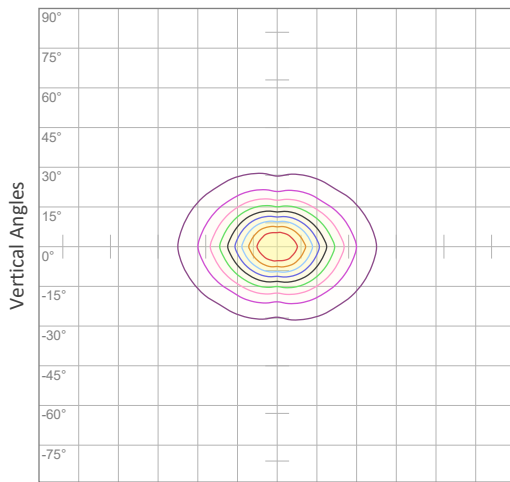
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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 4000K



ISO Diagrams



ISO Candela Diagram

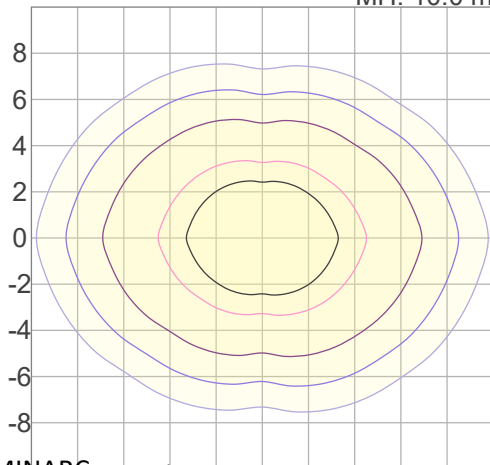
10%	407 cd
20%	814 cd
30%	1221 cd
40%	1629 cd
50%	2036 cd
60%	2443 cd
70%	2850 cd
80%	3257 cd
90%	3664 cd

Conditions:

Number of c-planes: 8
Candela at center: 4072 cd

Horizontal Angles

MH: 10.0 m



ISO Lux Diagram

3%	1.22 lx
5%	2.04 lx
10%	4.07 lx
30%	12.2 lx
50%	20.4 lx

Conditions:

Number of c-planes: 8
Candela at center: 40.7 lx

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

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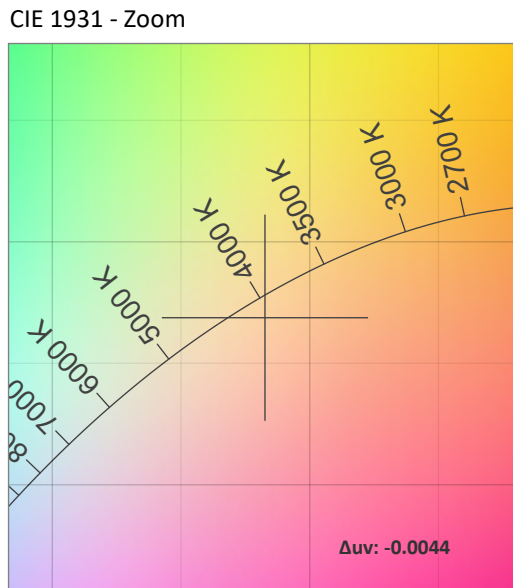
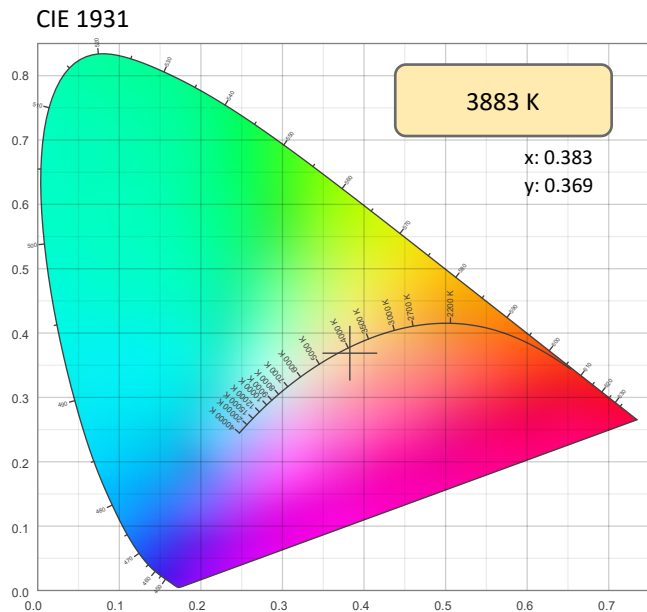
Mounting height: 10 meters / 33 feet

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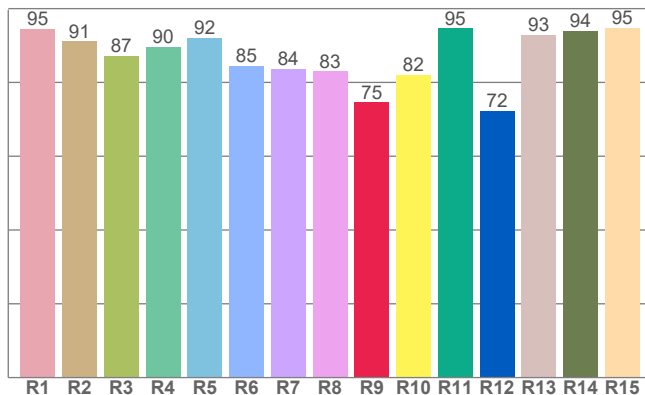
Photometric & Chromaticity Report

Logic GZL: Standard Optics - 4000K

Chromaticity



CRI: 88.2 (R1-R8)

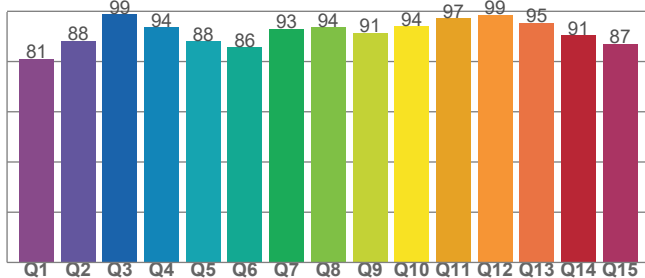


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3883 K	0.383	0.369

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0044	0.369	0.230

CQS: 90.4



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
88.2	74.6	90.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
87	84.2	93.5

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Photometric & Chromaticity Report

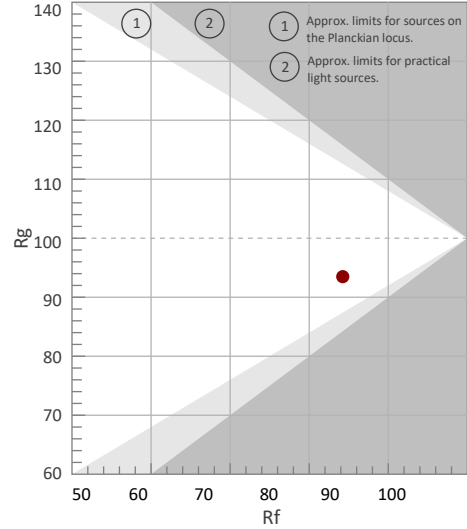
Logic GZL: Standard Optics - 4000K

TM-30 Details

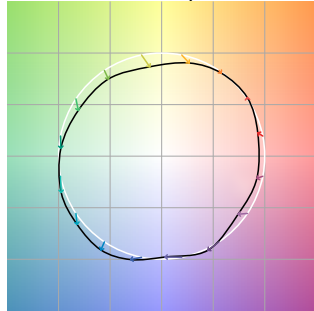
Rf 84.2
Fidelity Index (Rg)

Rg 93.5
Gammut Index (Rg)

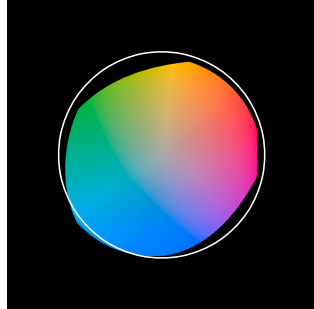
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	87	-4%	4%
2	92	1%	1%
3	92	-1%	-3%
4	83	-6%	-9%
5	81	-13%	-6%
6	86	-9%	1%
7	83	-8%	8%
8	81	-3%	12%
9	79	2%	15%
10	83	5%	9%
11	87	8%	2%
12	81	4%	-10%
13	79	-3%	-16%
14	86	1%	-13%
15	81	-7%	-6%
16	82	-5%	-3%



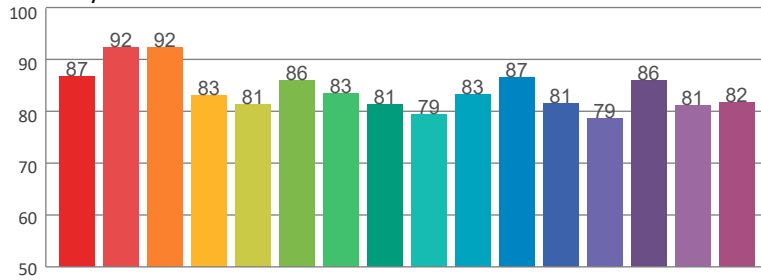
Color Vector Graphic



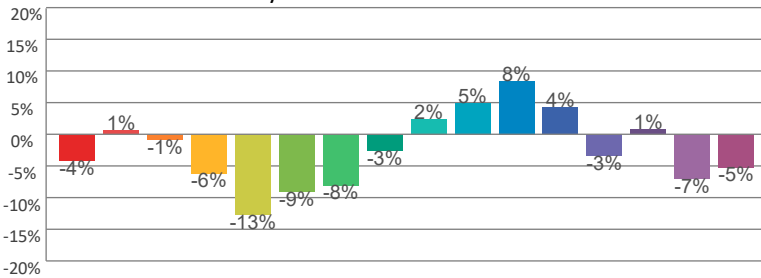
Color Distortion Graphic



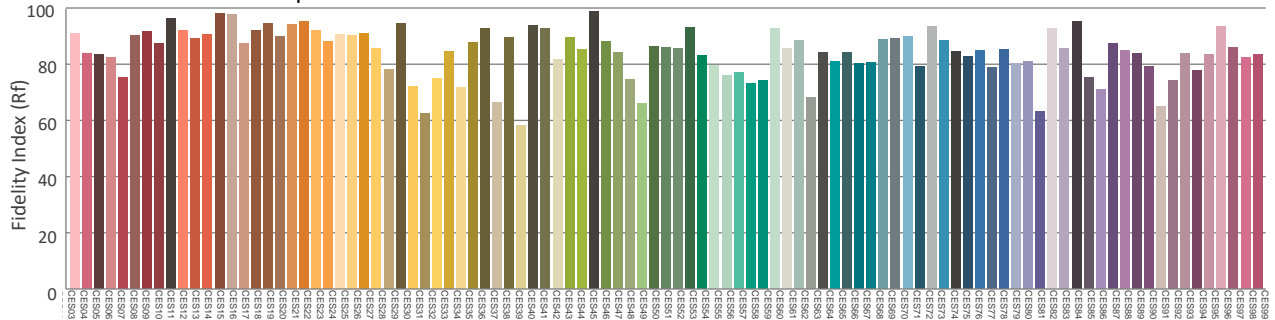
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 4500K

Report Summary

Measurements

Fixture Output: 2723 lm
Fixture Peak: 4231 cd
Fixture Efficacy: 61 lm/W
Intensity @ 5m: 169 lux
Color Temperature: 4355 K
CRI: 83.4 CRI R9 Value: 91.7
CQS: 88.0
TLCI: 87
TM-30 Rf: 81.2
TM-30 Rg: 92.8
Beam Angle (50%): 34.8°
Field Angle (10%): 70.7°
Cutoff Angle (2%): 145.5°

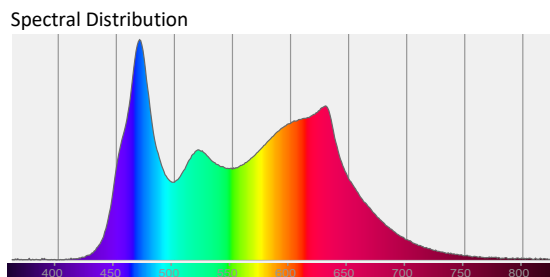
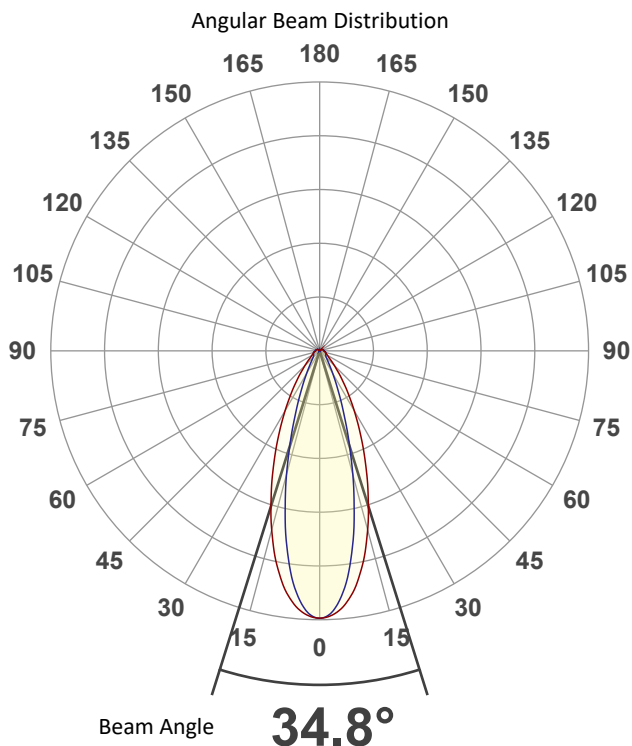
Conditions

AC Supply: 119 V, 60 Hz
Power: 47.22 W
Current: 0.398 A
Power Factor: 0.95



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

Overall Measurement



Tested Color (CIE 1931):
X: 0.363
Y: 0.350

Light Quality
CRI: 83.4

Color Temperature
4355 K

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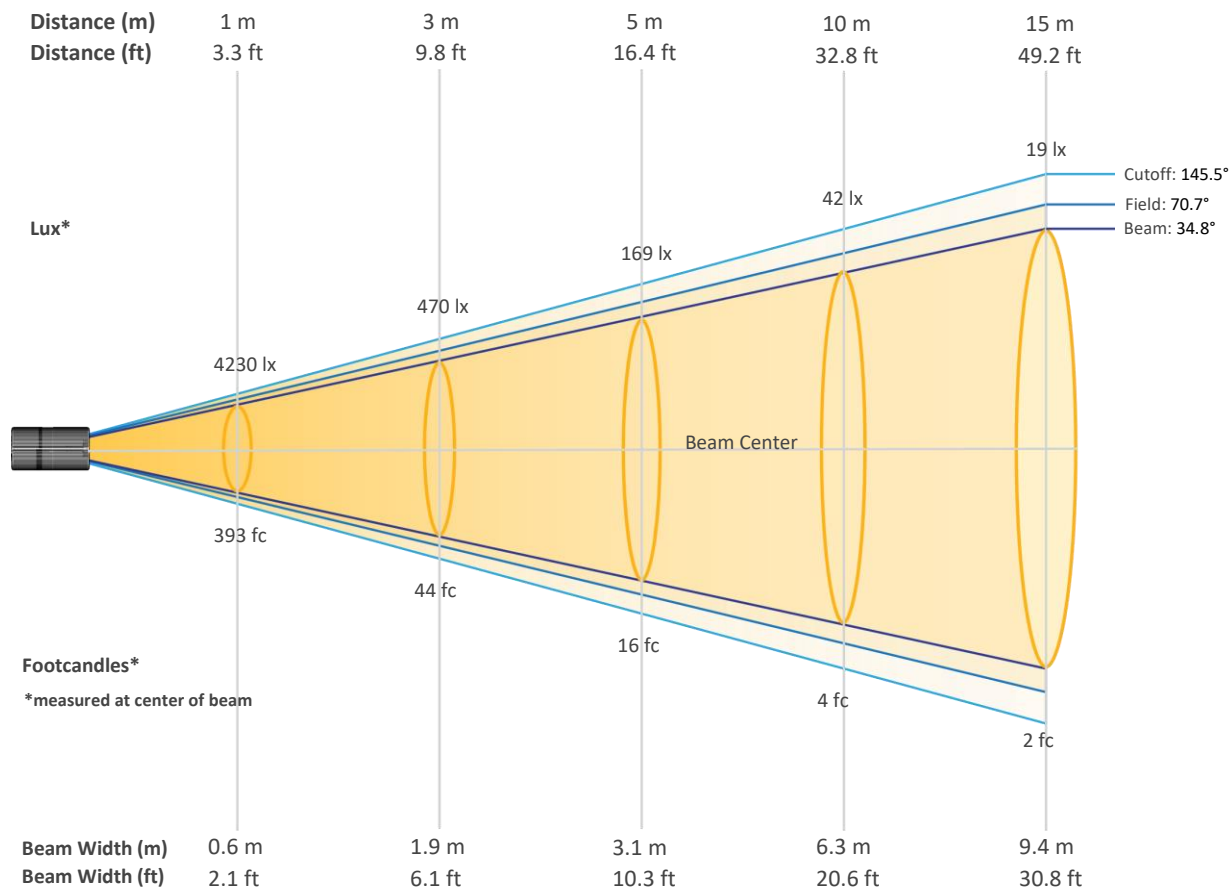
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Photometric & Chromaticity Report

Logic GZL: 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	4230	1057	470	264	169	117	86	66	52	42
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	35	29	25	22	19	17	15	13	12	11
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	393	98	44	25	16	11	8	6	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	3	2	2	2	2	1	1	1	1

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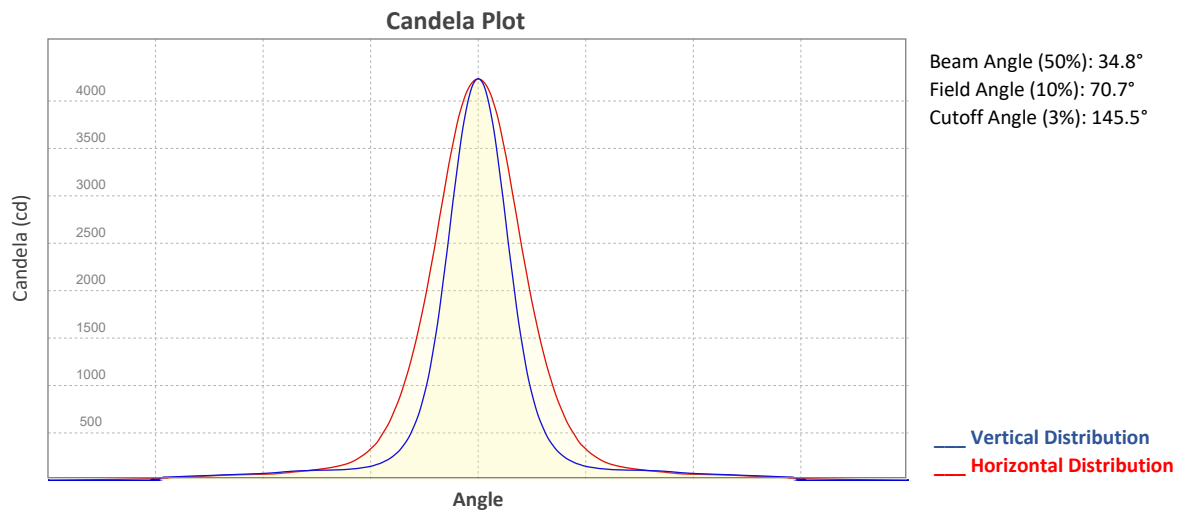
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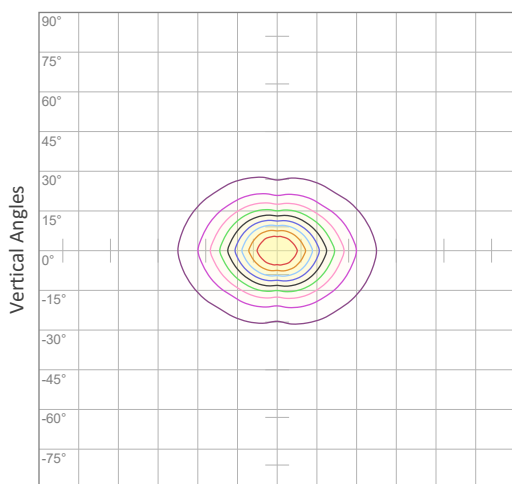
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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 4500K



ISO Diagrams



ISO Candela Diagram

10%	423 cd
20%	846 cd
30%	1269 cd
40%	1692 cd
50%	2115 cd
60%	2538 cd
70%	2961 cd
80%	3384 cd
90%	3807 cd

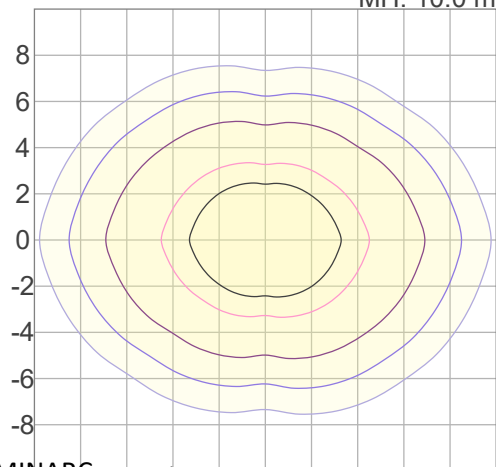
Conditions:

Number of c-planes: 8

Candela at center: 4230 cd

Horizontal Angles

MH: 10.0 m



ISO Lux Diagram

3%	1.27 lx
5%	2.11 lx
10%	4.23 lx
30%	12.7 lx
50%	21.1 lx

Conditions:

Number of c-planes: 8

Candela at center: 42.3 lx

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

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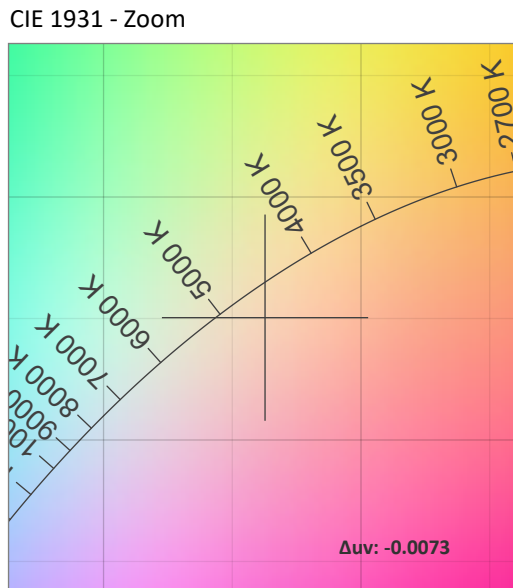
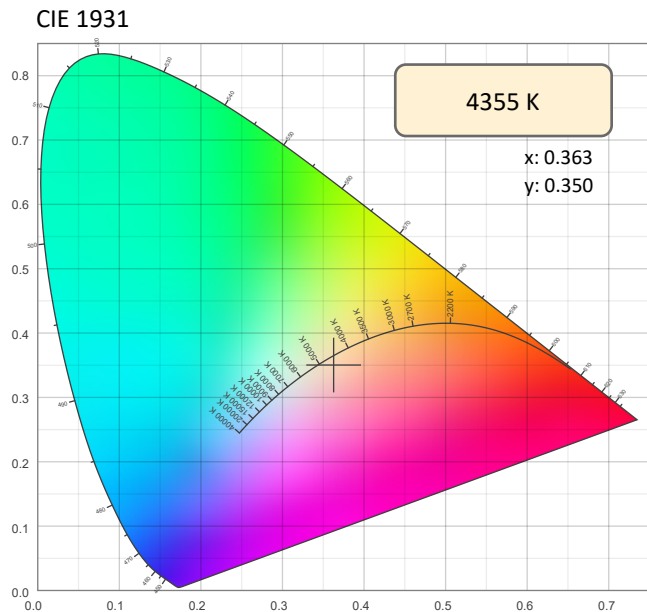
Mounting height: 10 meters / 33 feet

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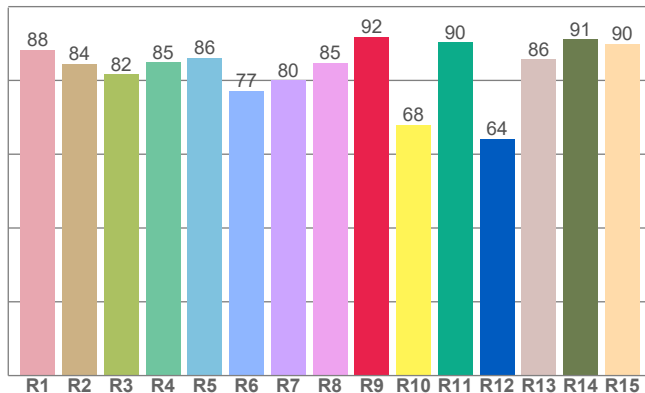
Photometric & Chromaticity Report

Logic GZL: Standard Optics - 4500K

Chromaticity



CRI: 83.4 (R1-R8)

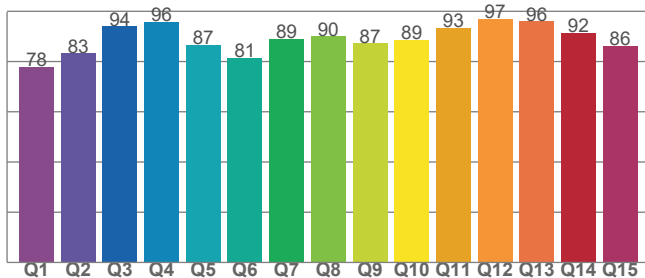


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
4355 K	0.363	0.350

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0073	0.350	0.224

CQS: 88.0



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
83.4	91.7	88.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
87	81.2	92.8

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Photometric & Chromaticity Report

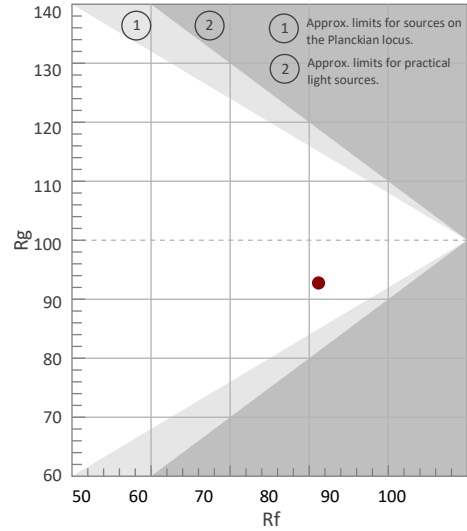
Logic GZL: Standard Optics - 4500K

TM-30 Details

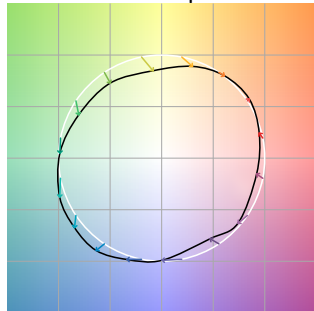
Rf 81.2
Fidelity Index (Rg)

Rg 92.8
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	87	-2%	5%
2	90	3%	1%
3	88	0%	-6%
4	78	-7%	-12%
5	76	-15%	-8%
6	82	-12%	1%
7	80	-10%	10%
8	77	-2%	14%
9	76	4%	18%
10	82	8%	9%
11	82	10%	-3%
12	77	3%	-14%
13	78	-3%	-19%
14	83	-9%	-4%
15	77	-3%	-11%
16	83	-7%	3%



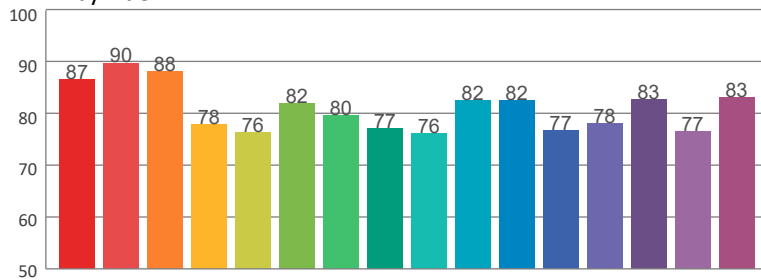
Color Vector Graphic



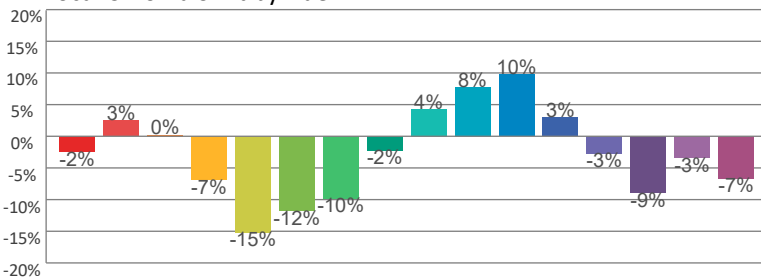
Color Distortion Graphic



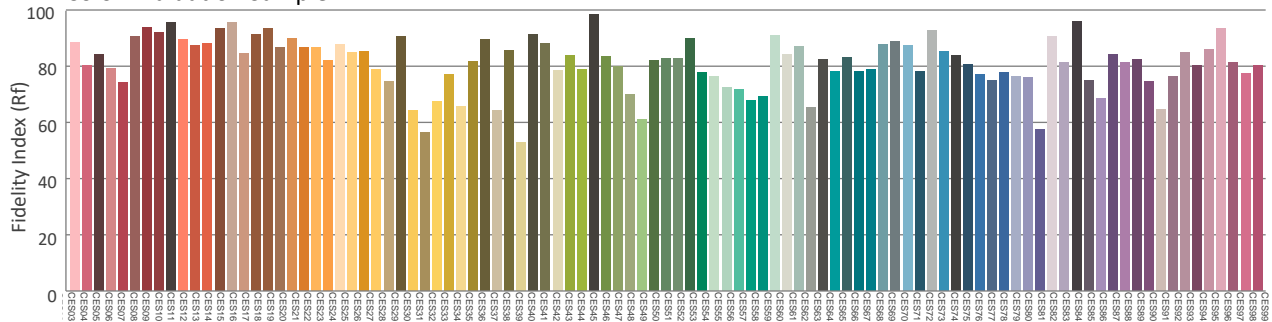
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 5000K

Report Summary

Measurements

Fixture Output: 2750 lm
Fixture Peak: 4289 cd
Fixture Efficacy: 59 lm/W
Intensity @ 5m: 171 lux
Color Temperature: 4880 K
CRI: 78.6 CRI R9 Value: 85.6
CQS: 85.0
TLCI: 85
TM-30 Rf: 78.7
TM-30 Rg: 92.1
Beam Angle (50%): 34.8°
Field Angle (10%): 70.8°
Cutoff Angle (2%): 112°

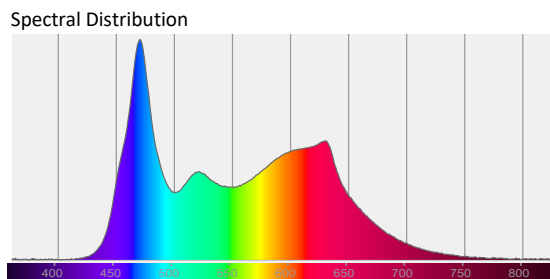
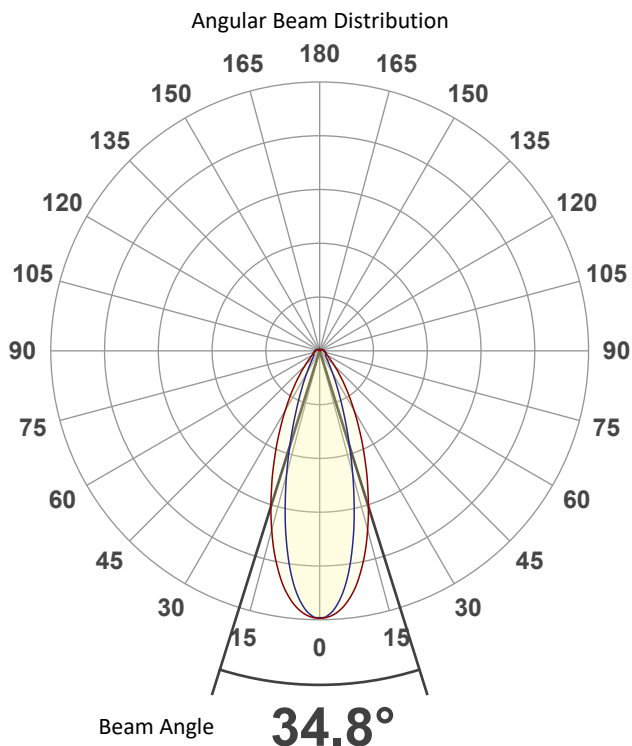
Conditions

AC Supply: 118 V, 60 Hz
Power: 48.91 W
Current: 0.413 A
Power Factor: 0.95



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

Overall Measurement



Tested Color (CIE 1931):

X: 0.346

Y: 0.334



Light Quality

CRI: 78.6

Color Temperature

4880 K

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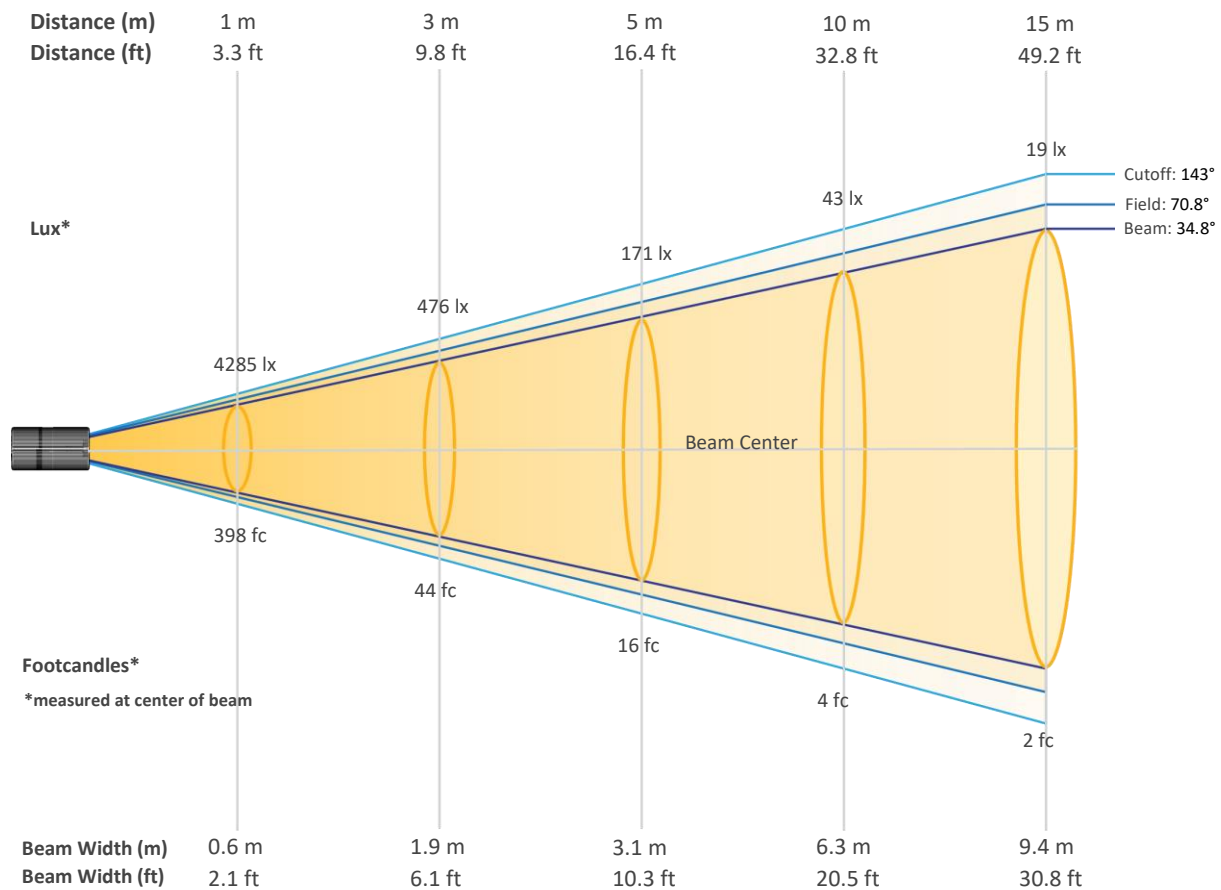
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Photometric & Chromaticity Report

Logic GZL: 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	4285	1071	476	268	171	119	87	67	53	43
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	35	30	25	22	19	17	15	13	12	11
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	398	100	44	25	16	11	8	6	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	3	2	2	2	2	1	1	1	1

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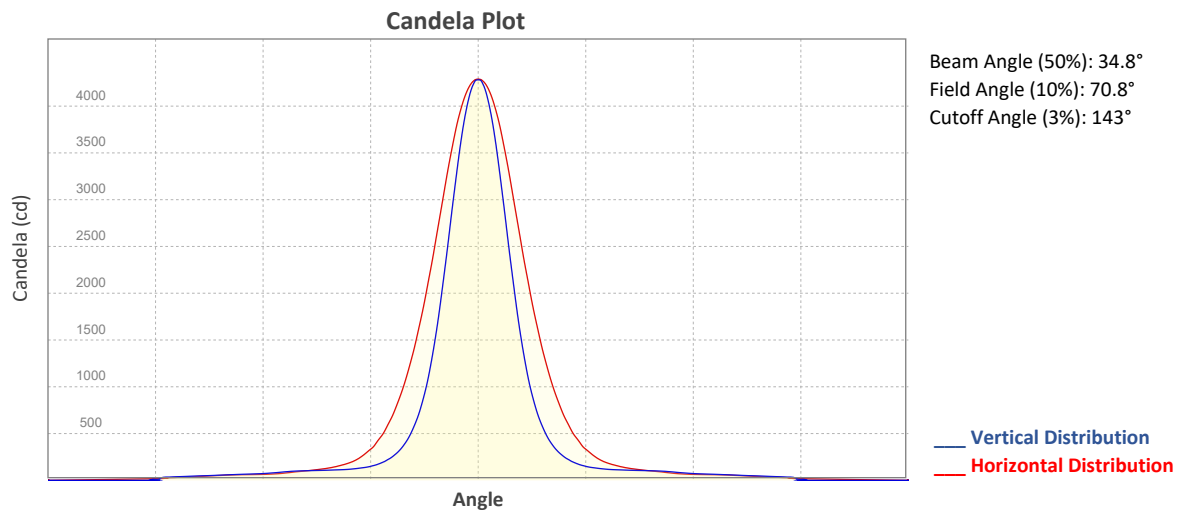
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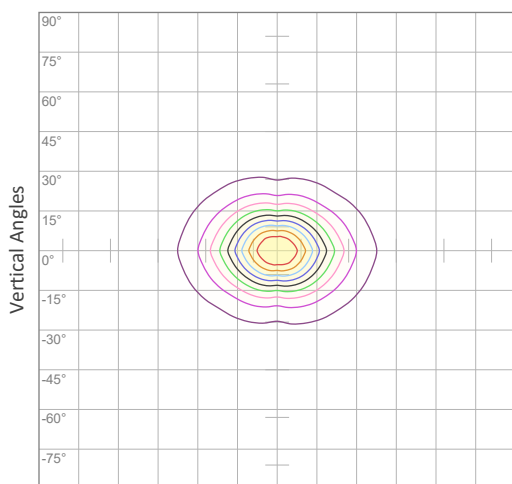
ILUMINARC

Photometric & Chromaticity Report

Logic GZL: Standard Optics - 5000K



ISO Diagrams

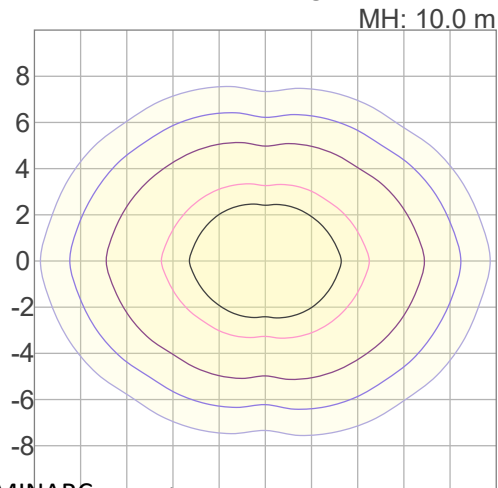


ISO Candela Diagram

10%	428 cd
20%	857 cd
30%	1285 cd
40%	1714 cd
50%	2142 cd
60%	2571 cd
70%	2999 cd
80%	3428 cd
90%	3856 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 4285 cd

Horizontal Angles



ISO Lux Diagram

3%	1.29 lx
5%	2.14 lx
10%	4.28 lx
30%	12.9 lx
50%	21.4 lx

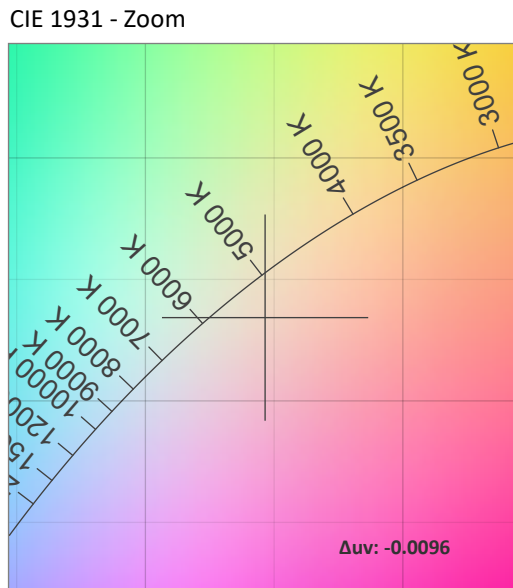
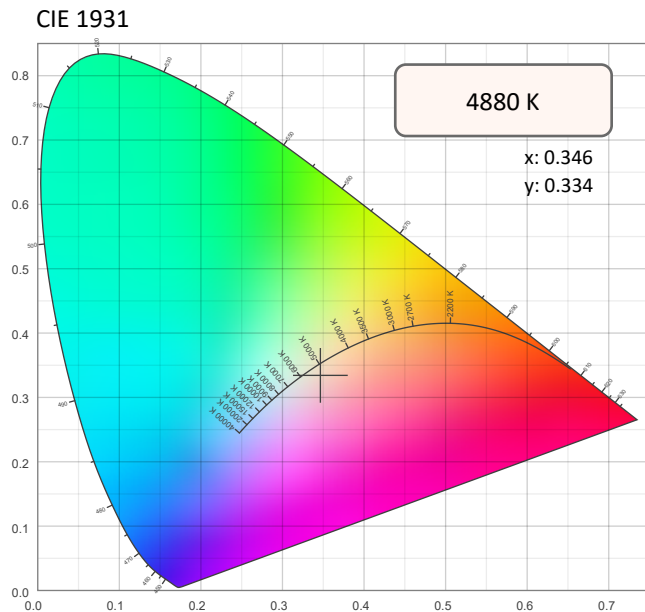
Conditions:
 Number of c-planes: 8
 Candela at center: 42.8 lx

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

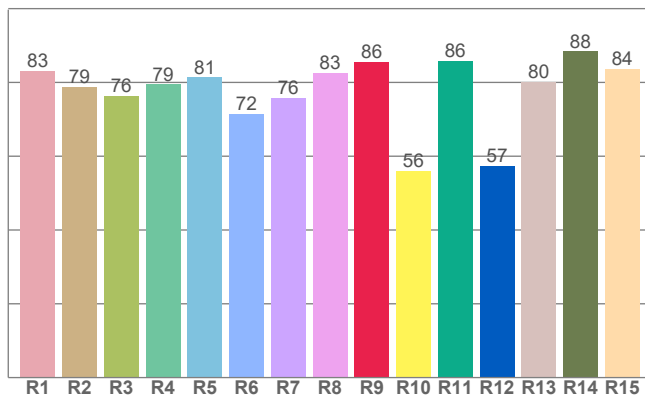
Photometric & Chromaticity Report

Logic GZL: Standard Optics - 5000K

Chromaticity



CRI: 78.6 (R1-R8)

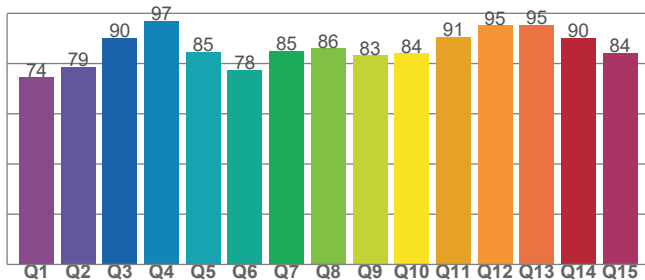


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
4880 K	0.346	0.334

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0096	0.334	0.219

CQS: 85.0



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
78.6	85.6	85.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
85	78.7	92.1

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Photometric & Chromaticity Report

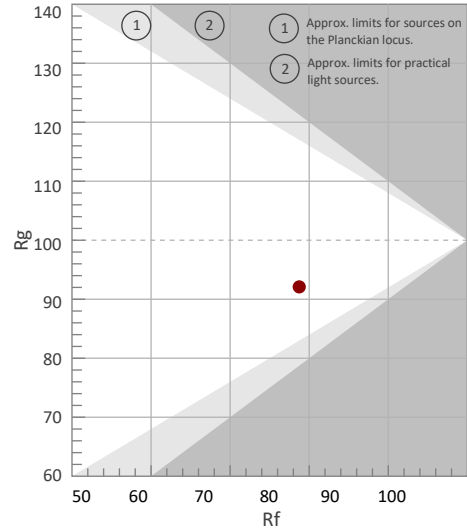
Logic GZL: Standard Optics - 5000K

TM-30 Details

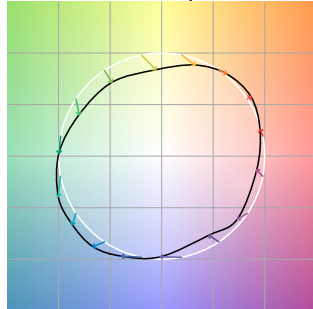
Rf 78.7
Fidelity Index (Rg)

Rg 92.1
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	84	-1%	7%
2	88	4%	0%
3	85	1%	-8%
4	74	-7%	-14%
5	73	-17%	-11%
6	79	-14%	0%
7	77	-11%	11%
8	74	-2%	17%
9	75	6%	19%
10	82	9%	7%
11	79	10%	-6%
12	72	3%	-19%
13	76	-5%	-20%
14	80	-11%	-5%
15	76	-5%	-10%
16	81	-7%	5%



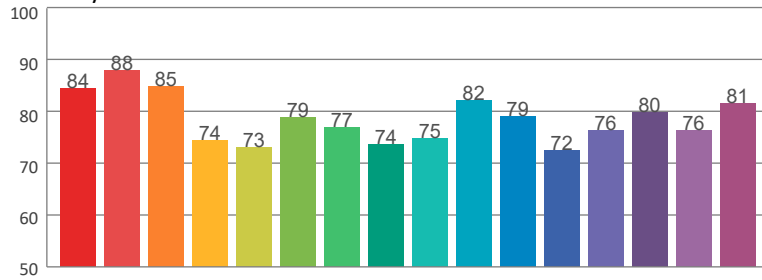
Color Vector Graphic



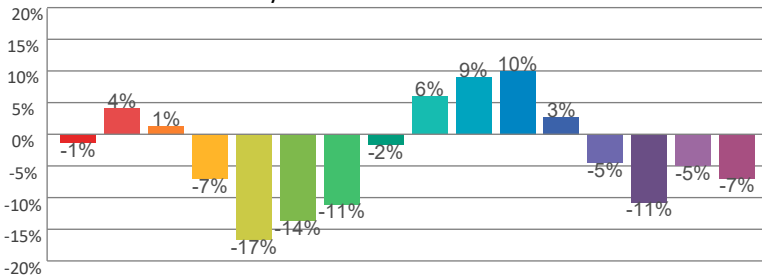
Color Distortion Graphic



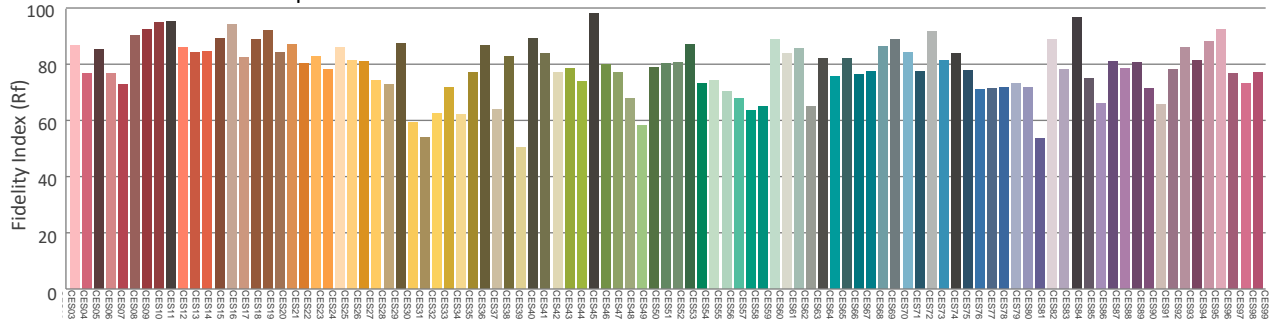
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 5600K

Report Summary

Measurements

Fixture Output: 2795 lm
Fixture Peak: 4340 cd
Fixture Efficacy: 58 lm/W
Intensity @ 5m: 174 lux
Color Temperature: 5766 K
CRI: 73.4 CRI R9 Value: 70.4
CQS: 82.8
TLCI: 80
TM-30 Rf: 74.2
TM-30 Rg: 89.9
Beam Angle (50%): 34.8°
Field Angle (10%): 70.8°
Cutoff Angle (2%): 145.5°

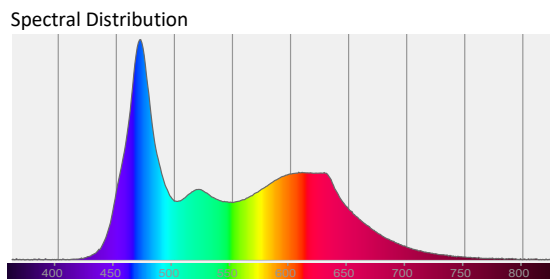
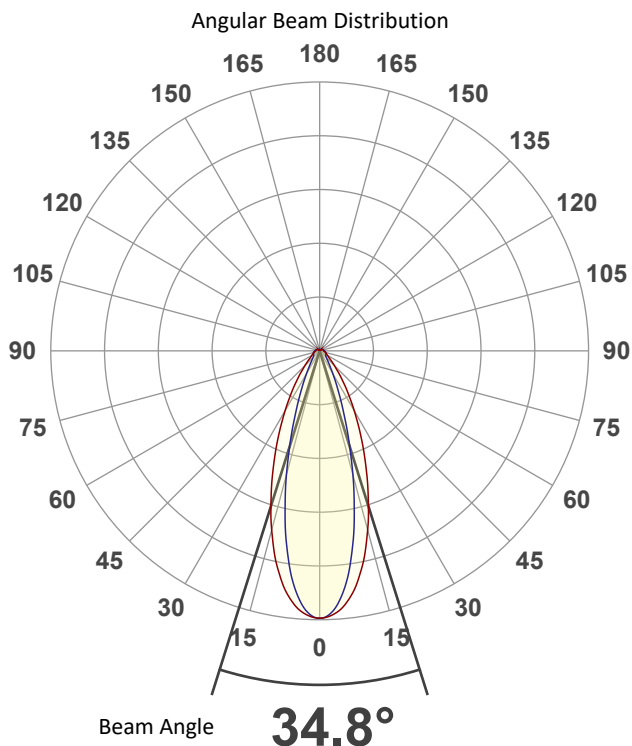
Conditions

AC Supply: 118 V, 60 Hz
Power: 50.78 W
Current: 0.431 A
Power Factor: 0.95



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

Overall Measurement



Tested Color (CIE 1931):

X: 0.327

Y: 0.317



Light Quality

CRI: 73.4

Color Temperature

5766 K

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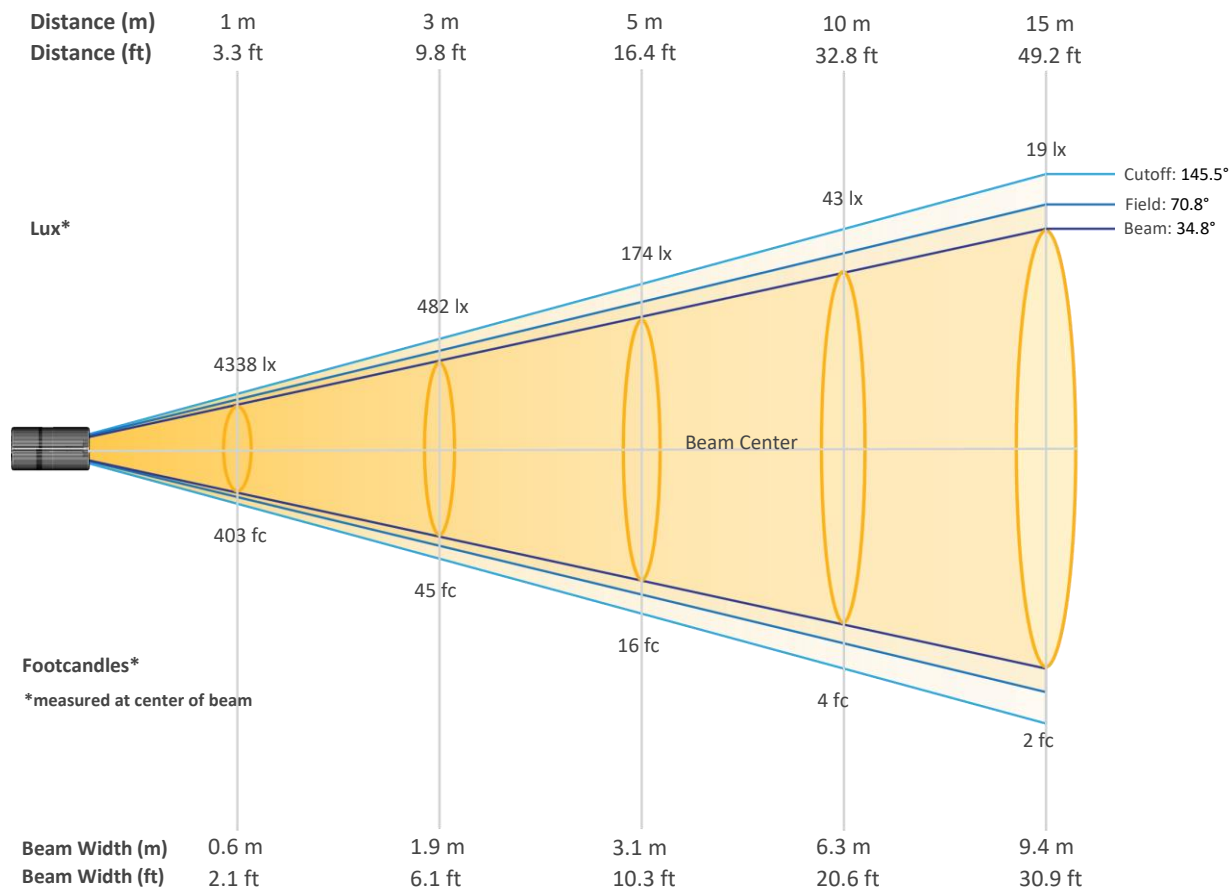
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Photometric & Chromaticity Report

Logic GZL: 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	4338	1085	482	271	174	121	89	68	54	43
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	36	30	26	22	19	17	15	13	12	11
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	403	101	45	25	16	11	8	6	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	3	2	2	2	2	1	1	1	1

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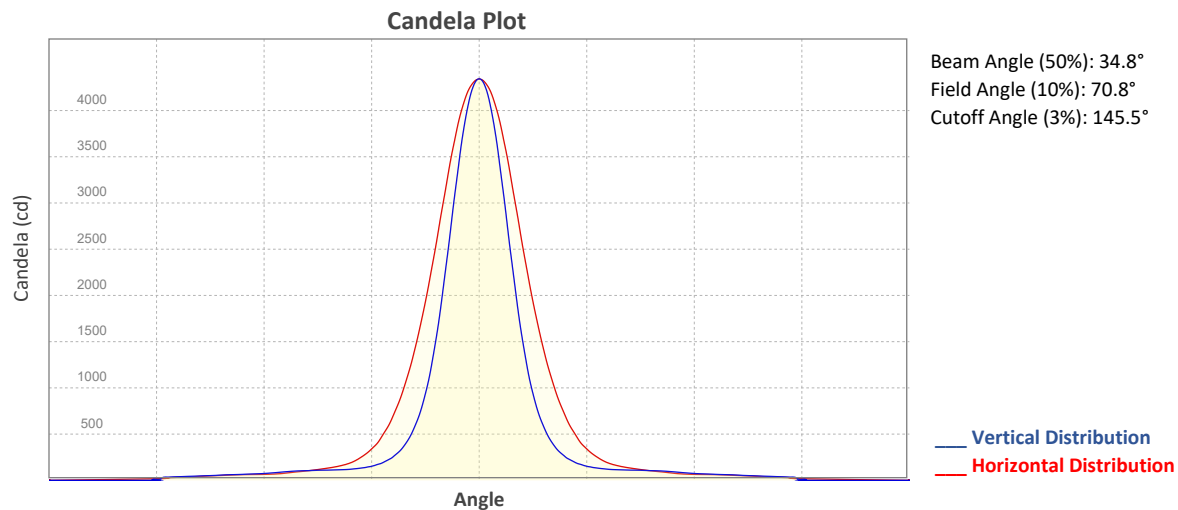
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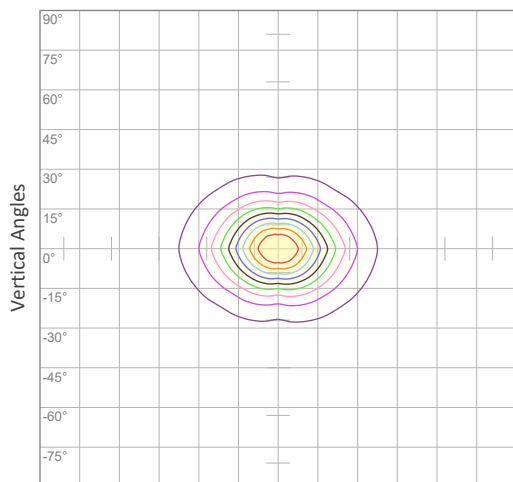
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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 5600K



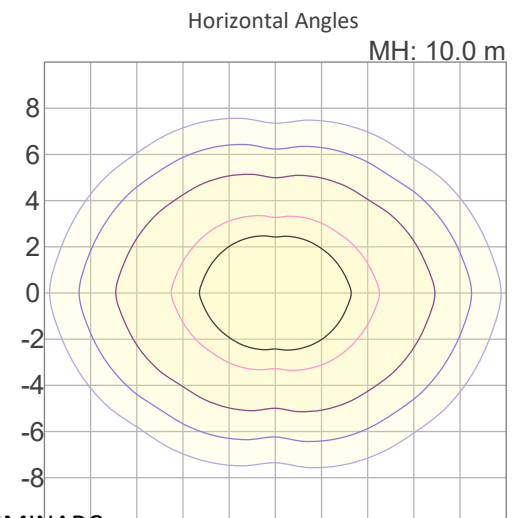
ISO Diagrams



ISO Candela Diagram

10%	434 cd
20%	868 cd
30%	1301 cd
40%	1735 cd
50%	2169 cd
60%	2603 cd
70%	3037 cd
80%	3471 cd
90%	3904 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 4338 cd



ISO Lux Diagram

3%	1.30 lx
5%	2.17 lx
10%	4.34 lx
30%	13.0 lx
50%	21.7 lx

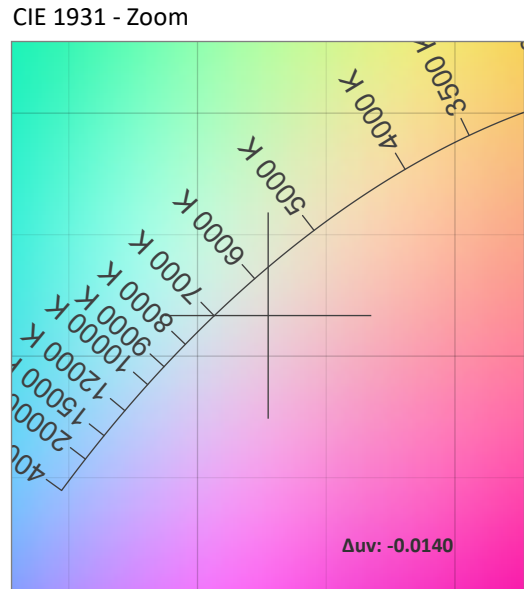
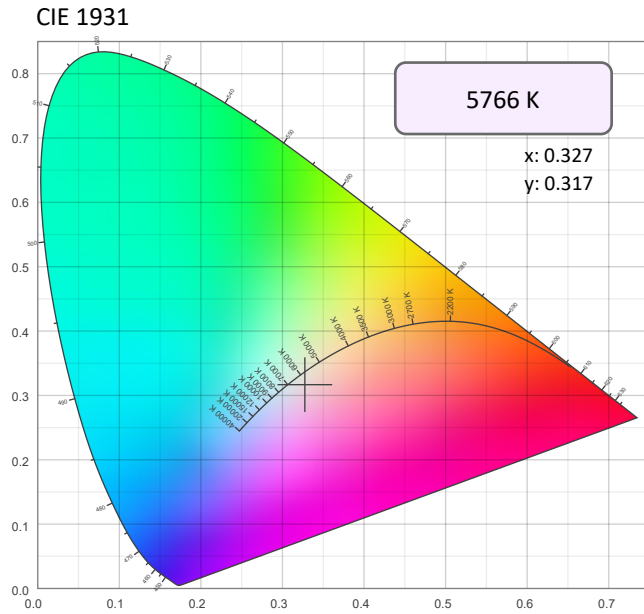
Conditions:
 Number of c-planes: 8
 Candela at center: 43.4 lx

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

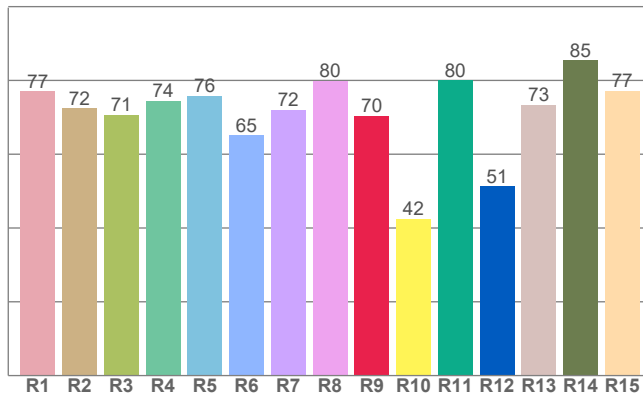
Photometric & Chromaticity Report

Logic GZL: Standard Optics - 5600K

Chromaticity



CRI: 73.4 (R1-R8)

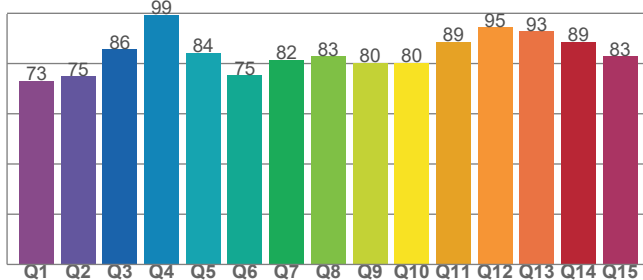


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5766 K	0.327	0.317

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0140	0.317	0.213

CQS: 82.8



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
73.4	70.4	82.8

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
80	74.2	89.9

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Photometric & Chromaticity Report

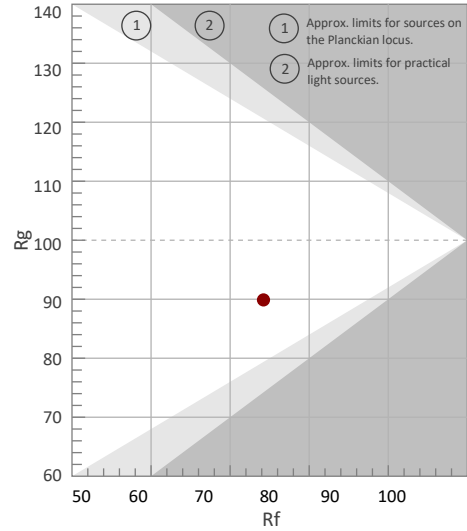
Logic GZL: Standard Optics - 5600K

TM-30 Details

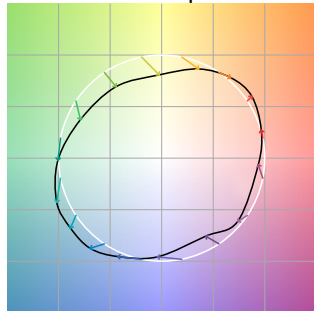
Rf 74.2
Fidelity Index
(Rg)

Rg 89.9
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	81	0%	8%
2	86	6%	1%
3	79	2%	-12%
4	68	-8%	-18%
5	63	-20%	-13%
6	75	-18%	-2%
7	72	-14%	13%
8	64	-2%	22%
9	74	8%	22%
10	79	11%	7%
11	75	11%	-9%
12	67	2%	-23%
13	73	-7%	-23%
14	75	-13%	-7%
15	77	-5%	-10%
16	77	-7%	12%



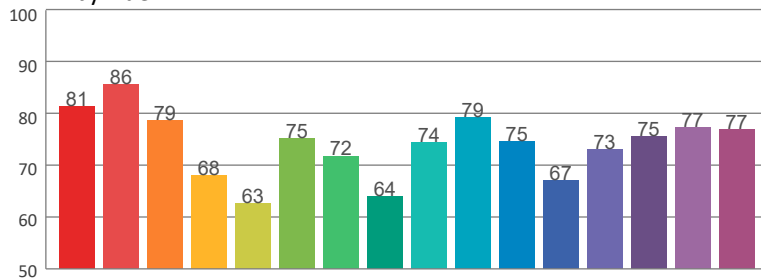
Color Vector Graphic



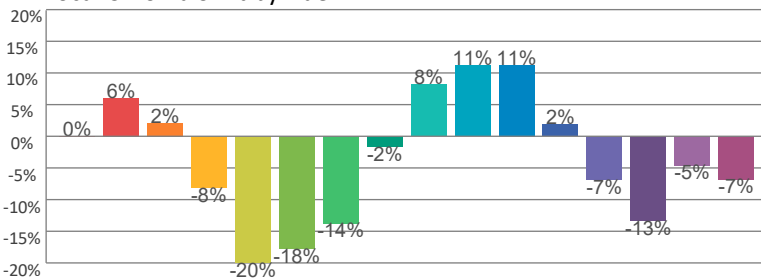
Color Distortion Graphic



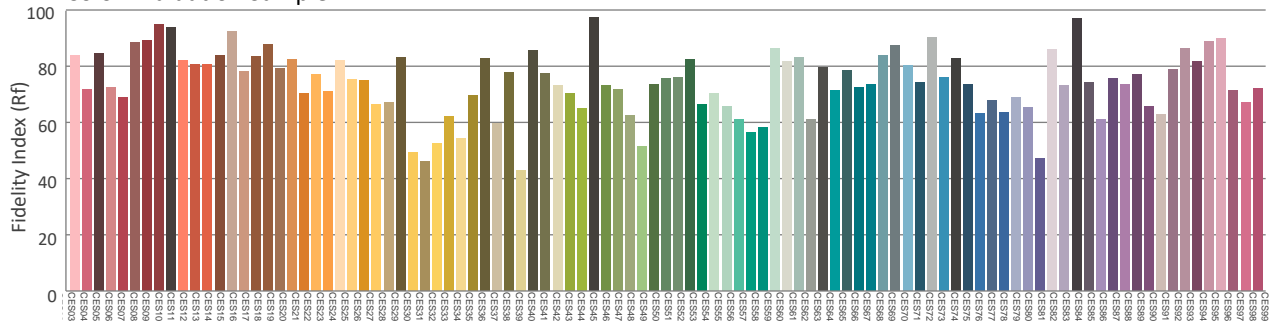
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 6000K

Report Summary

Measurements

Fixture Output: 2729 lm
Fixture Peak: 4236 cd
Fixture Efficacy: 57 lm/W
Intensity @ 5m: 169 lux
Color Temperature: 6112 K
CRI: 70.7 CRI R9 Value: 66.1
CQS: 81.1
TLCI: 77
TM-30 Rf: 72.2
TM-30 Rg: 89.0
Beam Angle (50%): 35°
Field Angle (10%): 71°
Cutoff Angle (2%): 142.5°

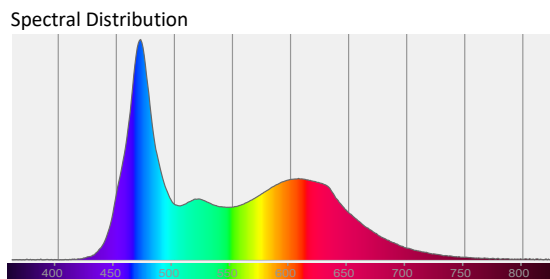
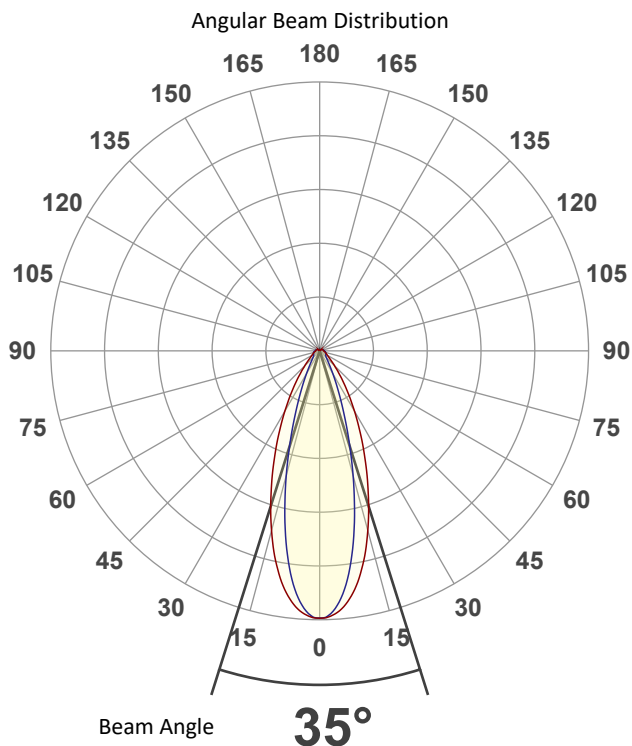
Conditions

AC Supply: 118 V, 60 Hz
Power: 50.47 W
Current: 0.428 A
Power Factor: 0.95



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

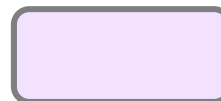
Overall Measurement



Tested Color (CIE 1931):

X: 0.322

Y: 0.308



Light Quality

CRI: 70.7

Color Temperature

6112 K

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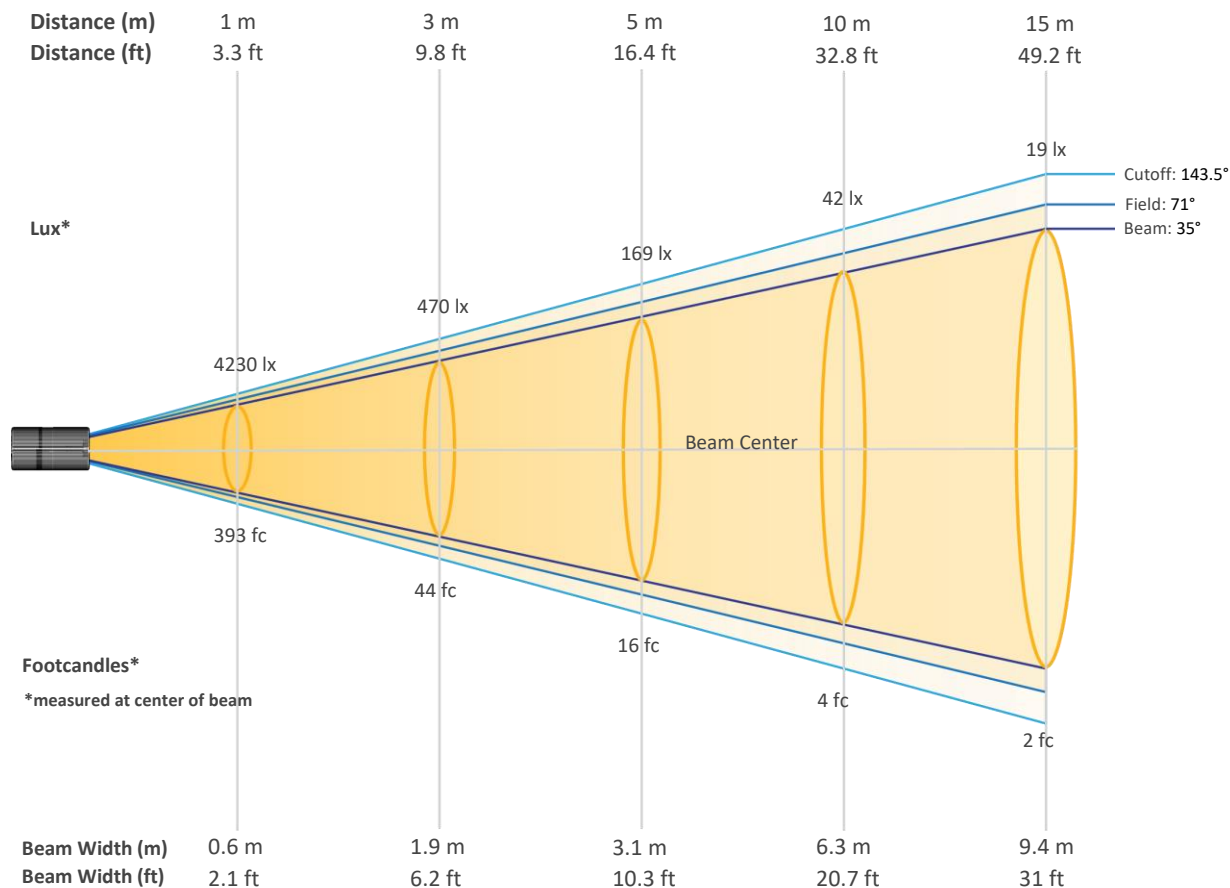
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Photometric & Chromaticity Report

Logic GZL: 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	4230	1058	470	264	169	118	86	66	52	42
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	35	29	25	22	19	17	15	13	12	11
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	393	98	44	25	16	11	8	6	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	3	2	2	2	2	1	1	1	1

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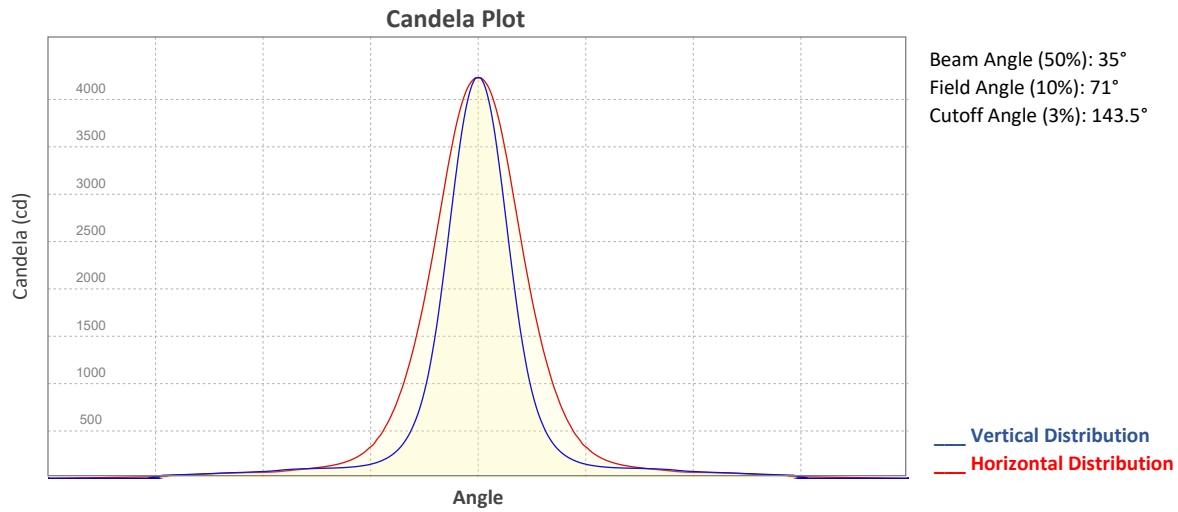
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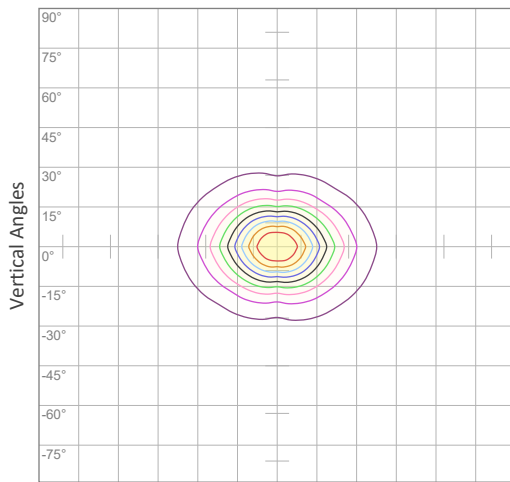
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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 6000K



ISO Diagrams



ISO Candela Diagram

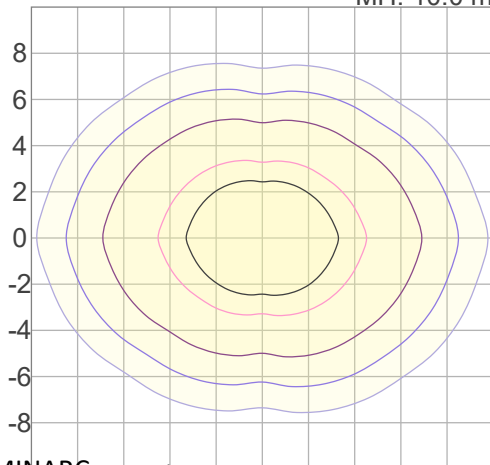
10%	423 cd
20%	846 cd
30%	1269 cd
40%	1692 cd
50%	2115 cd
60%	2538 cd
70%	2961 cd
80%	3384 cd
90%	3807 cd

Conditions:

Number of c-planes: 8
Candela at center: 4230 cd

Horizontal Angles

MH: 10.0 m



ISO Lux Diagram

3%	1.27 lx
5%	2.12 lx
10%	4.23 lx
30%	12.7 lx
50%	21.2 lx

Conditions:

Number of c-planes: 8
Candela at center: 42.3 lx

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

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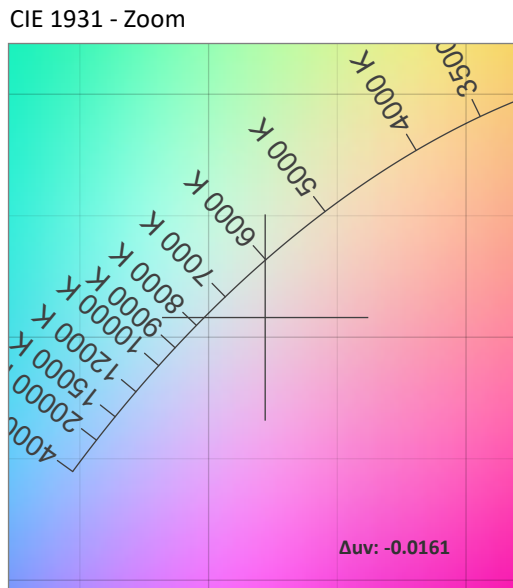
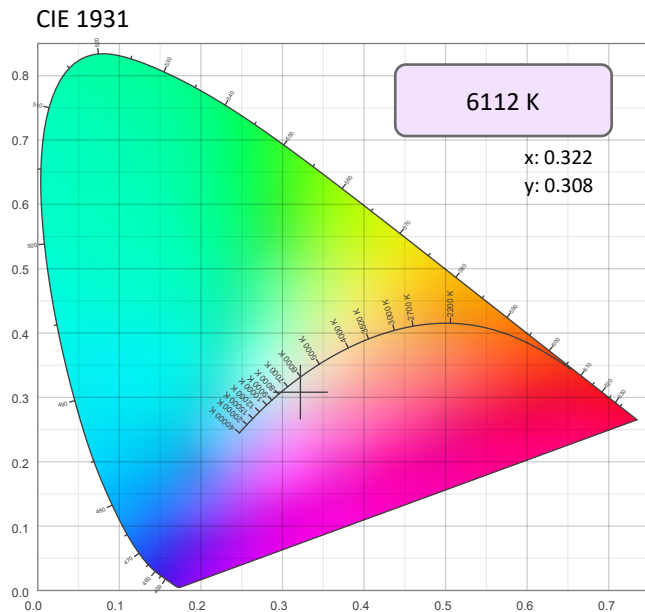
Mounting height: 10 meters / 33 feet

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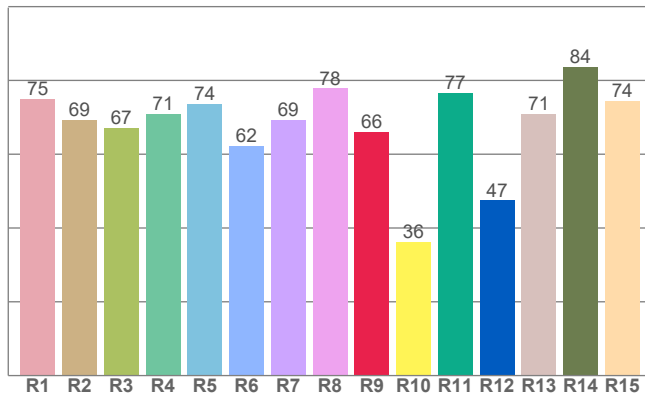
Photometric & Chromaticity Report

Logic GZL: Standard Optics - 6000K

Chromaticity



CRI: 70.7 (R1-R8)

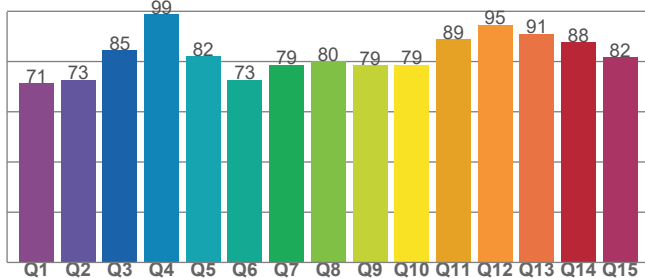


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6112 K	0.322	0.308

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0161	0.308	0.213

CQS: 81.1



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
70.7	66.1	81.1

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
77	72.2	89.0

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Photometric & Chromaticity Report

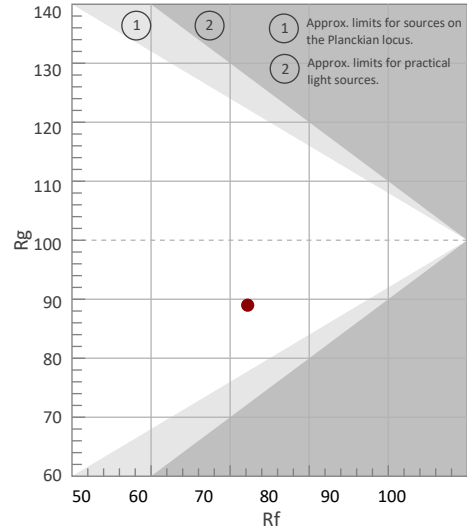
Logic GZL: Standard Optics - 6000K

TM-30 Details

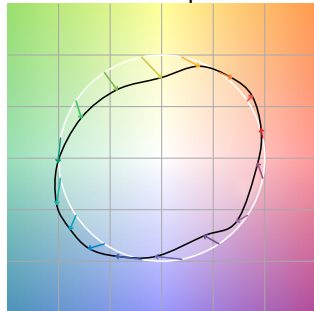
Rf 72.2
Fidelity Index (Rg)

Rg 89.0
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	80	0%	9%
2	84	6%	2%
3	77	2%	-13%
4	69	-6%	-18%
5	58	-23%	-15%
6	70	-21%	-1%
7	74	-13%	11%
8	61	-2%	23%
9	73	9%	24%
10	78	12%	8%
11	73	12%	-10%
12	65	2%	-25%
13	71	-8%	-24%
14	73	-15%	-7%
15	76	-5%	-11%
16	75	-8%	13%



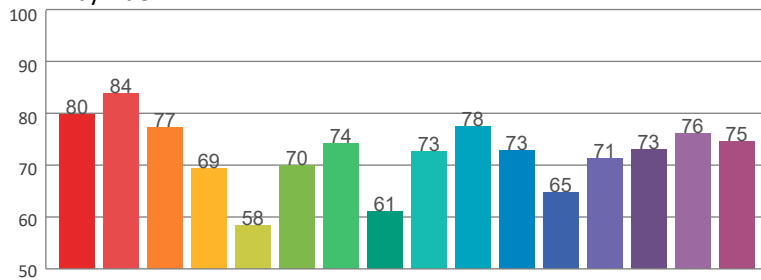
Color Vector Graphic



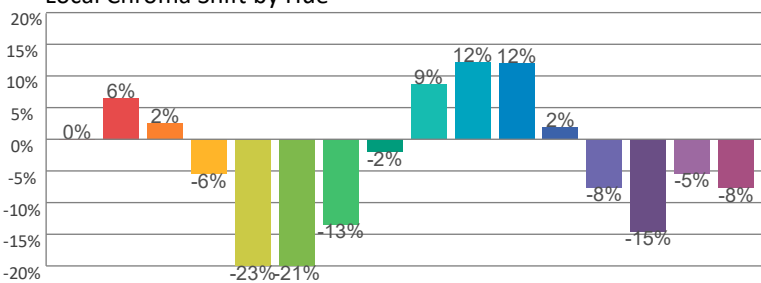
Color Distortion Graphic



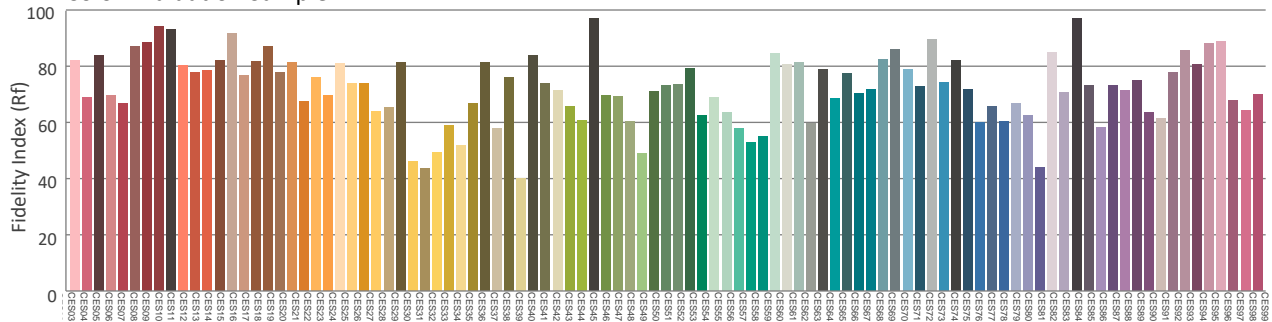
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 6500K

Report Summary

Measurements

Fixture Output: 2745 lm
Fixture Peak: 4262 cd
Fixture Efficacy: 56 lm/W
Intensity @ 5m: 170 lux
Color Temperature: 6797 K
CRI: 66.3 CRI R9 Value: 50.8
CQS: 78.4
TLCI: 72
TM-30 Rf: 69.0
TM-30 Rg: 88.2
Beam Angle (50%): 35°
Field Angle (10%): 71°
Cutoff Angle (2%): 117.8°

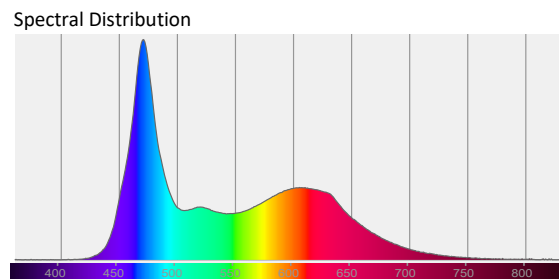
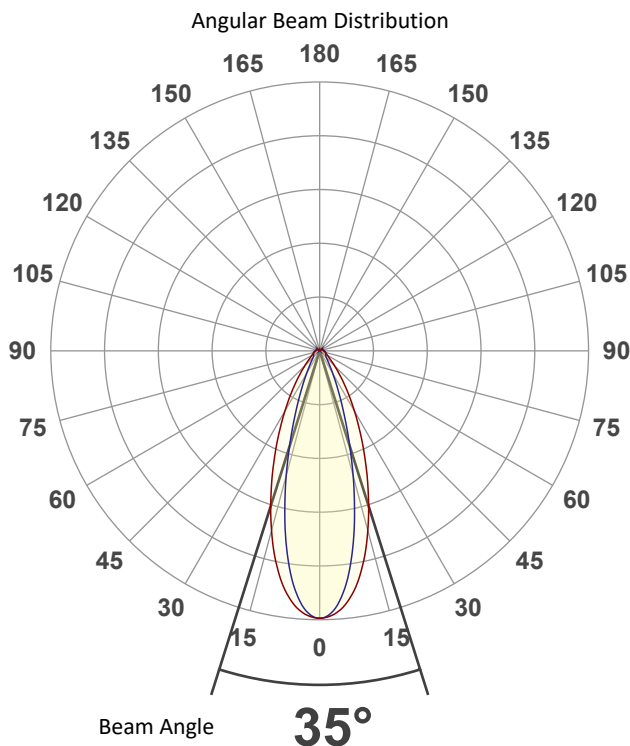
Conditions

AC Supply: 119 V, 60 Hz
Power: 51.92 W
Current: 0.437 A
Power Factor: 0.95



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

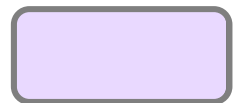
Overall Measurement



Tested Color (CIE 1931):

X: 0.313

Y: 0.297



Light Quality

CRI: 66.3

Color Temperature

6797 K

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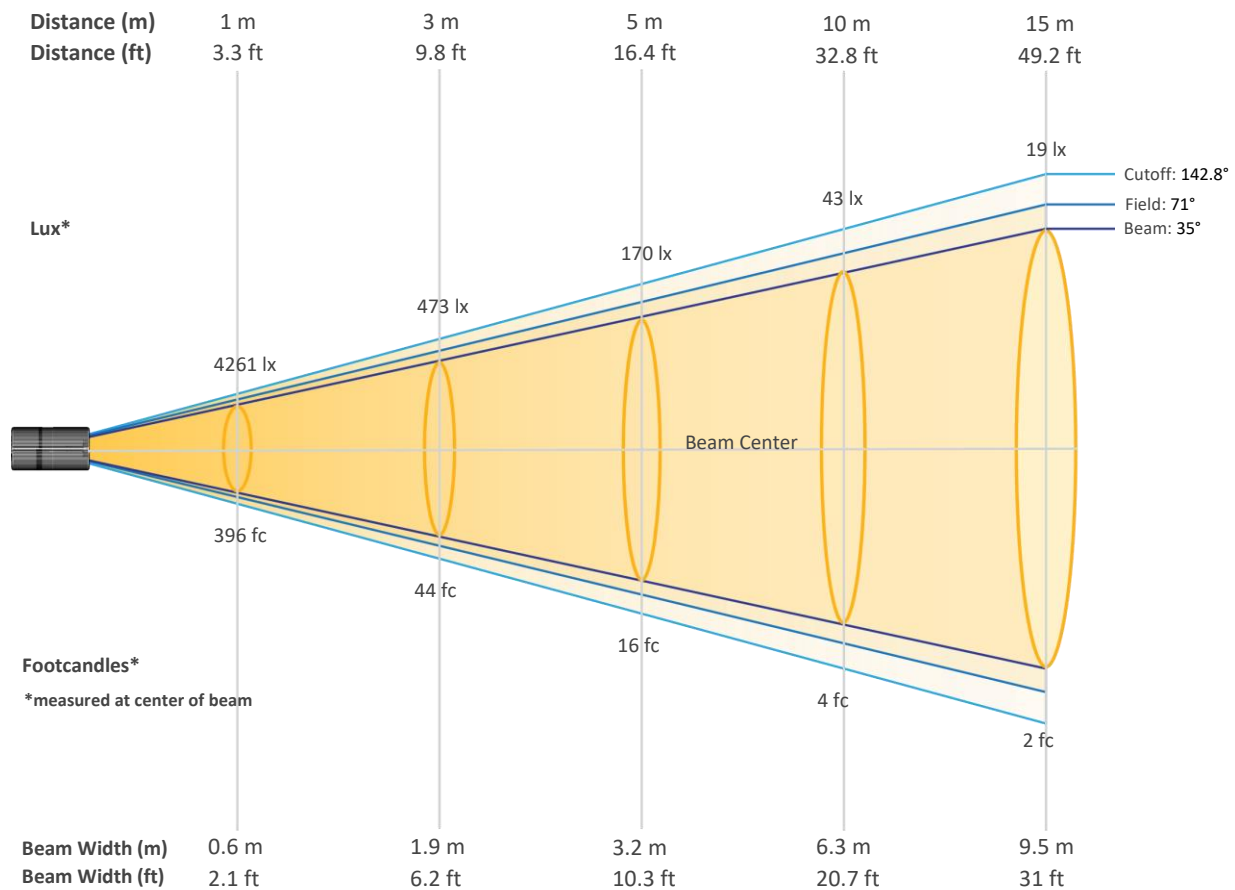
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Photometric & Chromaticity Report

Logic GZL: 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	4261	1065	473	266	170	118	87	67	53	43
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	35	30	25	22	19	17	15	13	12	11
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	396	99	44	25	16	11	8	6	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	3	2	2	2	2	1	1	1	1

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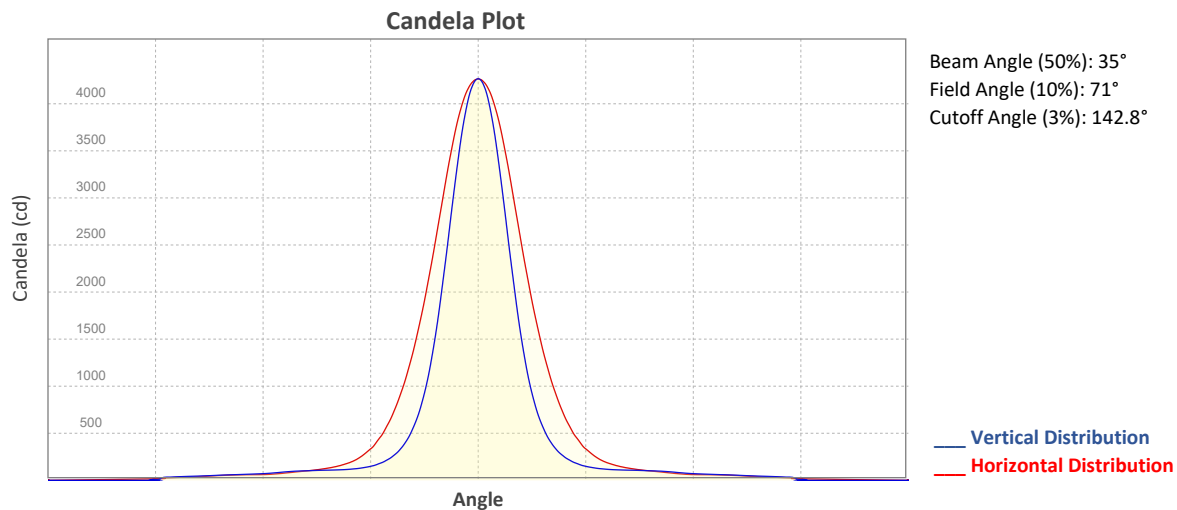
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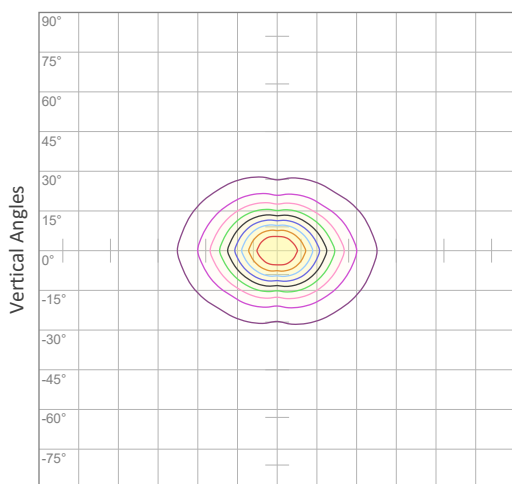
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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 6500K



ISO Diagrams

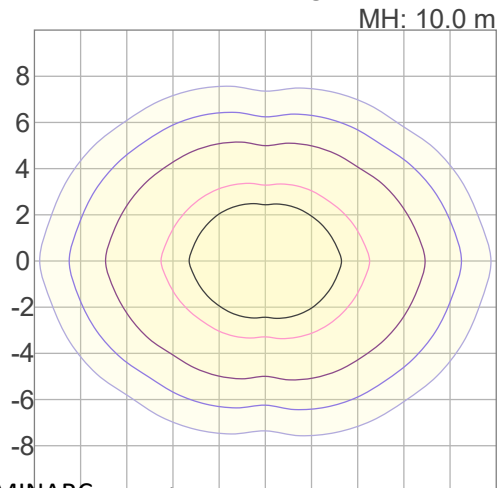


ISO Candela Diagram

10%	426 cd
20%	852 cd
30%	1278 cd
40%	1704 cd
50%	2130 cd
60%	2557 cd
70%	2983 cd
80%	3409 cd
90%	3835 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 4261 cd

Horizontal Angles



ISO Lux Diagram

3%	1.28 lx
5%	2.13 lx
10%	4.26 lx
30%	12.8 lx
50%	21.3 lx

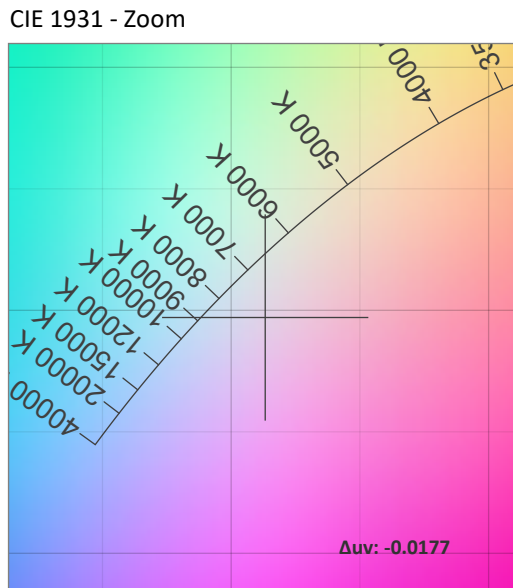
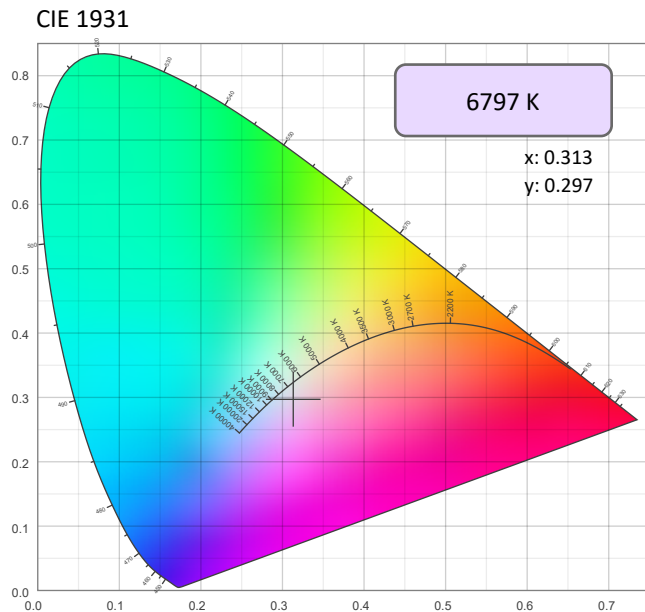
Conditions:
 Number of c-planes: 8
 Candela at center: 42.6 lx

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

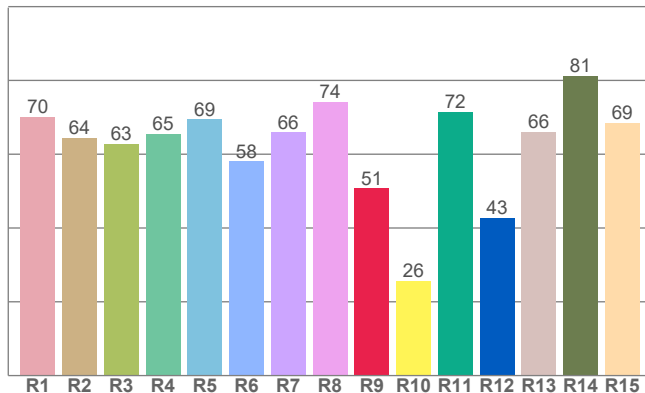
Photometric & Chromaticity Report

Logic GZL: Standard Optics - 6500K

Chromaticity



CRI: 66.3 (R1-R8)

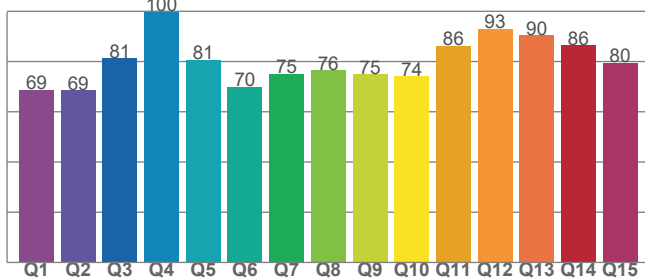


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6797 K	0.313	0.297

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0177	0.297	0.211

CQS: 78.4



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
66.3	50.8	78.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
72	69.0	88.2

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Photometric & Chromaticity Report

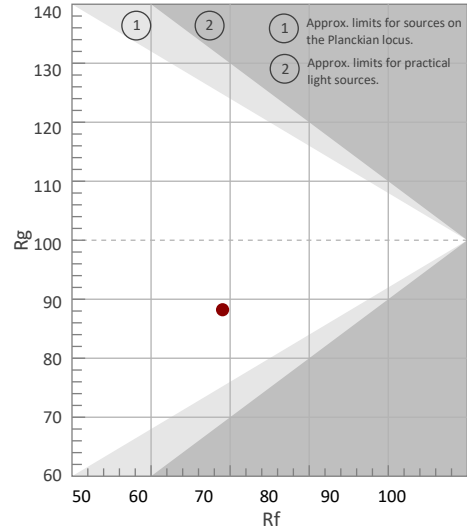
Logic GZL: Standard Optics - 6500K

TM-30 Details

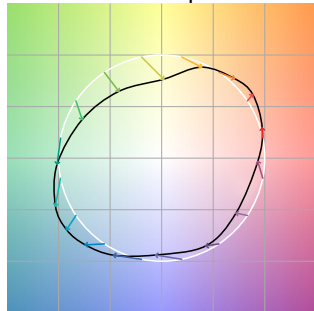
Rf 69.0
Fidelity Index (Rg)

Rg 88.2
Gammut Index (Rg)

Hue Bin	Graphic shifts (%)		
	R _f	Chroma	Hue
1	77	1%	10%
2	79	8%	2%
3	75	3%	-16%
4	65	-6%	-21%
5	54	-25%	-17%
6	66	-23%	-1%
7	71	-15%	12%
8	57	-2%	26%
9	70	10%	25%
10	76	15%	6%
11	66	11%	-15%
12	61	1%	-27%
13	69	-9%	-24%
14	67	-5%	-12%
15	79	-10%	-4%
16	72	-8%	15%



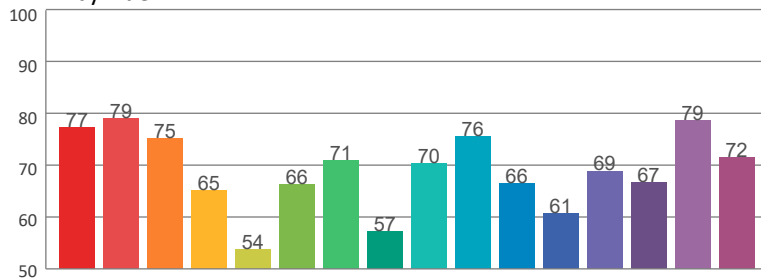
Color Vector Graphic



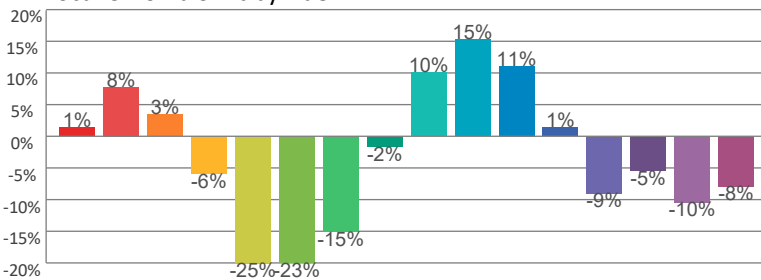
Color Distortion Graphic



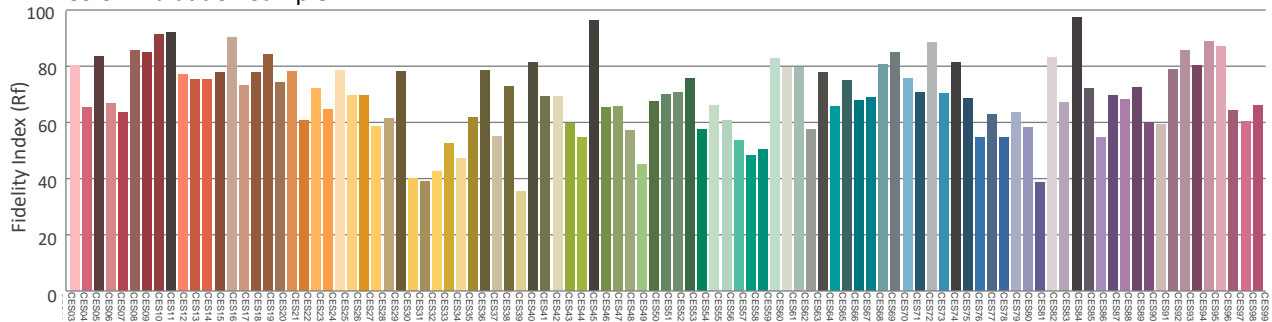
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZL: Standard Optics - 7000K

Report Summary

Measurements

Fixture Output: 2704 lm
 Fixture Peak: 4186 cd
 Fixture Efficacy: 55 lm/W
 Intensity @ 5m: 167 lux
 Color Temperature: 7484 K
 CRI: 63.5 CRI R9 Value: 40.9
 CQS: 76.4
 TLCI: 70
 TM-30 Rf: 66.8
 TM-30 Rg: 86.8
 Beam Angle (50%): 35°
 Field Angle (10%): 70.9°
 Cutoff Angle (2%): 145.6°

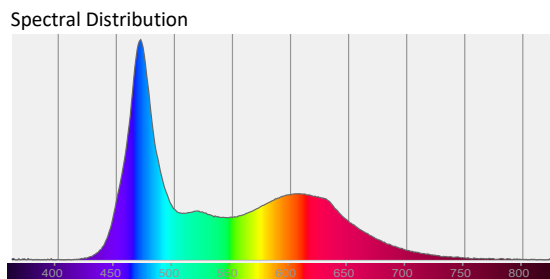
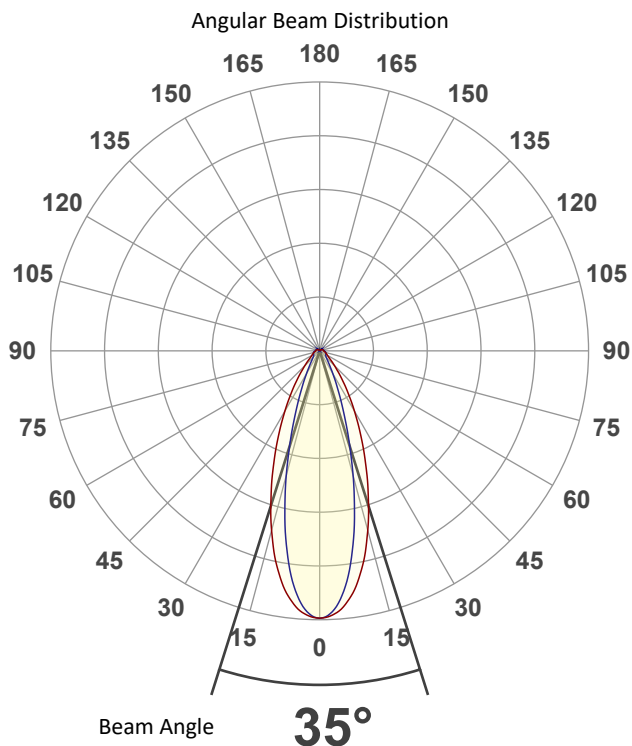
Conditions


AC Supply: 118 V, 60 Hz
 Power: 52.07 W
 Current: 0.441 A
 Power Factor: 0.95



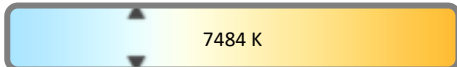
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931): 
 X: 0.306
 Y: 0.290

Light Quality 
 CRI: 63.5

Color Temperature 
 7484 K

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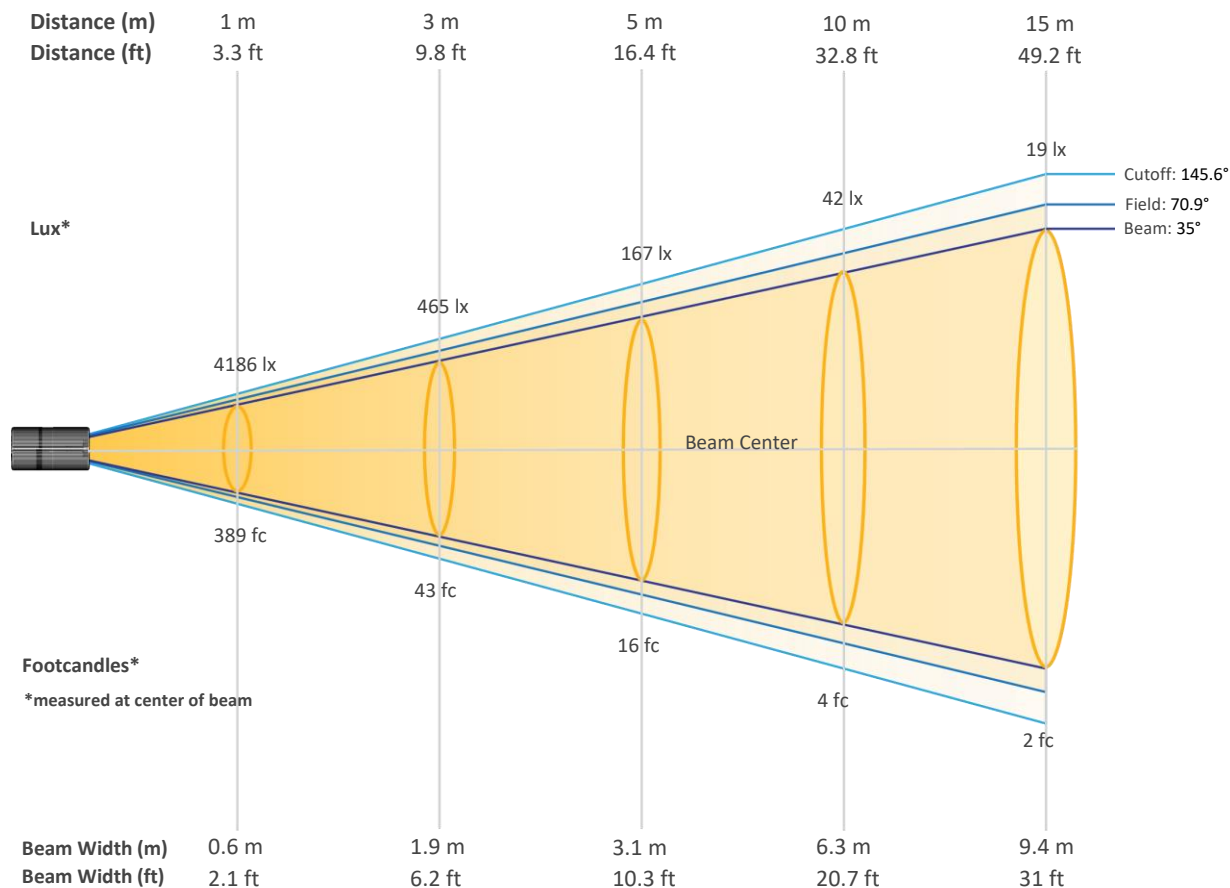
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Photometric & Chromaticity Report

Logic GZL: 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	4186	1046	465	262	167	116	85	65	52	42
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	35	29	25	21	19	16	14	13	12	10
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	389	97	43	24	16	11	8	6	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	3	2	2	2	2	1	1	1	1

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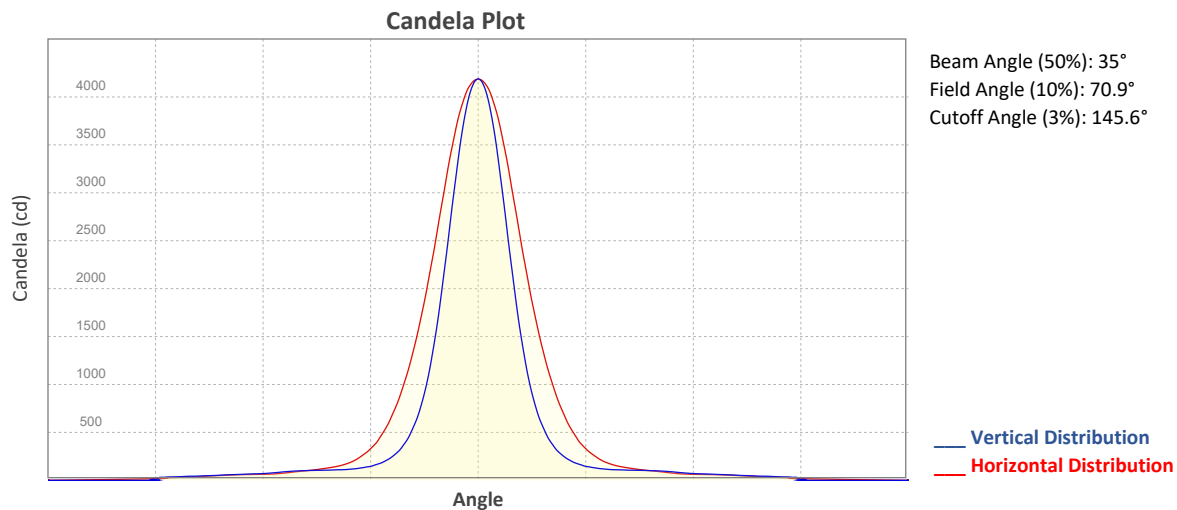
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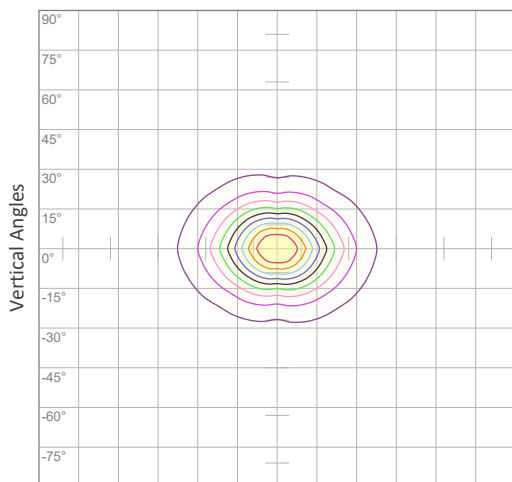
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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 7000K



ISO Diagrams



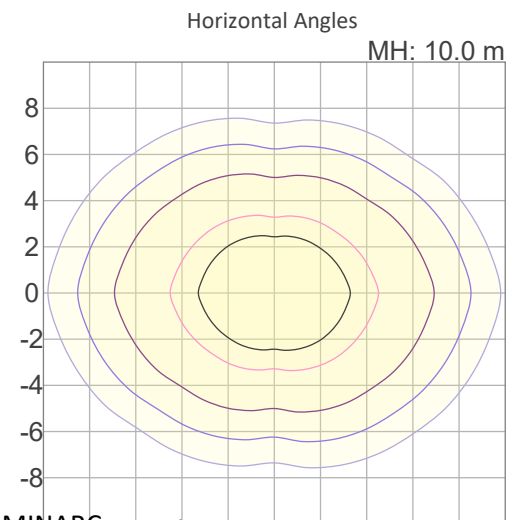
ISO Candela Diagram

10%	419 cd
20%	837 cd
30%	1256 cd
40%	1674 cd
50%	2093 cd
60%	2511 cd
70%	2930 cd
80%	3349 cd
90%	3767 cd

Conditions:

Number of c-planes: 8

Candela at center: 4186 cd



ISO Lux Diagram

3%	1.26 lx
5%	2.09 lx
10%	4.19 lx
30%	12.6 lx
50%	20.9 lx

Conditions:

Number of c-planes: 8

Candela at center: 41.9 lx

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

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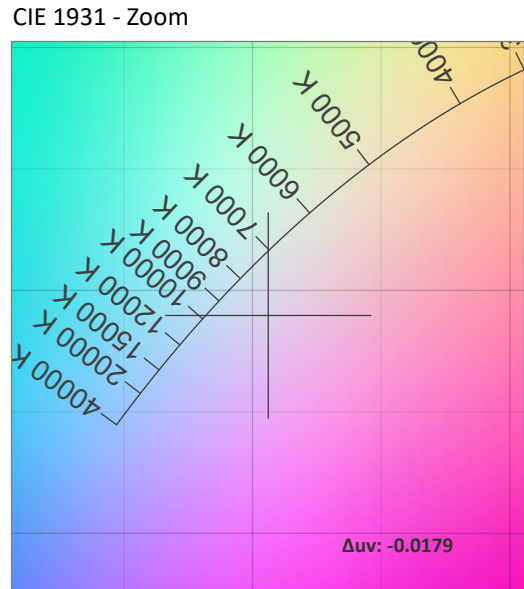
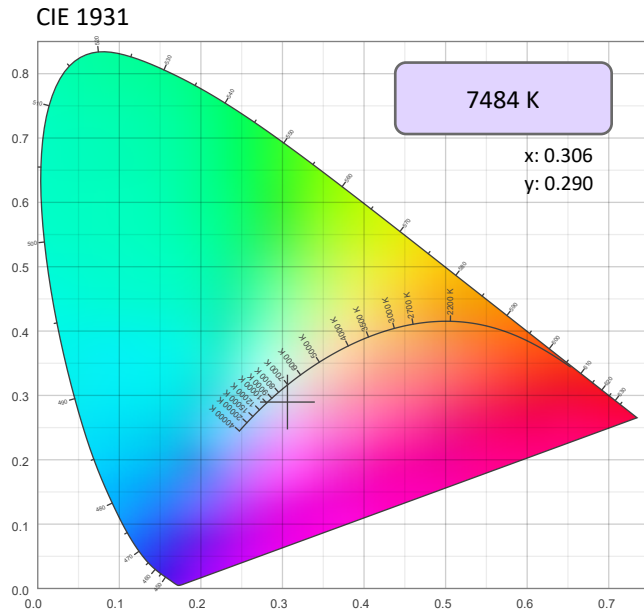
Mounting height: 10 meters / 33 feet

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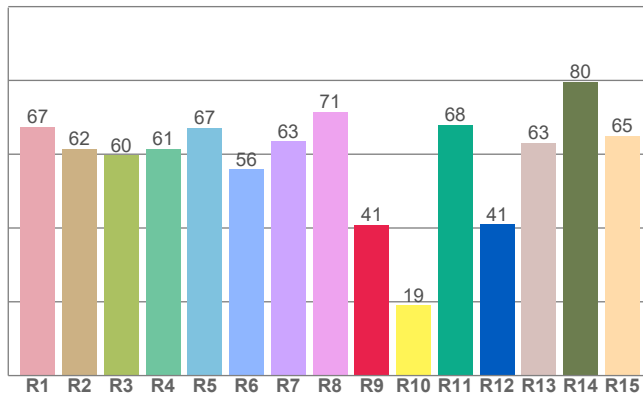
Photometric & Chromaticity Report

Logic GZL: Standard Optics - 7000K

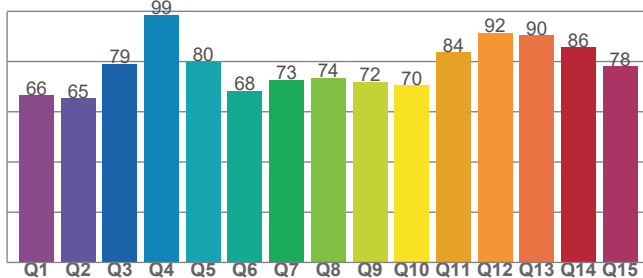
Chromaticity



CRI: 63.5 (R1-R8)



CQS: 76.4



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
7484 K	0.306	0.290

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0179	0.290	0.209

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
63.5	40.9	76.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
70	66.8	86.8

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Photometric & Chromaticity Report

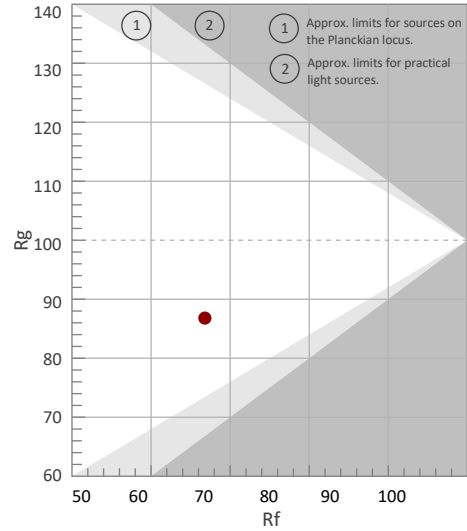
Logic GZL: Standard Optics - 7000K

TM-30 Details

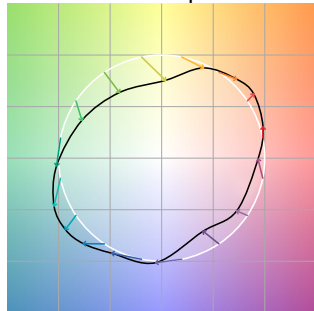
Rf 66.8
Fidelity Index (Rg)

Rg 86.8
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	75	2%	10%
2	77	9%	2%
3	72	4%	-18%
4	62	-6%	-23%
5	50	-27%	-18%
6	64	-24%	-1%
7	70	-15%	13%
8	55	-2%	27%
9	69	11%	25%
10	76	16%	6%
11	59	11%	-17%
12	62	0%	-29%
13	66	-2%	-25%
14	68	-19%	-6%
15	79	-11%	-2%
16	65	-8%	17%



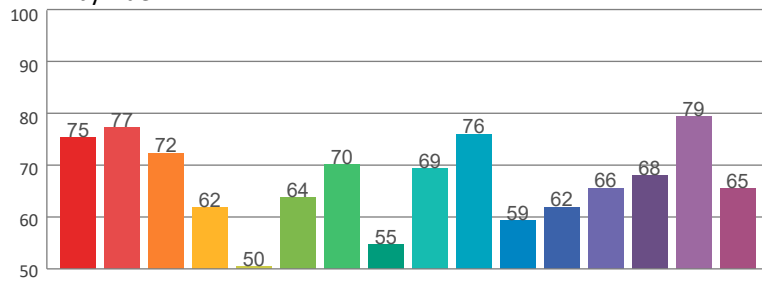
Color Vector Graphic



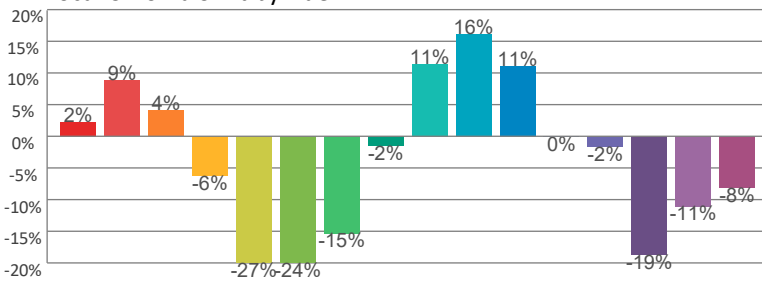
Color Distortion Graphic



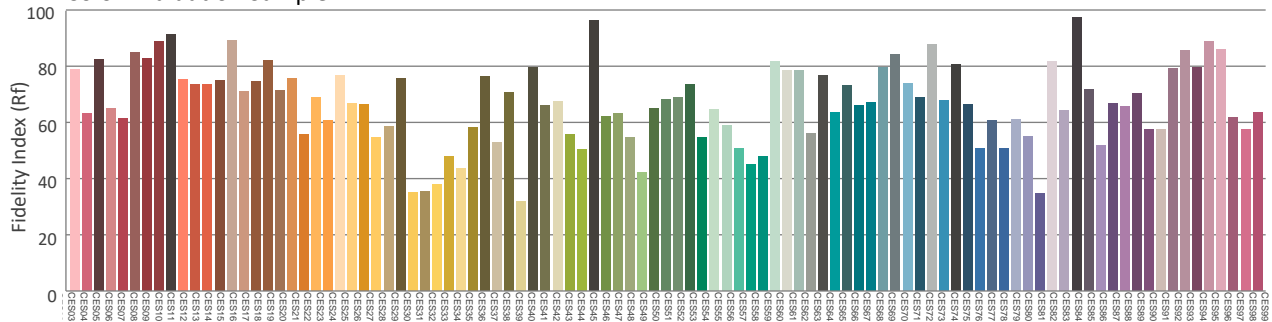
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 8000K

Report Summary

Measurements

Fixture Output: 2609 lm
Fixture Peak: 4020 cd
Fixture Efficacy: 53 lm/W
Intensity @ 5m: 161 lux
Color Temperature: 8995 K
CRI: 58.8 CRI R9 Value: 25.0
CQS: 72.7
TLCI: 65
TM-30 Rf: 63.0
TM-30 Rg: 84.6
Beam Angle (50%): 35°
Field Angle (10%): 71.1°
Cutoff Angle (2%): 116.9°

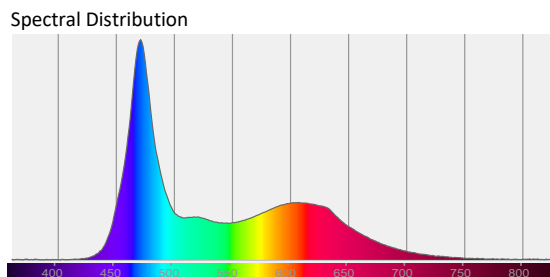
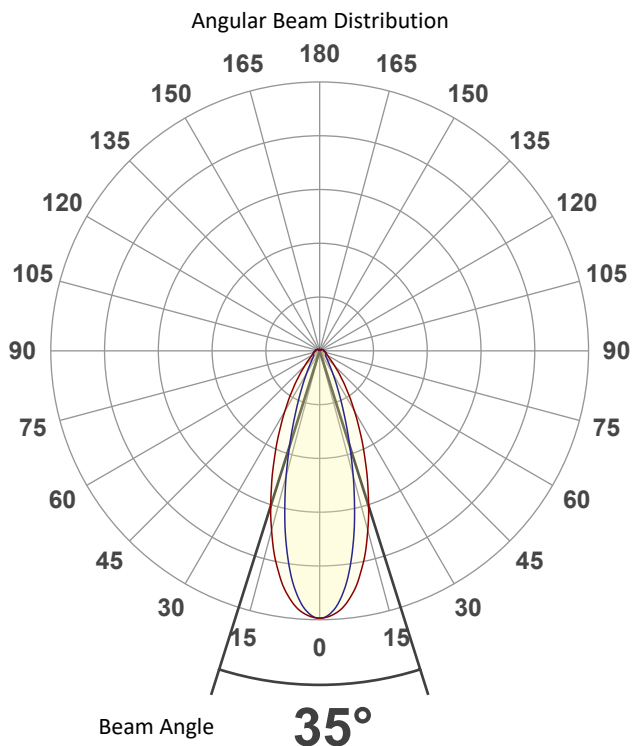
Conditions

AC Supply: 118 V, 60 Hz
Power: 52.07 W
Current: 0.441 A
Power Factor: 0.95



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

Overall Measurement



Tested Color (CIE 1931):

X: 0.295

Y: 0.278



Light Quality

CRI: 58.8

Color Temperature

8995 K

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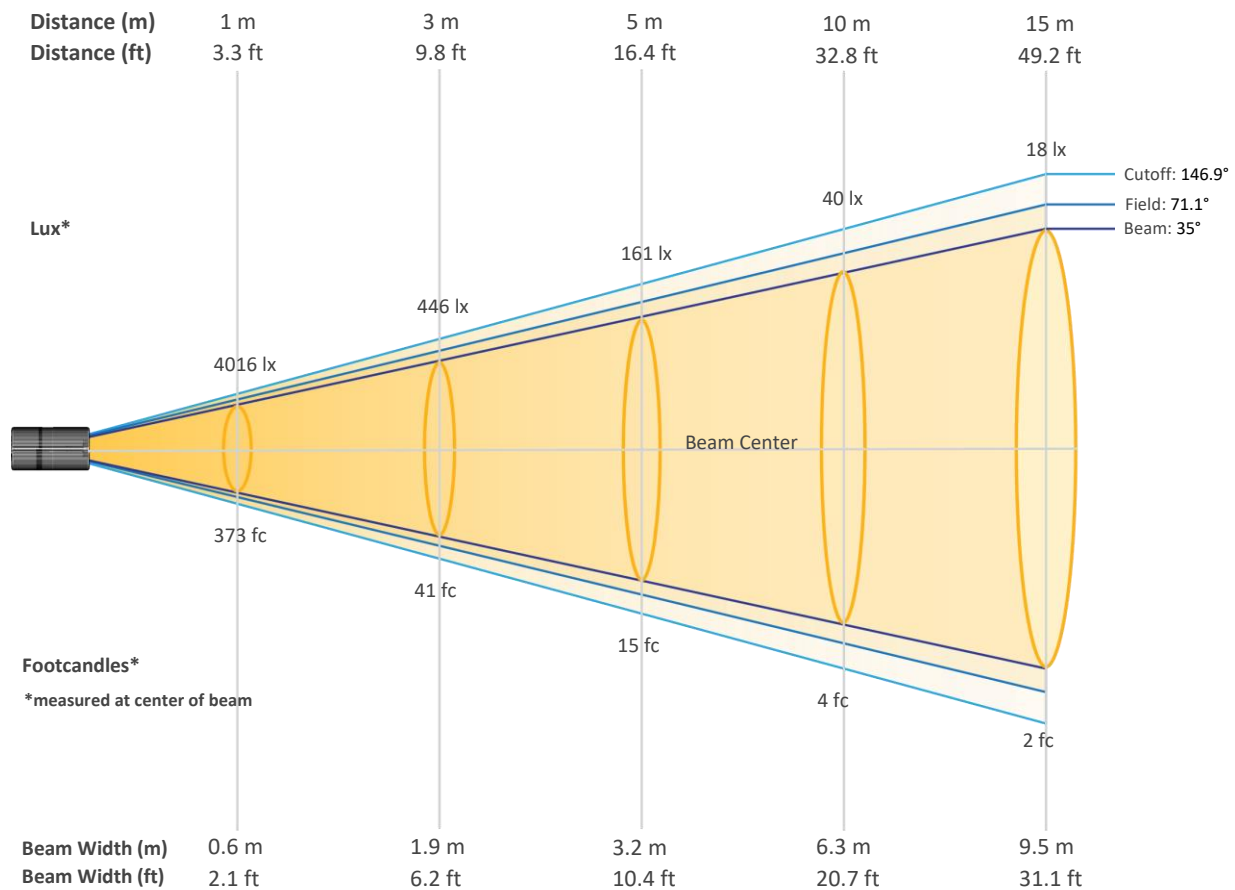
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Photometric & Chromaticity Report

Logic GZL: 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	4016	1004	446	251	161	112	82	63	50	40
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	33	28	24	20	18	16	14	12	11	10
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	373	93	41	23	15	10	8	6	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	3	2	2	2	1	1	1	1	1

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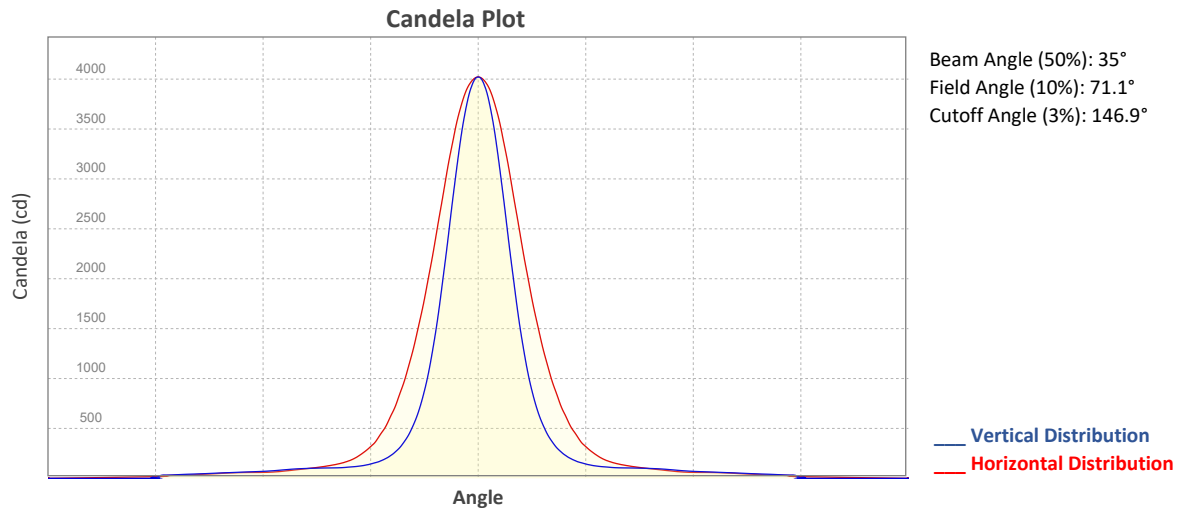
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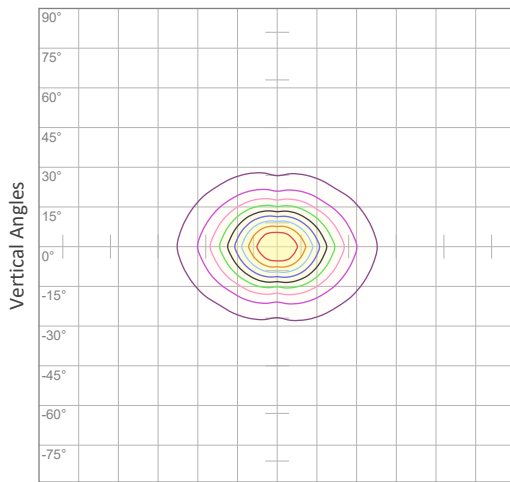
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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 8000K



ISO Diagrams



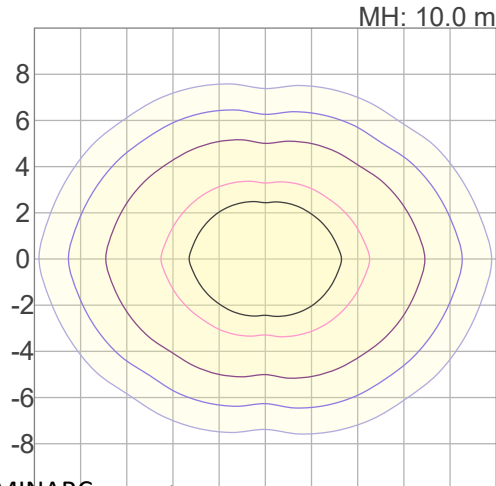
ISO Candela Diagram

10%	402 cd
20%	803 cd
30%	1205 cd
40%	1607 cd
50%	2008 cd
60%	2410 cd
70%	2811 cd
80%	3213 cd
90%	3615 cd

Conditions:

Number of c-planes: 8
 Candela at center: 4016 cd

Horizontal Angles



ISO Lux Diagram

3%	1.20 lx
5%	2.01 lx
10%	4.02 lx
30%	12.0 lx
50%	20.1 lx

Conditions:

Number of c-planes: 8
 Candela at center: 40.2 lx

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

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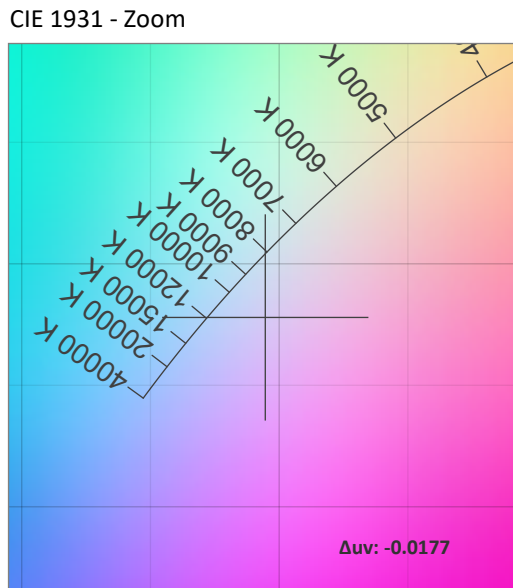
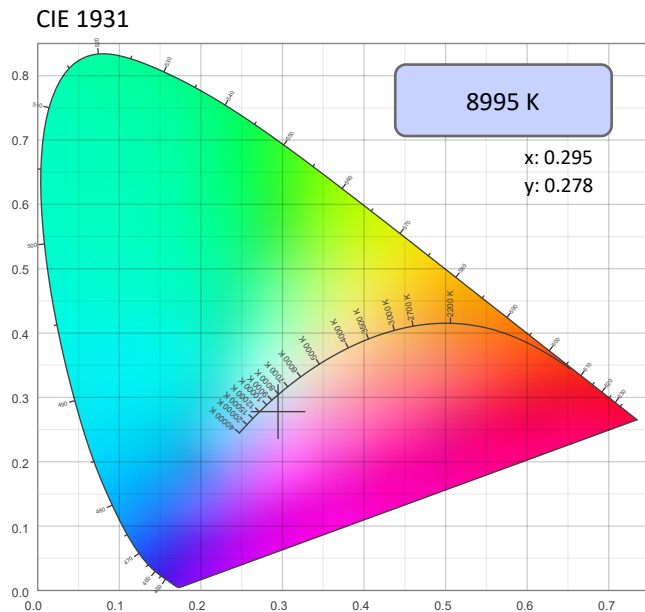
Mounting height: 10 meters / 33 feet

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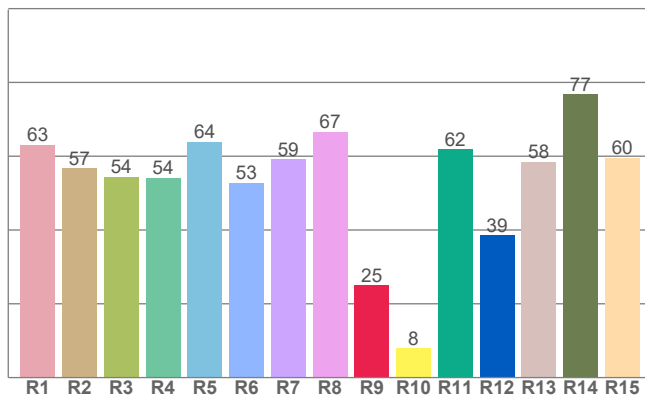
Photometric & Chromaticity Report

Logic GZL: Standard Optics - 8000K

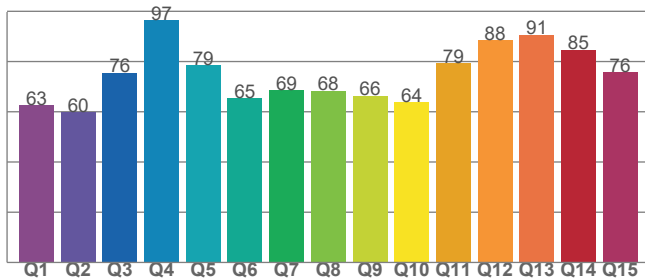
Chromaticity



CRI: 58.8 (R1-R8)



CQS: 72.7



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
8995 K	0.295	0.278

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0177	0.278	0.205

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
58.8	25.0	72.7

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
65	63.0	84.6

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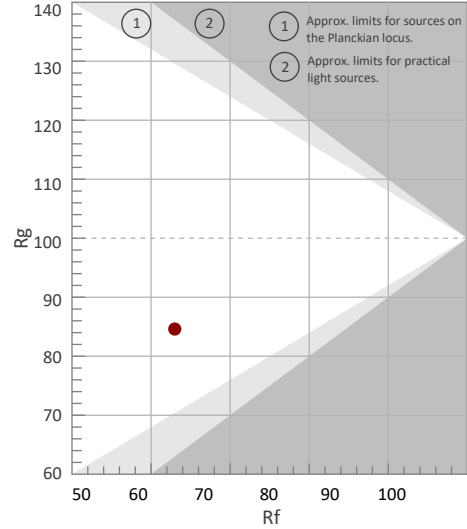
Logic GZL: Standard Optics - 8000K

TM-30 Details

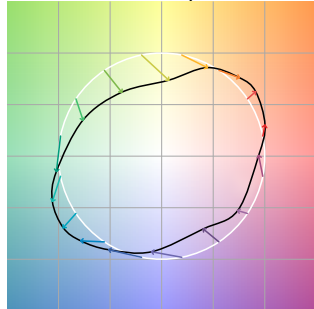
Rf 63.0
Fidelity Index (Rg)

Rg 84.6
Gammut Index (Rg)

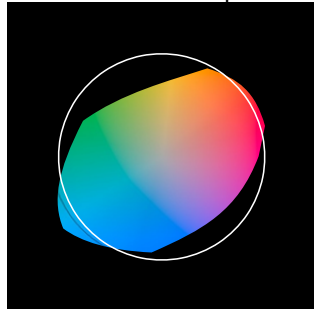
Hue Bin	Graphic shifts (%)		
	R _f	Chroma	Hue
1	75	4%	10%
2	74	11%	1%
3	65	5%	-20%
4	61	-7%	-27%
5	45	-29%	-21%
6	59	-27%	-2%
7	67	-17%	13%
8	53	-3%	34%
9	69	13%	22%
10	76	18%	5%
11	55	12%	-20%
12	58	-1%	-33%
13	63	-11%	-28%
14	65	-19%	-6%
15	84	-9%	-3%
16	61	-8%	19%



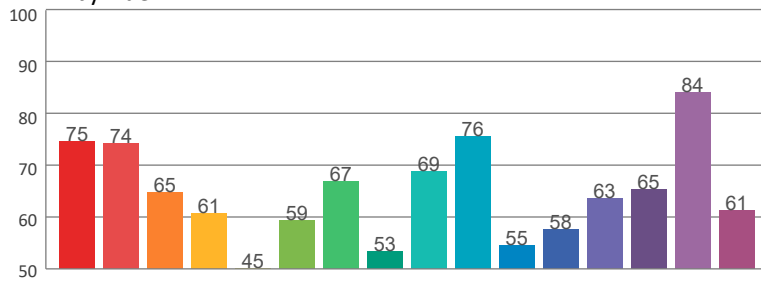
Color Vector Graphic



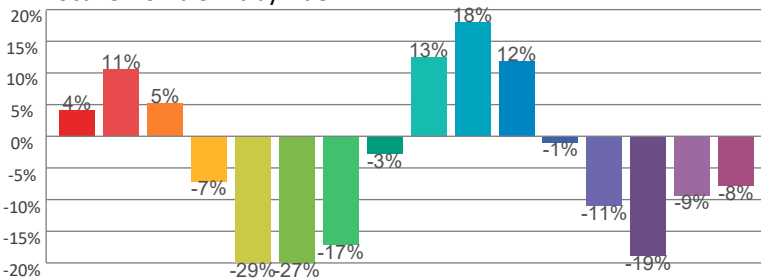
Color Distortion Graphic



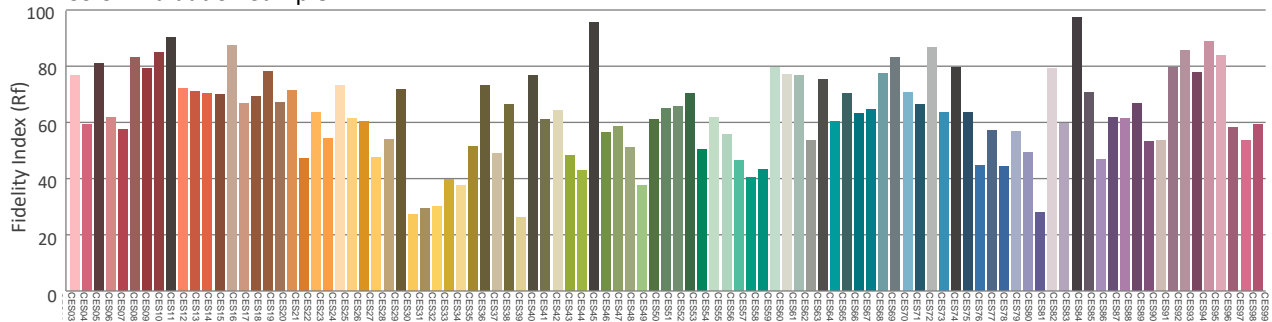
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 10000K

Report Summary

Measurements

Fixture Output: 2421 lm
Fixture Peak: 3737 cd
Fixture Efficacy: 49 lm/W
Intensity @ 5m: 149 lux
Color Temperature: 12562 K
CRI: 49.7 CRI R9 Value: -5.0
CQS: 66.8
TLCI: 57
TM-30 Rf: 56.6
TM-30 Rg: 80.9
Beam Angle (50%): 35.1°
Field Angle (10%): 71.1°
Cutoff Angle (2%): 145.2°

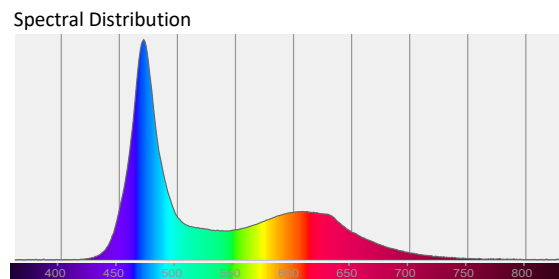
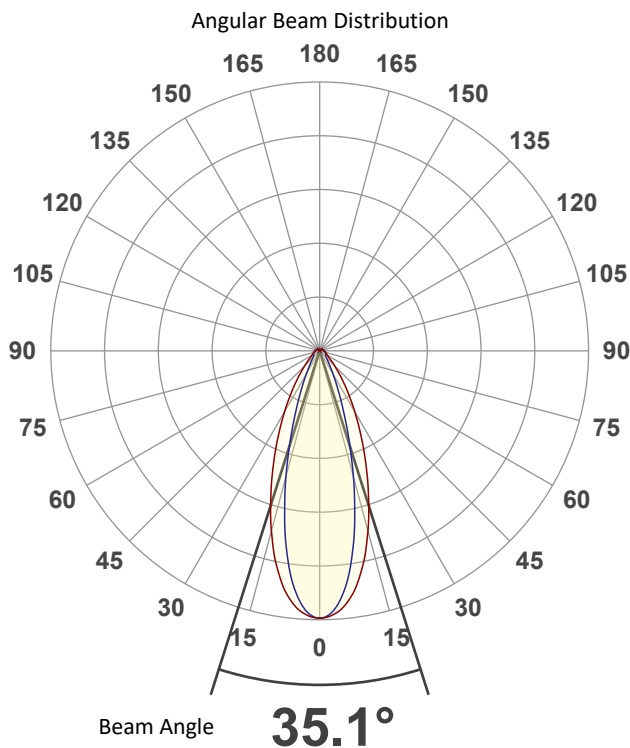
Conditions

AC Supply: 118 V, 60 Hz
Power: 51.72 W
Current: 0.439 A
Power Factor: 0.95



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

Overall Measurement



Tested Color (CIE 1931):

X: 0.282

Y: 0.258



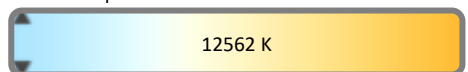
Light Quality

CRI: 49.7



Color Temperature

12562 K



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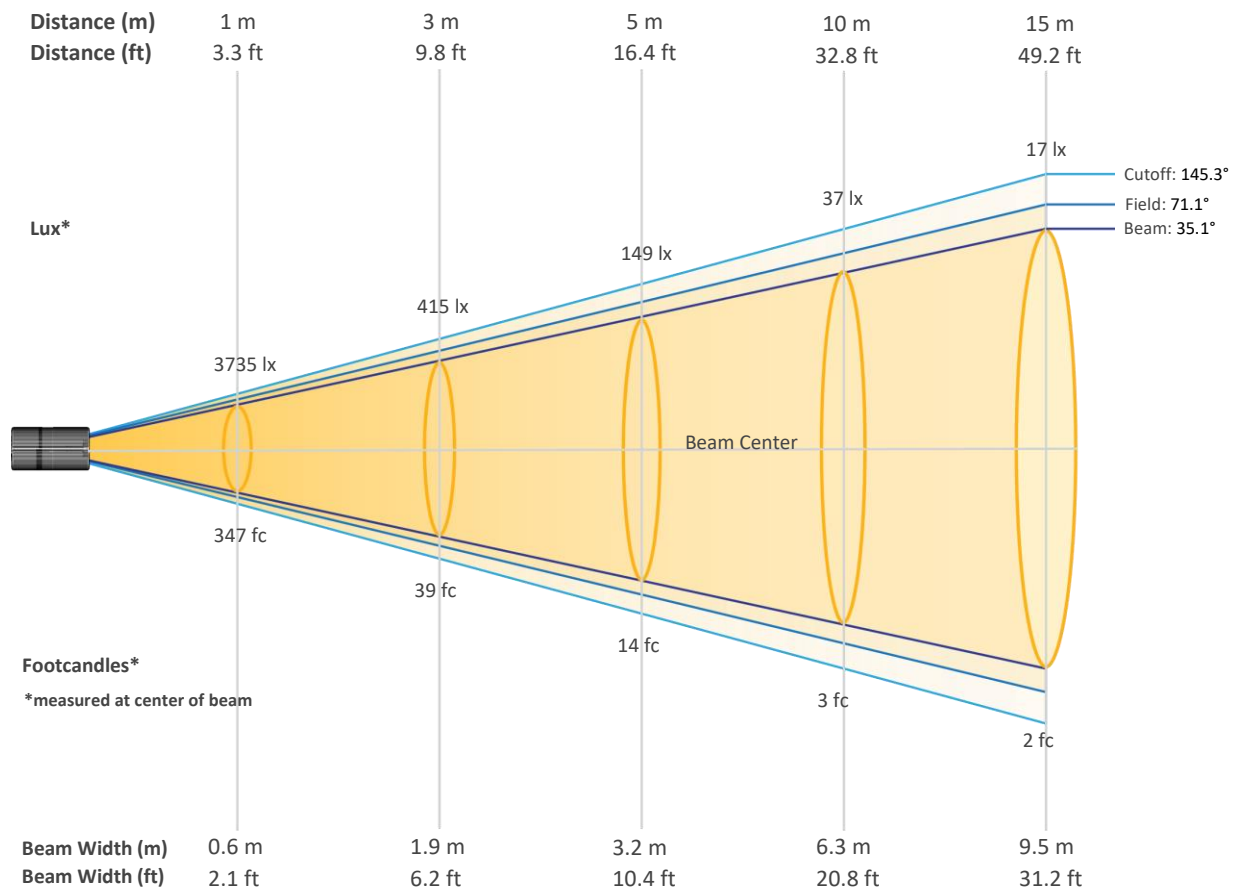
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Photometric & Chromaticity Report

Logic GZL: 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	3735	934	415	233	149	104	76	58	46	37
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	31	26	22	19	17	15	13	12	10	9
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	347	87	39	22	14	10	7	5	4	3
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	2	2	2	2	1	1	1	1	1

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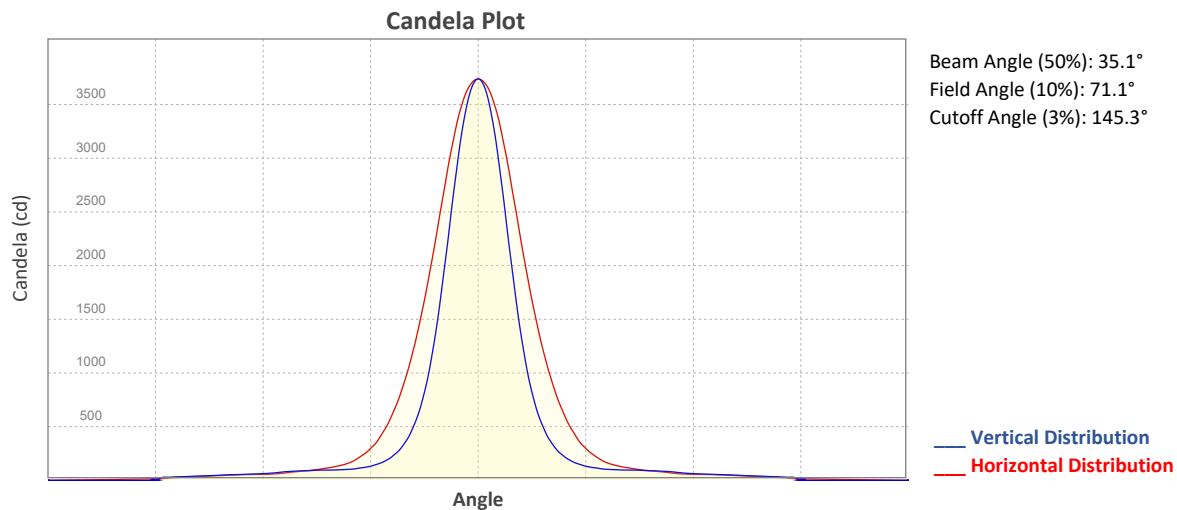
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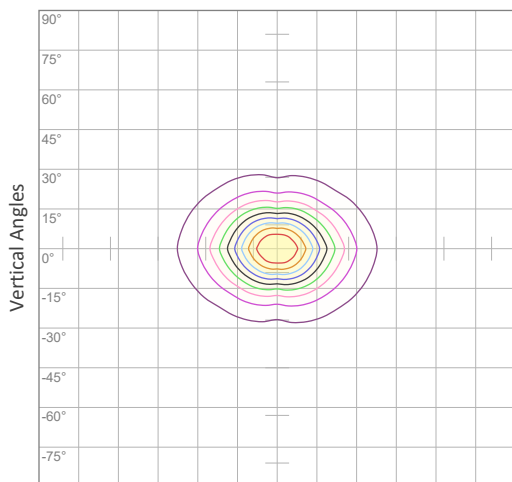
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Photometric & Chromaticity Report

Logic GZL: Standard Optics - 10000K



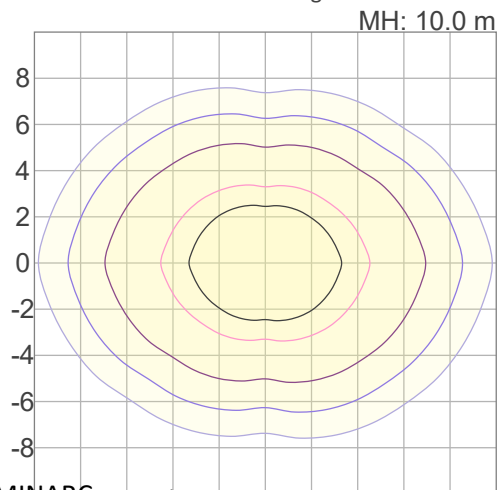
ISO Diagrams



ISO Candela Diagram

10%	373 cd
20%	747 cd
30%	1120 cd
40%	1494 cd
50%	1867 cd
60%	2241 cd
70%	2614 cd
80%	2988 cd
90%	3361 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 3735 cd



ISO Lux Diagram

3%	1.12 lx
5%	1.87 lx
10%	3.73 lx
30%	11.2 lx
50%	18.7 lx

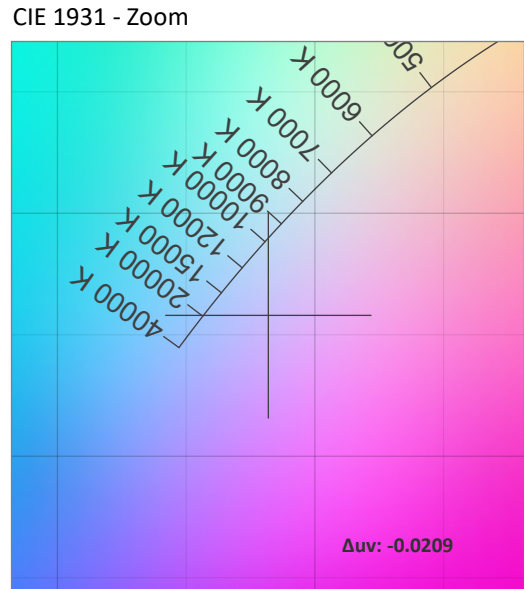
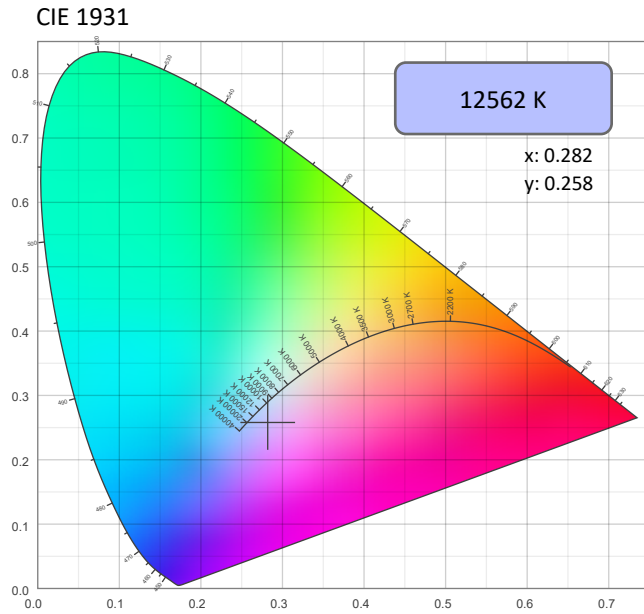
Conditions:
 Number of c-planes: 8
 Candela at center: 37.3 lx

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

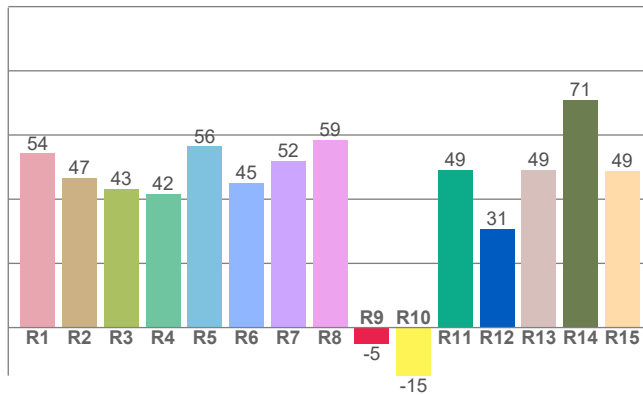
Photometric & Chromaticity Report

Logic GZL: Standard Optics - 10000K

Chromaticity



CRI: 49.7 (R1-R8)

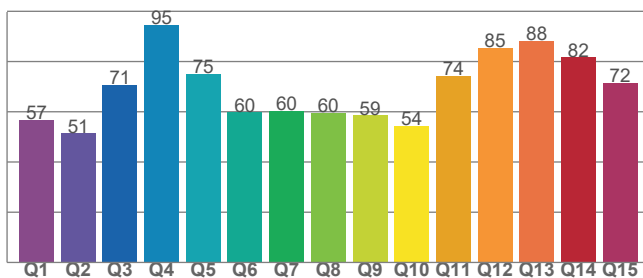


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
12562 K	0.282	0.258

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0209	0.258	0.204

CQS: 66.8



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
49.7	-5.0	66.8

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
57	56.6	80.9

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Photometric & Chromaticity Report

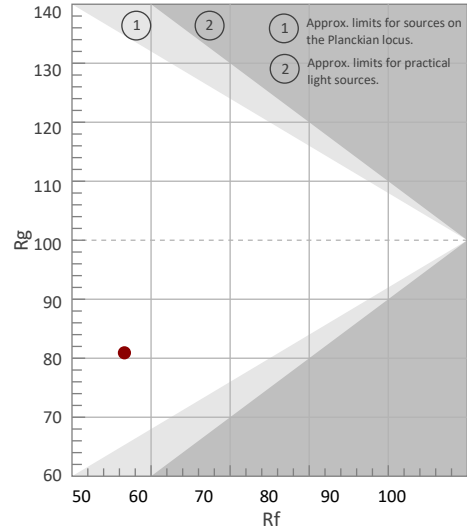
Logic GZL: Standard Optics - 10000K

TM-30 Details

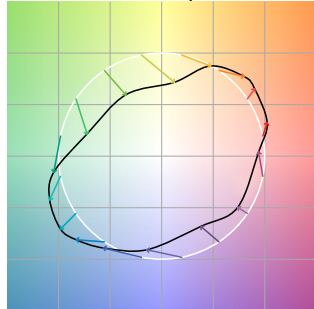
Rf 56.6
Fidelity Index (Rg)

Rg 80.9
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	69	7%	12%
2	69	11%	4%
3	61	9%	-24%
4	51	-5%	-30%
5	39	-32%	-26%
6	52	-31%	-4%
7	58	-28%	22%
8	50	0%	36%
9	65	15%	20%
10	72	21%	4%
11	46	13%	-24%
12	55	-2%	-38%
13	53	-14%	-32%
14	61	-22%	-6%
15	82	-11%	0%
16	54	-9%	22%



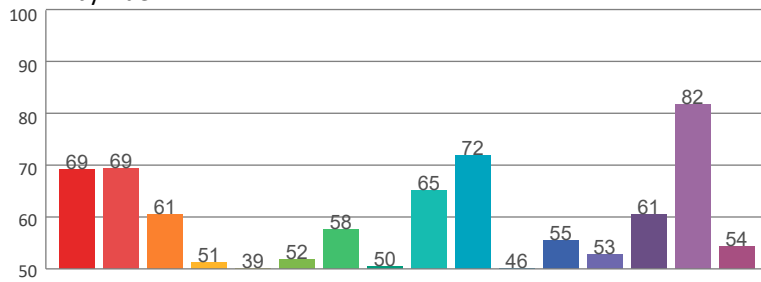
Color Vector Graphic



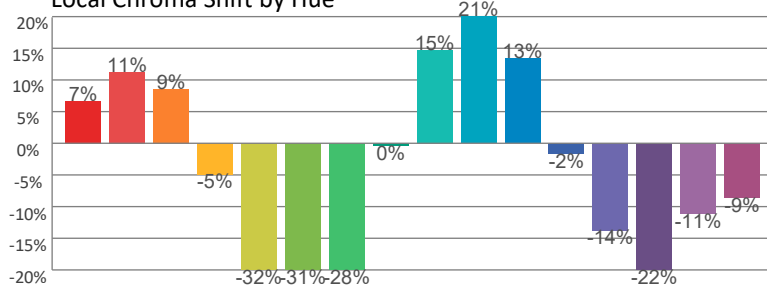
Color Distortion Graphic



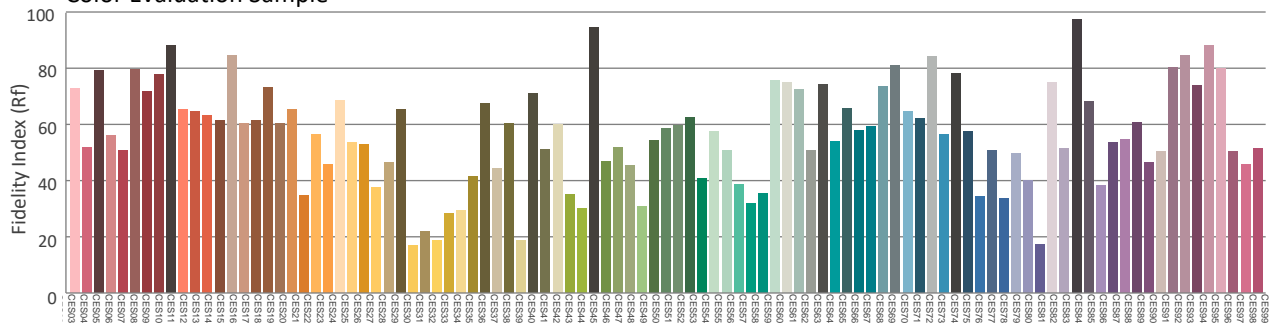
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - RGBW - Full Power

Report Summary

Measurements

Fixture Output: 2059 lm
Fixture Peak: 1098 cd
Fixture Efficacy: 41 lm/W
Intensity @ 5m: 44 lux
Color Temperature: 5646 K
CRI: 69.0 CRI R9 Value: 24.3
CQS: 81.3
TLCI: 79
TM-30 Rf: 72.8
TM-30 Rg: 93.0
Beam Angle (50%): 49.2°
Field Angle (10%): 166.3°
Cutoff Angle (2%): 256.9°

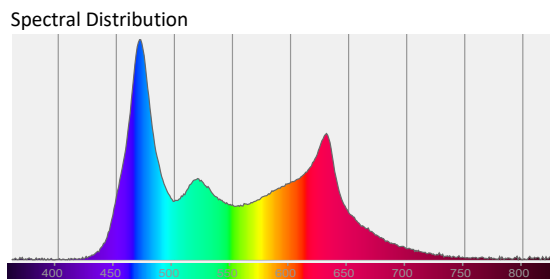
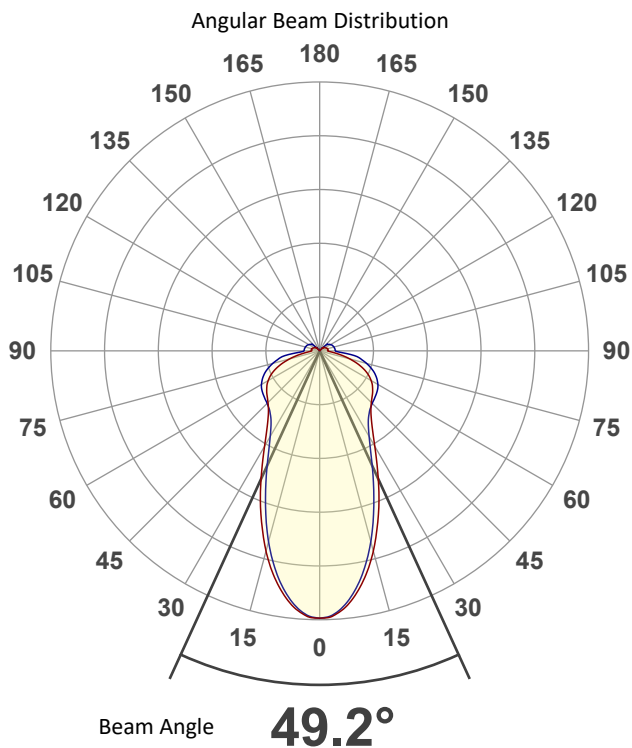
Conditions

AC Supply: 119 V, 60 Hz
Power: 52.25 W
Current: 0.438 A
Power Factor: 0.95



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

Overall Measurement



Tested Color (CIE 1931):

X: 0.330

Y: 0.318



Light Quality

CRI: 69.0

Color Temperature

5646 K

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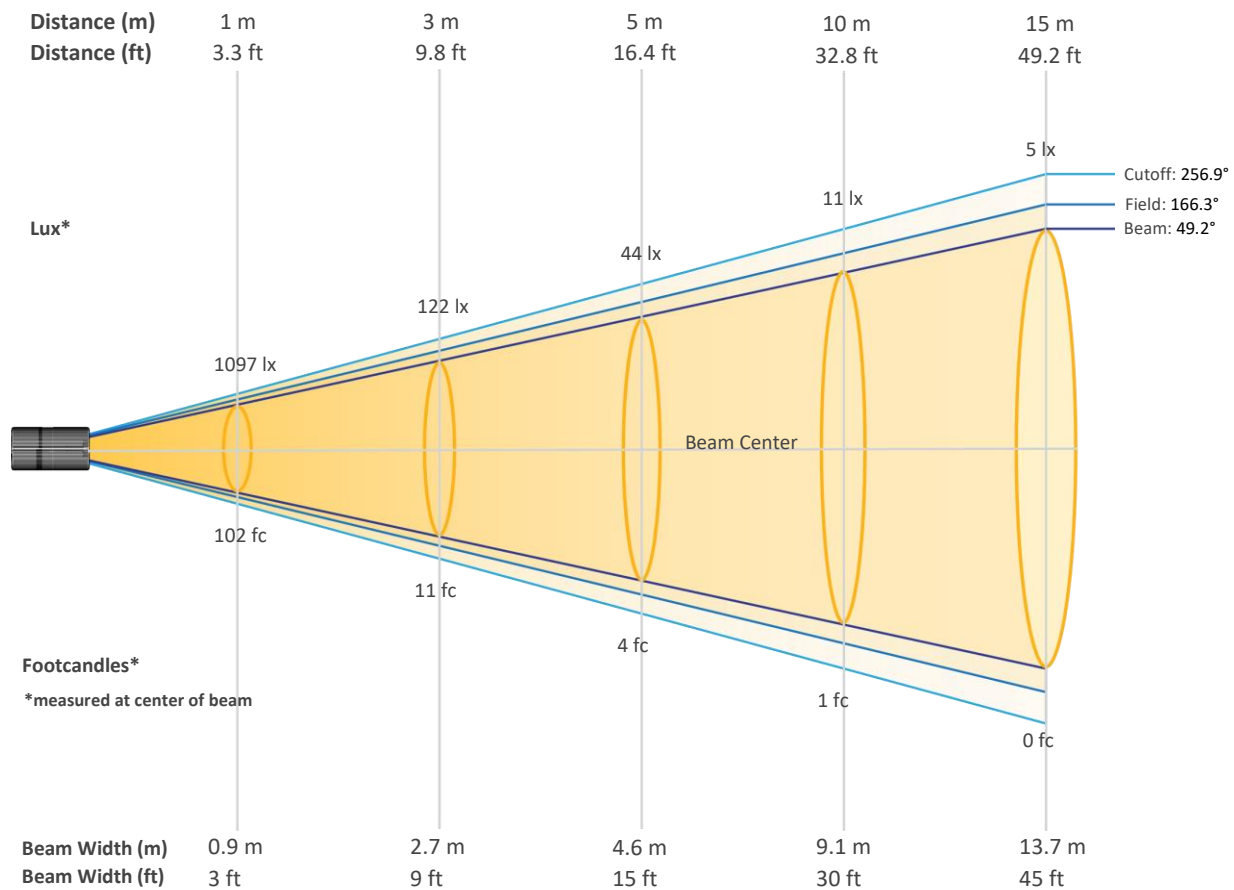
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Photometric & Chromaticity Report

Logic GZL: 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	1097	274	122	69	44	30	22	17	14	11
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	9	8	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	102	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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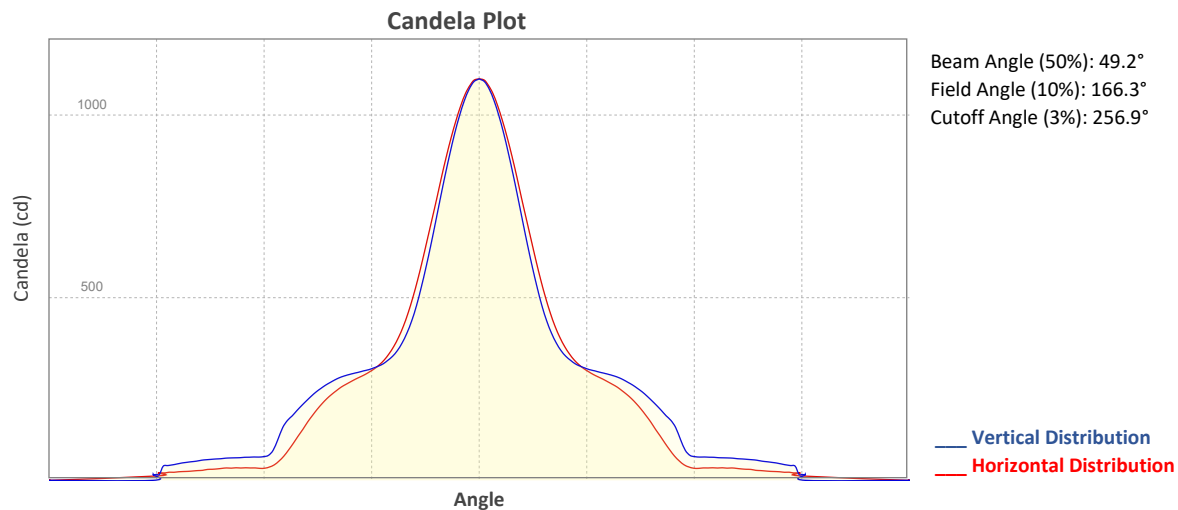
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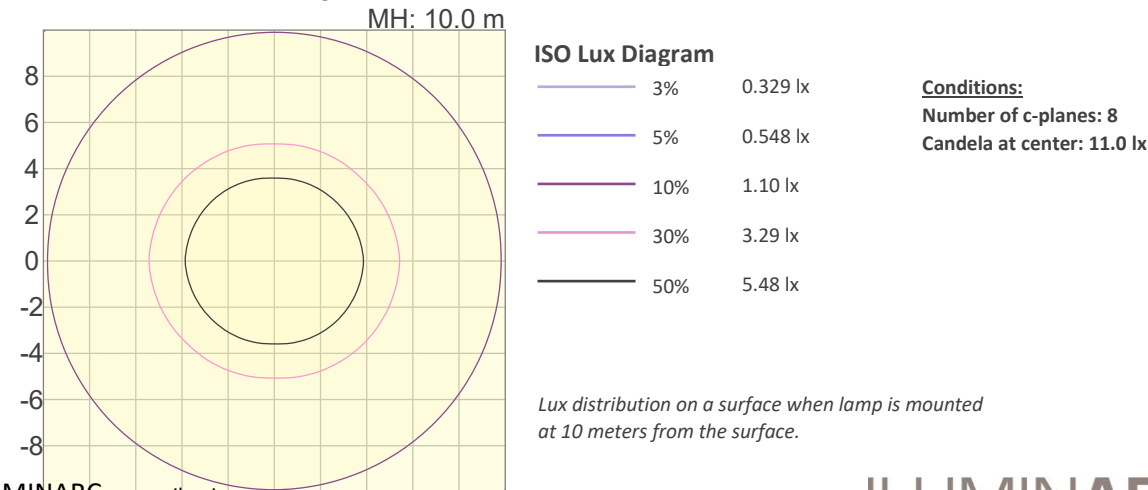
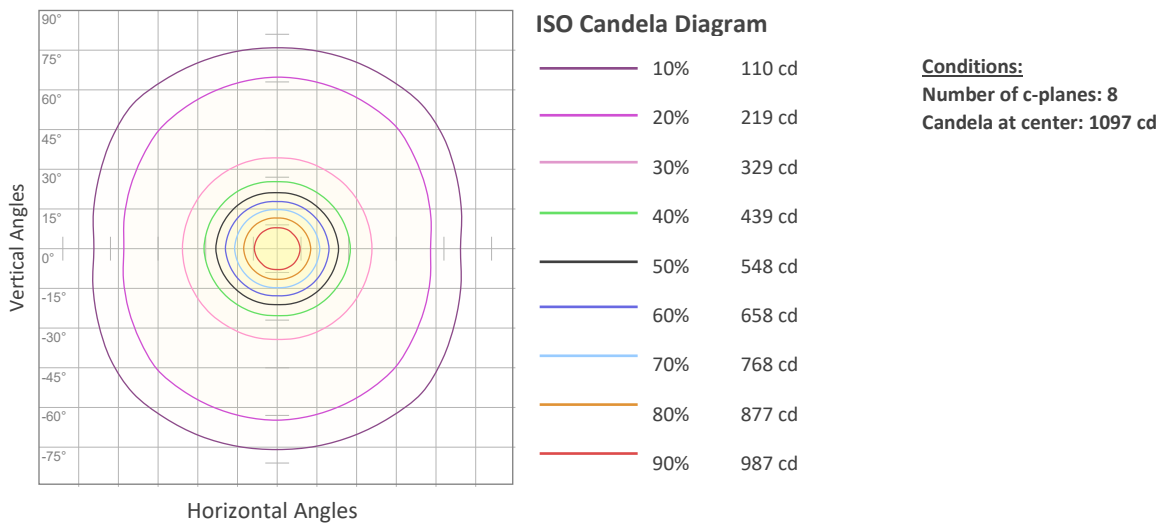
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Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - RGBW - Full Power



ISO Diagrams

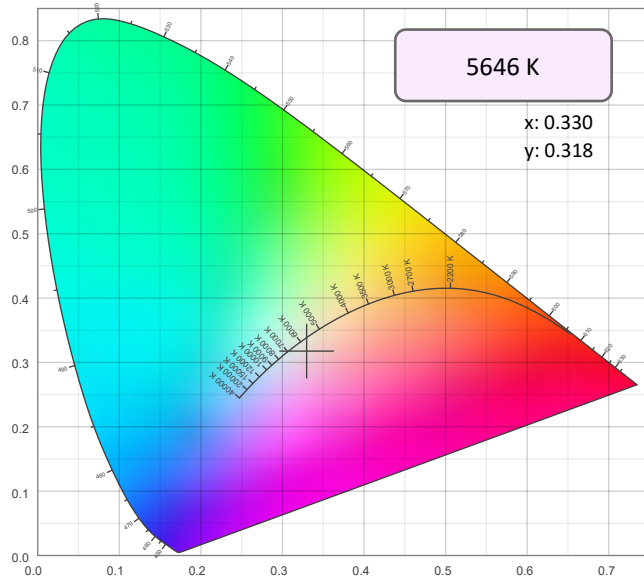


Photometric & Chromaticity Report

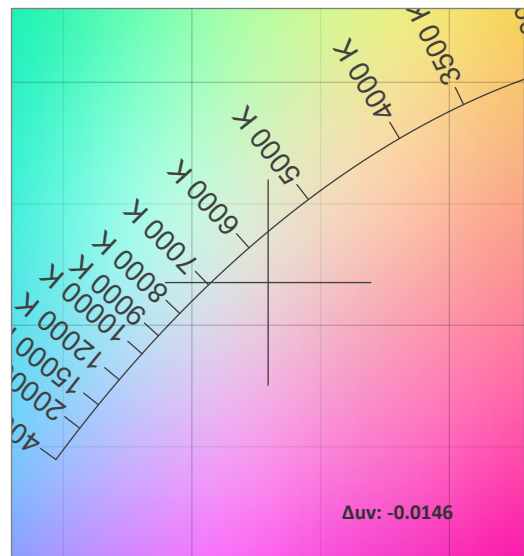
Logic GZL: Very Wide Filter - RGBW - Full Power

Chromaticity

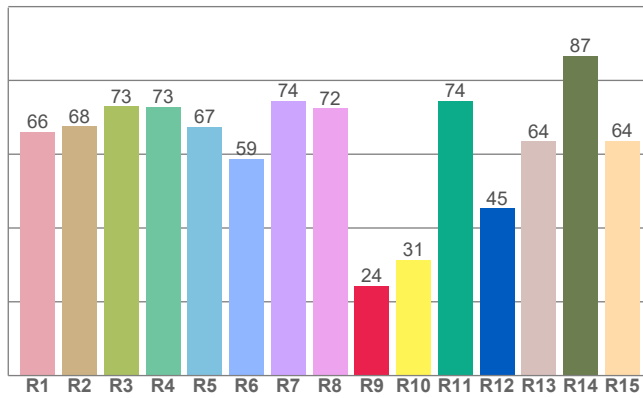
CIE 1931



CIE 1931 - Zoom



CRI: 69.0 (R1-R8)

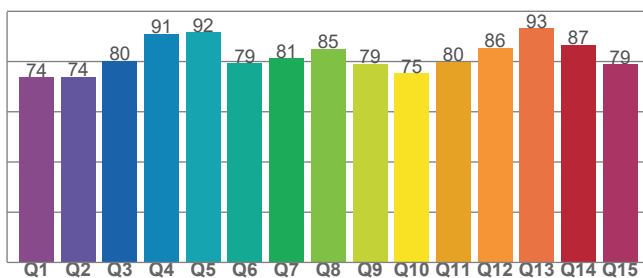


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5646 K	0.330	0.318

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0146	0.318	0.214

CQS: 81.3



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
69.0	24.3	81.3

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
79	72.8	93.0

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Photometric & Chromaticity Report

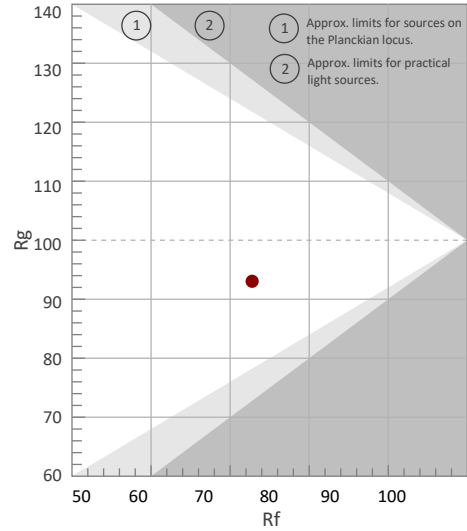
Logic GZL: Very Wide Filter - RGBW - Full Power

TM-30 Details

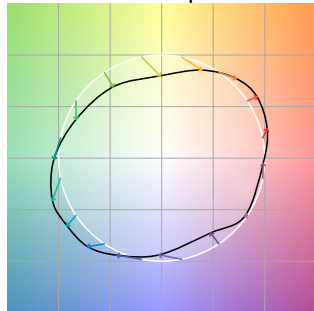
Rf 72.8
Fidelity Index (Rg)

Rg 93.0
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	78	6%	8%
2	82	10%	-2%
3	70	4%	-17%
4	63	-9%	-21%
5	61	-21%	-14%
6	77	-16%	1%
7	73	-10%	15%
8	64	2%	21%
9	75	12%	4%
10	79	13%	-12%
11	72	11%	-24%
12	66	1%	-21%
13	74	-8%	-1%
14	77	-13%	-2%
15	81	-2%	14%
16	76	-2%	14%



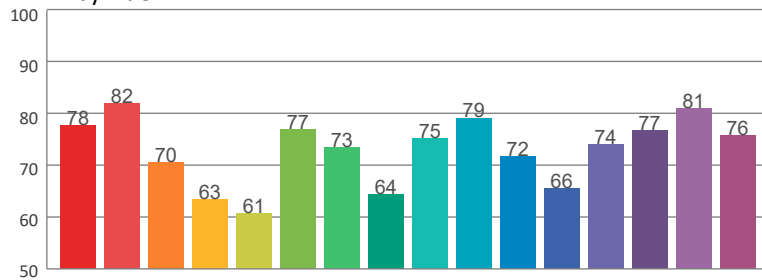
Color Vector Graphic



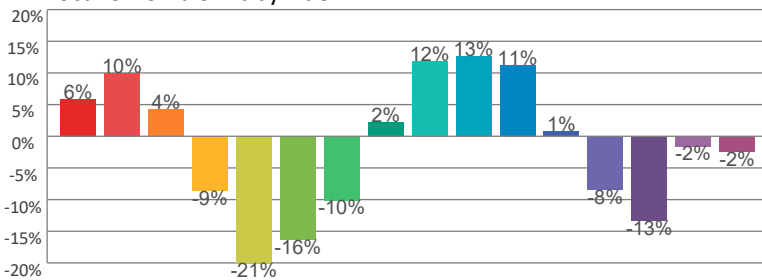
Color Distortion Graphic



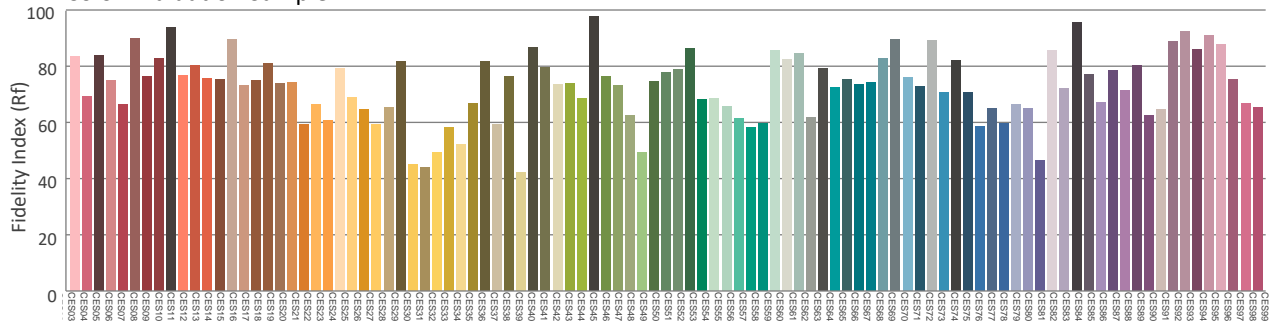
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Red Only

Report Summary

Measurements

Fixture Output: 528 lm

Fixture Peak: 286 cd

Fixture Efficacy: 17 lm/W

Intensity @ 5m: 11 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%): 47.9°

Field Angle (10%): 166.2°

Cutoff Angle (3%): 256.8°

Conditions

AC Supply: 119 V, 60 Hz

Power: 33.18 W

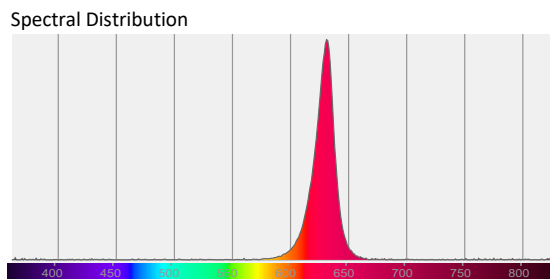
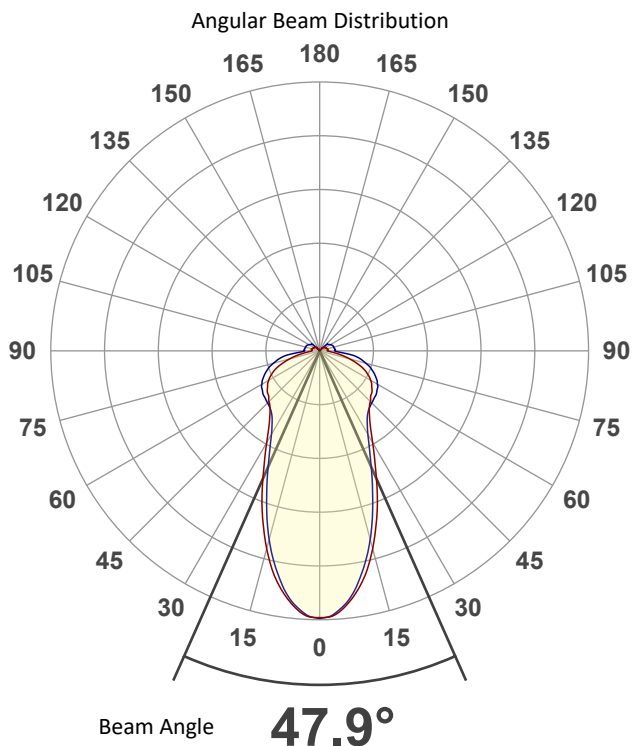
Current: 0.279 A

Power Factor: 0.94



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

Overall Measurement



Tested Color (CIE 1931):

X: 0.695

Y: 0.306



Light Quality

CRI: 0.0

Color Temperature

0 K

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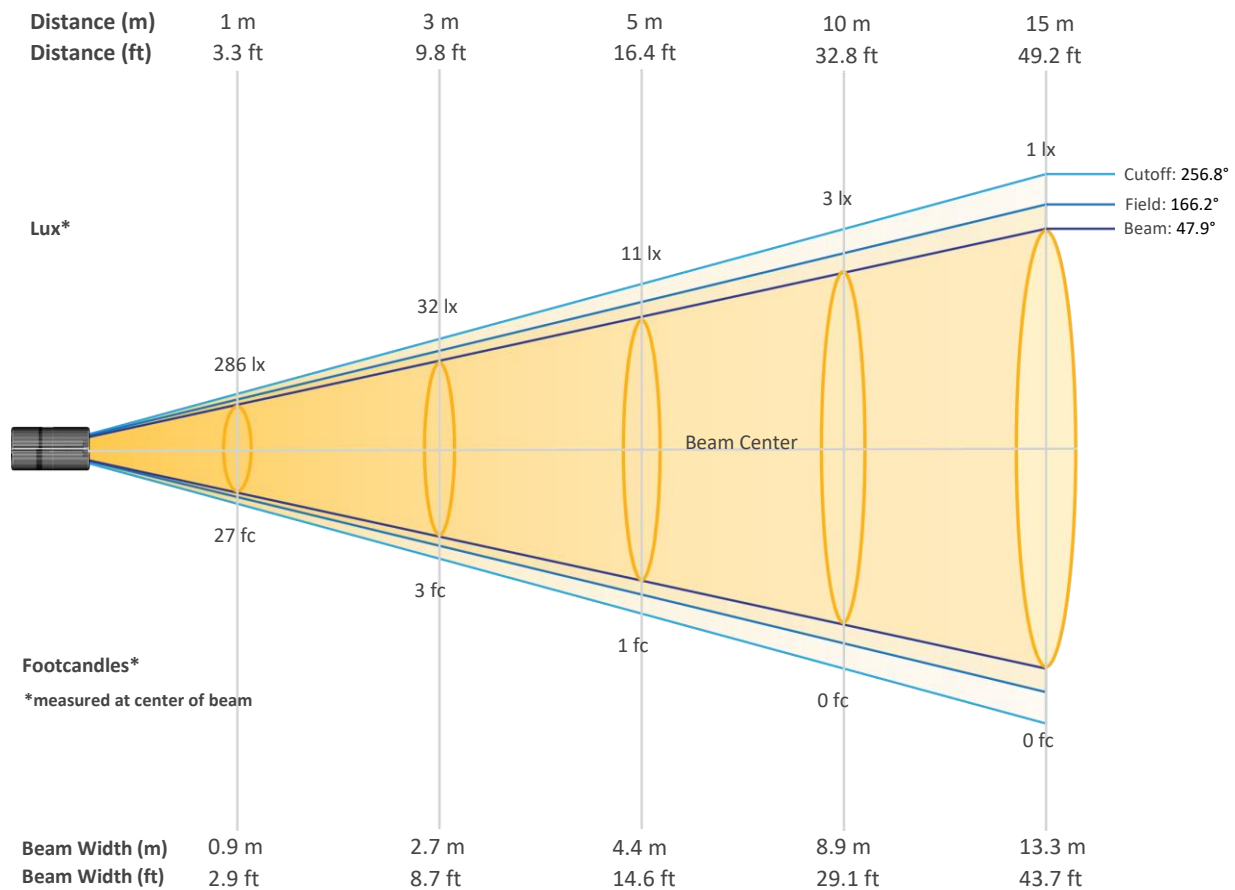
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Photometric & Chromaticity Report

Logic GZL: 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	286	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	27	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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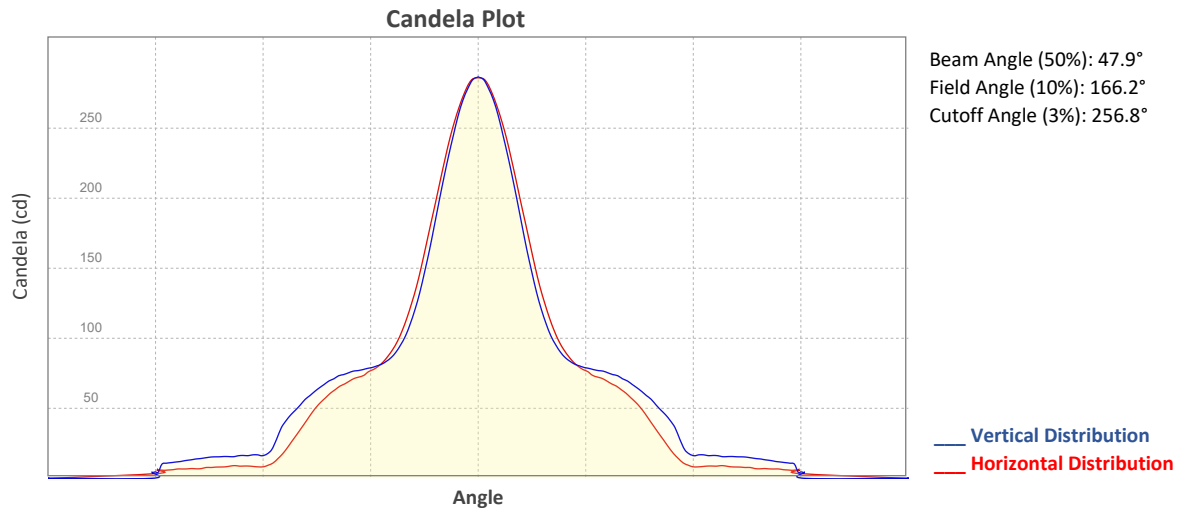
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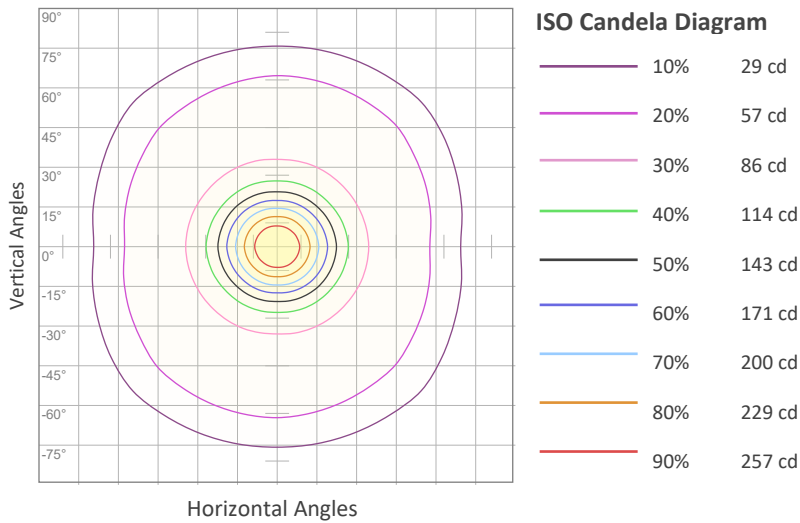
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Photometric & Chromaticity Report

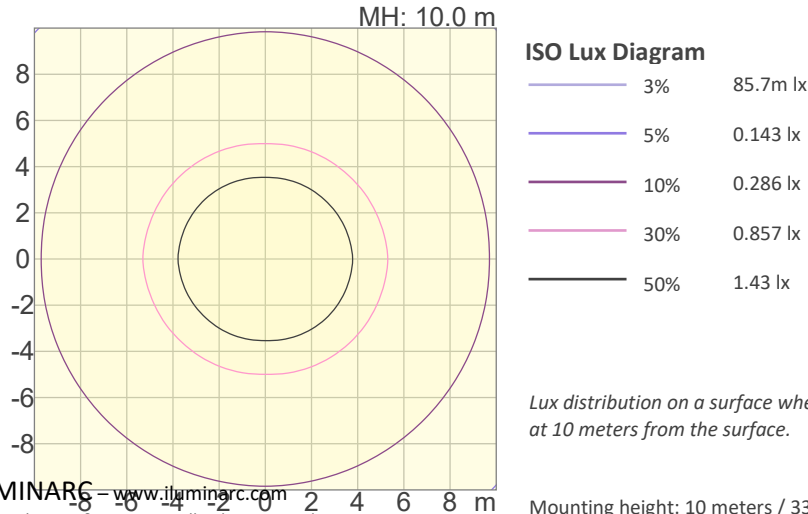
Logic GZL: Very Wide Filter - Red Only



ISO Diagrams



Conditions:
 Number of c-planes: 8
 Candela at center: 286 cd



Conditions:
 Number of c-planes: 8
 Candela at center: 2.86 lx

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

Photometric & Chromaticity Report

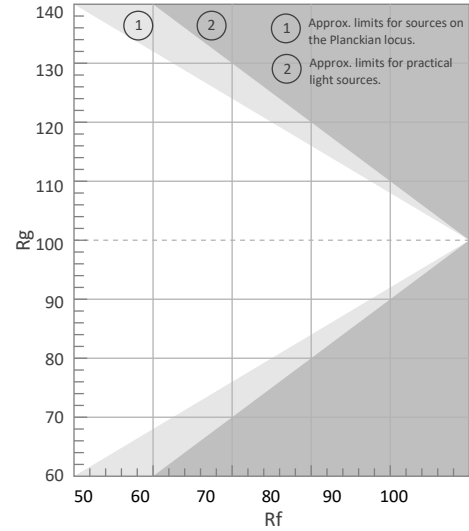
Logic GZL: Very Wide Filter - Red Only

TM-30 Details

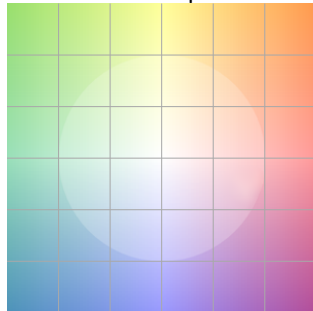
Rf 0.0
Fidelity Index (Rg)

Rg 0.0
Gammut Index (Rg)

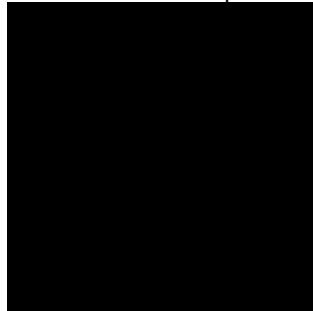
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



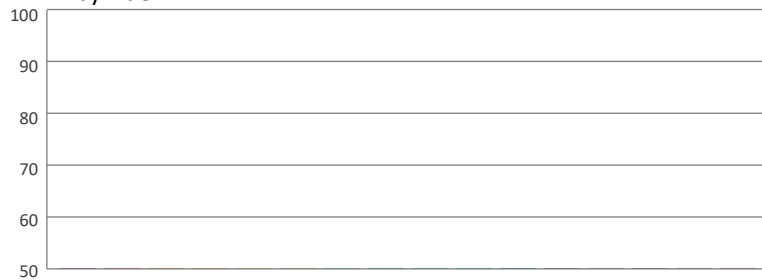
Color Vector Graphic



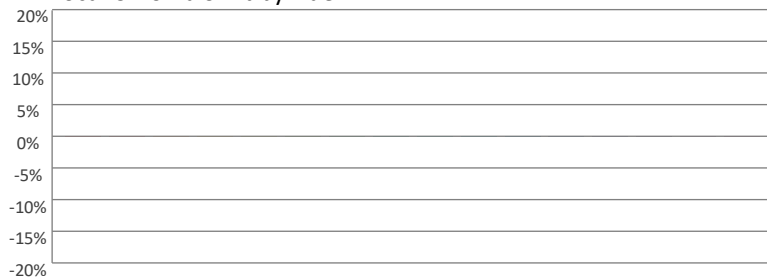
Color Distortion Graphic



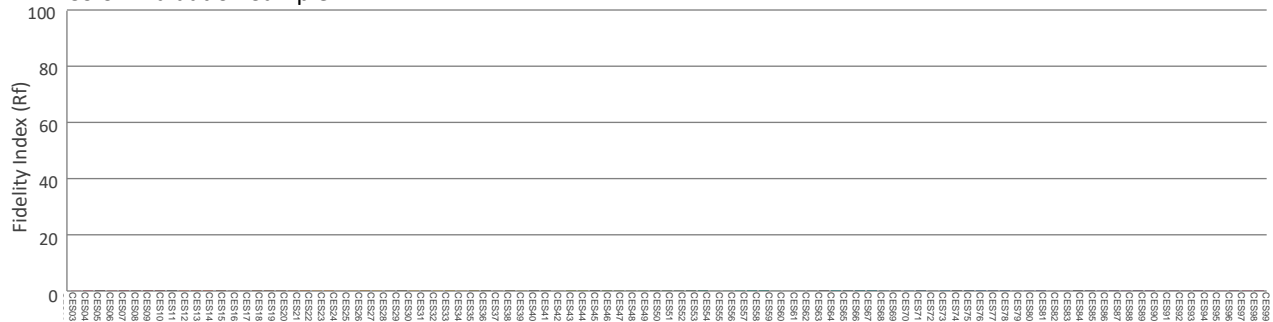
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Green Only

Report Summary

Measurements

Fixture Output: 1075 lm

Fixture Peak: 578 cd

Fixture Efficacy: 33 lm/W

Intensity @ 5m: 23 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%): 48.6°

Field Angle (10%): 166.1°

Cutoff Angle (3%): 257.2°

Conditions

AC Supply: 119 V, 60 Hz

Power: 34.25 W

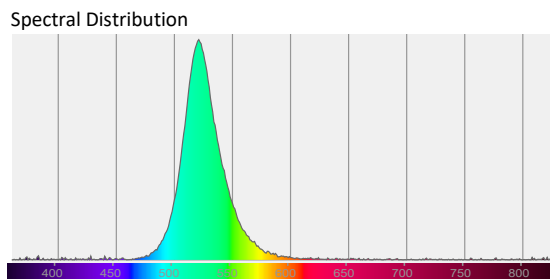
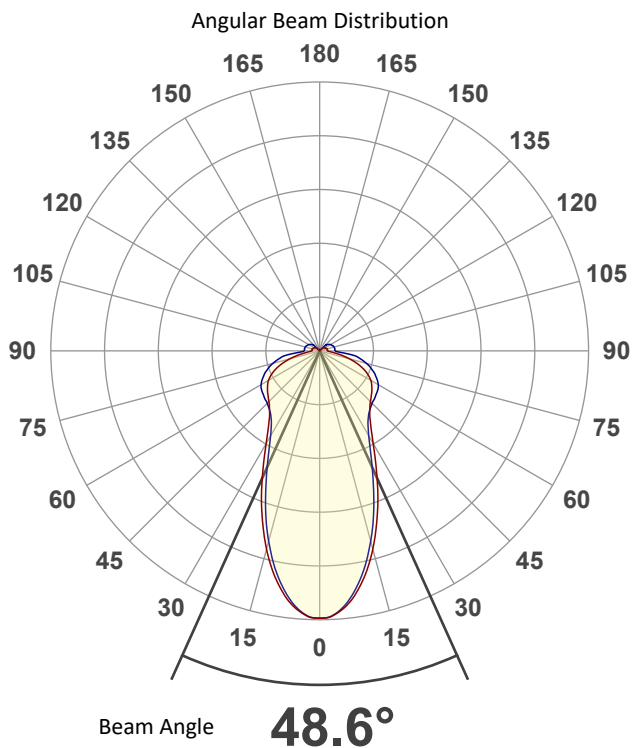
Current: 0.289 A

Power Factor: 0.94



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

Overall Measurement



Tested Color (CIE 1931):

X: 0.173

Y: 0.724



Light Quality

CRI: 0.0

Color Temperature

0 K

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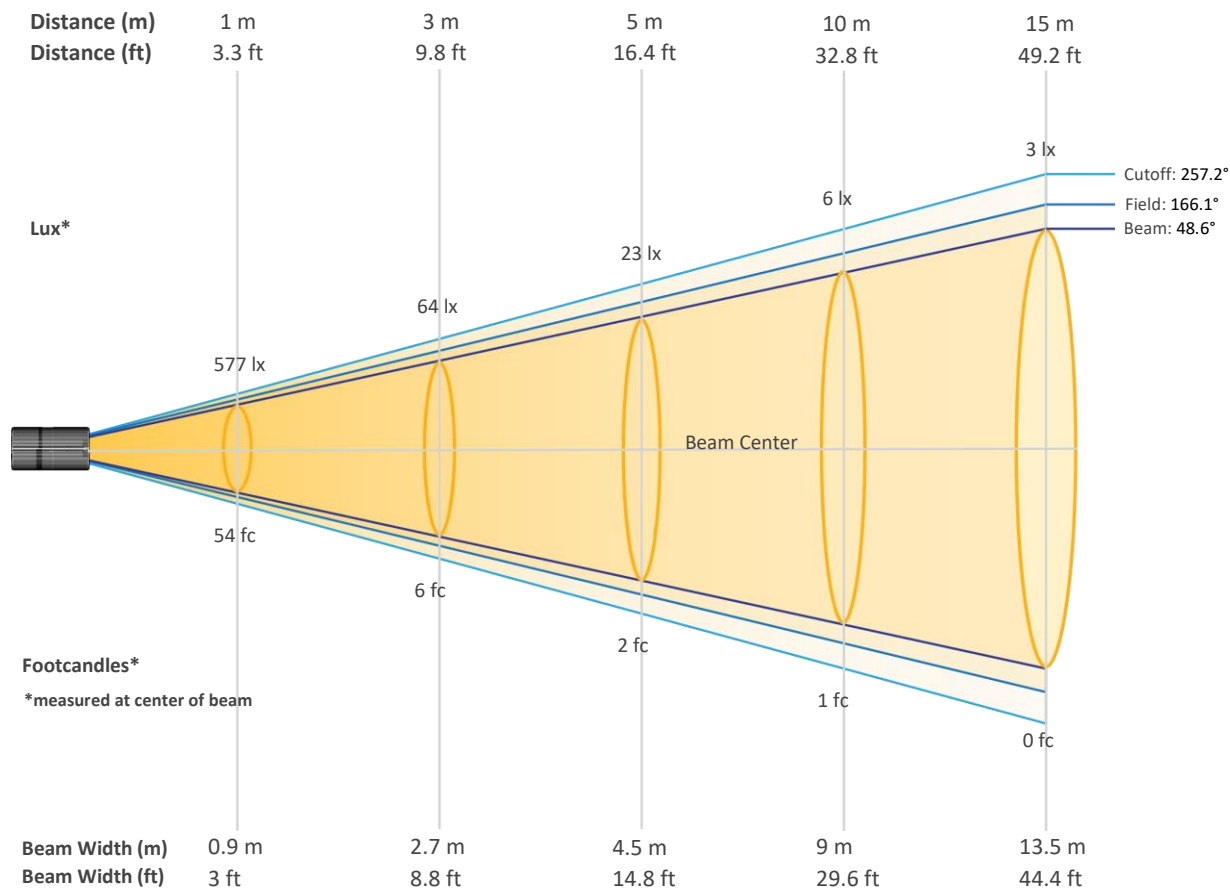
All product specifications, measurements and dimensions are subject to change without notice

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Photometric & Chromaticity Report

Logic GZL: 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	577	144	64	36	23	16	12	9	7	6
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	5	4	3	3	3	2	2	2	2	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	54	13	6	3	2	1	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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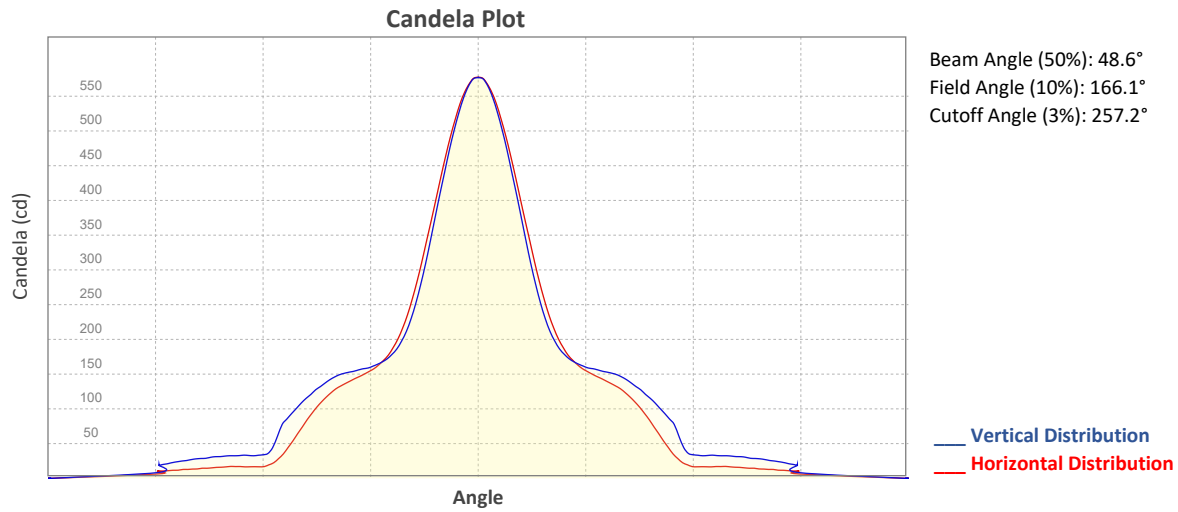
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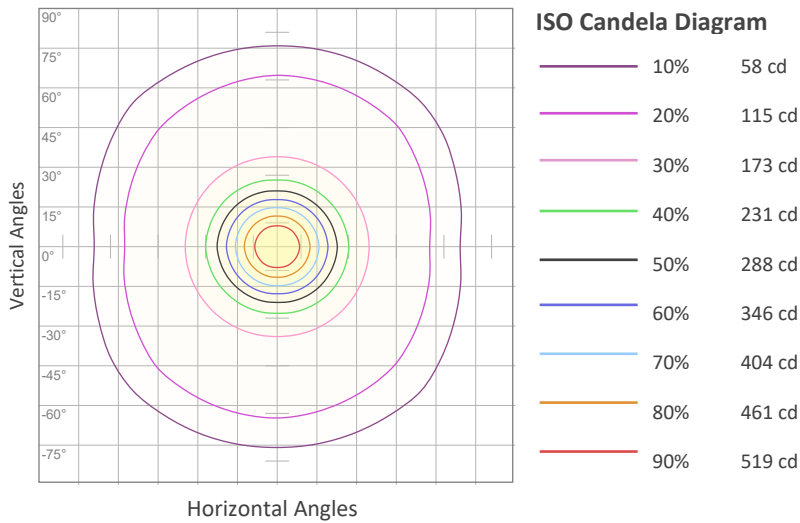
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Photometric & Chromaticity Report

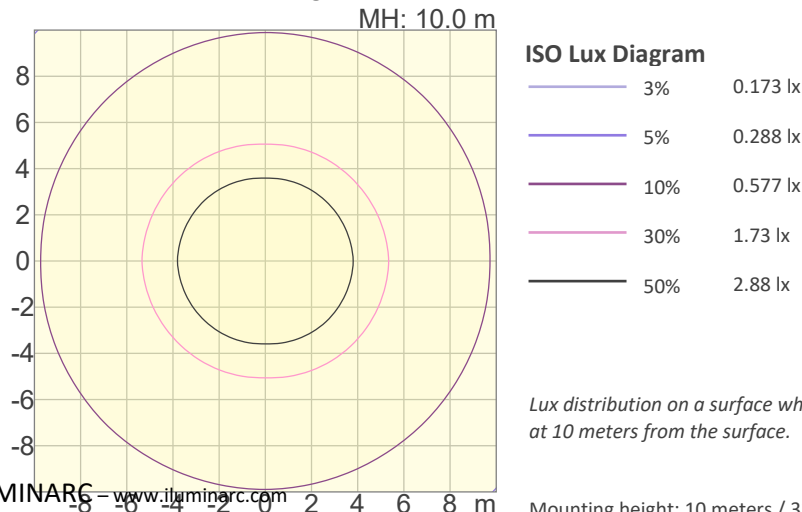
Logic GZL: Very Wide Filter - Green Only



ISO Diagrams



Conditions:
 Number of c-planes: 8
 Candela at center: 577 cd



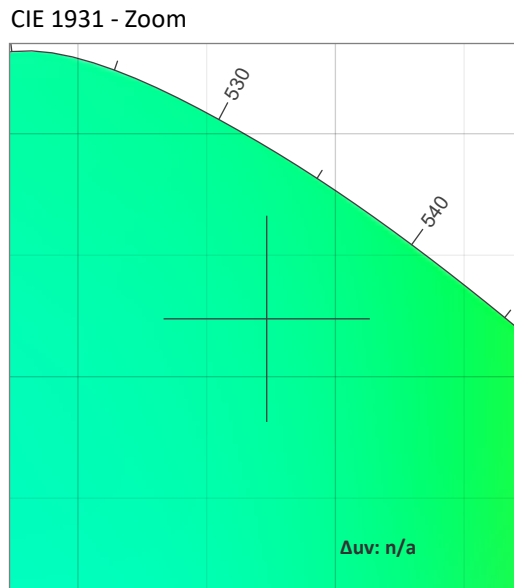
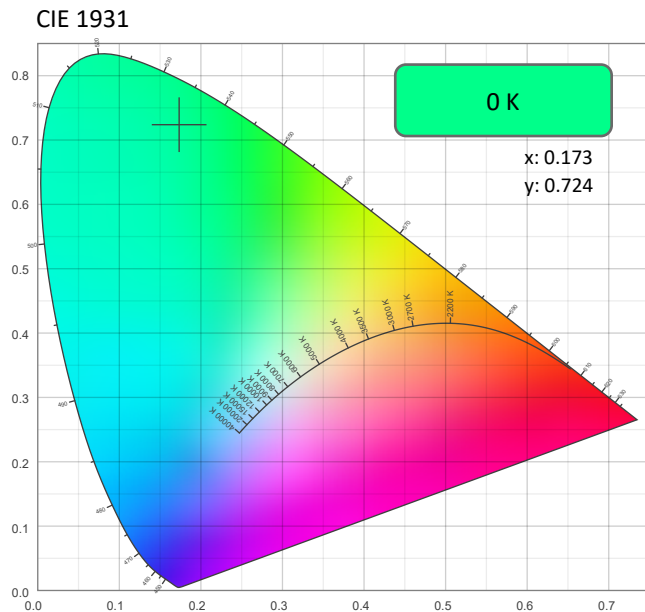
Conditions:
 Number of c-planes: 8
 Candela at center: 5.77 lx

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

Photometric & Chromaticity Report

Logic GZL: 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	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	0.173	0.724

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

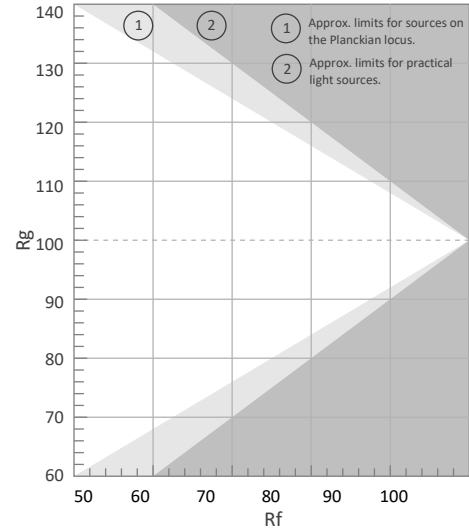
Logic GZL: Very Wide Filter - Green Only

TM-30 Details

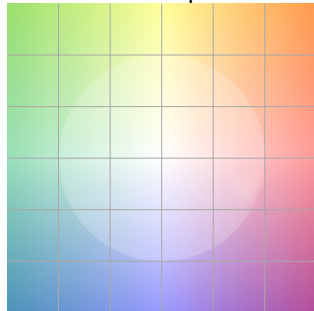
Rf 0.0
Fidelity Index
(Rg)

Rg 0.0
Gammut Index (Rg)

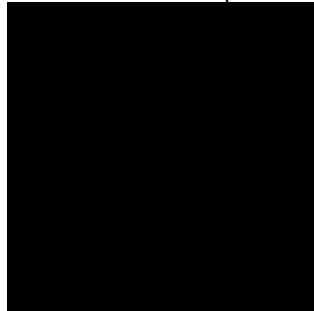
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



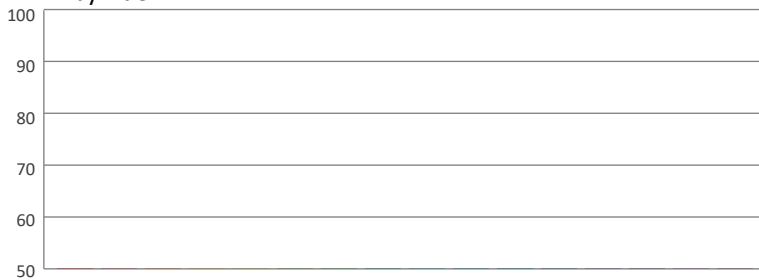
Color Vector Graphic



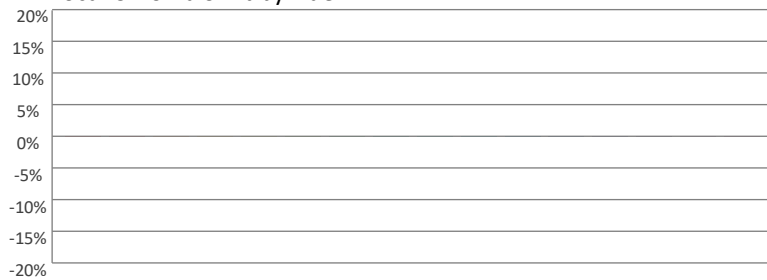
Color Distortion Graphic



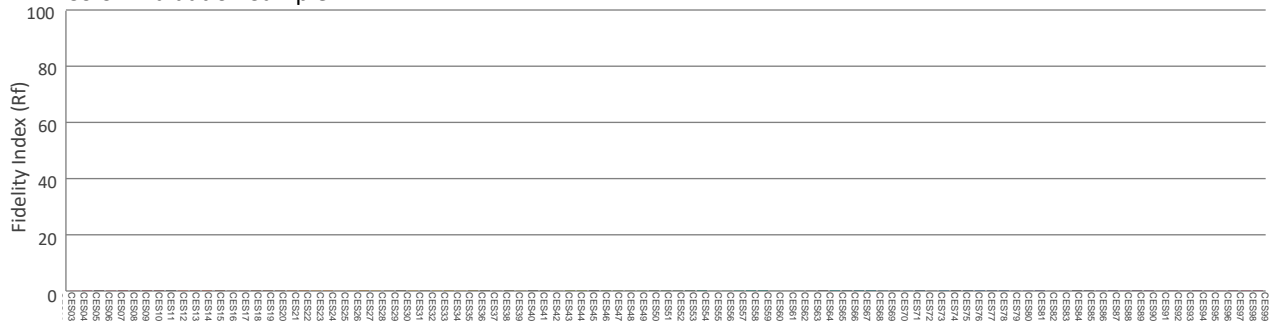
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Blue Only

Report Summary

Measurements

Fixture Output: 407 lm

Fixture Peak: 208 cd

Fixture Efficacy: 12 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%): 50.3°

Field Angle (10%): 167.8°

Cutoff Angle (2%): 263.9°

Conditions

AC Supply: 119 V, 60 Hz

Power: 35.35 W

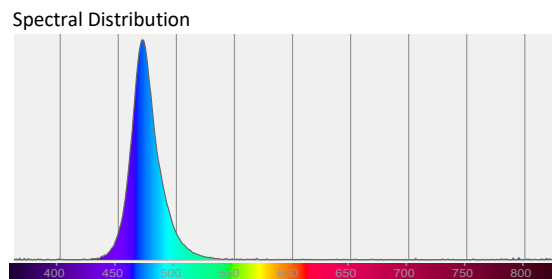
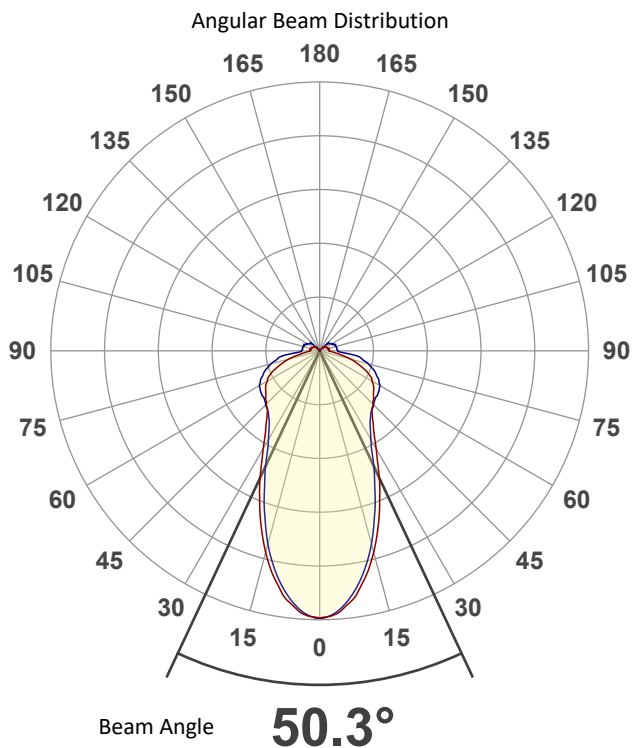
Current: 0.296 A

Power Factor: 0.94



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

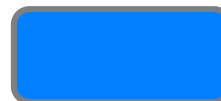
Overall Measurement



Tested Color (CIE 1931):

X: 0.121

Y: 0.096

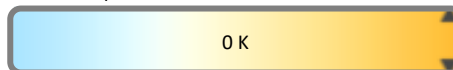


Light Quality

CRI: 0.0

Color Temperature

0 K



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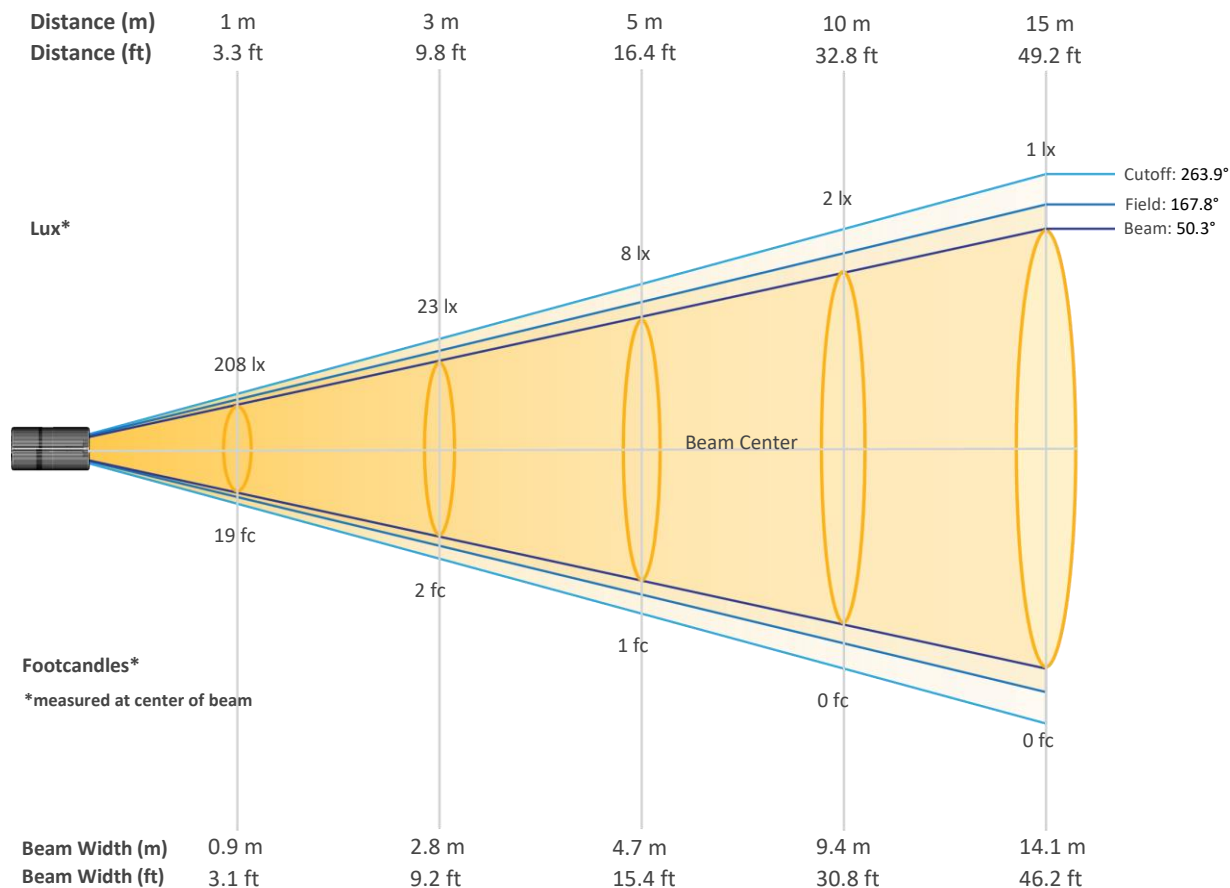
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Photometric & Chromaticity Report

Logic GZL: 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	208	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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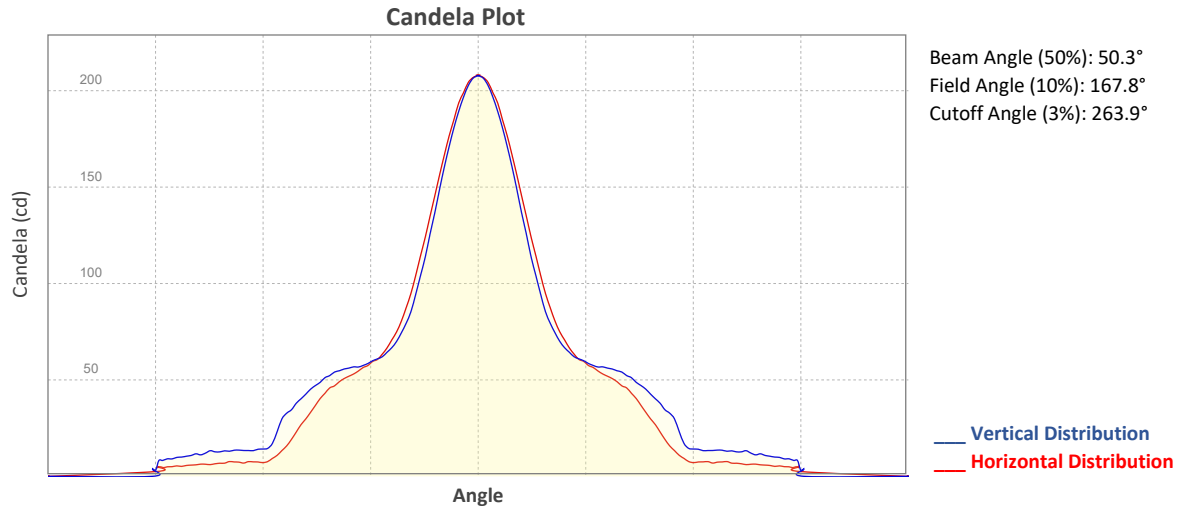
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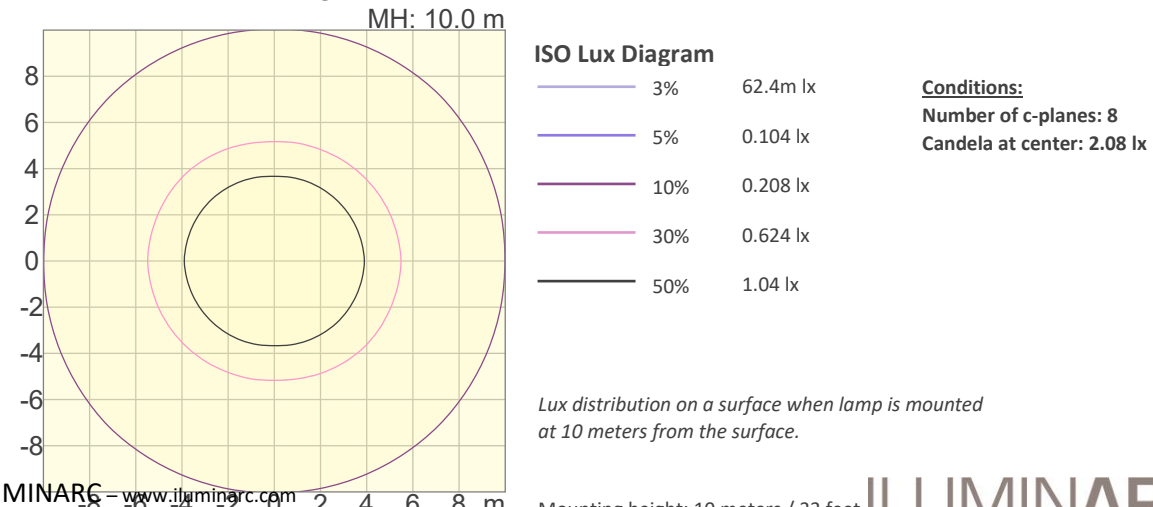
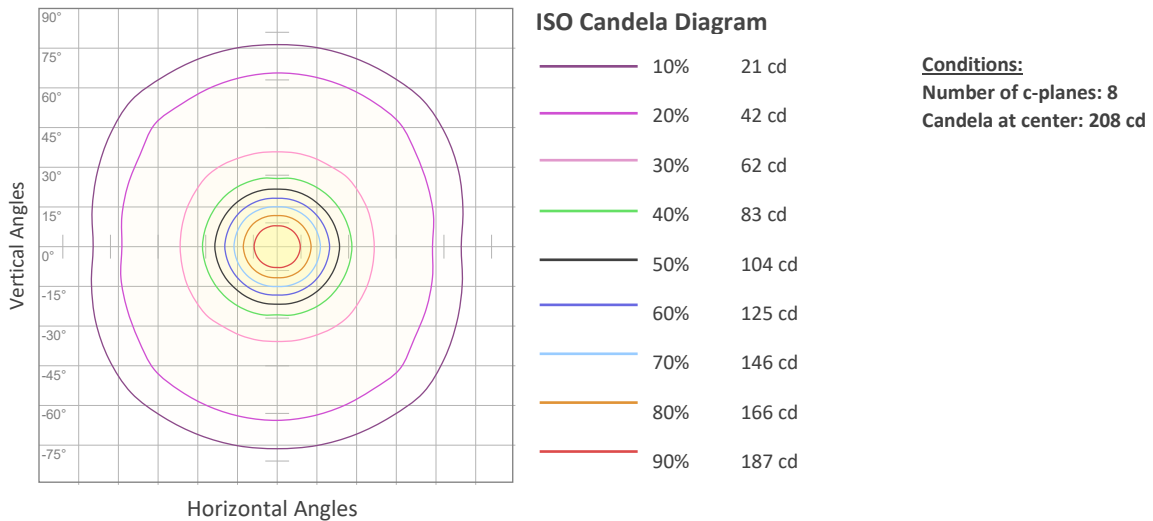
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Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Blue Only



ISO Diagrams



Photometric & Chromaticity Report

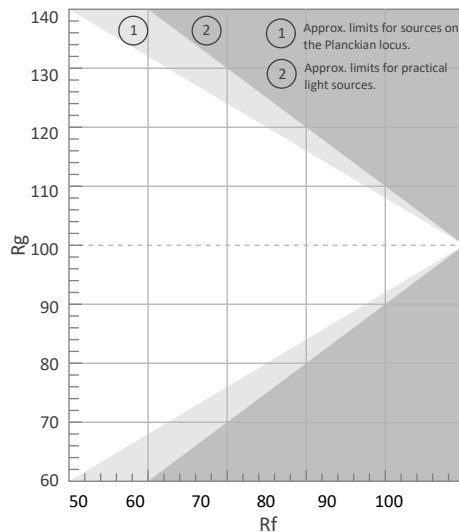
Logic GZL: Very Wide Filter - Blue Only

TM-30 Details

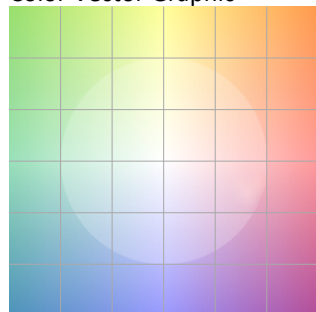
Rf 0.0
Fidelity Index (Rg)

Rg 0.0
Gammut Index (Rg)

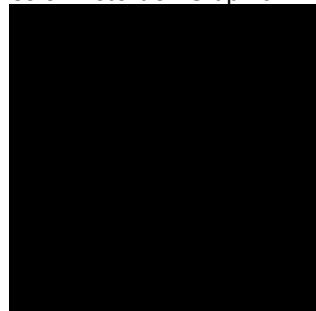
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



Color Distortion Graphic



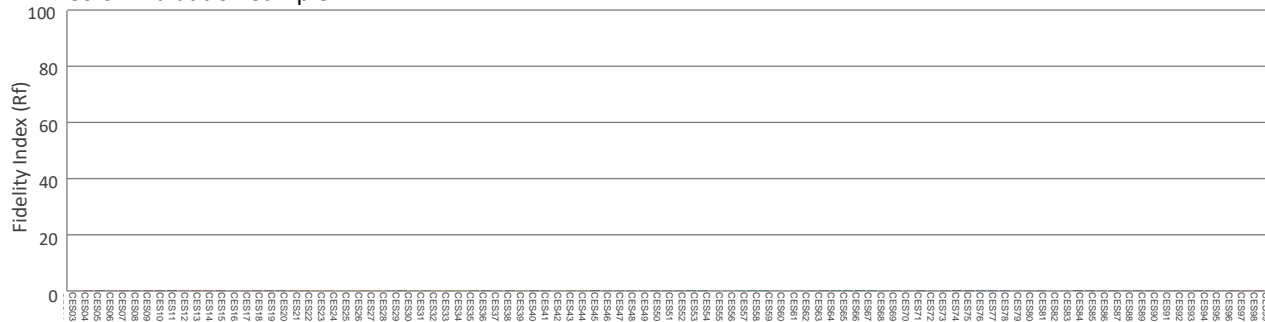
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Warm White Only

Report Summary

Measurements

Fixture Output: 1704 lm

Fixture Peak: 909 cd

Fixture Efficacy: 51 lm/W

Intensity @ 5m: 36 lux

Color Temperature: 3050 K

CRI: 84.8 CRI R9 Value: 15.3

CQS: 83.8

TLCI: 73

TM-30 Rf: 86.0

TM-30 Rg: 95.2

Beam Angle (50%): 49.3°

Field Angle (10%): 166.2°

Cutoff Angle (2%): 257.4°

Conditions

AC Supply: 120 V, 60 Hz

Power: 35.43 W

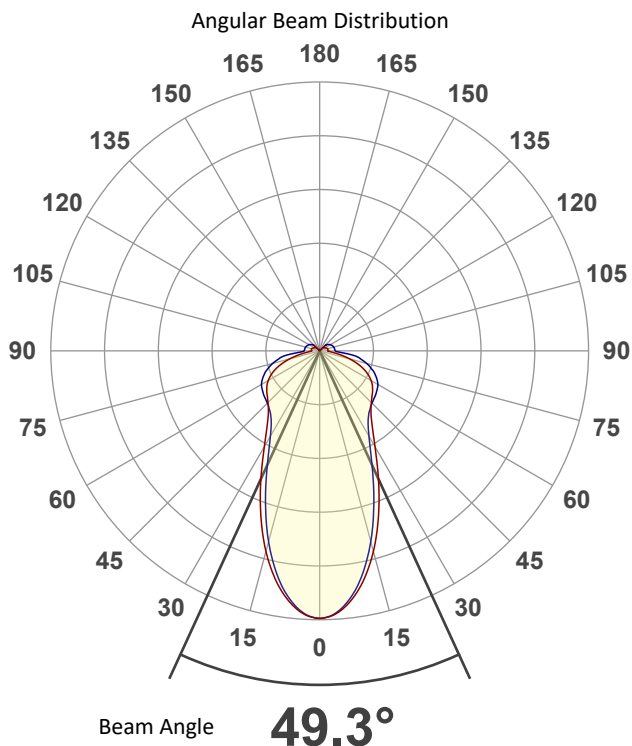
Current: 0.296 A

Power Factor: 0.94

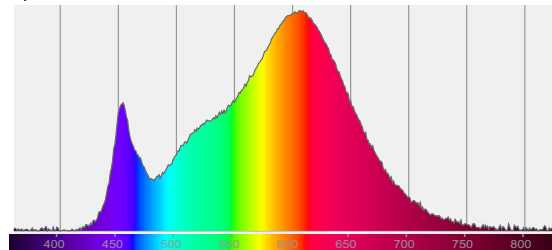


This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/5/2022 to LM-63-2002 Standards.

Overall Measurement



Spectral Distribution



Tested Color (CIE 1931):

X: 0.432

Y: 0.400

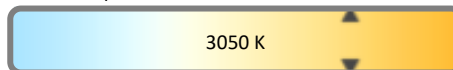


Light Quality

CRI: 84.8

Color Temperature

3050 K



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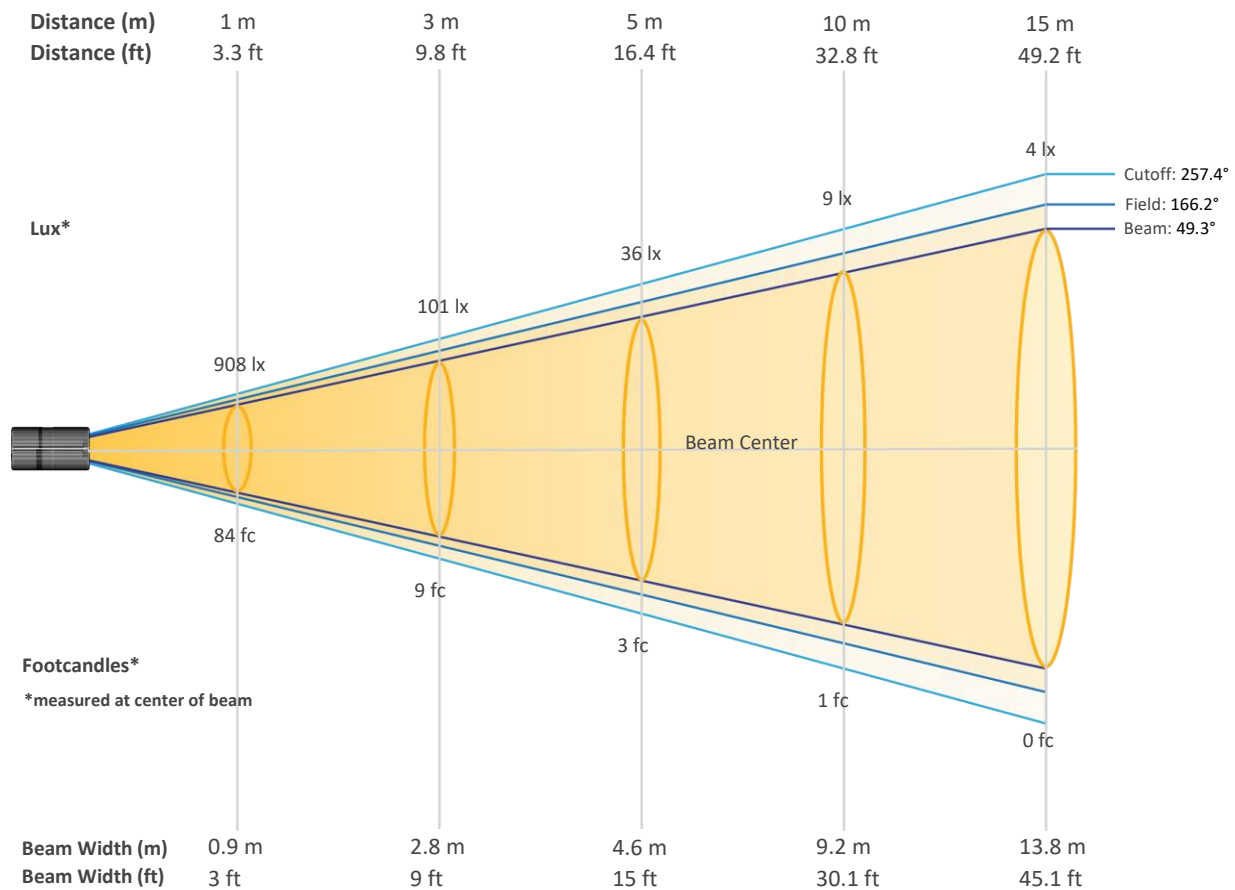
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Photometric & Chromaticity Report

Logic GZL: 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	908	227	101	57	36	25	19	14	11	9
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	8	6	5	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	84	21	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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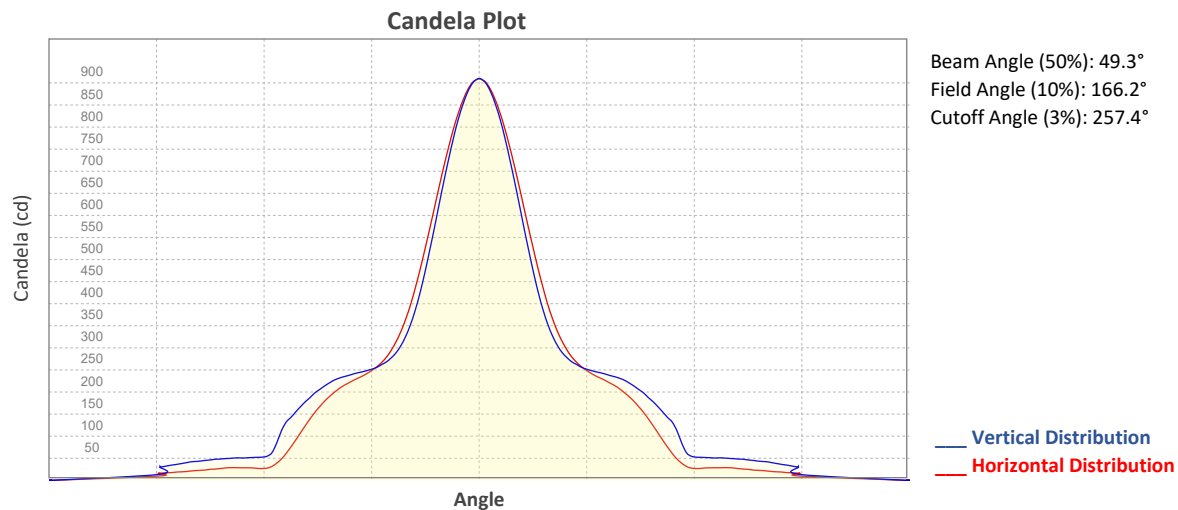
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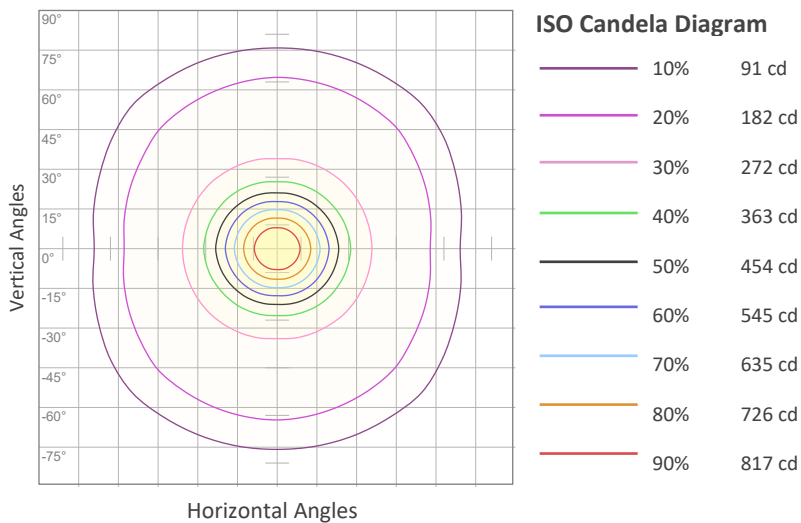
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Photometric & Chromaticity Report

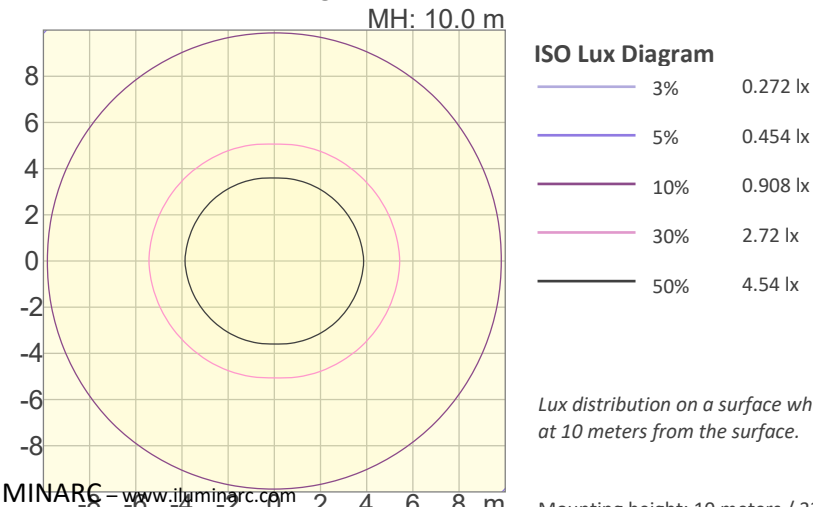
Logic GZL: Very Wide Filter - Warm White Only



ISO Diagrams



Conditions:
 Number of c-planes: 8
 Candela at center: 908 cd



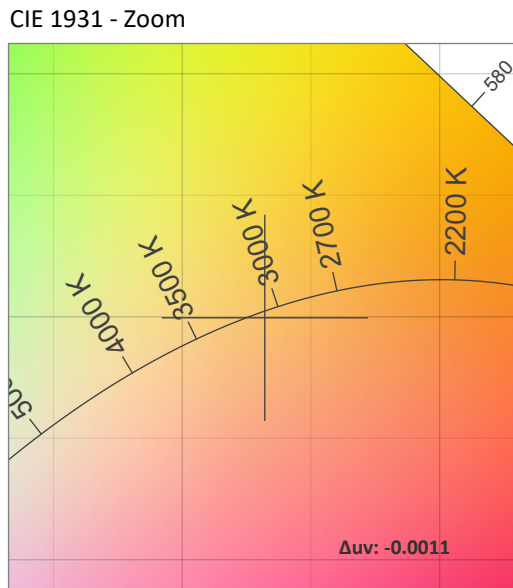
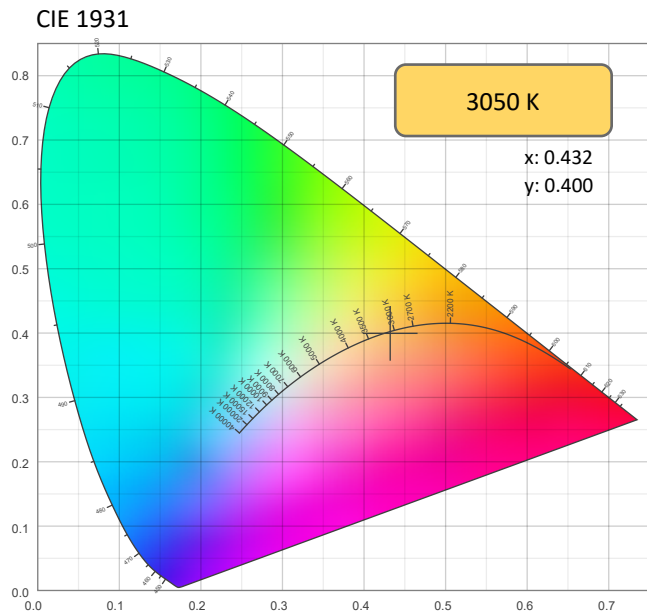
Conditions:
 Number of c-planes: 8
 Candela at center: 9.08 lx

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

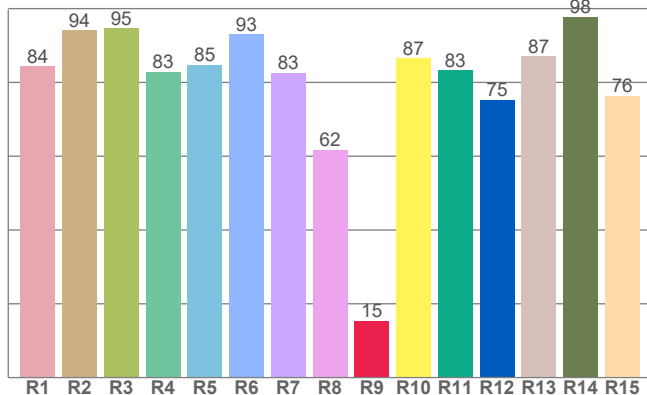
Photometric & Chromaticity Report

Logic GZL: Very Wide Filter - Warm White Only

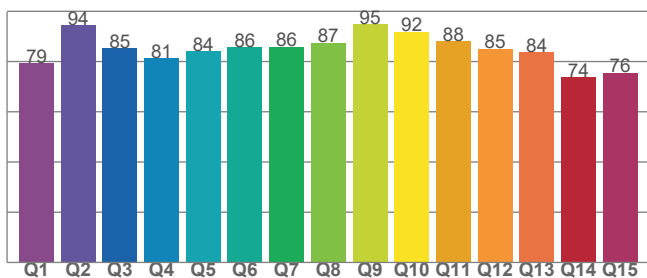
Chromaticity



CRI: 84.8 (R1-R8)



CQS: 83.8



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3050 K	0.432	0.400

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0011	0.400	0.249

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
84.8	15.3	83.8

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
73	86.0	95.2

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Photometric & Chromaticity Report

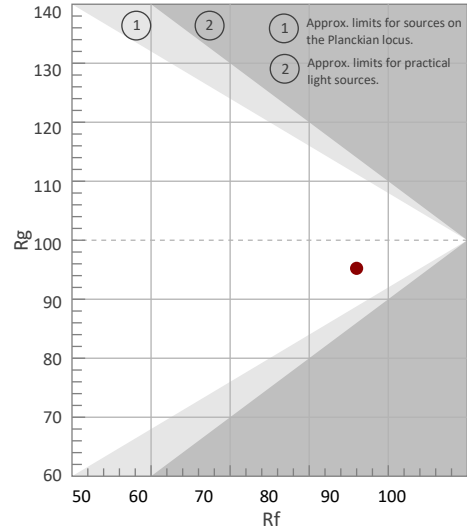
Logic GZL: Very Wide Filter - Warm White Only

TM-30 Details

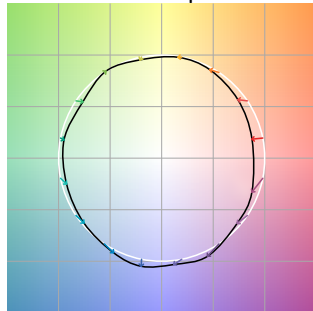
Rf 86.0
Fidelity Index (Rg)

Rg 95.2
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	93	-2%	2%
6	94	0%	-2%
7	88	-6%	-3%
8	93	-4%	1%
9	88	-5%	7%
10	82	-2%	10%
11	83	2%	12%
12	87	7%	1%
13	87	3%	-9%
14	80	4%	-16%
15	80	-4%	-12%
16	78	-8%	-15%



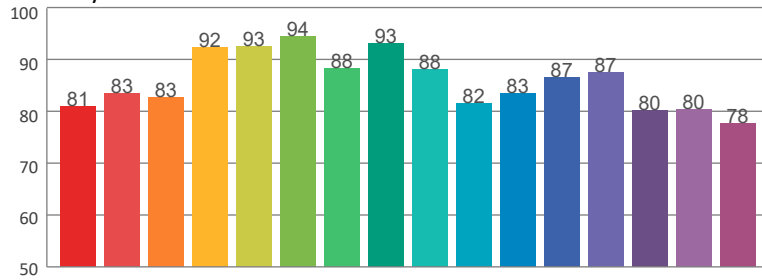
Color Vector Graphic



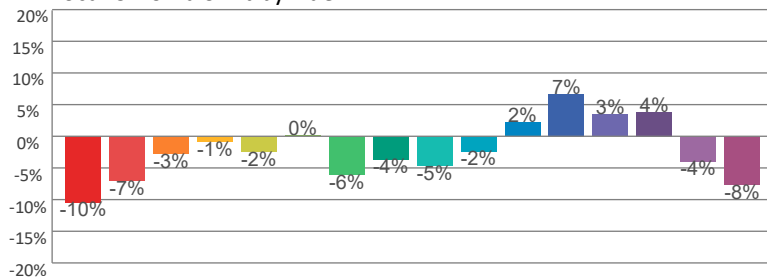
Color Distortion Graphic



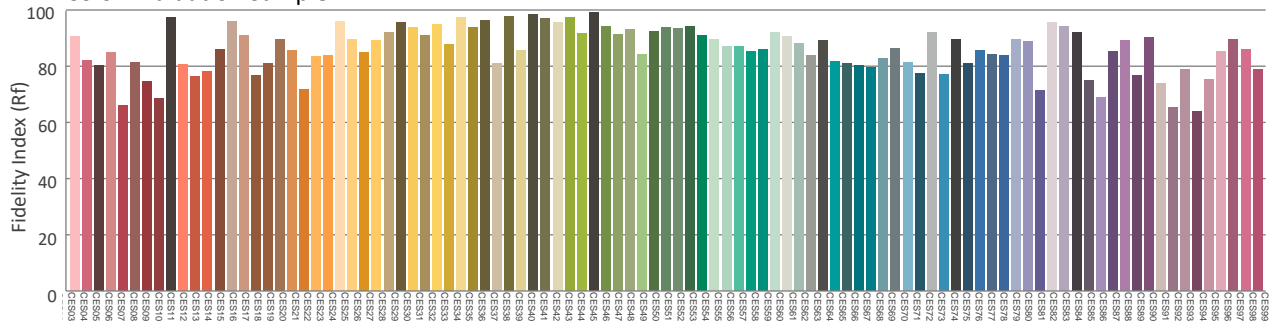
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - RGBW - Full Power

Report Summary

Measurements

Fixture Output: 2498 lm
Fixture Peak: 3370 cd
Fixture Efficacy: 50 lm/W
Intensity @ 5m: 135 lux
Color Temperature: 5546 K
CRI: 69.5 CRI R9 Value: 26.9
CQS: 81.6
TLCI: 79
TM-30 Rf: 73.1
TM-30 Rg: 93.1
Beam Angle (50%): 36.6°
Field Angle (10%): 76.8°
Cutoff Angle (2%): 182.5°

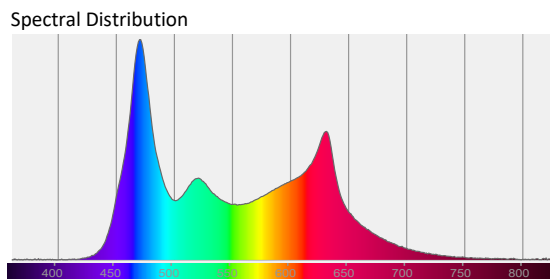
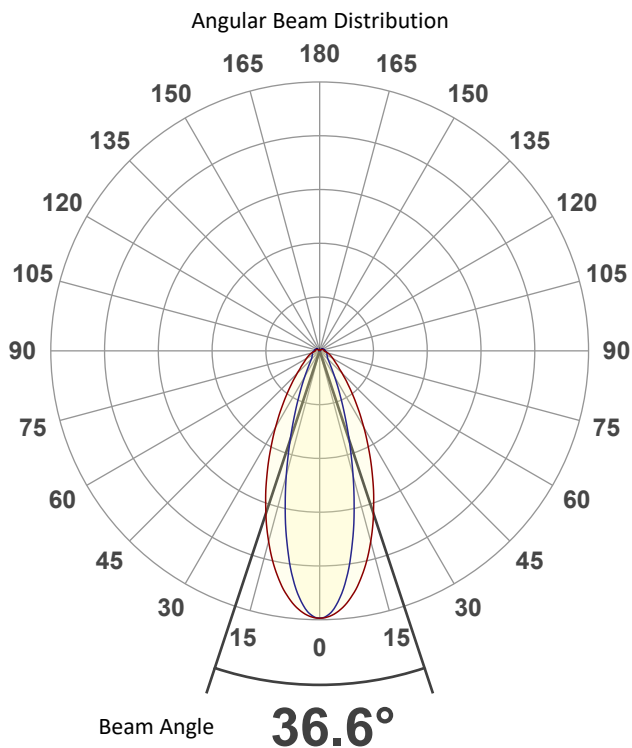
Conditions

AC Supply: 119 V, 60 Hz
Power: 52.11 W
Current: 0.439 A
Power Factor: 0.95



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

Overall Measurement



Tested Color (CIE 1931):

X: 0.331

Y: 0.319



Light Quality

CRI: 69.5

Color Temperature

5546 K

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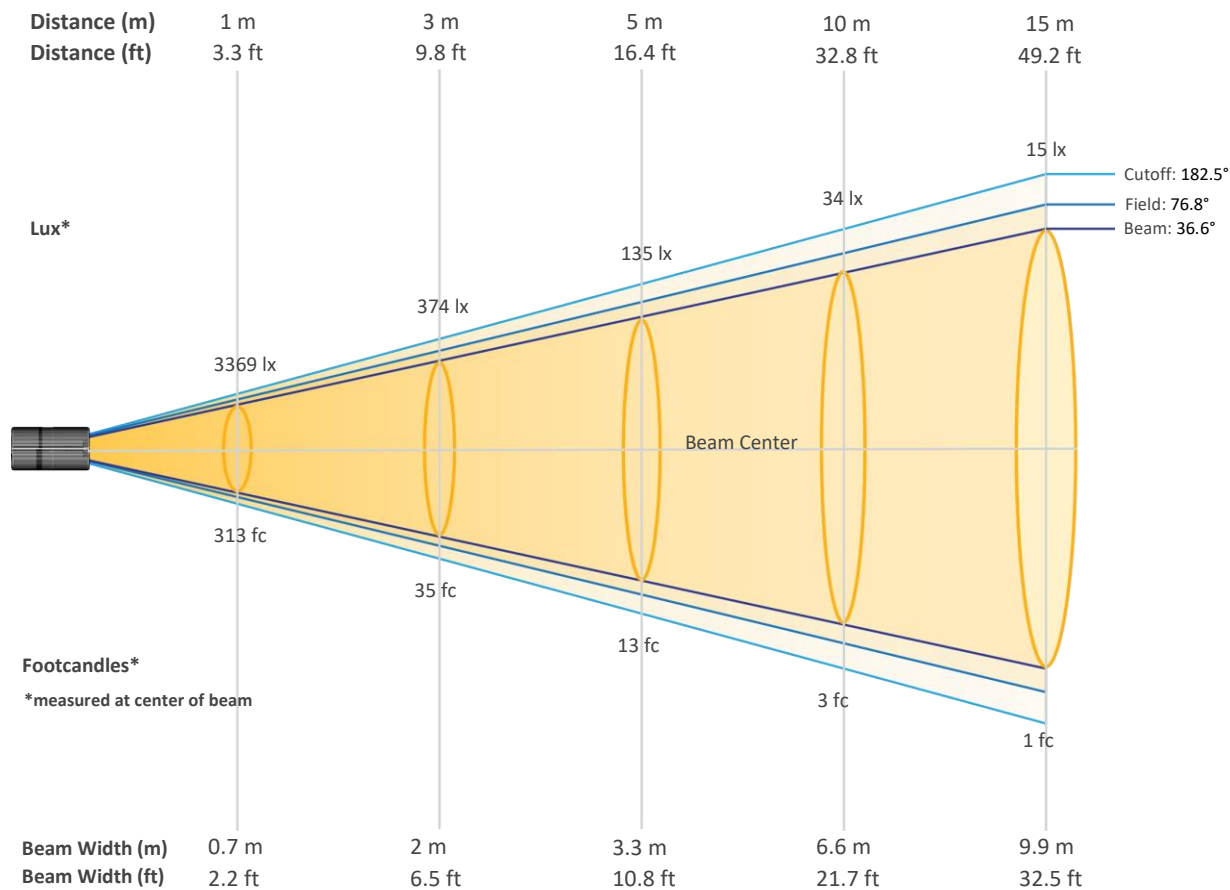
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Photometric & Chromaticity Report

Logic GZL: 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	3369	842	374	211	135	94	69	53	42	34
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	28	23	20	17	15	13	12	10	9	8
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	313	78	35	20	13	9	6	5	4	3
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	2	2	2	1	1	1	1	1	1

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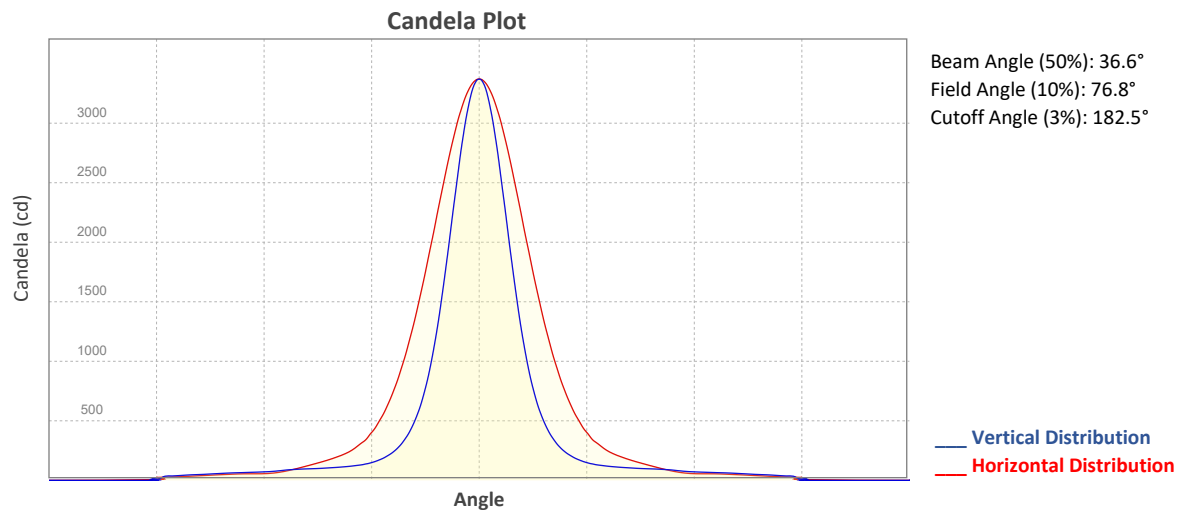
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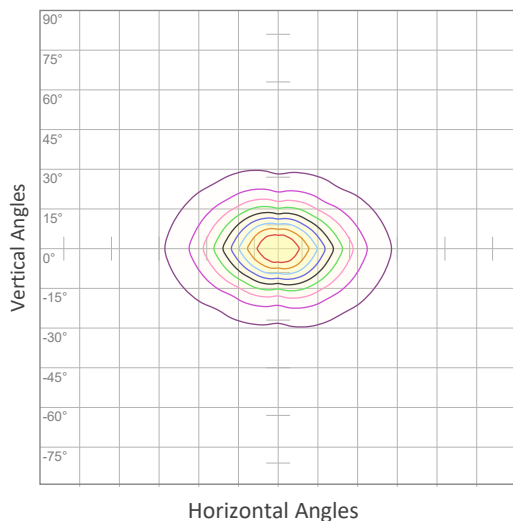
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Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - RGBW - Full Power



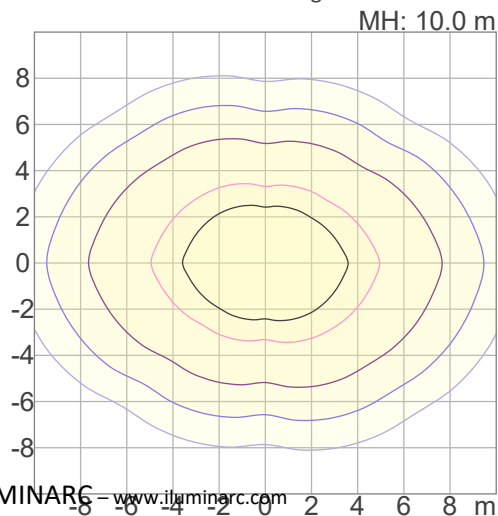
ISO Diagrams



ISO Candela Diagram

10%	337 cd
20%	674 cd
30%	1011 cd
40%	1348 cd
50%	1684 cd
60%	2021 cd
70%	2358 cd
80%	2695 cd
90%	3032 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 3369 cd



ISO Lux Diagram

3%	1.01 lx
5%	1.68 lx
10%	3.37 lx
30%	10.1 lx
50%	16.8 lx

Conditions:
 Number of c-planes: 8
 Candela at center: 33.7 lx

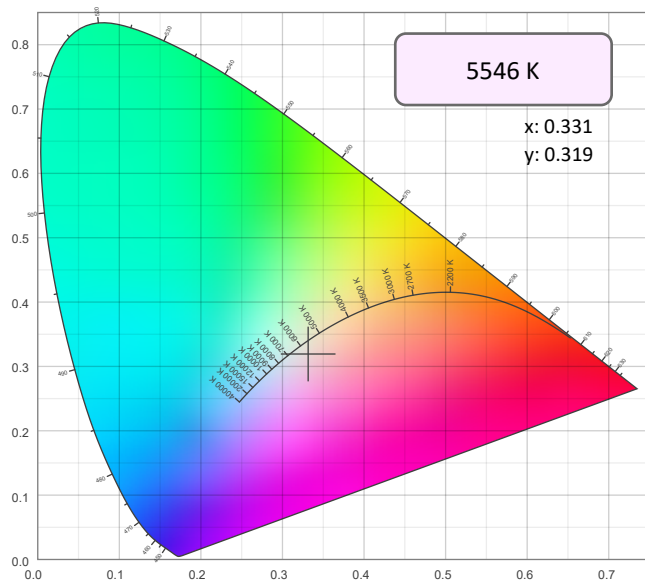
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Photometric & Chromaticity Report

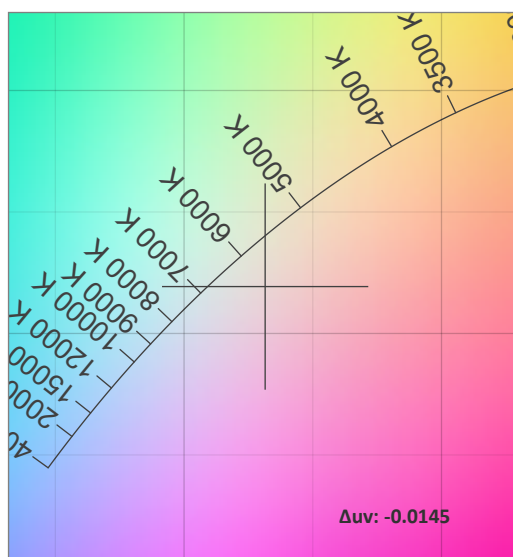
Logic GZL: 40X1 Filter - RGBW - Full Power

Chromaticity

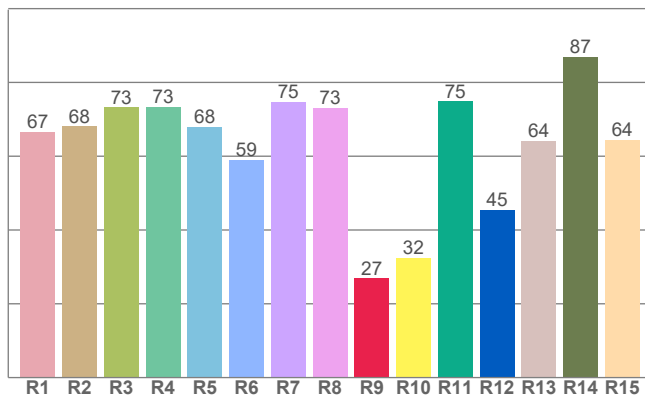
CIE 1931



CIE 1931 - Zoom



CRI: 69.5 (R1-R8)

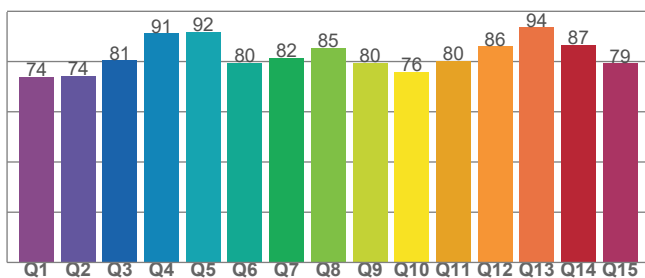


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5546 K	0.331	0.319

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0145	0.319	0.215

CQS: 81.6



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
69.5	26.9	81.6

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
79	73.1	93.1

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Photometric & Chromaticity Report

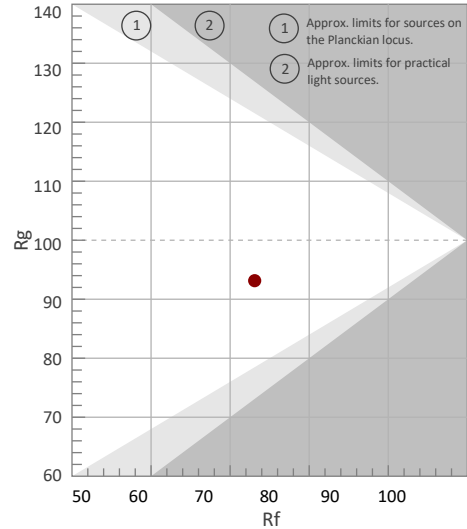
Logic GZL: 40X1 Filter - RGBW @ Full

TM-30 Details

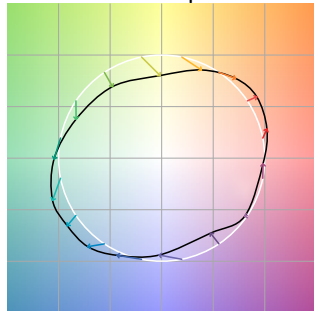
Rf 73.1
Fidelity Index (Rg)

Rg 93.1
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	78	6%	8%
2	82	10%	-2%
3	71	4%	-17%
4	64	-9%	-21%
5	64	-21%	-14%
6	76	-16%	1%
7	74	-10%	15%
8	65	2%	21%
9	75	12%	19%
10	79	13%	4%
11	72	11%	-12%
12	66	1%	-24%
13	74	-8%	-21%
14	77	-13%	-1%
15	81	-2%	-2%
16	76	-3%	14%



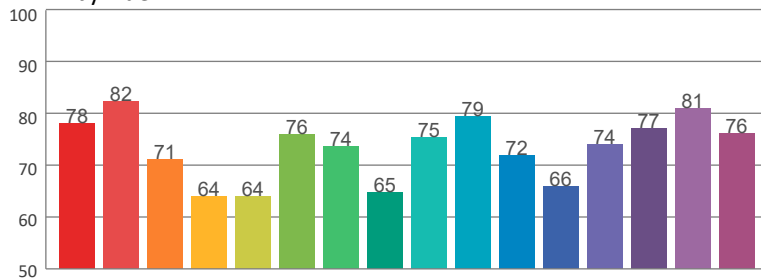
Color Vector Graphic



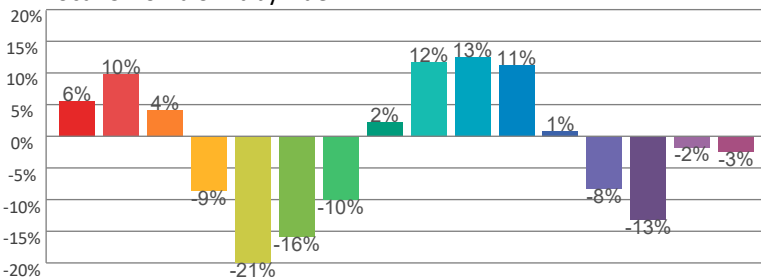
Color Distortion Graphic



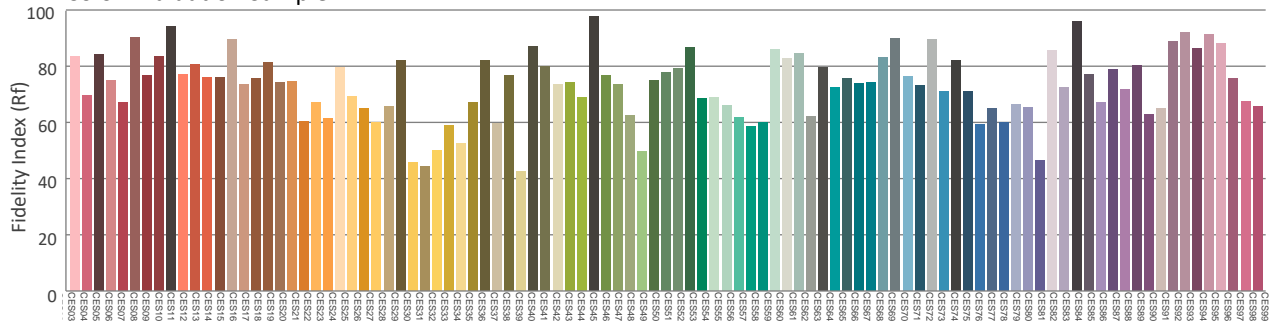
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Red Only

Report Summary

Measurements

Fixture Output: 653 lm

Fixture Peak: 992 cd

Fixture Efficacy: 21 lm/W

Intensity @ 5m: 40 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%): 72.3°

Cutoff Angle (2%): 156.2°

Conditions

AC Supply: 119 V, 60 Hz

Power: 33.16 W

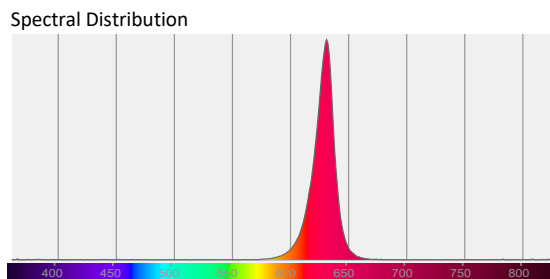
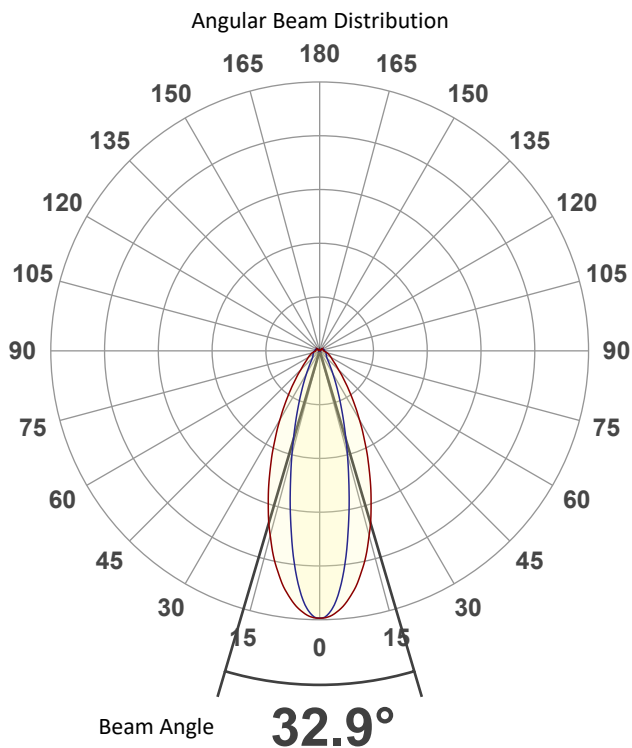
Current: 0.278 A

Power Factor: 0.94



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

Overall Measurement



Tested Color (CIE 1931):

X: 0.694

Y: 0.306



Light Quality

CRI: 0.0

Color Temperature

0 K

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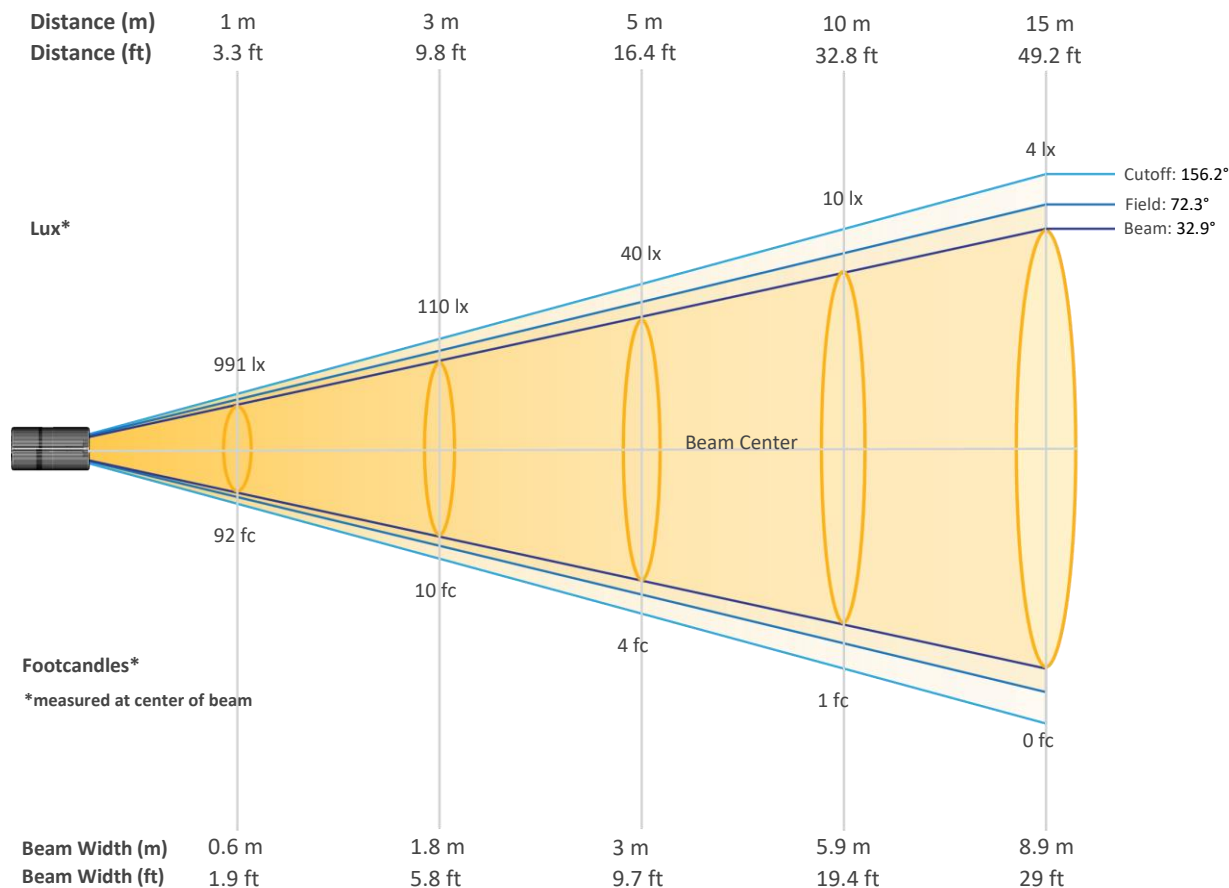
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Photometric & Chromaticity Report

Logic GZL: 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	991	248	110	62	40	28	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	92	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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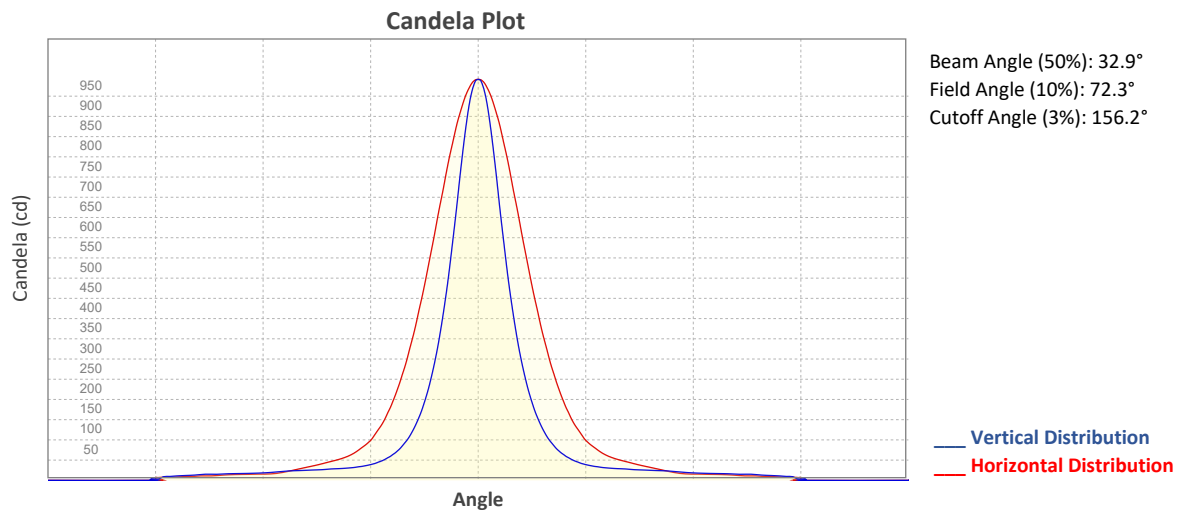
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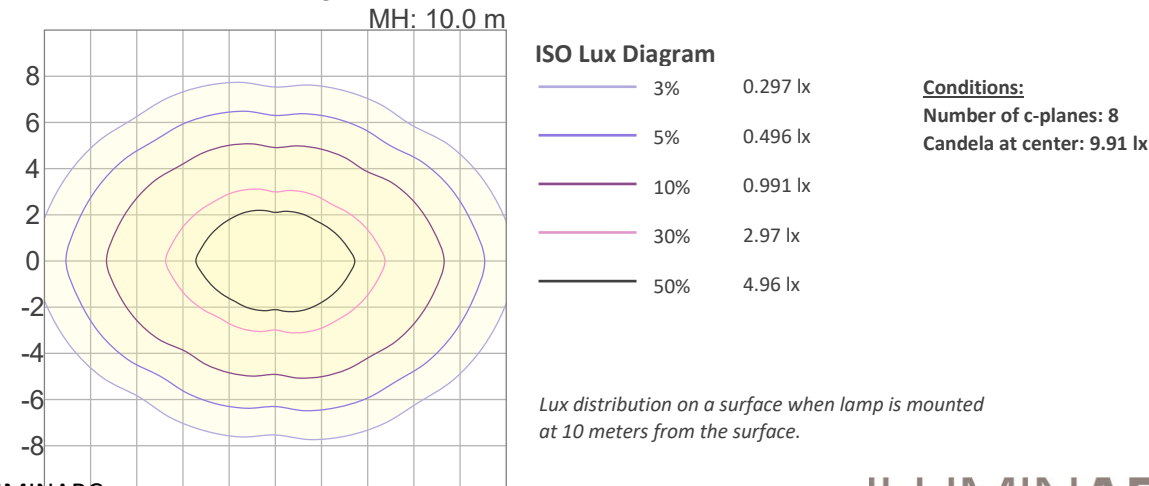
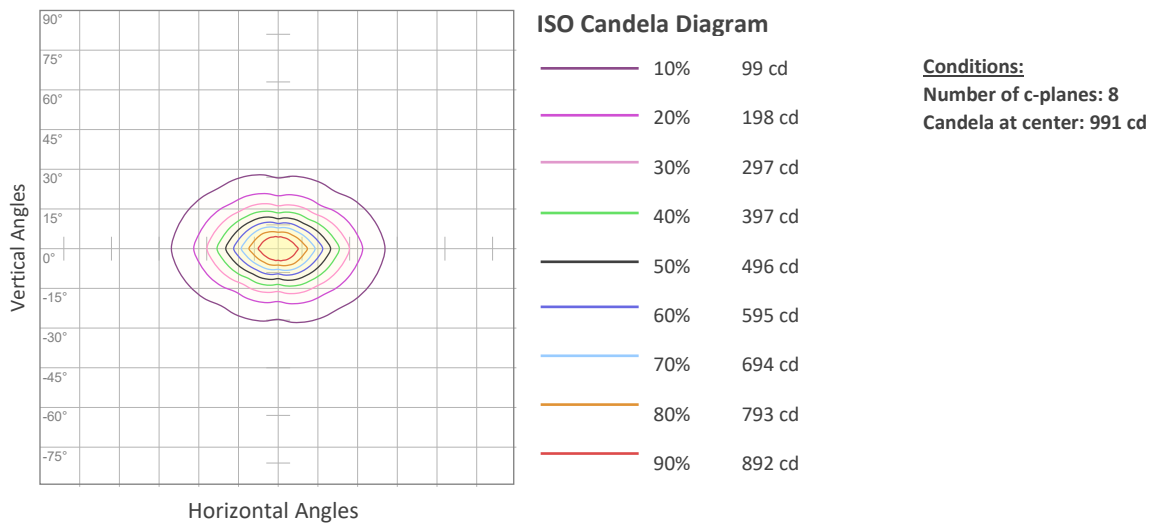
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Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Red Only



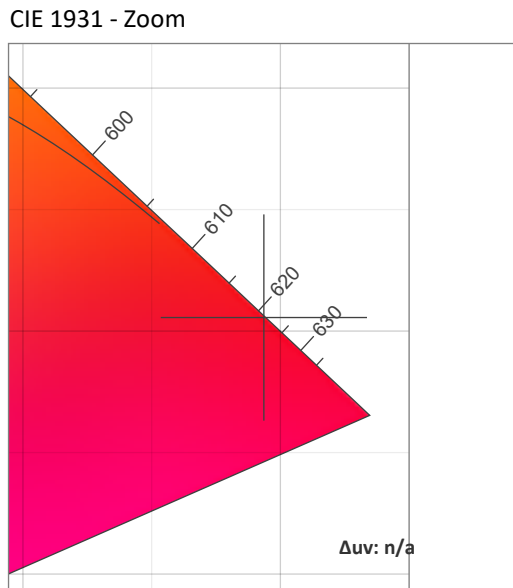
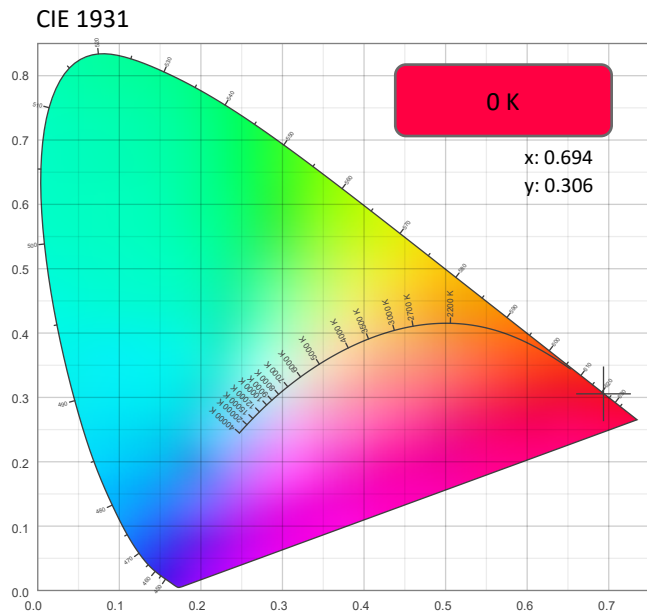
ISO Diagrams



Photometric & Chromaticity Report

Logic GZL: 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	0.694	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

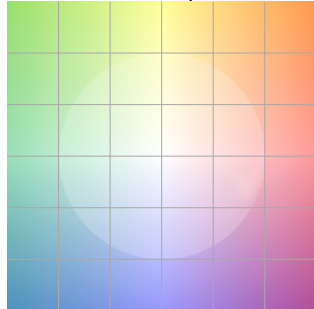
Logic GZL: 40X1 Filter - Red Only

TM-30 Details

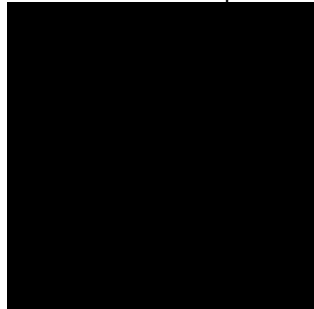
Rf 0.0
Fidelity Index
(Rg)

Rg 0.0
Gammut Index (Rg)

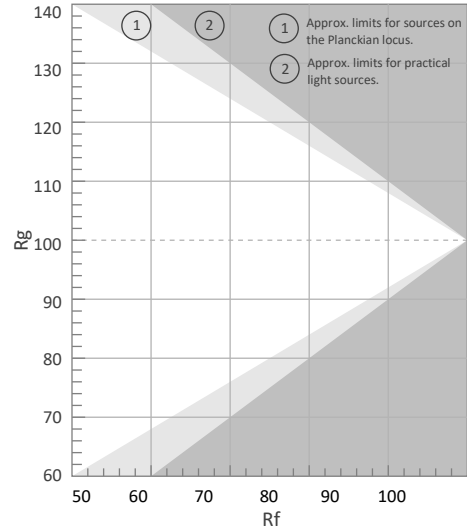
Color Vector Graphic



Color Distortion Graphic



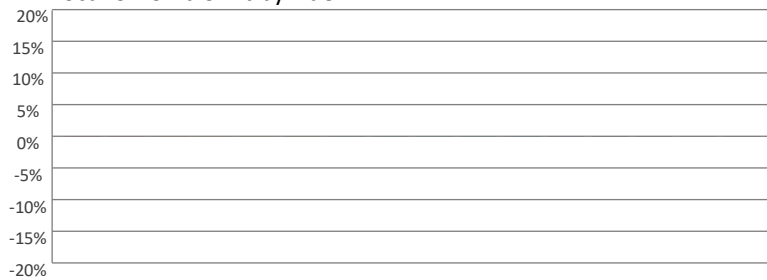
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



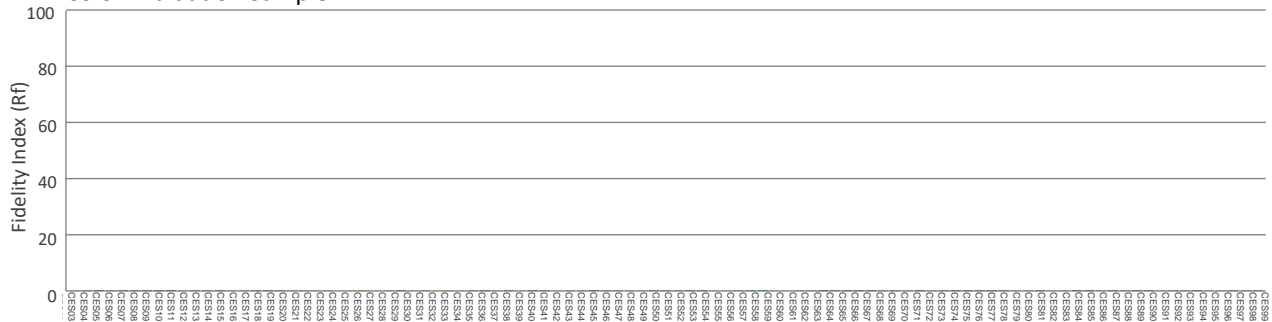
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Green Only

Report Summary

Measurements

Fixture Output: 1315 lm

Fixture Peak: 1917 cd

Fixture Efficacy: 41 lm/W

Intensity @ 5m: 77 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%): 33.8°

Field Angle (10%): 74.1°

Cutoff Angle (2%): 177.4°

Conditions

AC Supply: 119 V, 60 Hz

Power: 34.2 W

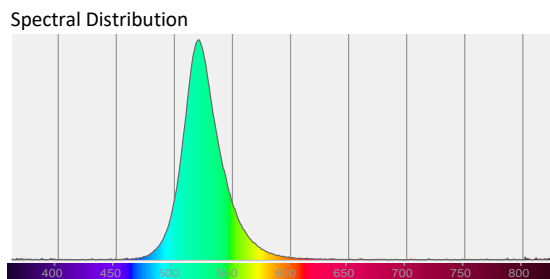
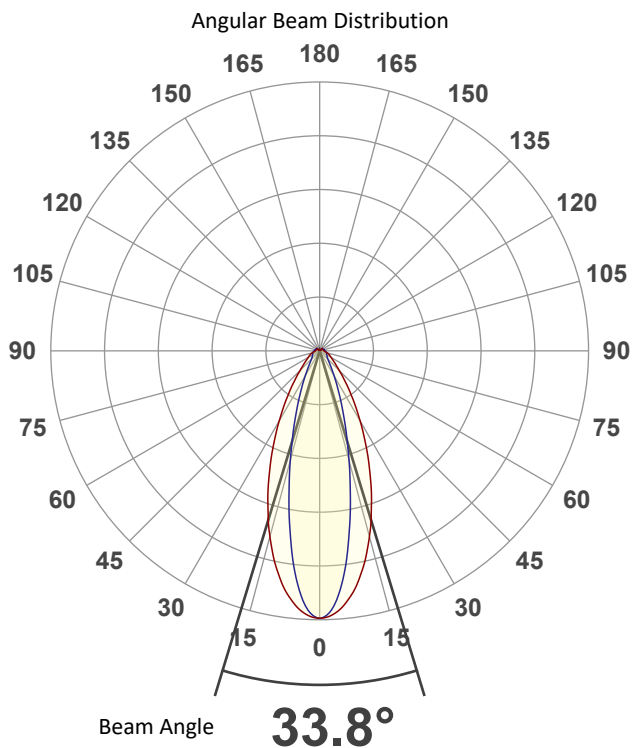
Current: 0.287 A

Power Factor: 0.94



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

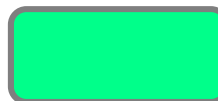
Overall Measurement



Tested Color (CIE 1931):

X: 0.174

Y: 0.724

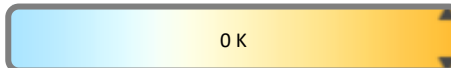


Light Quality

CRI: 0.0

Color Temperature

0 K



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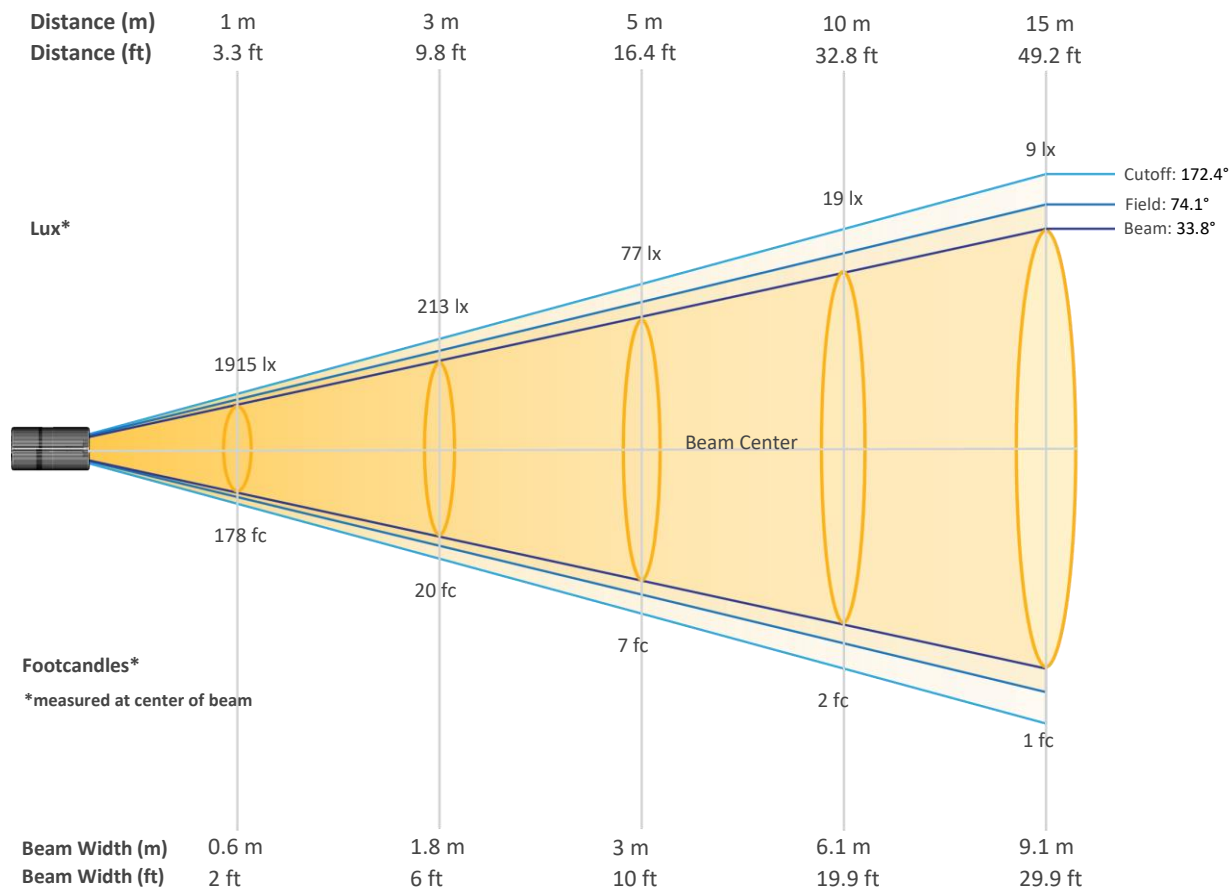
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Photometric & Chromaticity Report

Logic GZL: 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	1915	479	213	120	77	53	39	30	24	19
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	16	13	11	10	9	7	7	6	5	5
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	178	44	20	11	7	5	4	3	2	2
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	1	1	1	0	0

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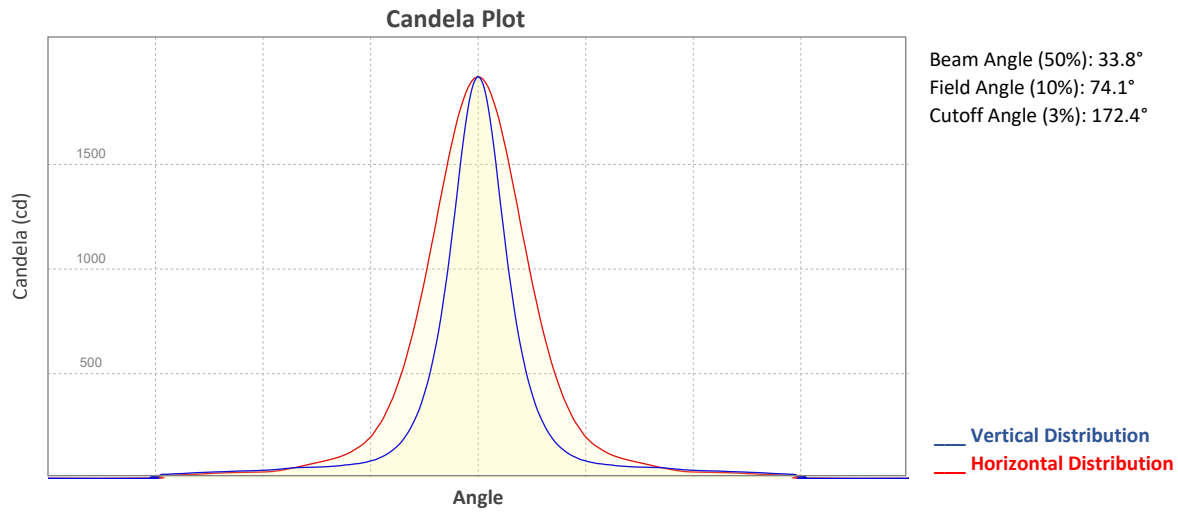
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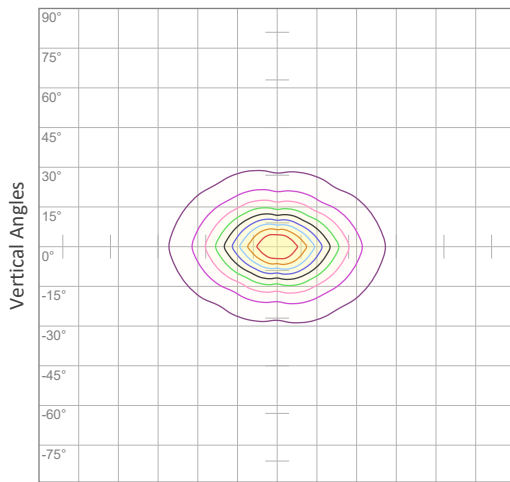
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Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Green Only



ISO Diagrams



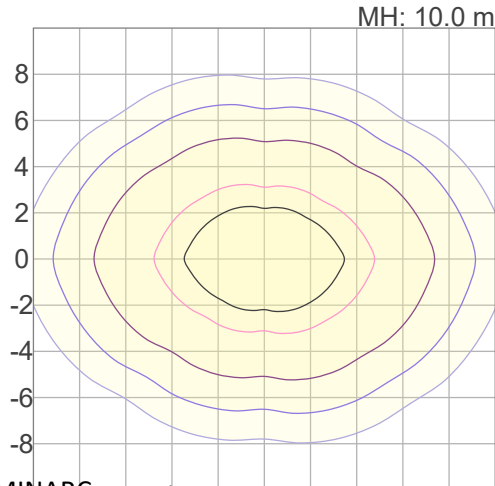
ISO Candela Diagram

10%	192 cd
20%	383 cd
30%	575 cd
40%	766 cd
50%	958 cd
60%	1149 cd
70%	1341 cd
80%	1532 cd
90%	1724 cd

Conditions:

Number of c-planes: 8
Candela at center: 1915 cd

Horizontal Angles



ISO Lux Diagram

3%	0.575 lx
5%	0.958 lx
10%	1.92 lx
30%	5.75 lx
50%	9.58 lx

Conditions:

Number of c-planes: 8
Candela at center: 19.2 lx

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

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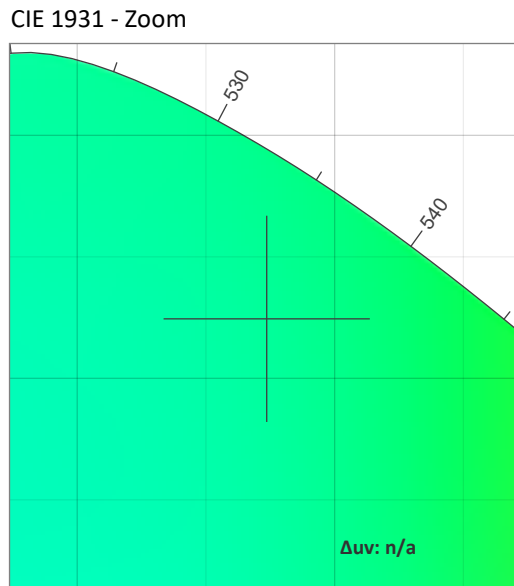
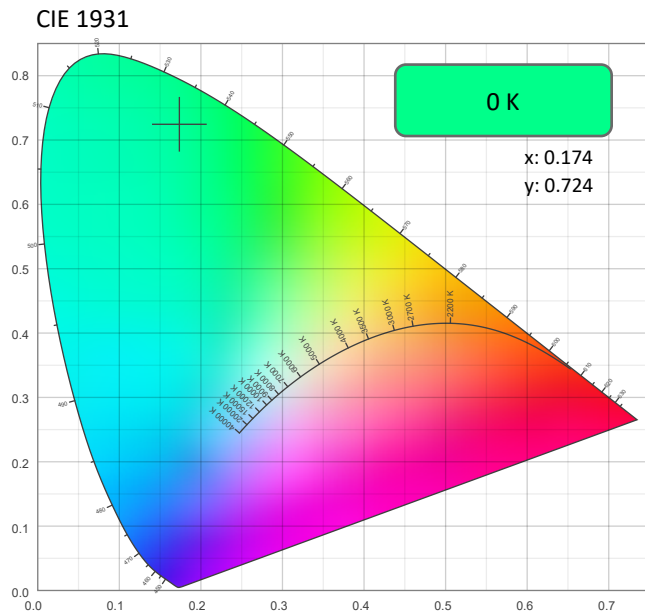
Mounting height: 10 meters / 33 feet

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Photometric & Chromaticity Report

Logic GZL: 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	0.724

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

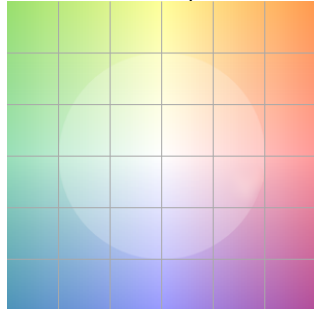
Logic GZL: 40X1 Filter - Green Only

TM-30 Details

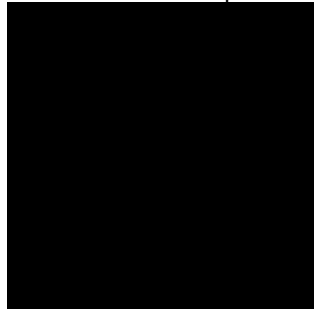
Rf 0.0
Fidelity Index
(Rg)

Rg 0.0
Gammut Index (Rg)

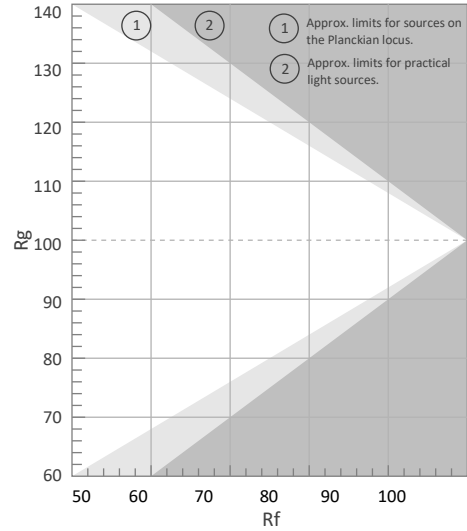
Color Vector Graphic



Color Distortion Graphic



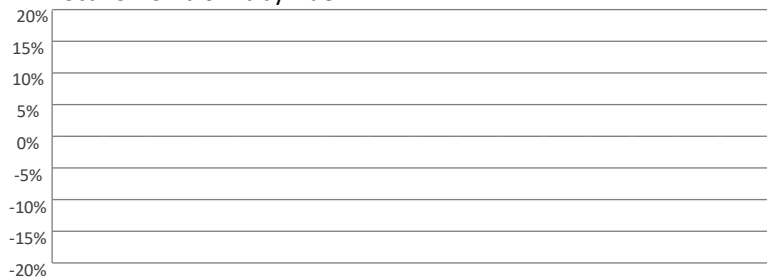
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



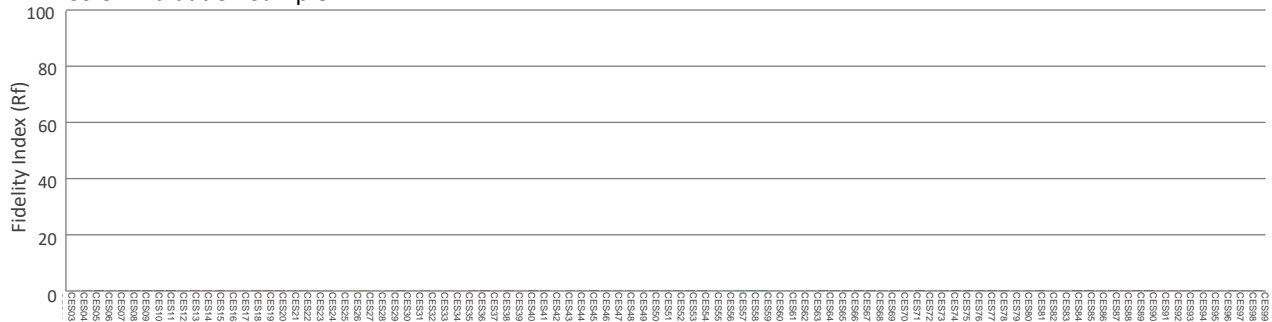
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Blue Only

Report Summary

Measurements

Fixture Output: 487 lm

Fixture Peak: 606 cd

Fixture Efficacy: 15 lm/W

Intensity @ 5m: 24 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%): 37.9°

Field Angle (10%): 79.9°

Cutoff Angle (3%): 107.7°

Conditions

AC Supply: 119 V, 60 Hz

Power: 35.29 W

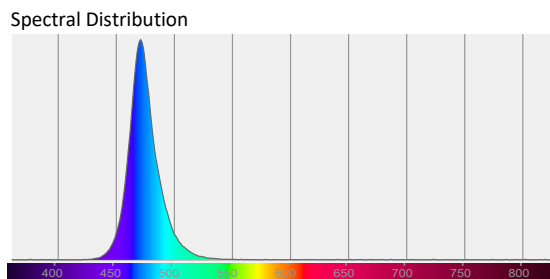
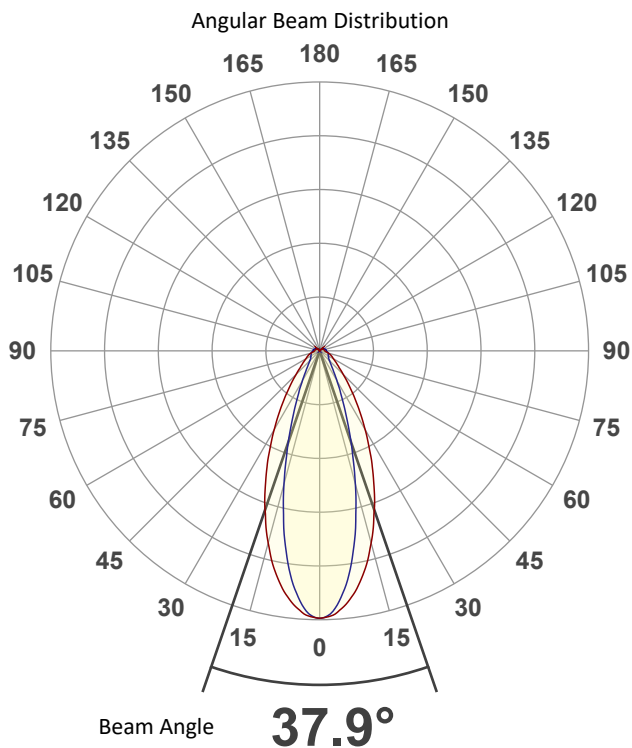
Current: 0.296 A

Power Factor: 0.94



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

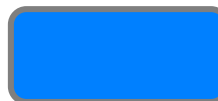
Overall Measurement



Tested Color (CIE 1931):

X: 0.120

Y: 0.095



Light Quality

CRI: 0.0

Color Temperature

0 K

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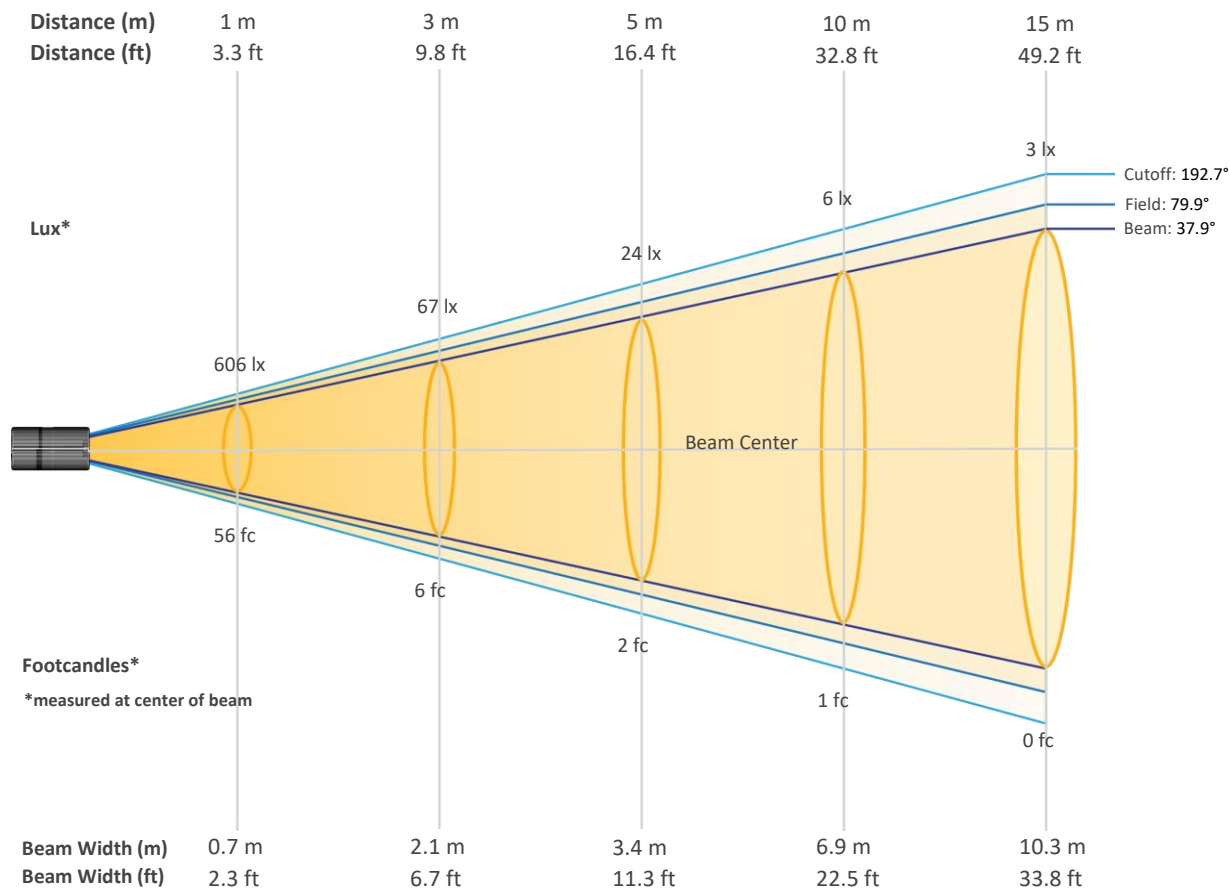
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Photometric & Chromaticity Report

Logic GZL: 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	606	152	67	38	24	17	12	9	7	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	56	14	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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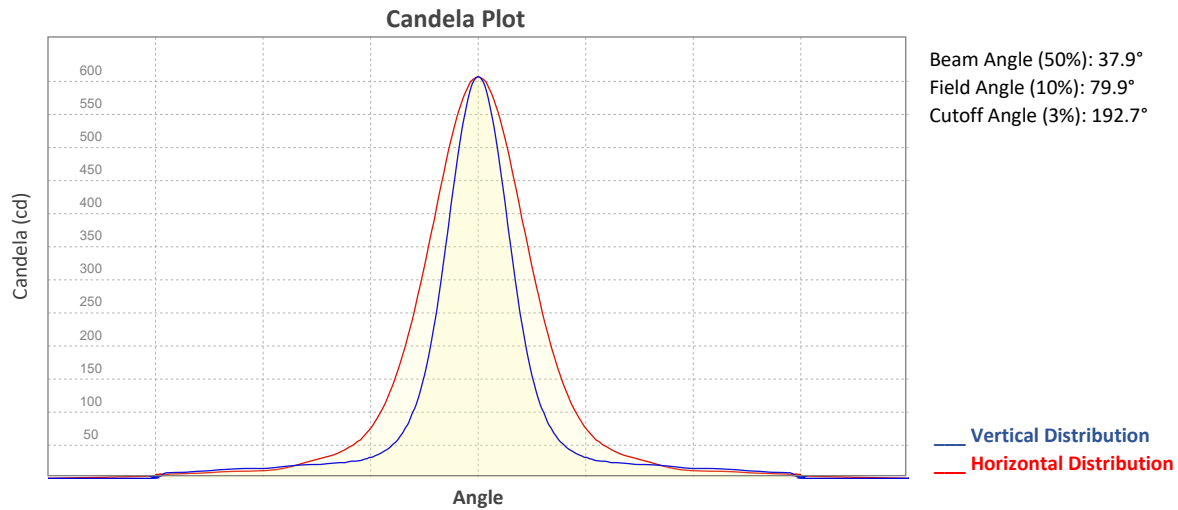
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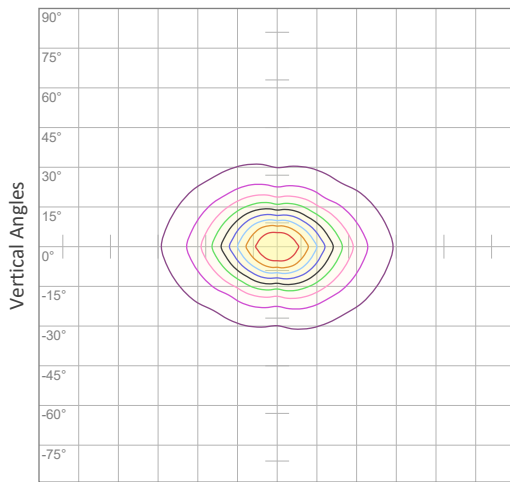
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Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Blue Only



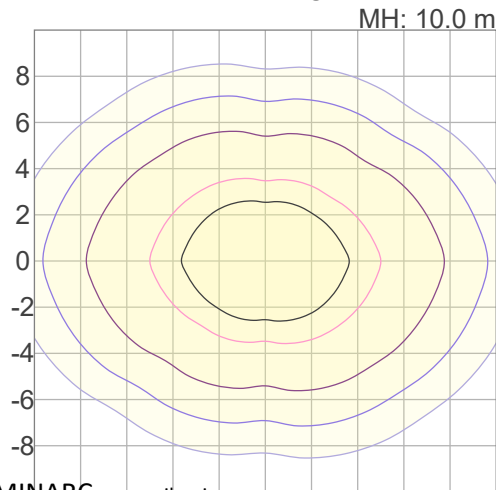
ISO Diagrams



ISO Candela Diagram

10%	61 cd
20%	121 cd
30%	182 cd
40%	242 cd
50%	303 cd
60%	364 cd
70%	424 cd
80%	485 cd
90%	546 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 606 cd



ISO Lux Diagram

3%	0.182 lx
5%	0.303 lx
10%	0.606 lx
30%	1.82 lx
50%	3.03 lx

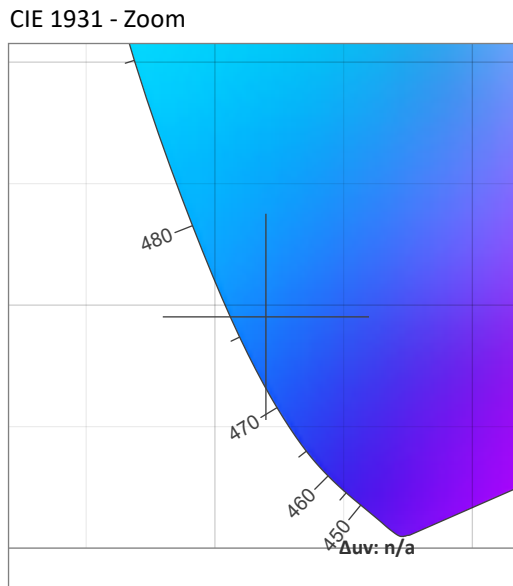
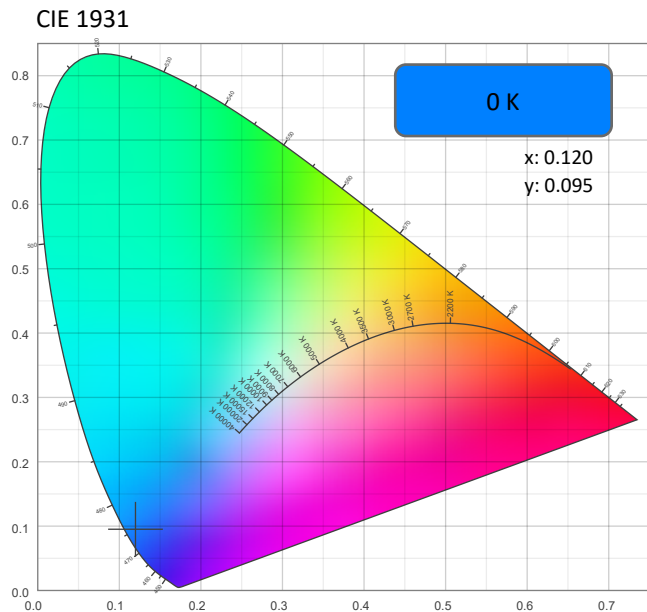
Conditions:
 Number of c-planes: 8
 Candela at center: 6.06 lx

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

Photometric & Chromaticity Report

Logic GZL: 40X1 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	0.095

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.095	0.123

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

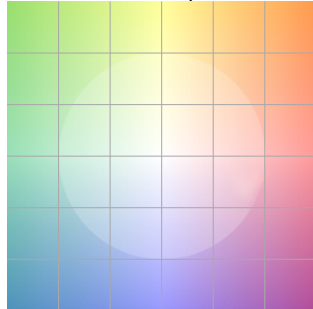
Logic GZL: 40X1 Filter - Blue Only

TM-30 Details

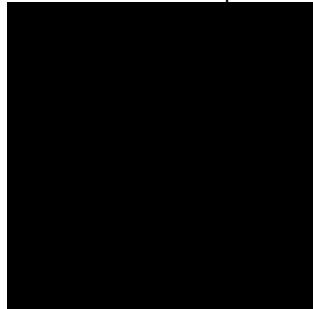
Rf 0.0
Fidelity Index (Rg)

Rg 0.0
Gammut Index (Rg)

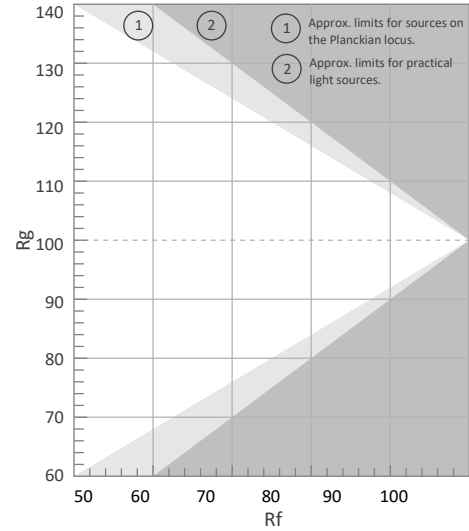
Color Vector Graphic



Color Distortion Graphic



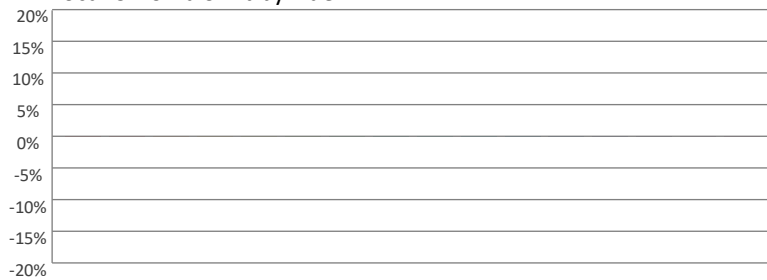
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



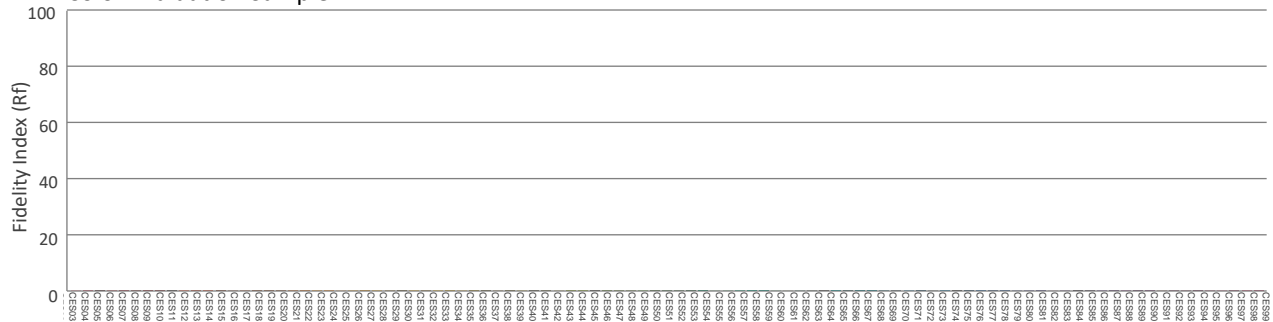
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Warm White Only

Report Summary

Measurements

Fixture Output: 2065 lm
Fixture Peak: 2730 cd
Fixture Efficacy: 62 lm/W
Intensity @ 5m: 109 lux
Color Temperature: 3047 K
CRI: 84.4 CRI R9 Value: 14.0
CQS: 83.6
TLCI: 73
TM-30 Rf: 85.8
TM-30 Rg: 95.1
Beam Angle (50%): 37.4°
Field Angle (10%): 77.6°
Cutoff Angle (2%): 184.2°

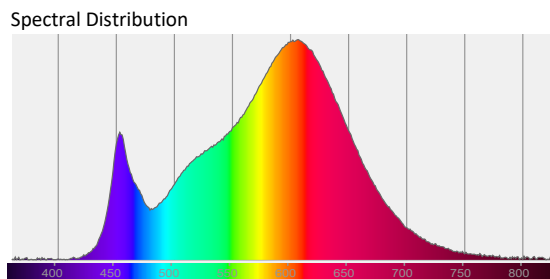
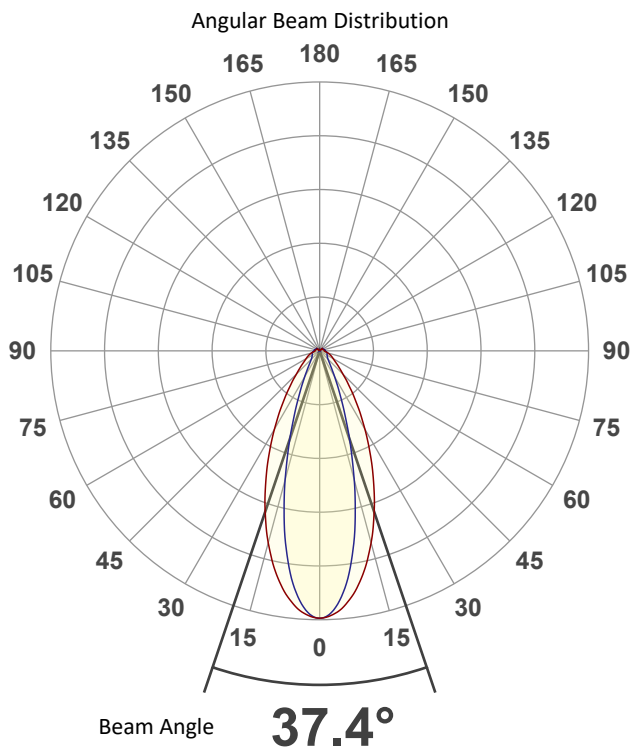
Conditions

AC Supply: 119 V, 60 Hz
Power: 35.39 W
Current: 0.297 A
Power Factor: 0.95



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

Overall Measurement



Tested Color (CIE 1931):
X: 0.432
Y: 0.400



Light Quality
CRI: 84.4

Color Temperature
3047 K

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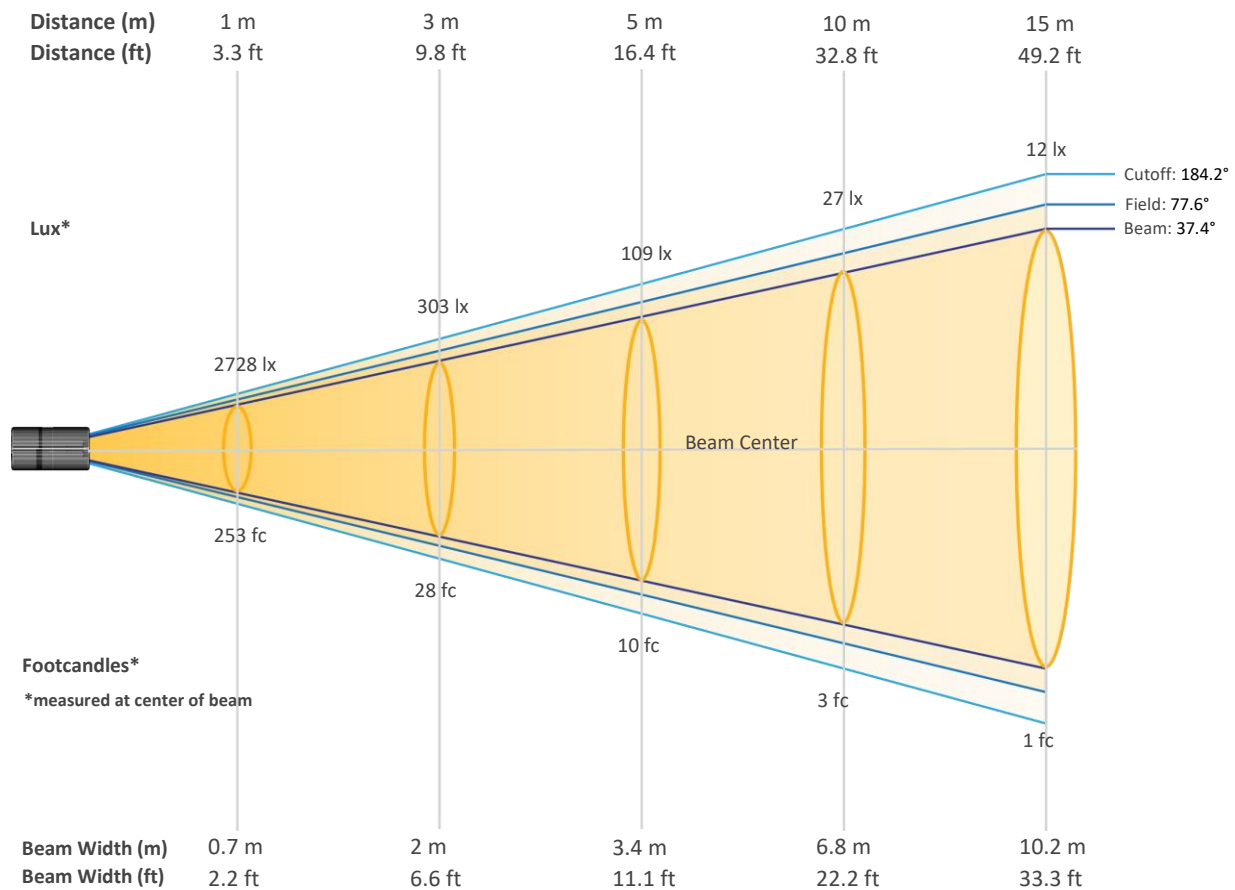
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Photometric & Chromaticity Report

Logic GZL: 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	2728	682	303	170	109	76	56	43	34	27
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	23	19	16	14	12	11	9	8	8	7
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	253	63	28	16	10	7	5	4	3	3
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	2	2	1	1	1	1	1	1	1	1

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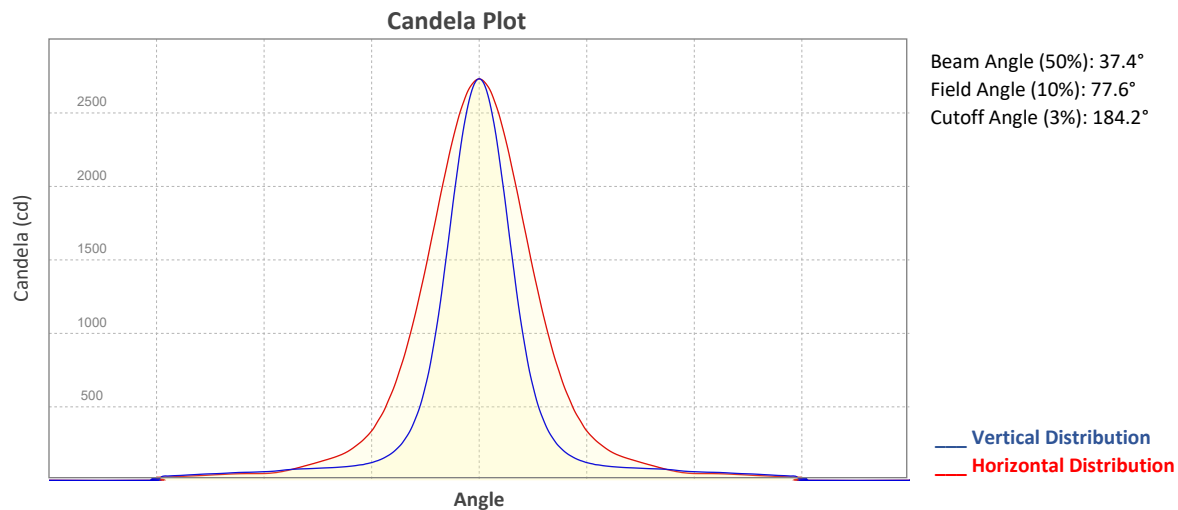
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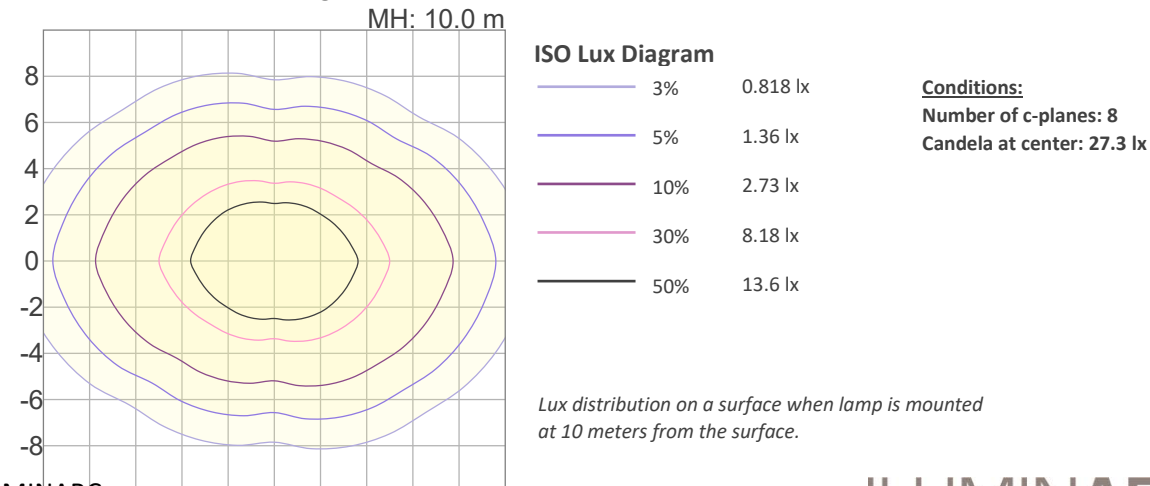
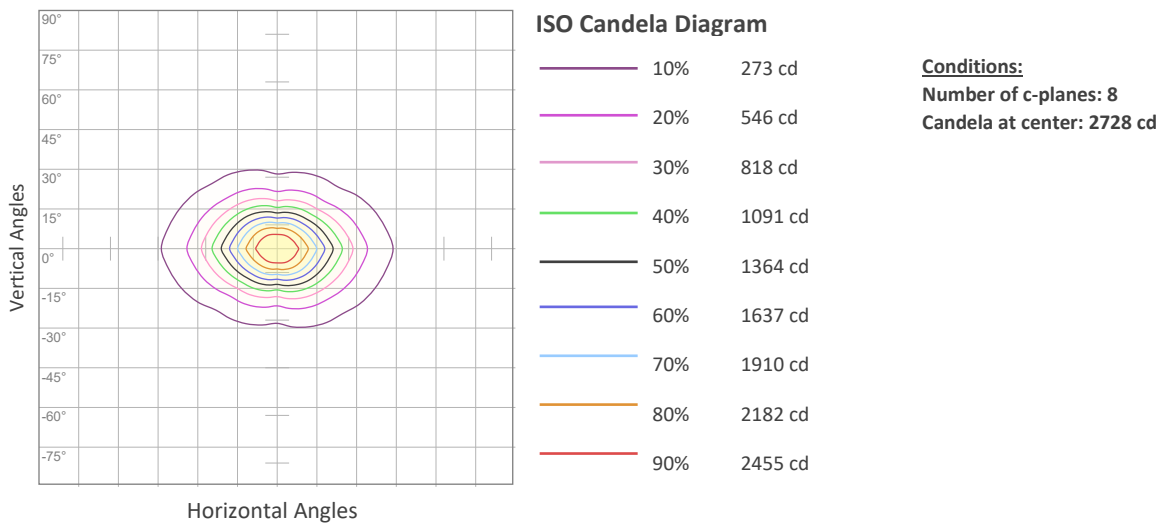
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Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Warm White Only



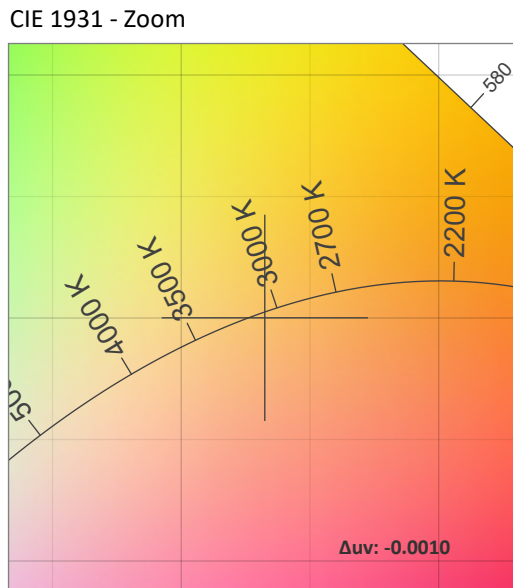
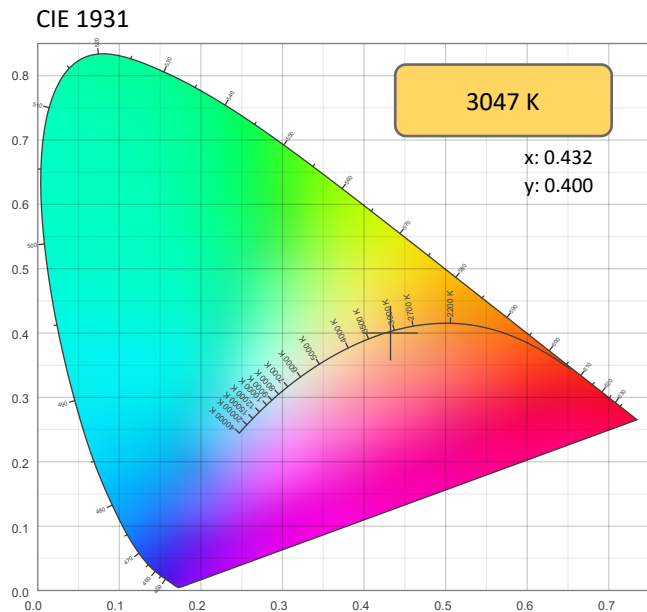
ISO Diagrams



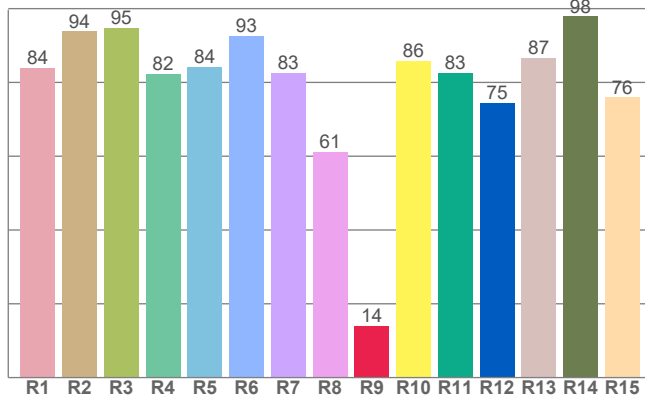
Photometric & Chromaticity Report

Logic GZL: 40X1 Filter - Warm White Only

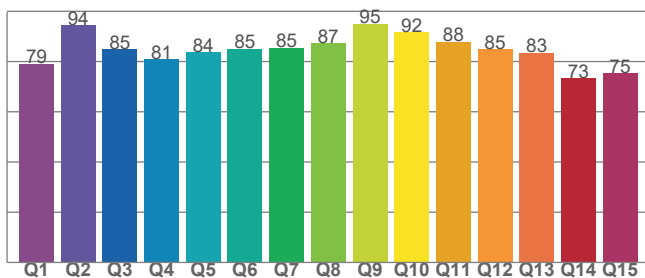
Chromaticity



CRI: 84.4 (R1-R8)



CQS: 83.6



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3047 K	0.432	0.400

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0010	0.400	0.249

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
84.4	14.0	83.6

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
73	85.8	95.1

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Photometric & Chromaticity Report

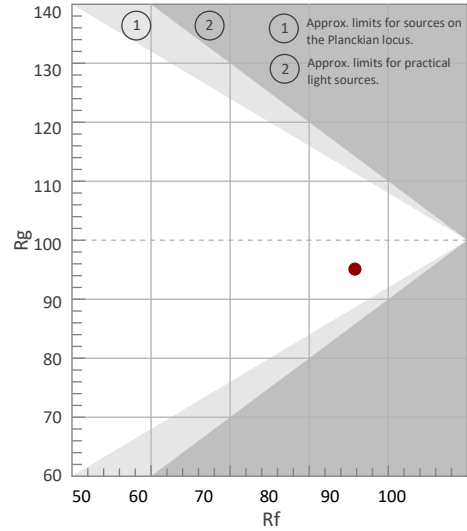
Logic GZL: 40X1 Filter - Warm White Only

TM-30 Details

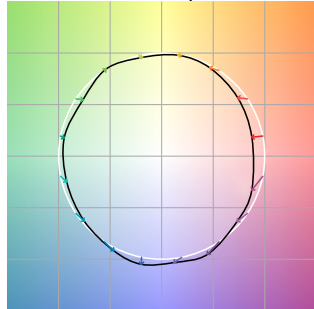
Rf 85.8
Fidelity Index
(Rg)

Rg 95.1
Gammut Index (Rg)

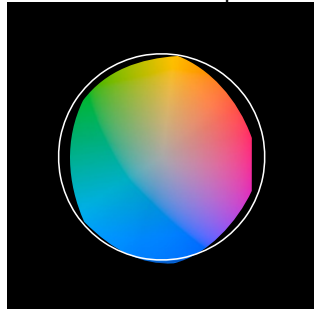
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	81	-11%	1%
2	83	-7%	6%
3	82	-3%	9%
4	92	-1%	4%
5	92	-2%	2%
6	94	0%	-2%
7	88	-6%	-3%
8	93	-4%	1%
9	88	-5%	7%
10	81	-3%	11%
11	83	2%	12%
12	86	7%	1%
13	87	4%	-9%
14	80	4%	-16%
15	80	-4%	-12%
16	78	-8%	-15%



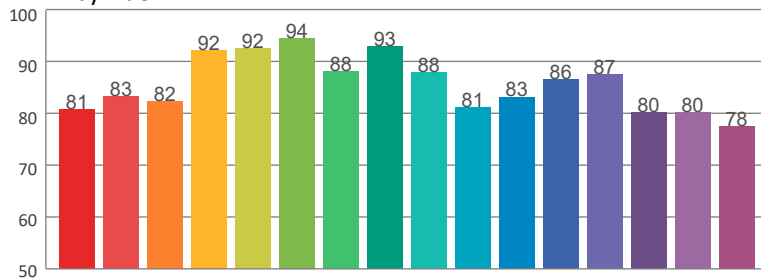
Color Vector Graphic



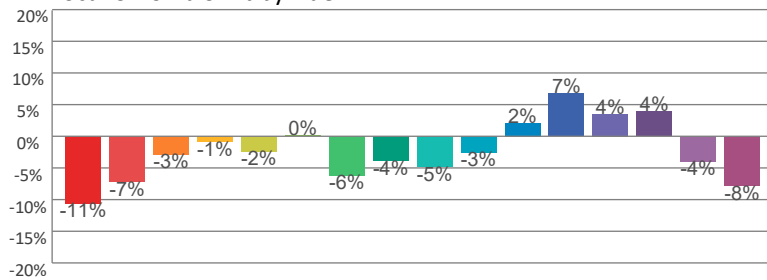
Color Distortion Graphic



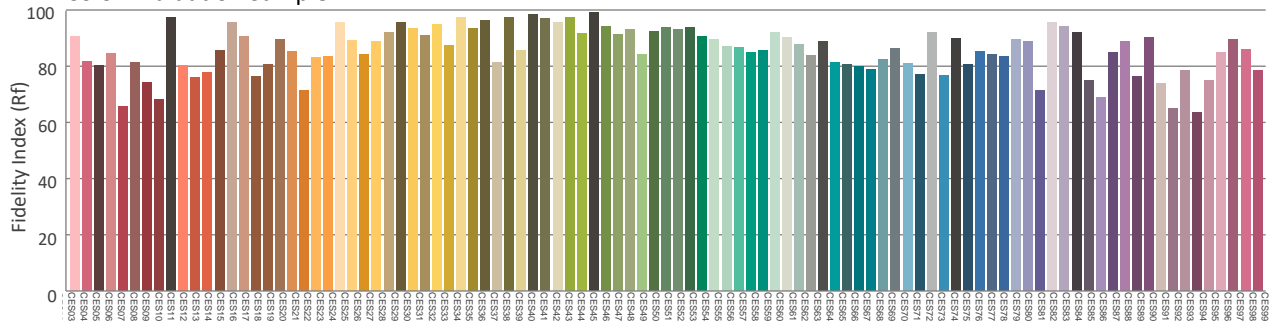
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - RGBW - Full Power

Report Summary

Measurements

Fixture Output: 2291 lm
Fixture Peak: 2703 cd
Fixture Efficacy: 47 lm/W
Intensity @ 5m: 108 lux
Color Temperature: 5456 K
CRI: 69.2 CRI R9 Value: 26.0
CQS: 82.0
TLCI: 79
TM-30 Rf: 73.3
TM-30 Rg: 93.5
Beam Angle (50%): 38.3°
Field Angle (10%): 84.3°
Cutoff Angle (2%): 107.2°

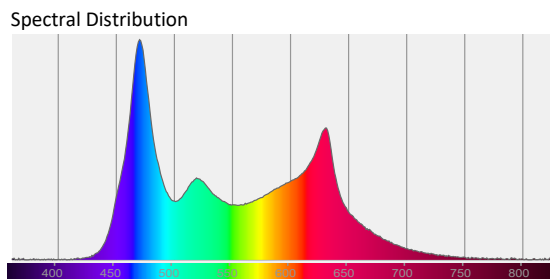
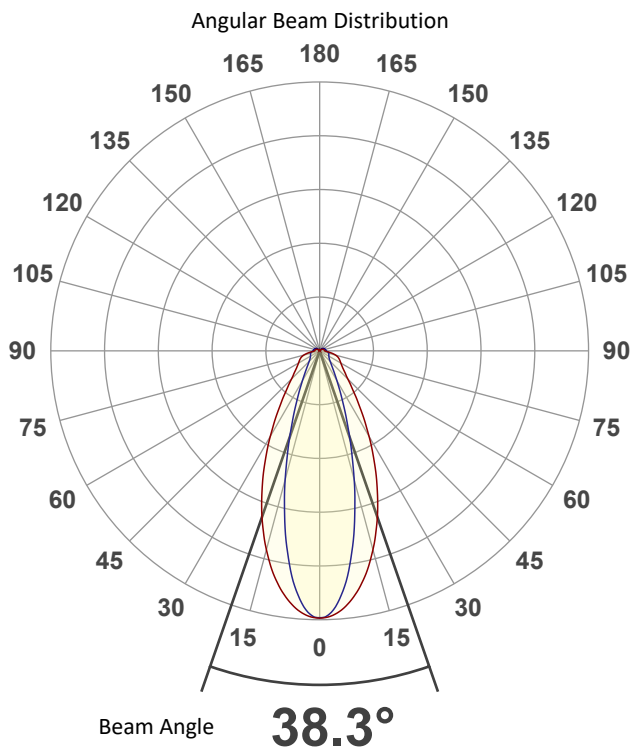
Conditions

AC Supply: 119 V, 60.1 Hz
Power: 51.59 W
Current: 0.434 A
Power Factor: 0.95



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

Overall Measurement



Tested Color (CIE 1931):

X: 0.333

Y: 0.319



Light Quality

CRI: 69.2

Color Temperature

5456 K

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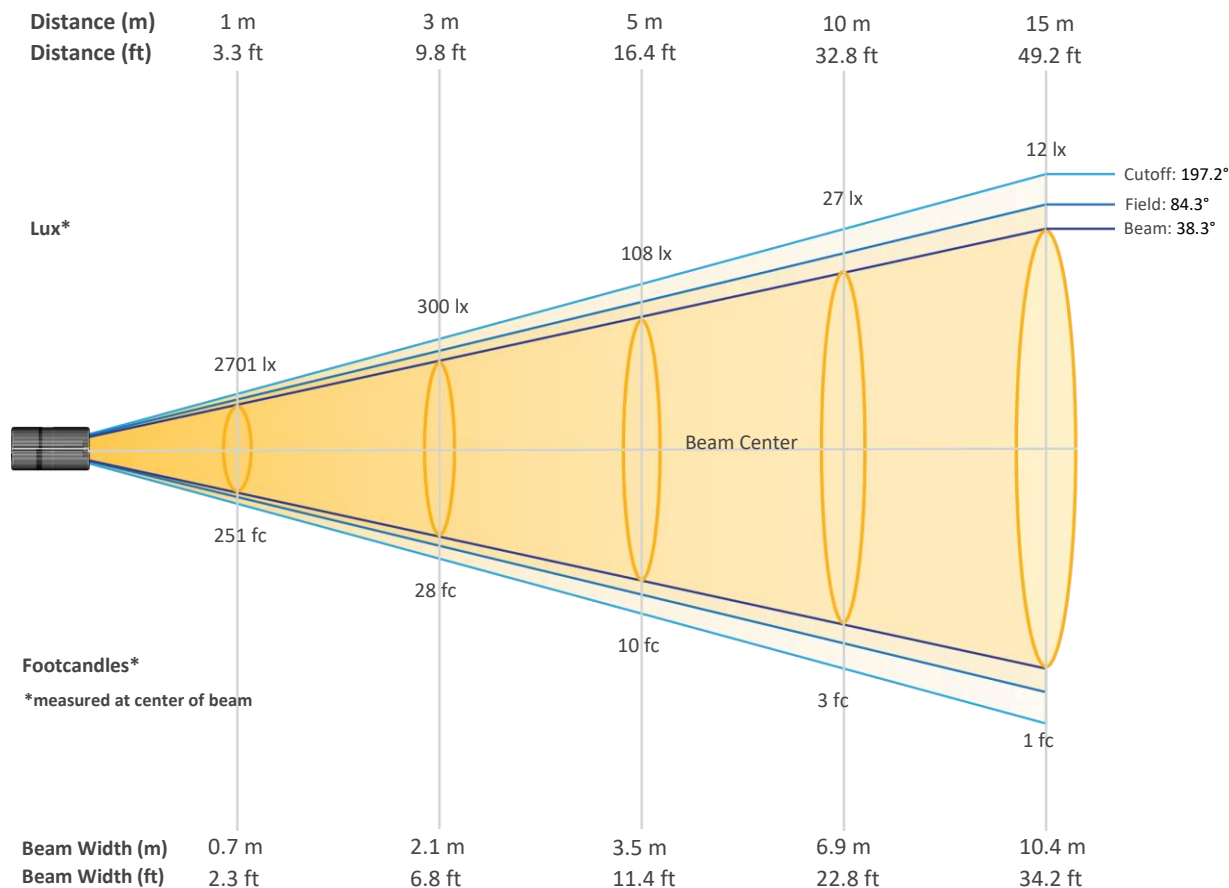
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Photometric & Chromaticity Report

Logic GZL: 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	2701	675	300	169	108	75	55	42	33	27
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	22	19	16	14	12	11	9	8	7	7
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	251	63	28	16	10	7	5	4	3	3
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	2	2	1	1	1	1	1	1	1	1

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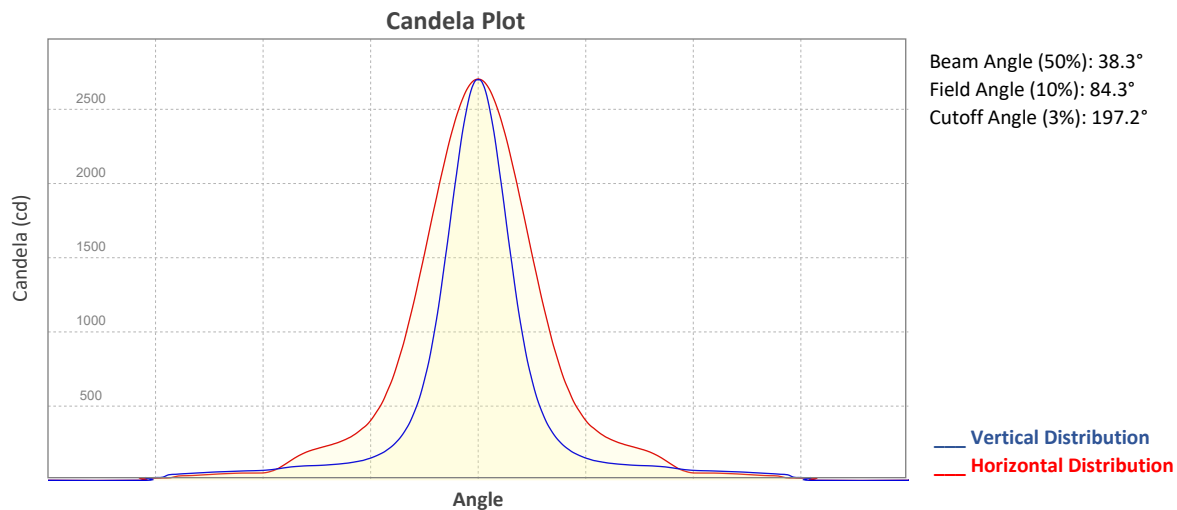
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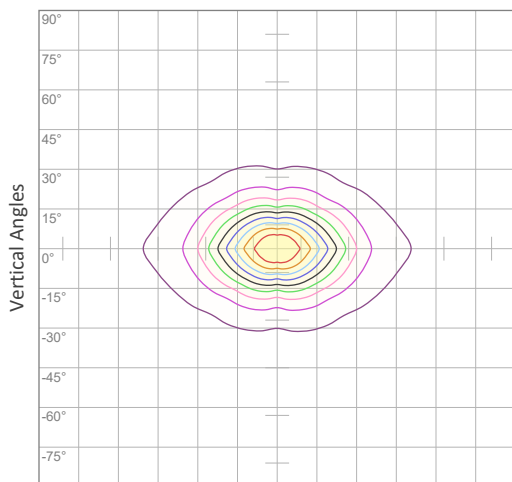
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Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - RGBW - Full Power



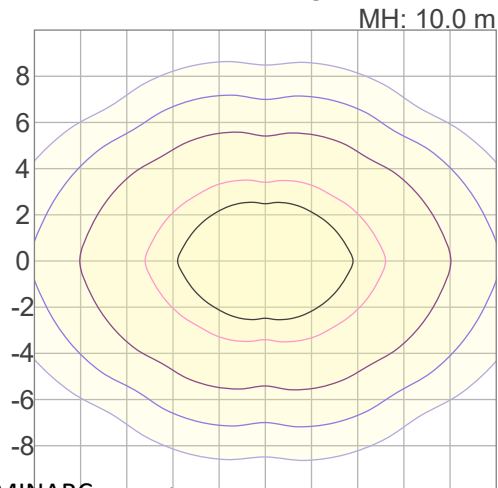
ISO Diagrams



ISO Candela Diagram

10%	270 cd
20%	540 cd
30%	810 cd
40%	1081 cd
50%	1351 cd
60%	1621 cd
70%	1891 cd
80%	2161 cd
90%	2431 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 2701 cd



ISO Lux Diagram

3%	0.810 lx
5%	1.35 lx
10%	2.70 lx
30%	8.10 lx
50%	13.5 lx

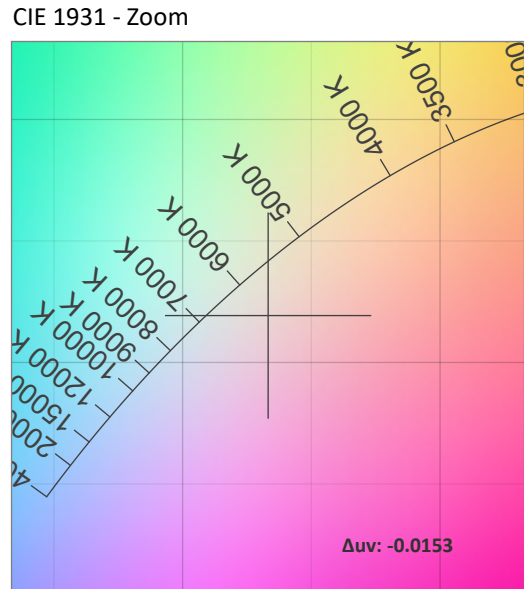
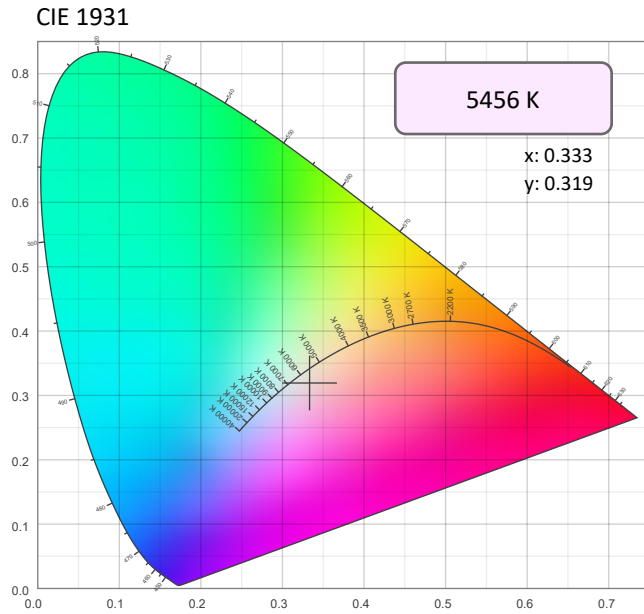
Conditions:
 Number of c-planes: 8
 Candela at center: 27.0 lx

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

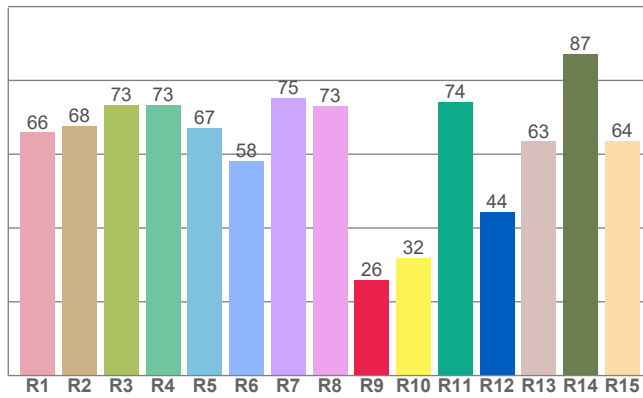
Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - RGBW - Full Power

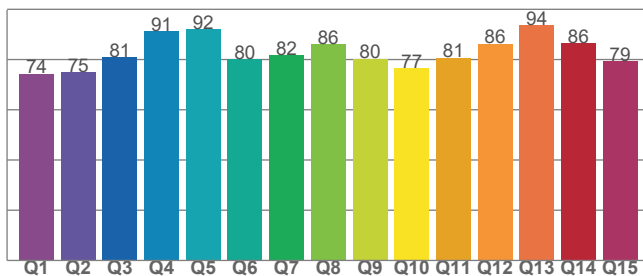
Chromaticity



CRI: 69.2 (R1-R8)



CQS: 82.0



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5456 K	0.333	0.319

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0153	0.319	0.216

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
69.2	26.0	82.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
79	73.3	93.5

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Photometric & Chromaticity Report

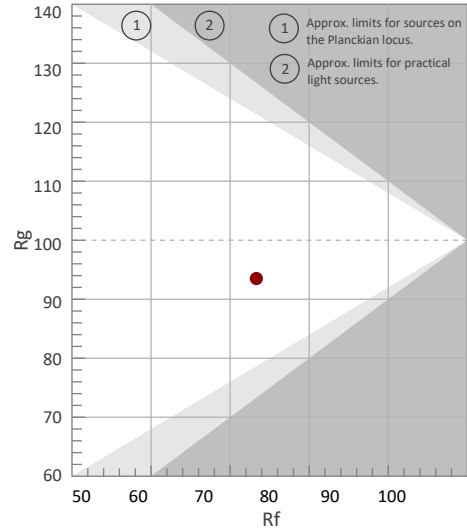
Logic GZL: 60X1 Filter - RGBW - Full Power

TM-30 Details

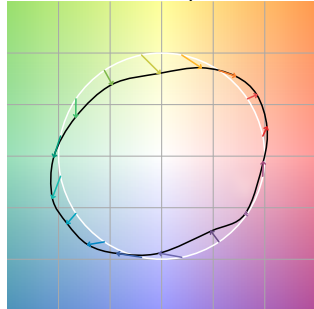
Rf 73.3
Fidelity Index (Rg)

Rg 93.5
Gammut Index (Rg)

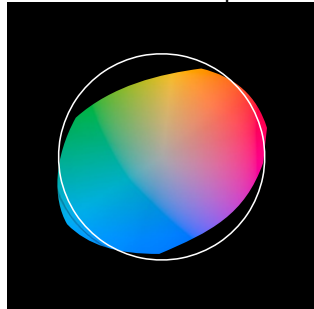
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	78	6%	8%
2	82	10%	-2%
3	71	4%	-16%
4	64	-8%	-21%
5	65	-21%	-14%
6	76	-15%	1%
7	74	-10%	15%
8	65	2%	21%
9	75	12%	19%
10	79	13%	3%
11	72	11%	-12%
12	66	1%	-24%
13	74	-8%	-21%
14	77	-13%	-1%
15	81	-2%	-2%
16	76	-2%	14%



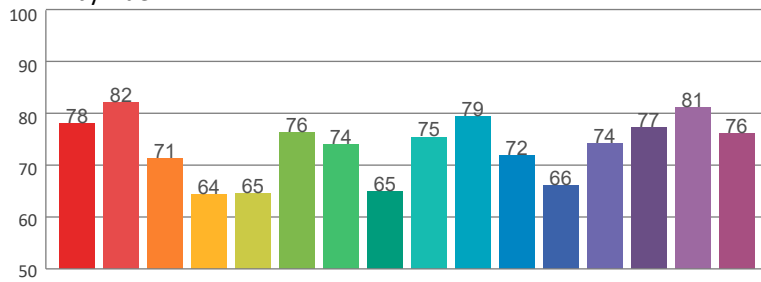
Color Vector Graphic



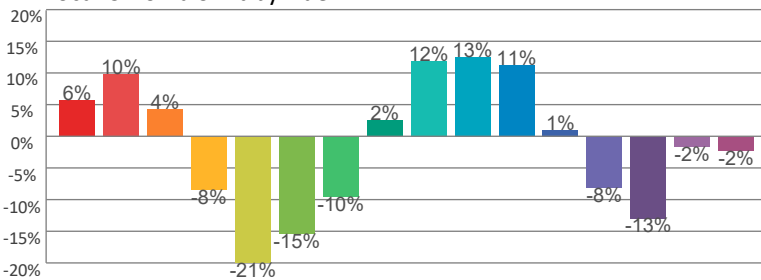
Color Distortion Graphic



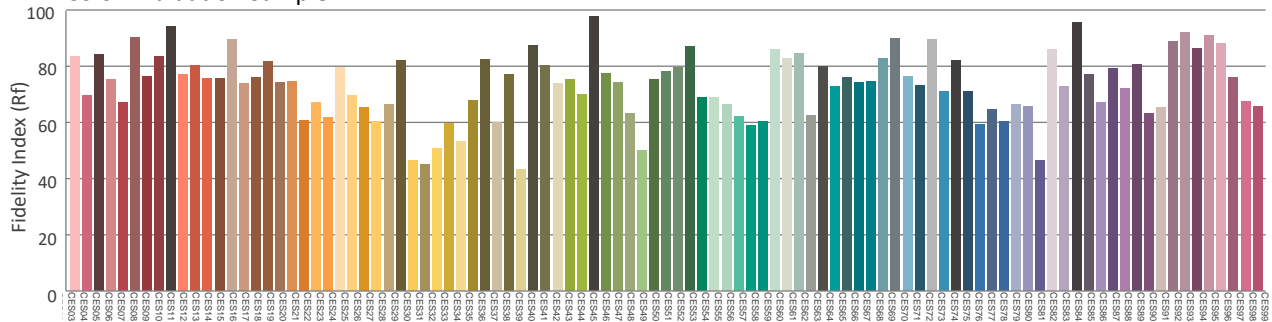
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Red Only

Report Summary

Measurements

Fixture Output: 626 lm

Fixture Peak: 808 cd

Fixture Efficacy: 20 lm/W

Intensity @ 5m: 32 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%): 79.9°

Cutoff Angle (2%): 102°

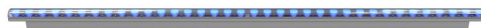
Conditions

AC Supply: 119 V, 60 Hz

Power: 33.16 W

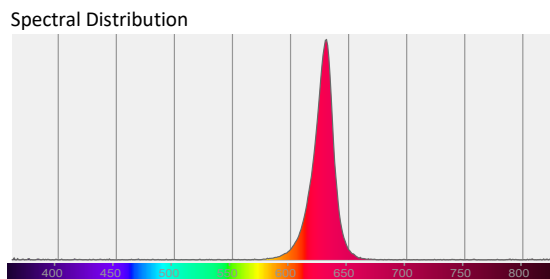
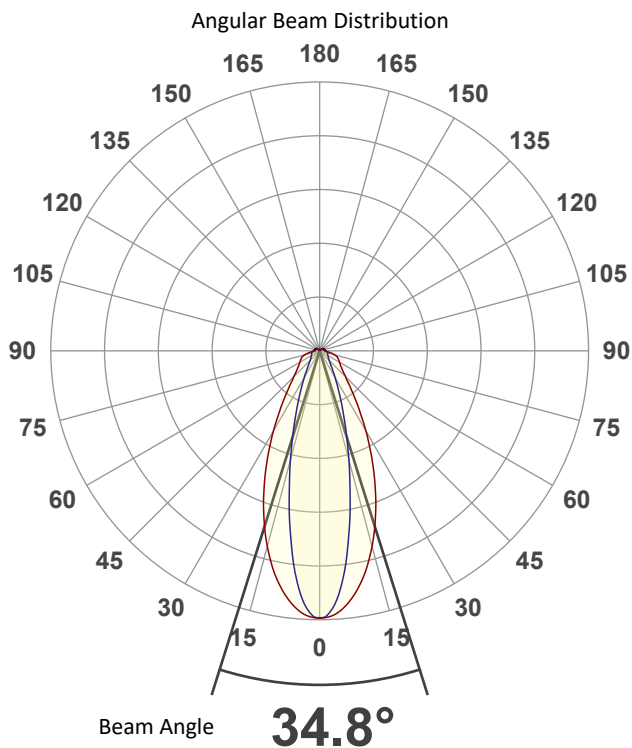
Current: 0.280 A

Power Factor: 0.94



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

Overall Measurement



Tested Color (CIE 1931):

X: 0.691

Y: 0.306



Light Quality

CRI: 0.0

Color Temperature

0 K

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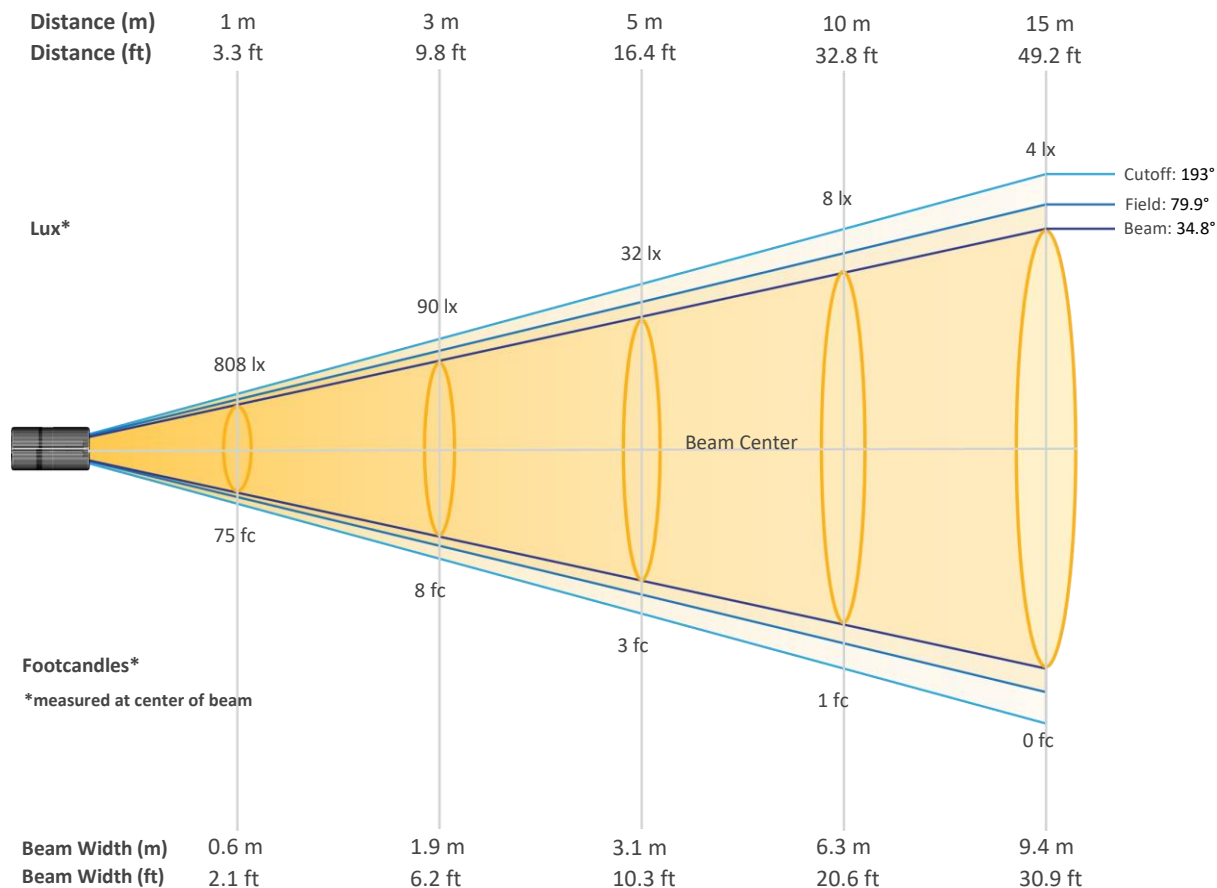
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Photometric & Chromaticity Report

Logic GZL: 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	808	202	90	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	75	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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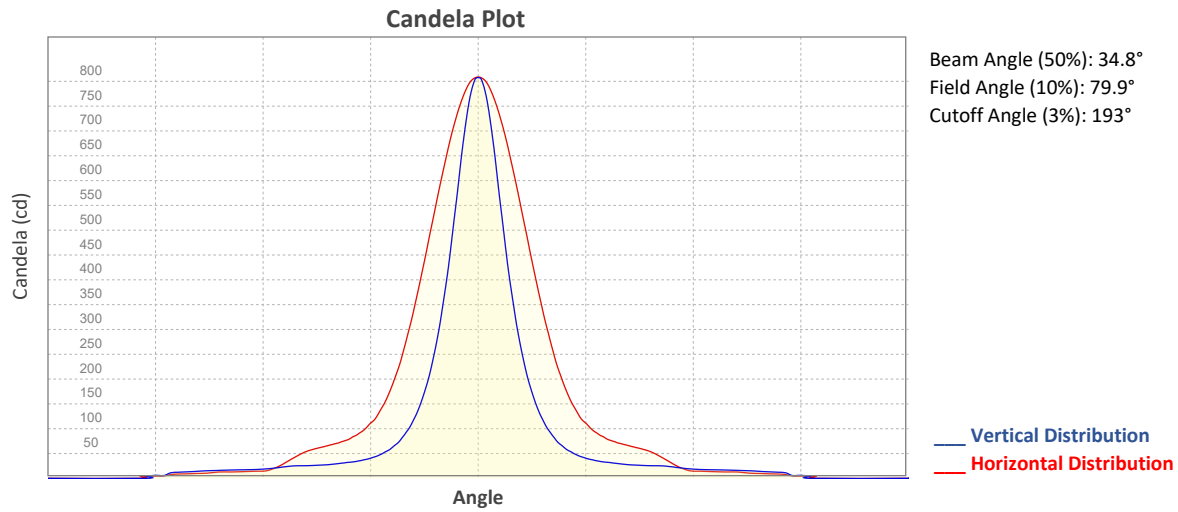
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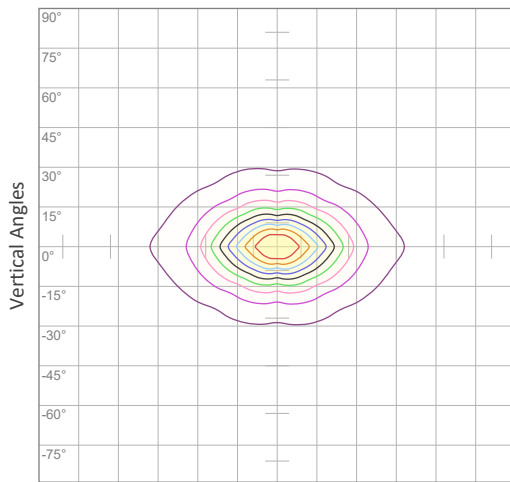
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Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Red Only



ISO Diagrams



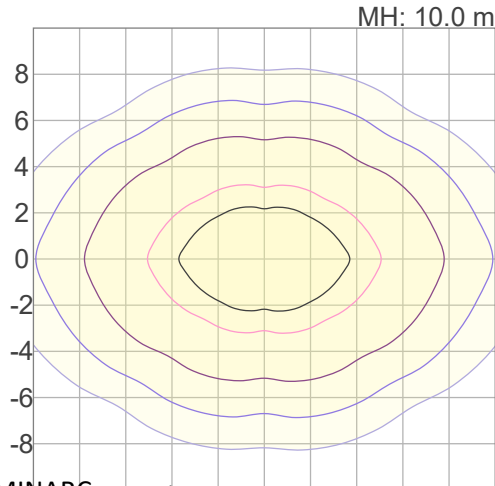
ISO Candela Diagram

10%	81 cd
20%	162 cd
30%	242 cd
40%	323 cd
50%	404 cd
60%	485 cd
70%	566 cd
80%	646 cd
90%	727 cd

Conditions:

Number of c-planes: 8
Candela at center: 808 cd

Horizontal Angles



ISO Lux Diagram

3%	0.242 lx
5%	0.404 lx
10%	0.808 lx
30%	2.42 lx
50%	4.04 lx

Conditions:

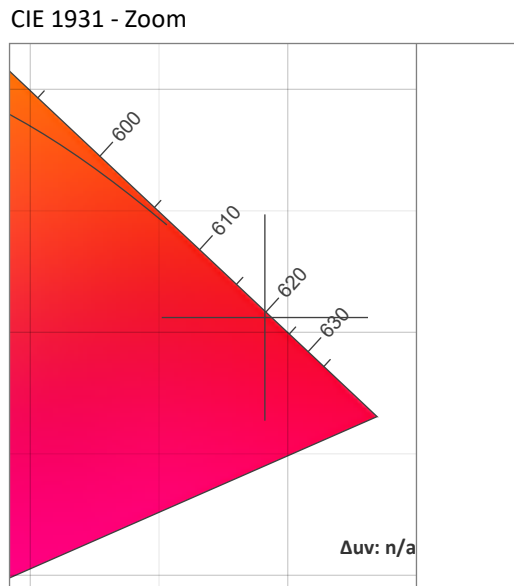
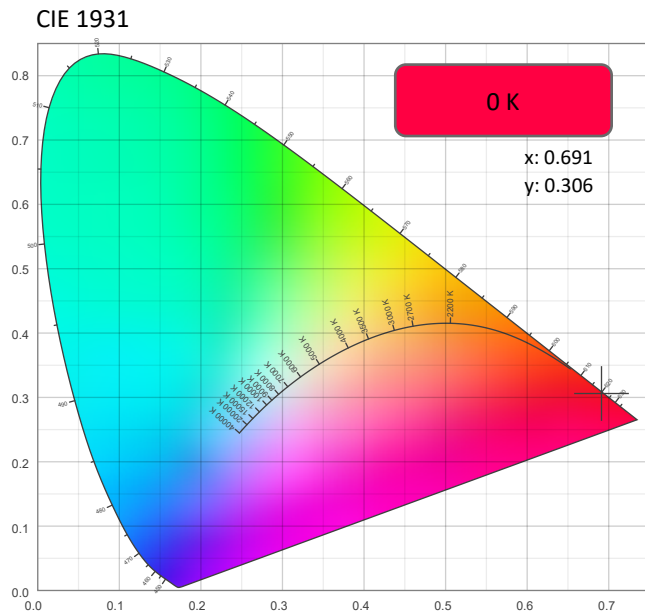
Number of c-planes: 8
Candela at center: 8.08 lx

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

Photometric & Chromaticity Report

Logic GZL: 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	0.691	0.306

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.306	0.523

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

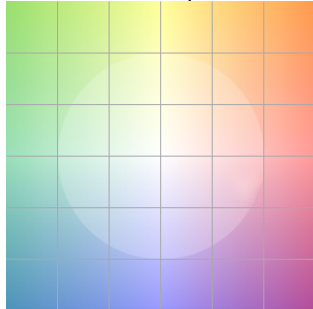
Logic GZL: 60X1 Filter - Red Only

TM-30 Details

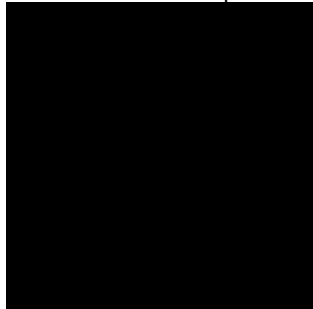
Rf 0.0
Fidelity Index (Rg)

Rg 0.0
Gammut Index (Rg)

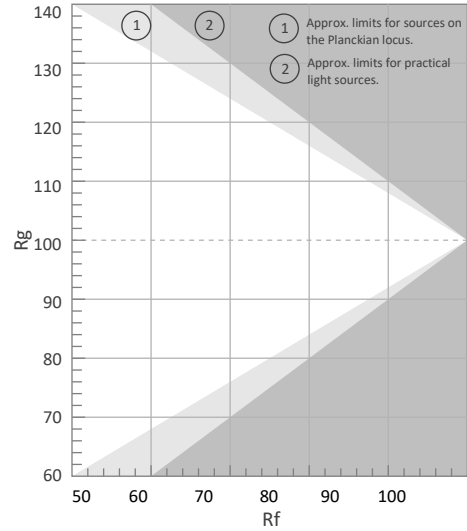
Color Vector Graphic



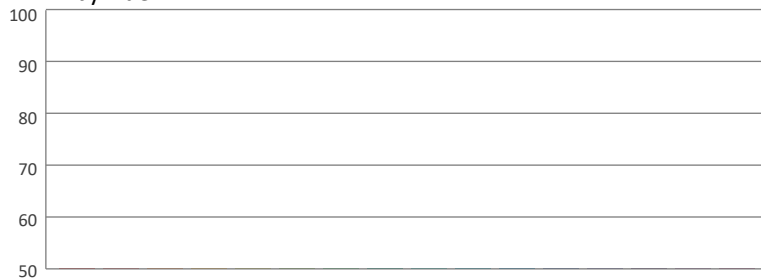
Color Distortion Graphic



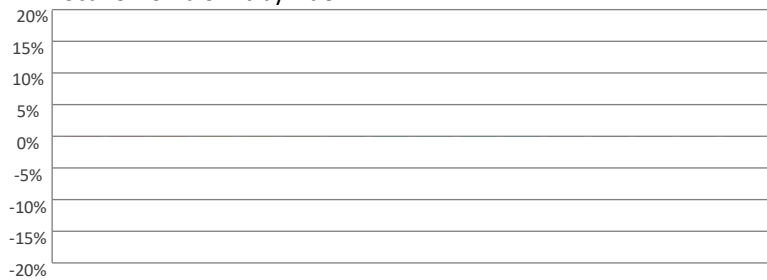
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



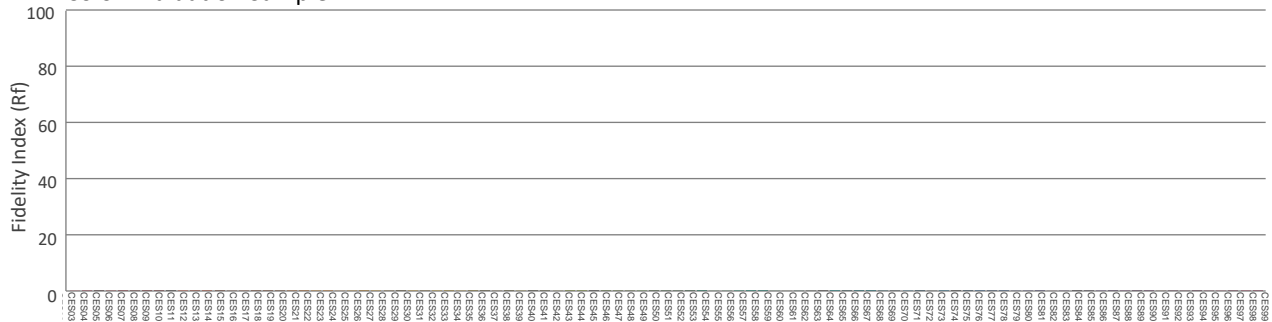
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Green Only

Report Summary

Measurements

Fixture Output: 1192 lm

Fixture Peak: 1506 cd

Fixture Efficacy: 37 lm/W

Intensity @ 5m: 60 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%): 35.7°

Field Angle (10%): 81.1°

Cutoff Angle (2%): 102.1°

Conditions

AC Supply: 118 V, 60 Hz

Power: 33.89 W

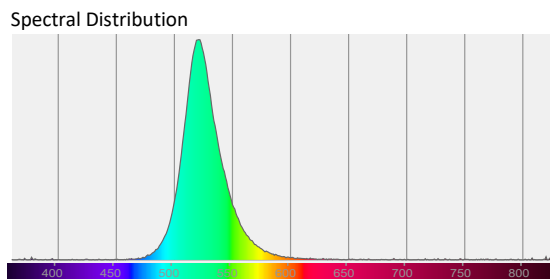
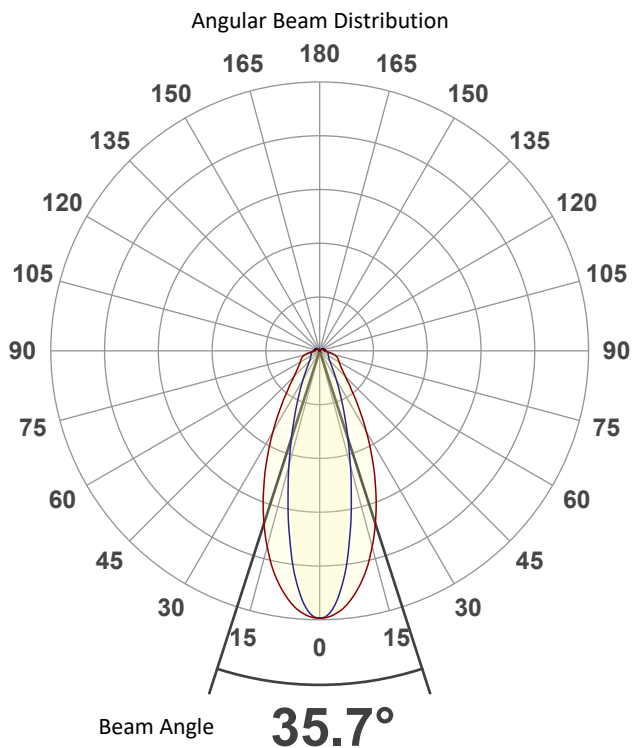
Current: 0.286 A

Power Factor: 0.94



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

Overall Measurement



Tested Color (CIE 1931):

X: 0.173

Y: 0.730



Light Quality

CRI: 0.0

Color Temperature

0 K

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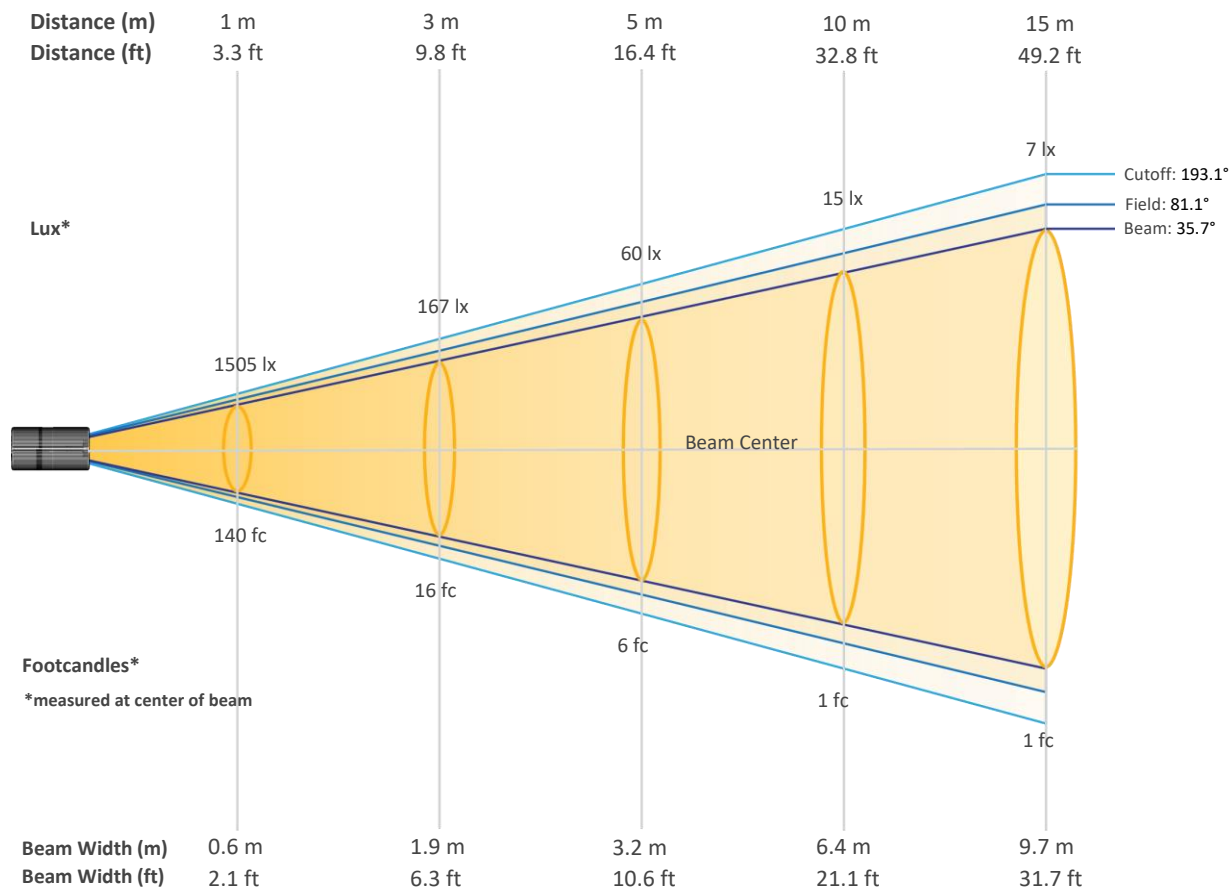
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Photometric & Chromaticity Report

Logic GZL: 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	1505	376	167	94	60	42	31	24	19	15
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	12	10	9	8	7	6	5	5	4	4
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	140	35	16	9	6	4	3	2	2	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	1	0	0	0	0

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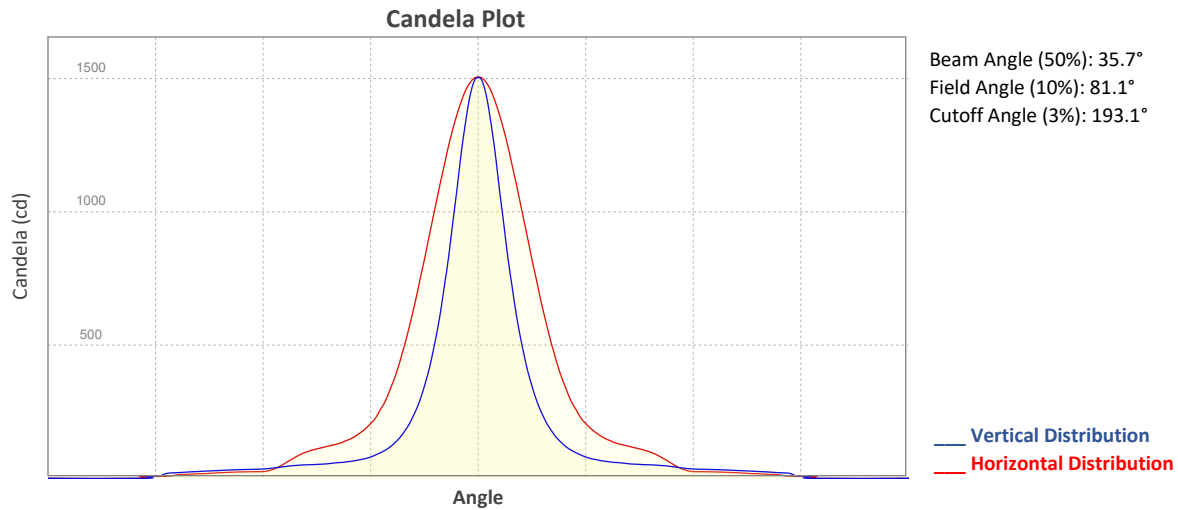
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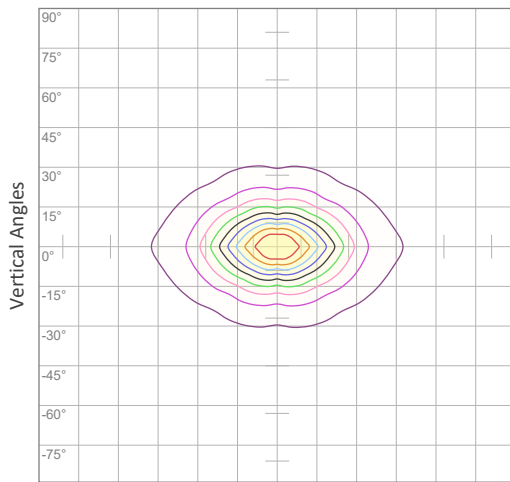
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Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Green Only



ISO Diagrams



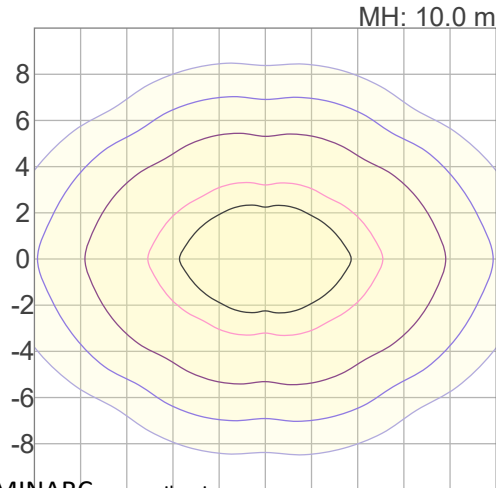
ISO Candela Diagram

10%	150 cd
20%	301 cd
30%	451 cd
40%	602 cd
50%	752 cd
60%	903 cd
70%	1053 cd
80%	1204 cd
90%	1354 cd

Conditions:

Number of c-planes: 8
Candela at center: 1500 cd

Horizontal Angles



ISO Lux Diagram

3%	0.451 lx
5%	0.752 lx
10%	1.50 lx
30%	4.51 lx
50%	7.52 lx

Conditions:

Number of c-planes: 8
Candela at center: 15.0 lx

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

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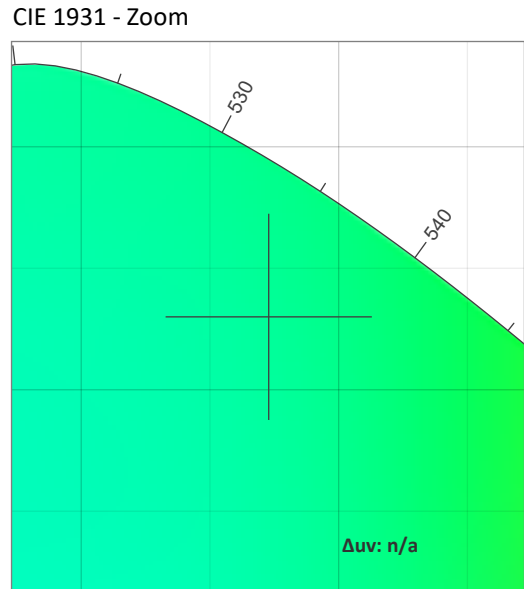
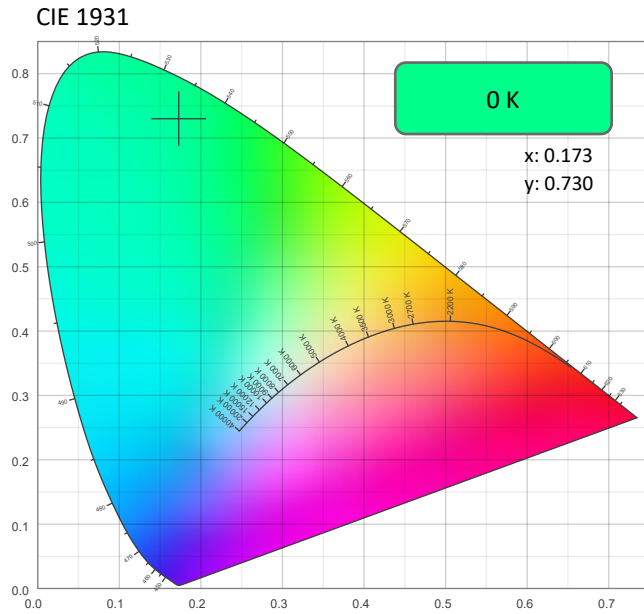
Mounting height: 10 meters / 33 feet

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Photometric & Chromaticity Report

Logic GZL: 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	0.173	0.730

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.730	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

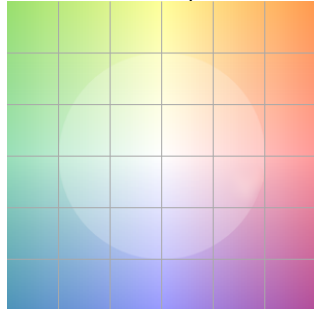
Logic GZL: 60X1 Filter - Green Only

TM-30 Details

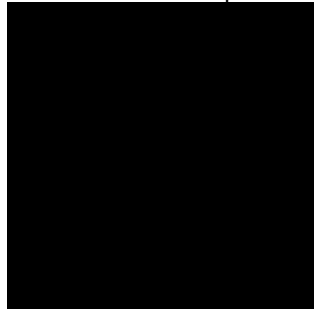
Rf 0.0
Fidelity Index
(Rg)

Rg 0.0
Gammut Index (Rg)

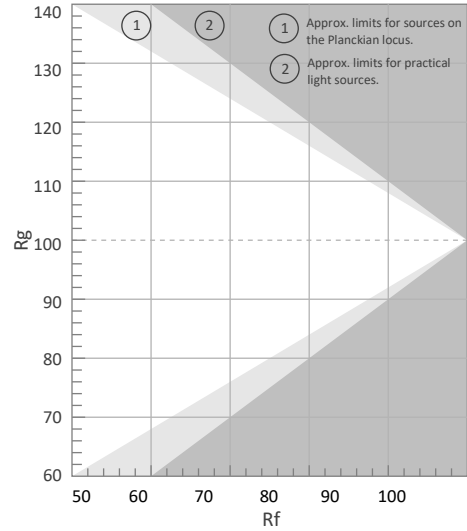
Color Vector Graphic



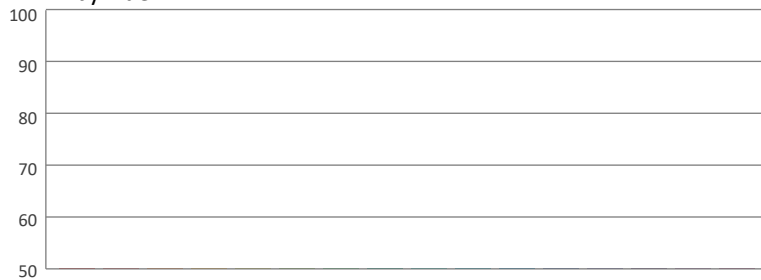
Color Distortion Graphic



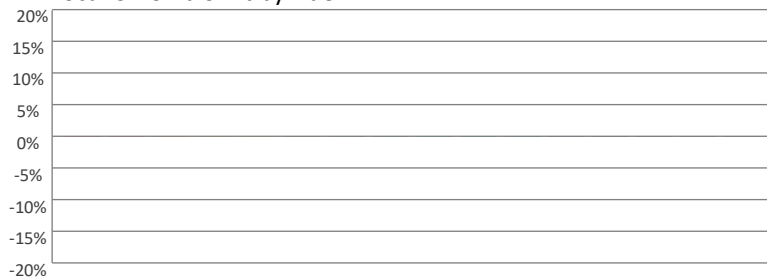
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
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14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



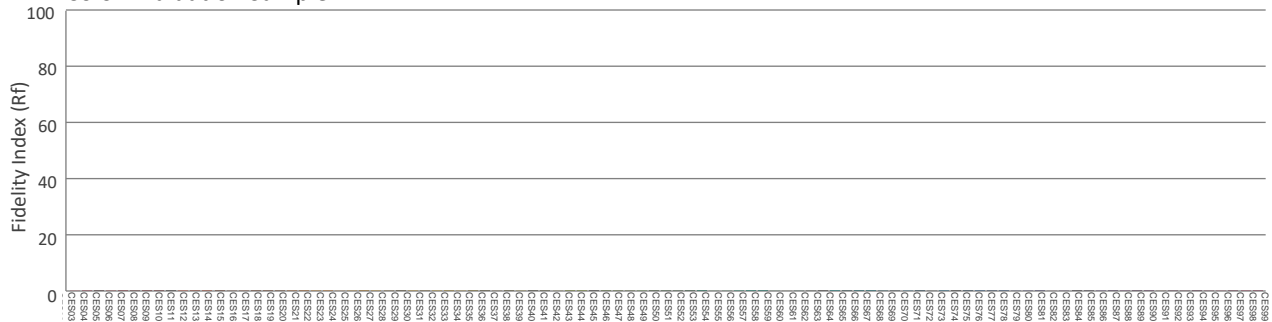
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Blue Only

Report Summary

Measurements

Fixture Output: 449 lm

Fixture Peak: 489 cd

Fixture Efficacy: 14 lm/W

Intensity @ 5m: 20 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%): 39.6°

Field Angle (10%): 87.8°

Cutoff Angle (2%): 211.7°

Conditions

AC Supply: 119 V, 60 Hz

Power: 35.22 W

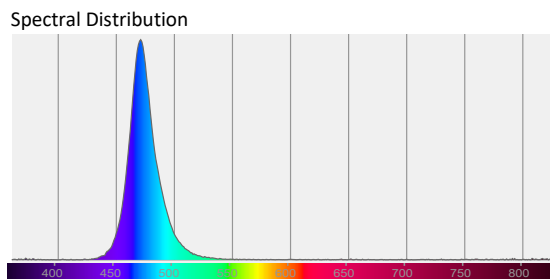
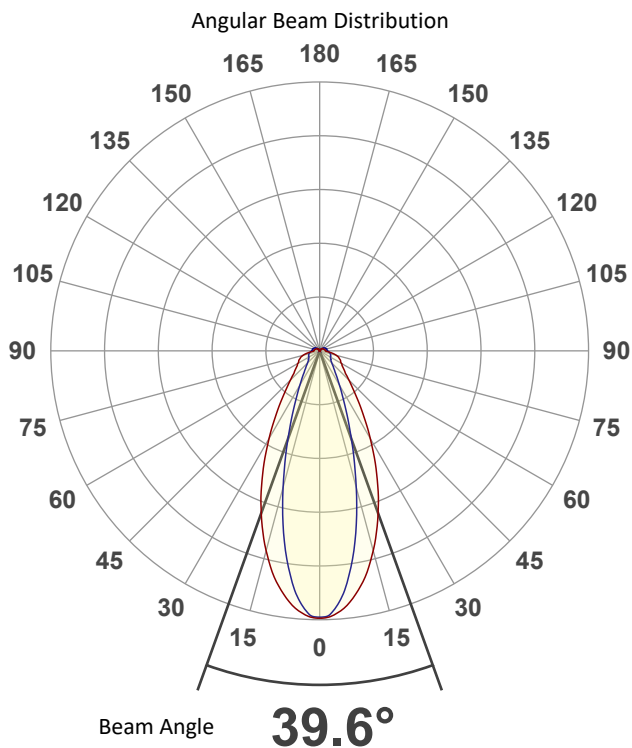
Current: 0.297 A

Power Factor: 0.94



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

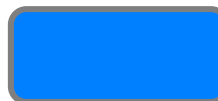
Overall Measurement



Tested Color (CIE 1931):

X: 0.121

Y: 0.096



Light Quality

CRI: 0.0

Color Temperature

0 K

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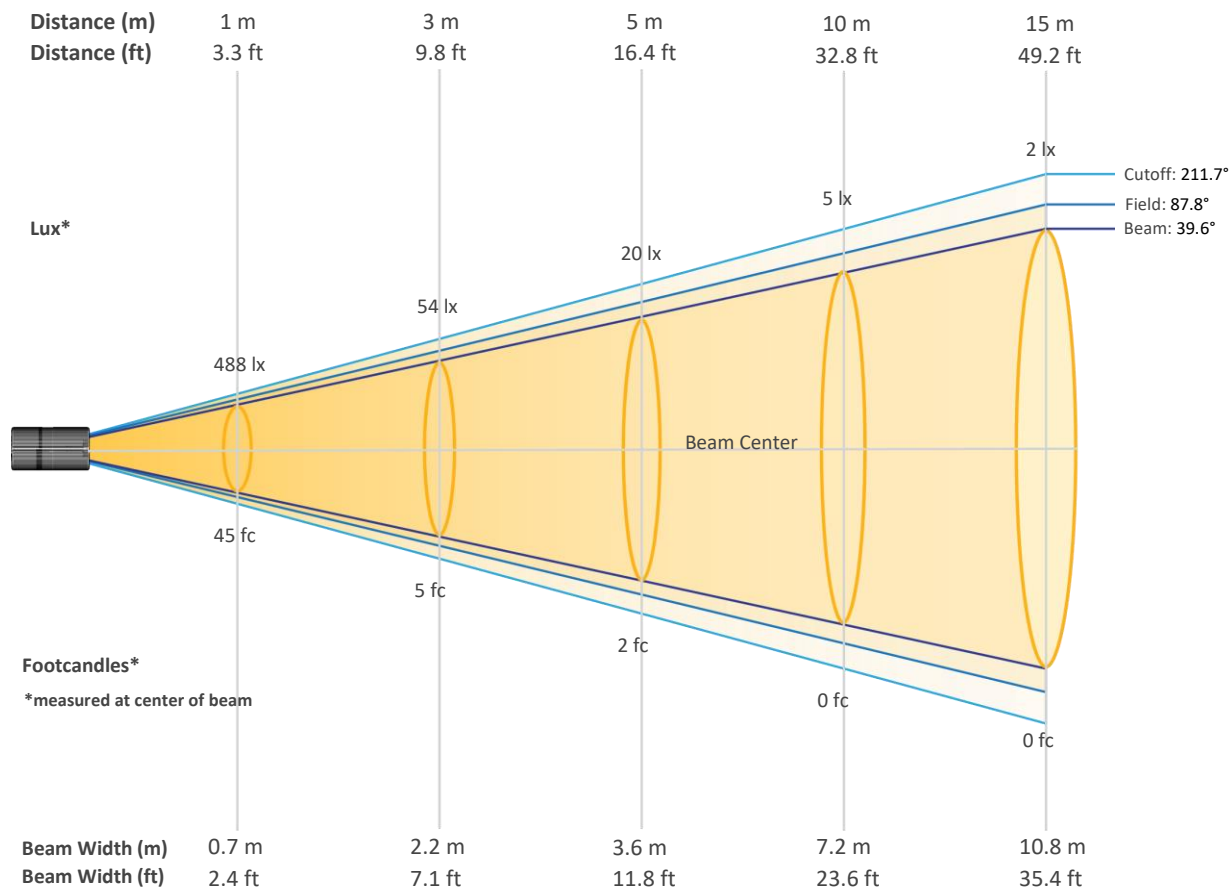
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Photometric & Chromaticity Report

Logic GZL: 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	488	122	54	30	20	14	10	8	6	5
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	4	3	3	2	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	45	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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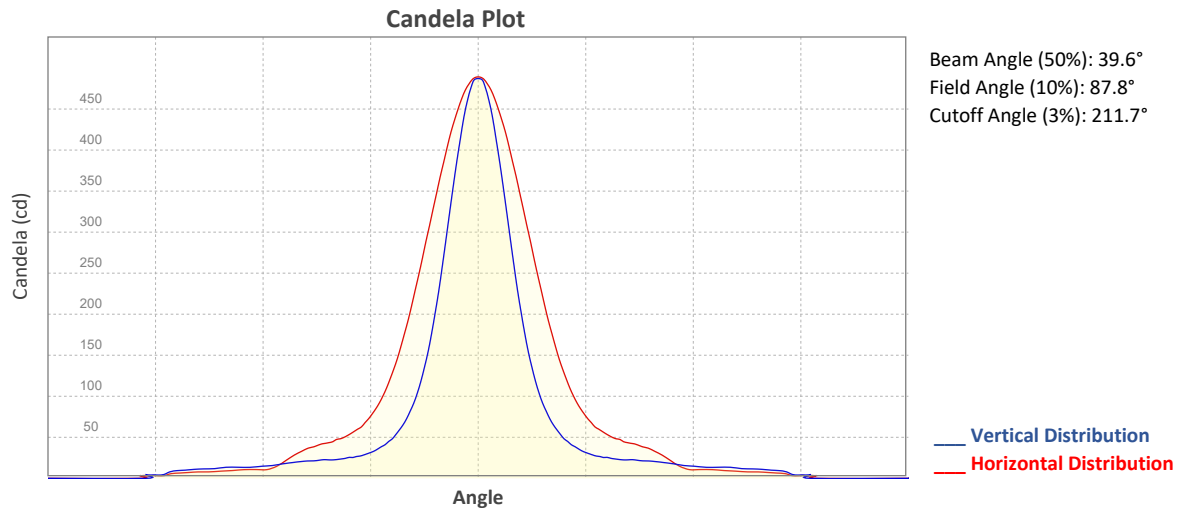
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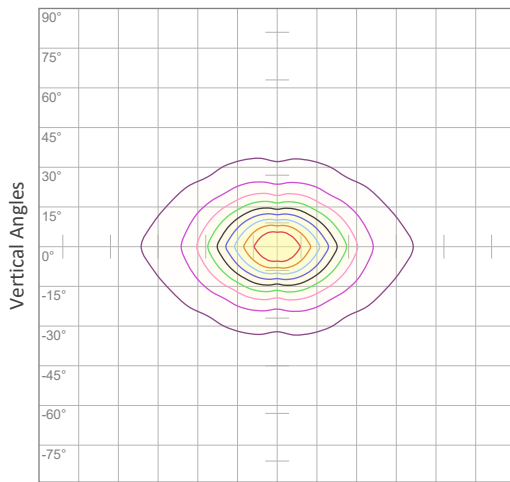
ILUMINARC

Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Blue Only



ISO Diagrams

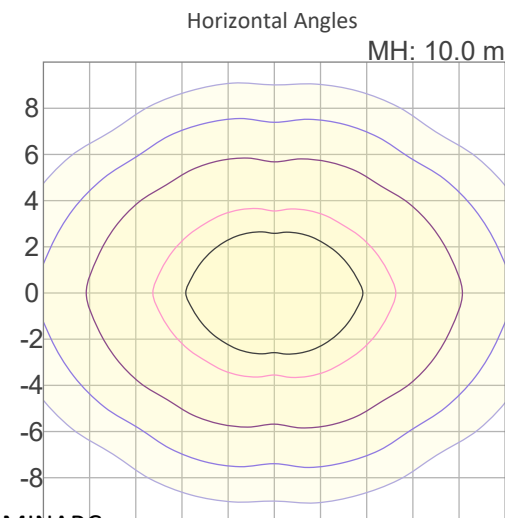


ISO Candela Diagram

10%	49 cd
20%	98 cd
30%	146 cd
40%	195 cd
50%	244 cd
60%	293 cd
70%	341 cd
80%	390 cd
90%	439 cd

Conditions:

Number of c-planes: 8
Candela at center: 488 cd



ISO Lux Diagram

3%	0.146 lx
5%	0.244 lx
10%	0.488 lx
30%	1.46 lx
50%	2.44 lx

Conditions:

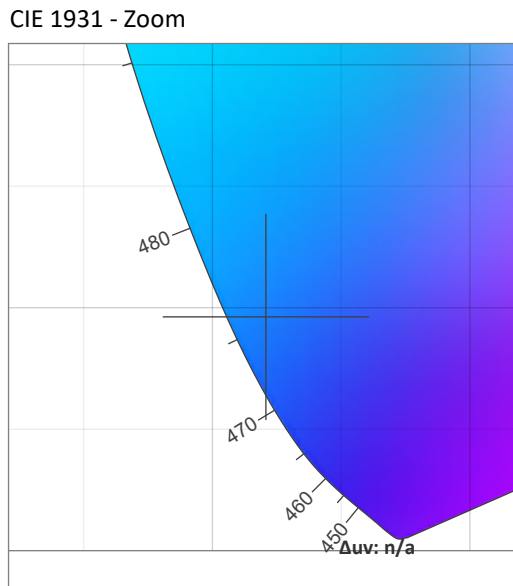
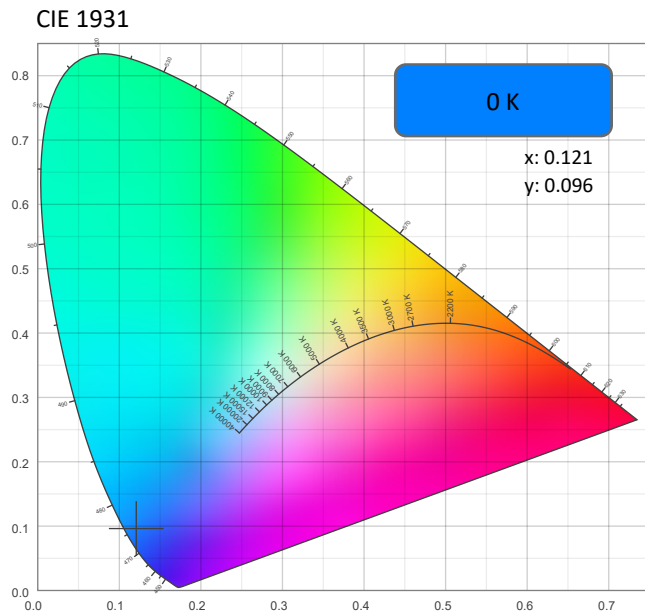
Number of c-planes: 8
Candela at center: 4.88 lx

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

Photometric & Chromaticity Report

Logic GZL: 60X1 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	0.121	0.096

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.096	0.123

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

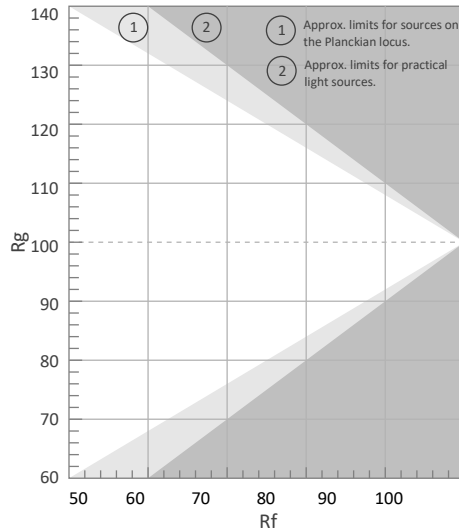
Logic GZL: 60X1 Filter - Blue Only

TM-30 Details

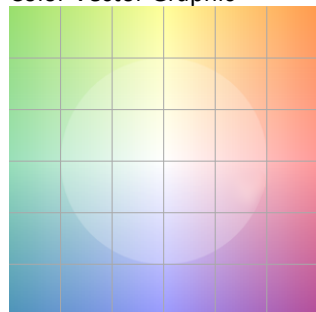
Rf 0.0
Fidelity Index (Rg)

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%



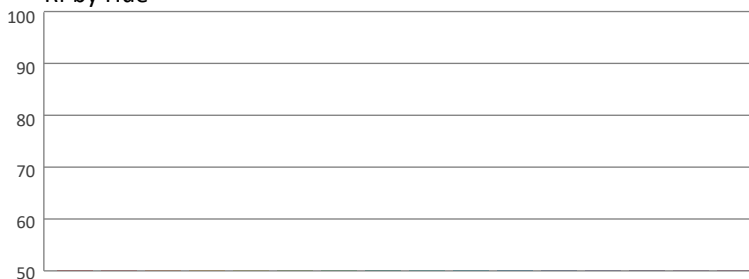
Color Vector Graphic



Color Distortion Graphic



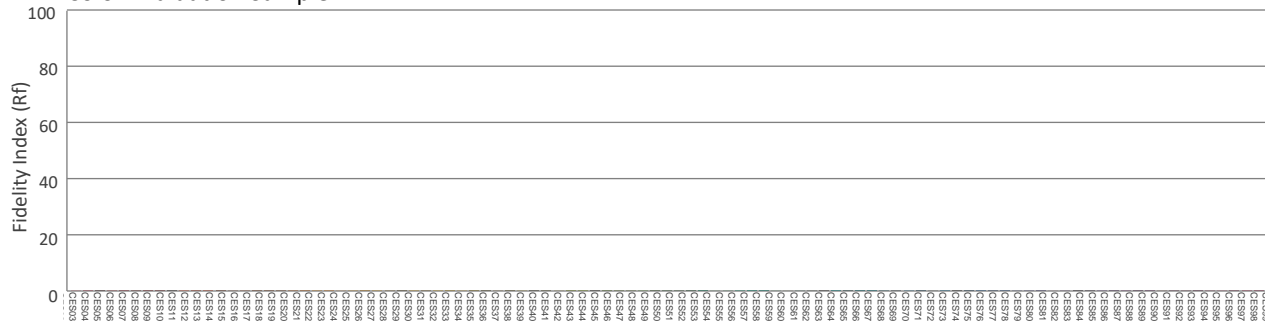
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Warm White Only

Report Summary

Measurements

Fixture Output: 1895 lm
Fixture Peak: 2209 cd
Fixture Efficacy: 57 lm/W
Intensity @ 5m: 88 lux
Color Temperature: 3045 K
CRI: 84.7 CRI R9 Value: 15.0
CQS: 83.8
TLCI: 73
TM-30 Rf: 85.9
TM-30 Rg: 95.2
Beam Angle (50%): 38.9°
Field Angle (10%): 84.9°
Cutoff Angle (2%): 107.5°

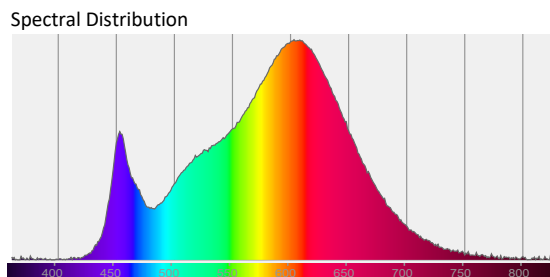
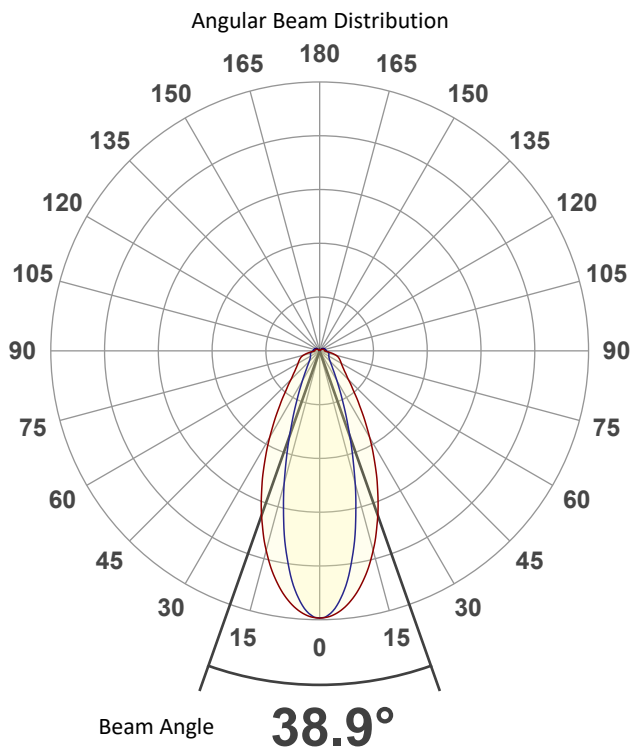
Conditions

AC Supply: 119 V, 60 Hz
Power: 35.24 W
Current: 0.296 A
Power Factor: 0.94



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

Overall Measurement



Tested Color (CIE 1931):
X: 0.433
Y: 0.400

Light Quality
CRI: 84.7

Color Temperature
3045 K

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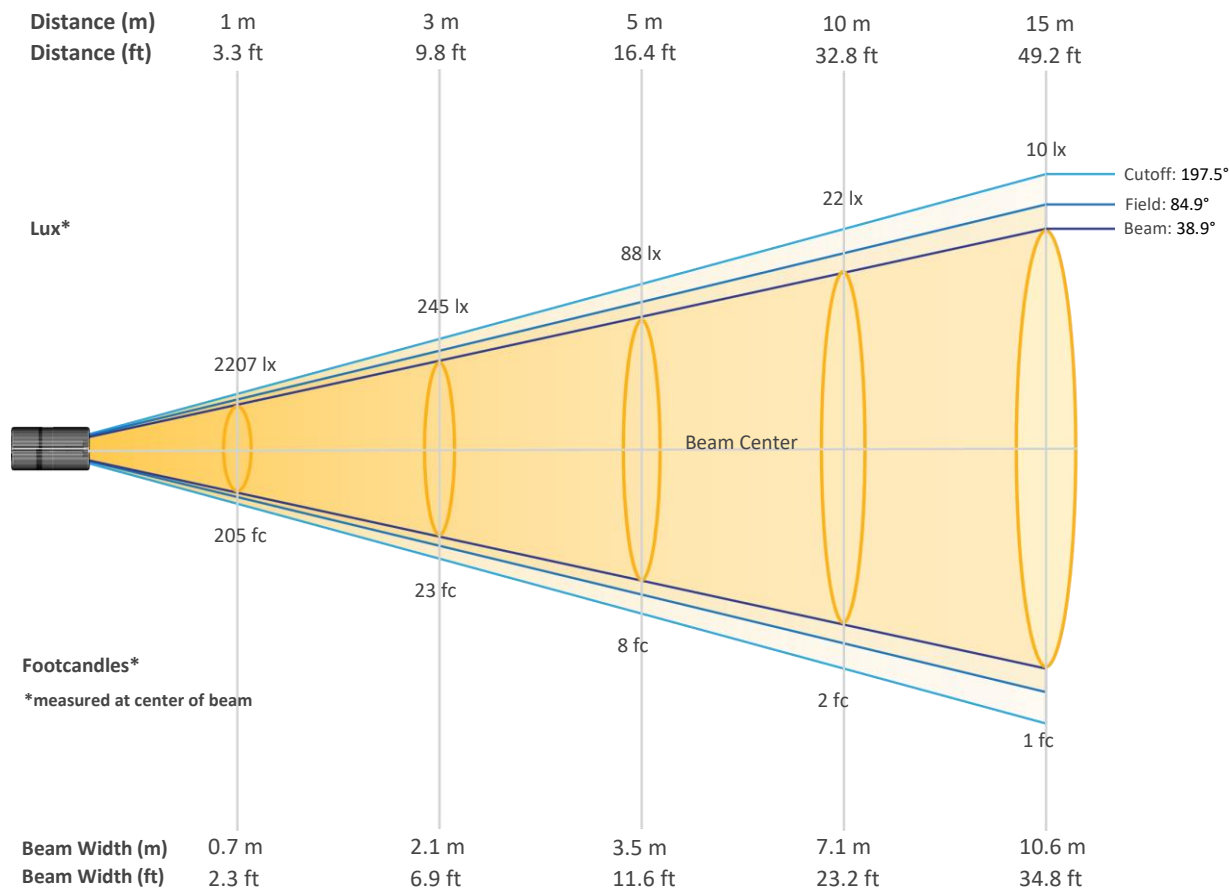
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Photometric & Chromaticity Report

Logic GZL: 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	2207	552	245	138	88	61	45	34	27	22
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	18	15	13	11	10	9	8	7	6	6
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	205	51	23	13	8	6	4	3	3	2
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	2	1	1	1	1	1	1	1	1	1

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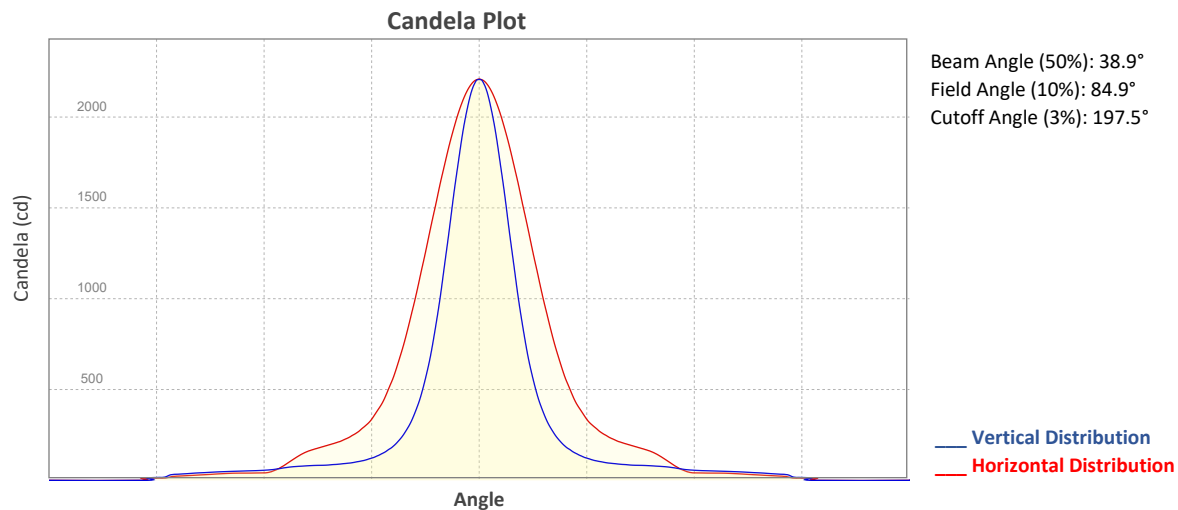
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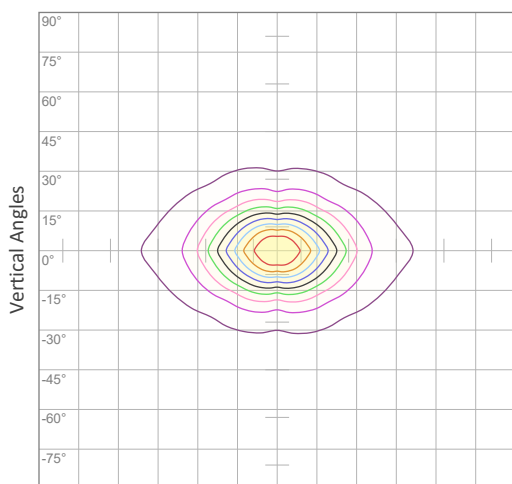
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Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Warm White Only



ISO Diagrams

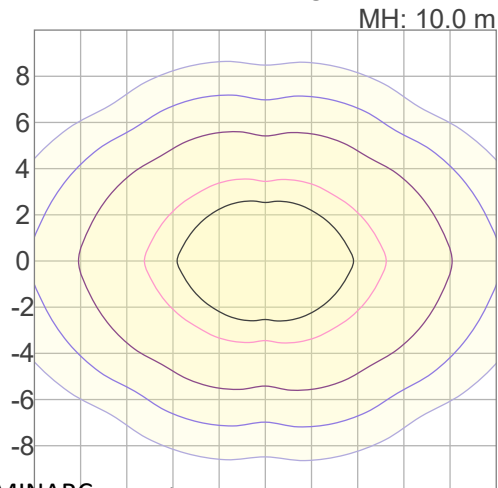


ISO Candela Diagram

10%	221 cd
20%	441 cd
30%	662 cd
40%	883 cd
50%	1103 cd
60%	1324 cd
70%	1545 cd
80%	1766 cd
90%	1986 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 2207 cd

Horizontal Angles



ISO Lux Diagram

3%	0.662 lx
5%	1.10 lx
10%	2.21 lx
30%	6.62 lx
50%	11.0 lx

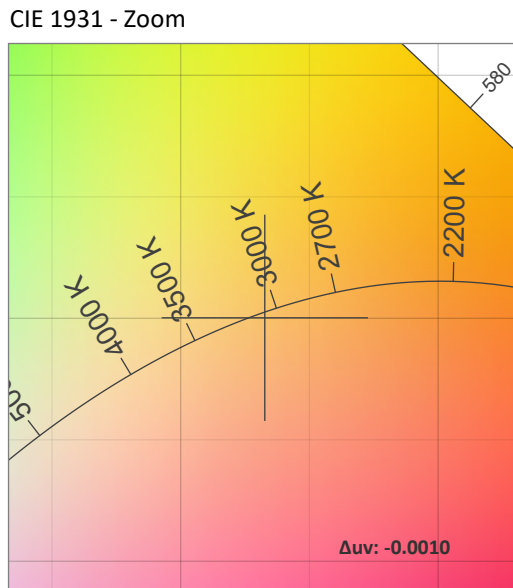
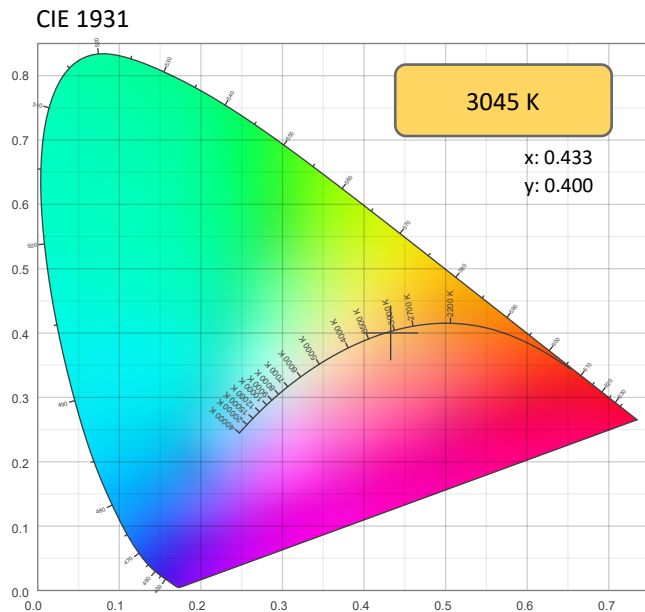
Conditions:
 Number of c-planes: 8
 Candela at center: 22.1 lx

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

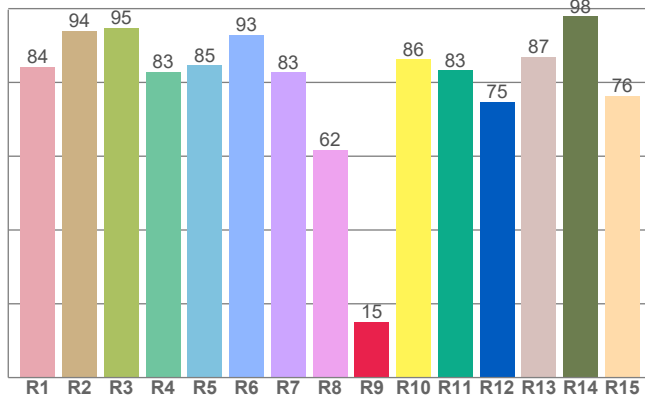
Photometric & Chromaticity Report

Logic GZL: 60X1 Filter - Warm White Only

Chromaticity



CRI: 84.7 (R1-R8)

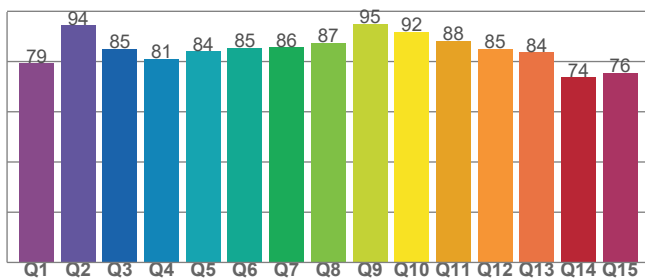


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3045 K	0.433	0.400

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0010	0.400	0.249

CQS: 83.8



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
84.7	15.0	83.8

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
73	85.9	95.2

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Photometric & Chromaticity Report

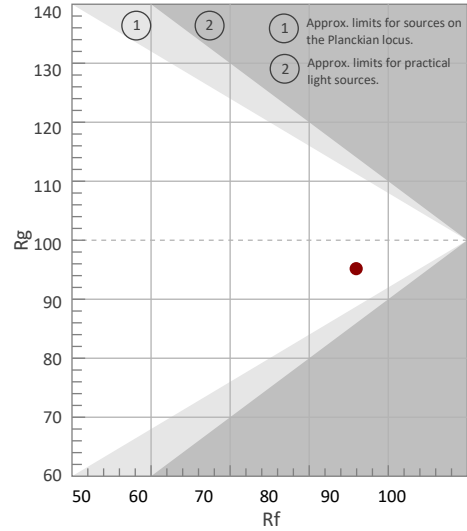
Logic GZL: 60X1 Filter - Warm White Only

TM-30 Details

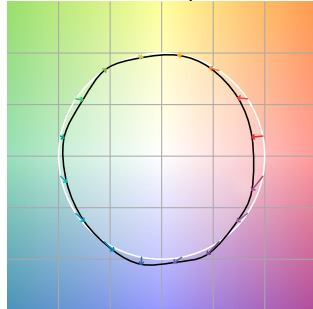
Rf 85.9
Fidelity Index (Rg)

Rg 95.2
Gammut Index (Rg)

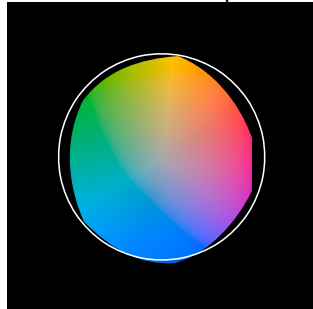
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	81	-11%	1%
2	83	-7%	6%
3	83	-3%	9%
4	92	-1%	3%
5	92	-3%	2%
6	95	0%	-2%
7	88	-6%	-3%
8	93	-4%	1%
9	88	-5%	7%
10	81	-2%	10%
11	83	2%	12%
12	87	7%	1%
13	87	3%	-9%
14	80	4%	-16%
15	80	-4%	-12%
16	78	-8%	-15%



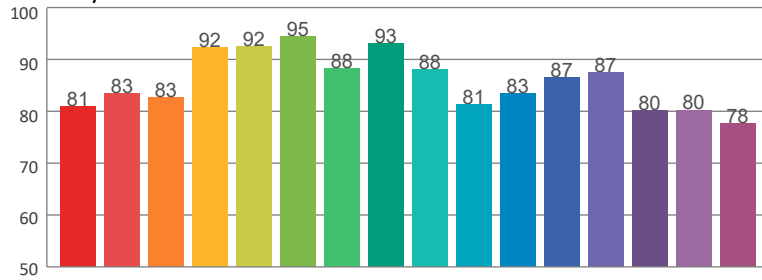
Color Vector Graphic



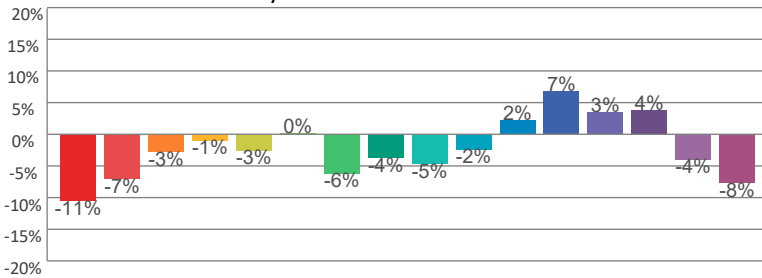
Color Distortion Graphic



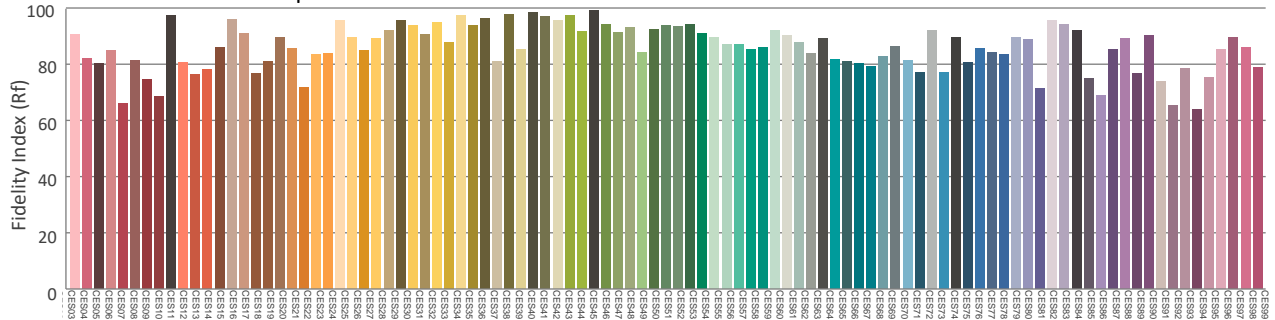
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - RGBW - Full Power

Report Summary

Measurements

Fixture Output: 2186 lm
Fixture Peak: 1572 cd
Fixture Efficacy: 44 lm/W
Intensity @ 5m: 63 lux
Color Temperature: 5531 K
CRI: 69.3 CRI R9 Value: 25.0
CQS: 81.7
TLCI: 79
TM-30 Rf: 73.2
TM-30 Rg: 93.4
Beam Angle (50%): 62.3°
Field Angle (10%): 118.2°
Cutoff Angle (2%): 221.4°

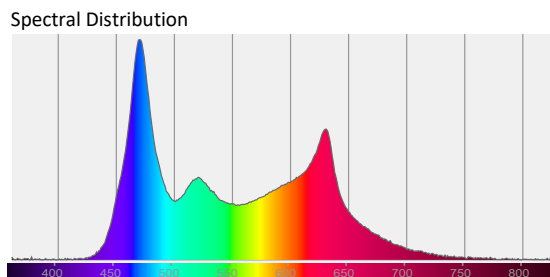
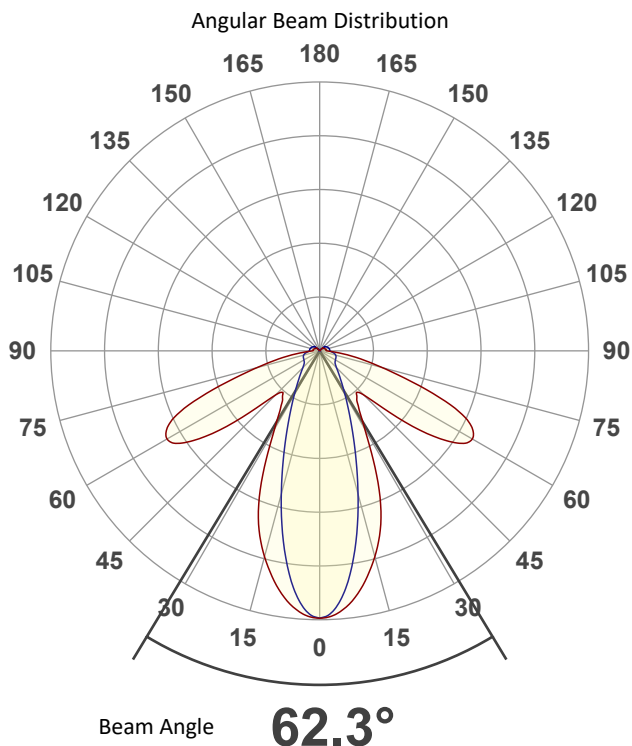
Conditions

AC Supply: 120 V, 60 Hz
Power: 52.31 W
Current: 0.435 A
Power Factor: 0.95



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

Overall Measurement



Tested Color (CIE 1931):

X: 0.332

Y: 0.319



Light Quality

CRI: 69.3

Color Temperature

5531 K

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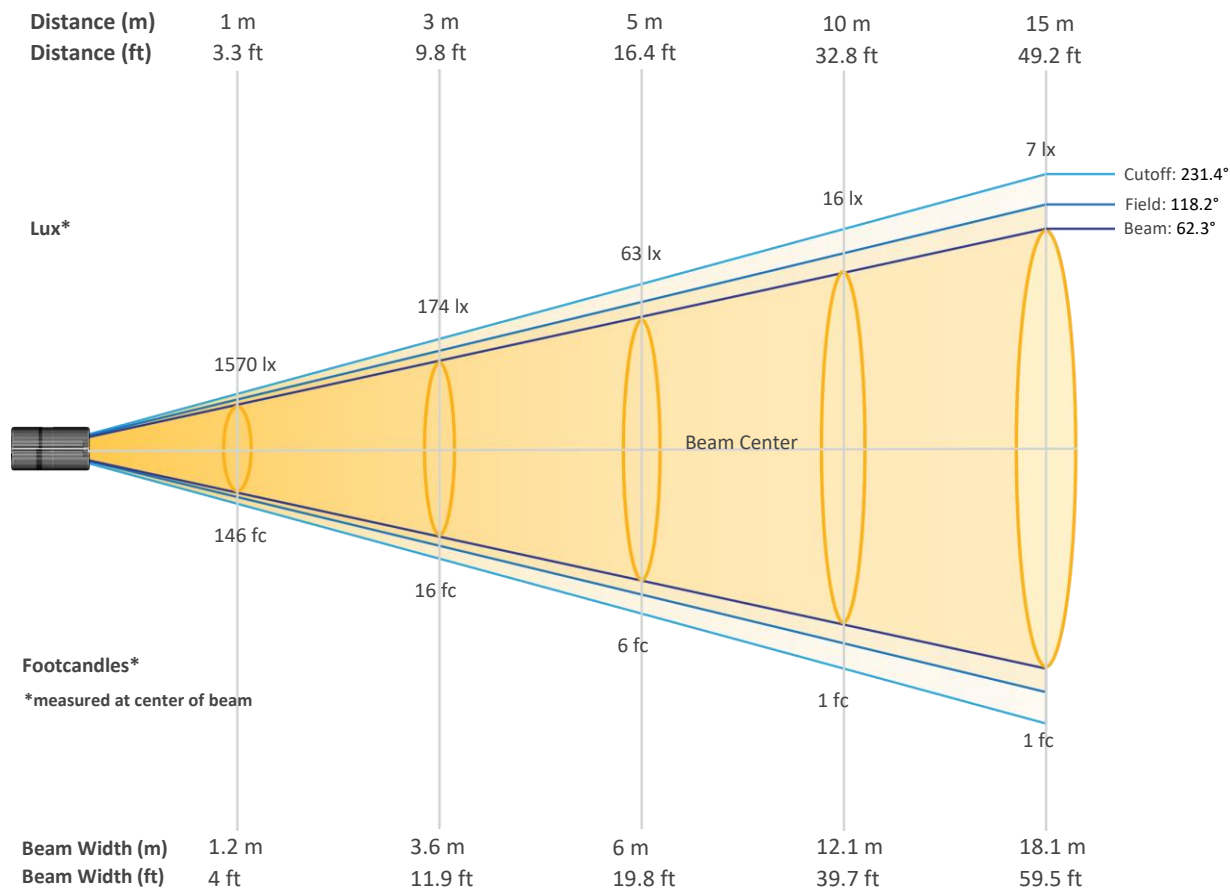
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Photometric & Chromaticity Report

Logic GZL: 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	1570	393	174	98	63	44	32	25	19	16
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	13	11	9	8	7	6	5	5	4	4
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	146	36	16	9	6	4	3	2	2	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	1	1	0	0	0

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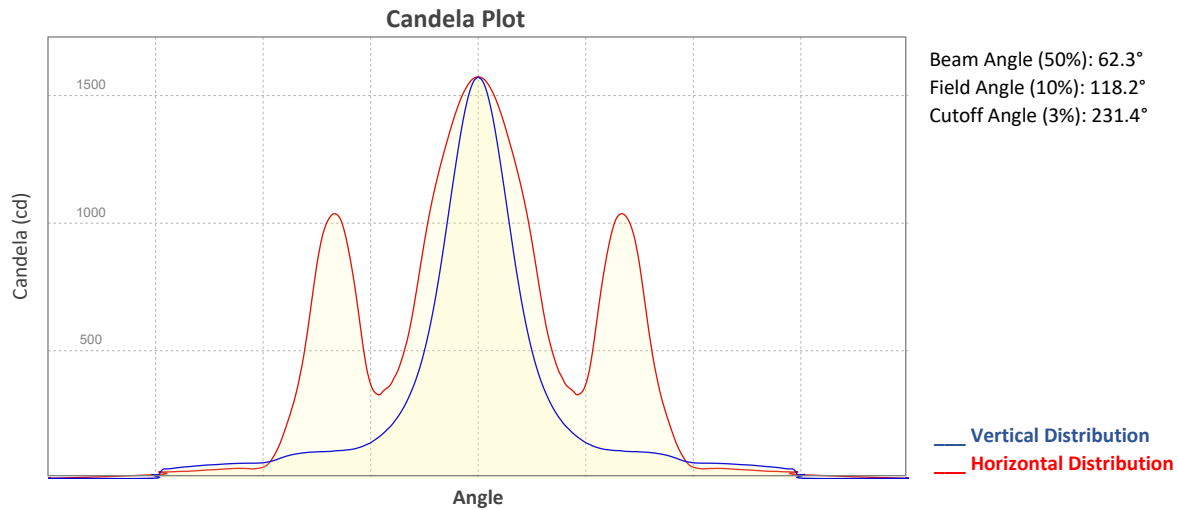
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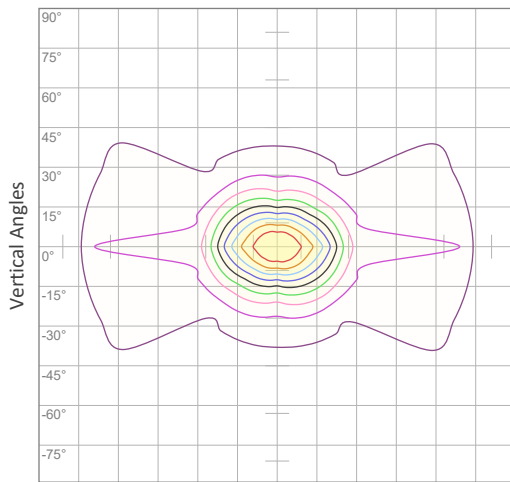
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Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - RGBW - Full Power



ISO Diagrams

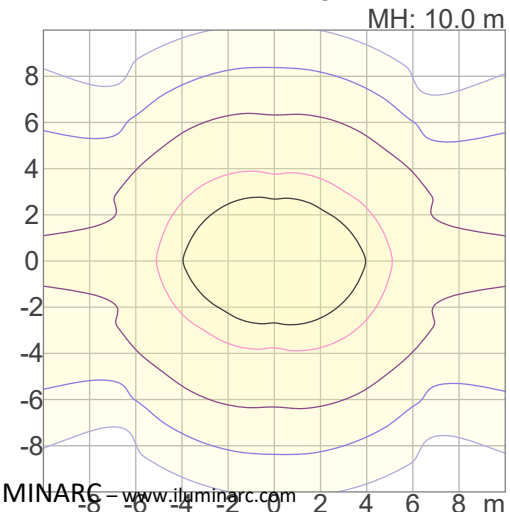


ISO Candela Diagram

10%	157 cd
20%	314 cd
30%	471 cd
40%	628 cd
50%	785 cd
60%	942 cd
70%	1099 cd
80%	1256 cd
90%	1413 cd

Conditions:

Number of c-planes: 8
 Candela at center: 1570 cd



ISO Lux Diagram

3%	0.471 lx
5%	0.785 lx
10%	1.57 lx
30%	4.71 lx
50%	7.85 lx

Conditions:

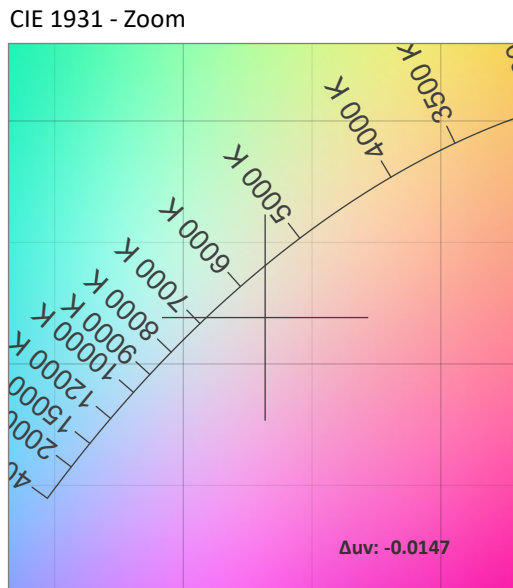
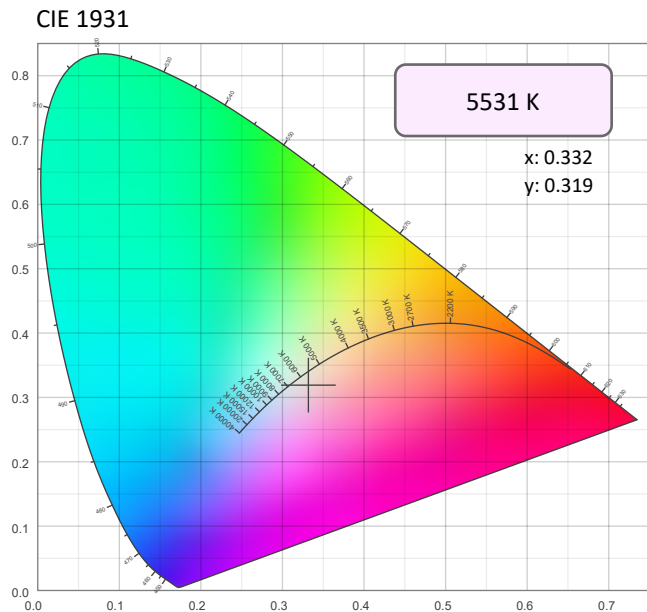
Number of c-planes: 8
 Candela at center: 15.7 lx

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

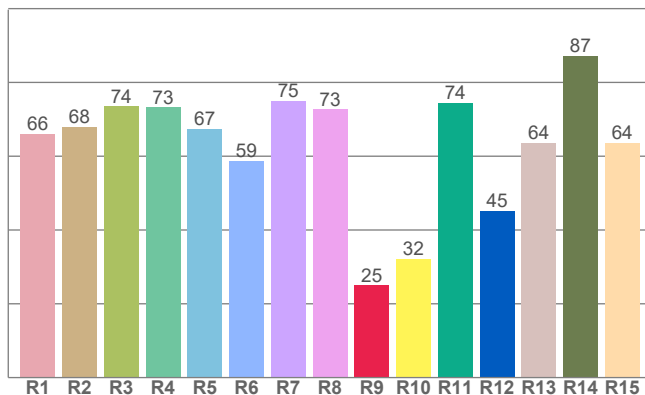
Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - RGBW - Full Power

Chromaticity



CRI: 69.3 (R1-R8)



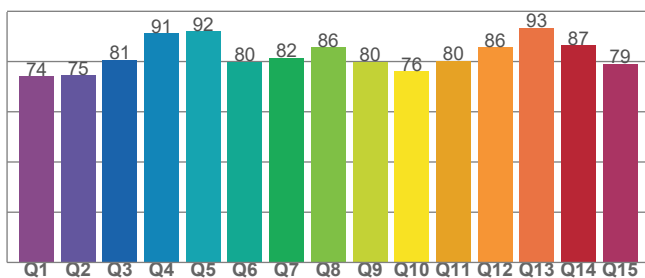
Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5531 K	0.332	0.319

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0147	0.319	0.215

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
69.3	25.0	81.7

CQS: 81.7



Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
79	73.2	93.4

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Photometric & Chromaticity Report

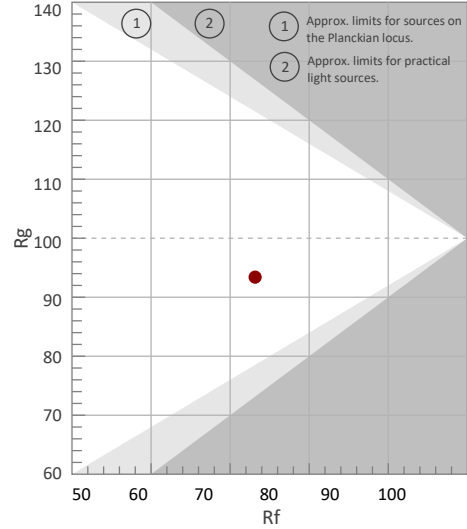
Logic GZL: 90X1 Filter - RGBW - Full Power

TM-30 Details

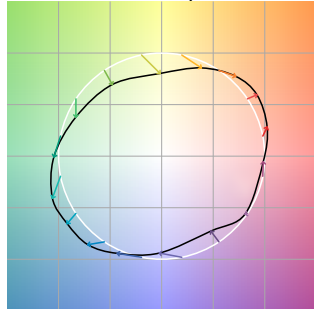
Rf 73.2
Fidelity Index (Rg)

Rg 93.4
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	78	6%	8%
2	82	10%	-2%
3	71	4%	-17%
4	64	-9%	-21%
5	64	-21%	-14%
6	76	-16%	1%
7	74	-10%	15%
8	65	2%	21%
9	75	12%	19%
10	79	13%	3%
11	72	11%	-12%
12	66	1%	-24%
13	74	-8%	-21%
14	77	-13%	-1%
15	81	-2%	-2%
16	76	-2%	14%



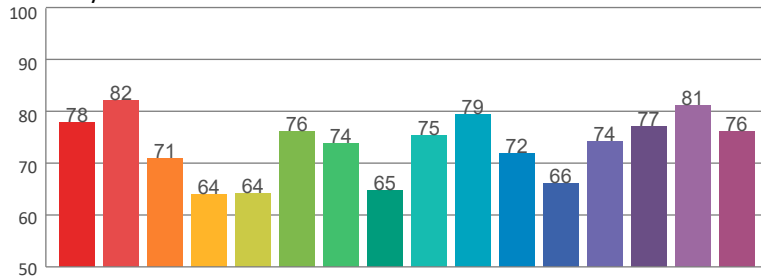
Color Vector Graphic



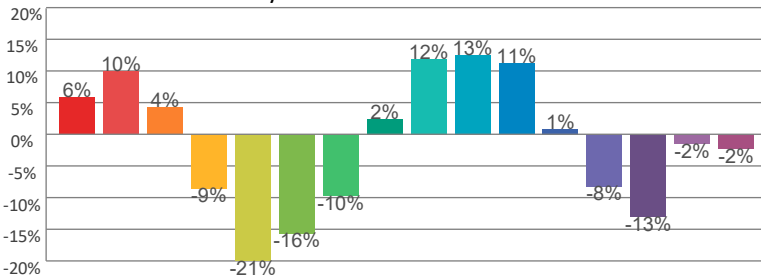
Color Distortion Graphic



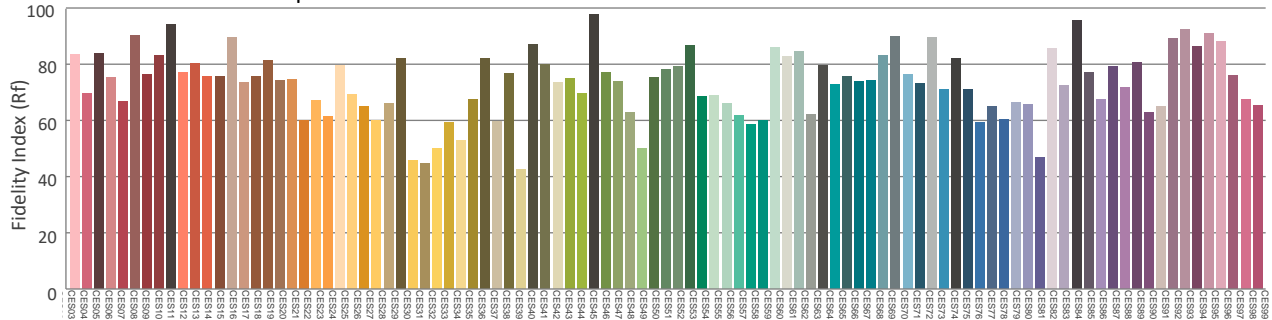
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Red Only

Report Summary

Measurements

Fixture Output: 591 lm

Fixture Peak: 445 cd

Fixture Efficacy: 19 lm/W

Intensity @ 5m: 18 lux

Color Temperature: 0 K

CRI: 0.0 CRI R9 Value: 0.0

CQS: 0.0

TLCl: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 59.8°

Field Angle (10%): 103°

Cutoff Angle (2%): 220°

Conditions

AC Supply: 120 V, 60 Hz

Power: 33.2 W

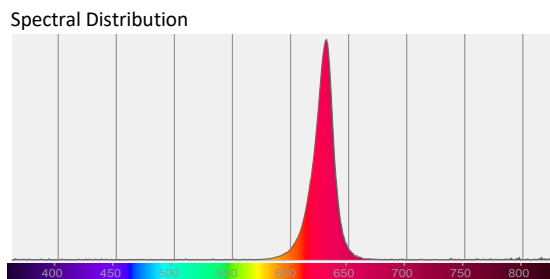
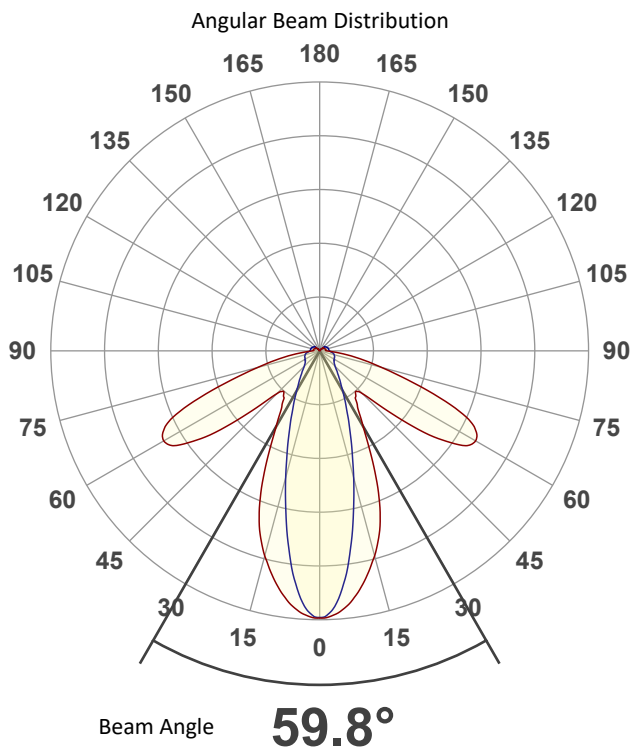
Current: 0.277 A

Power Factor: 0.94



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

Overall Measurement



Tested Color (CIE 1931):

X: 0.692

Y: 0.307



Light Quality

CRI: 0.0

Color Temperature

0 K

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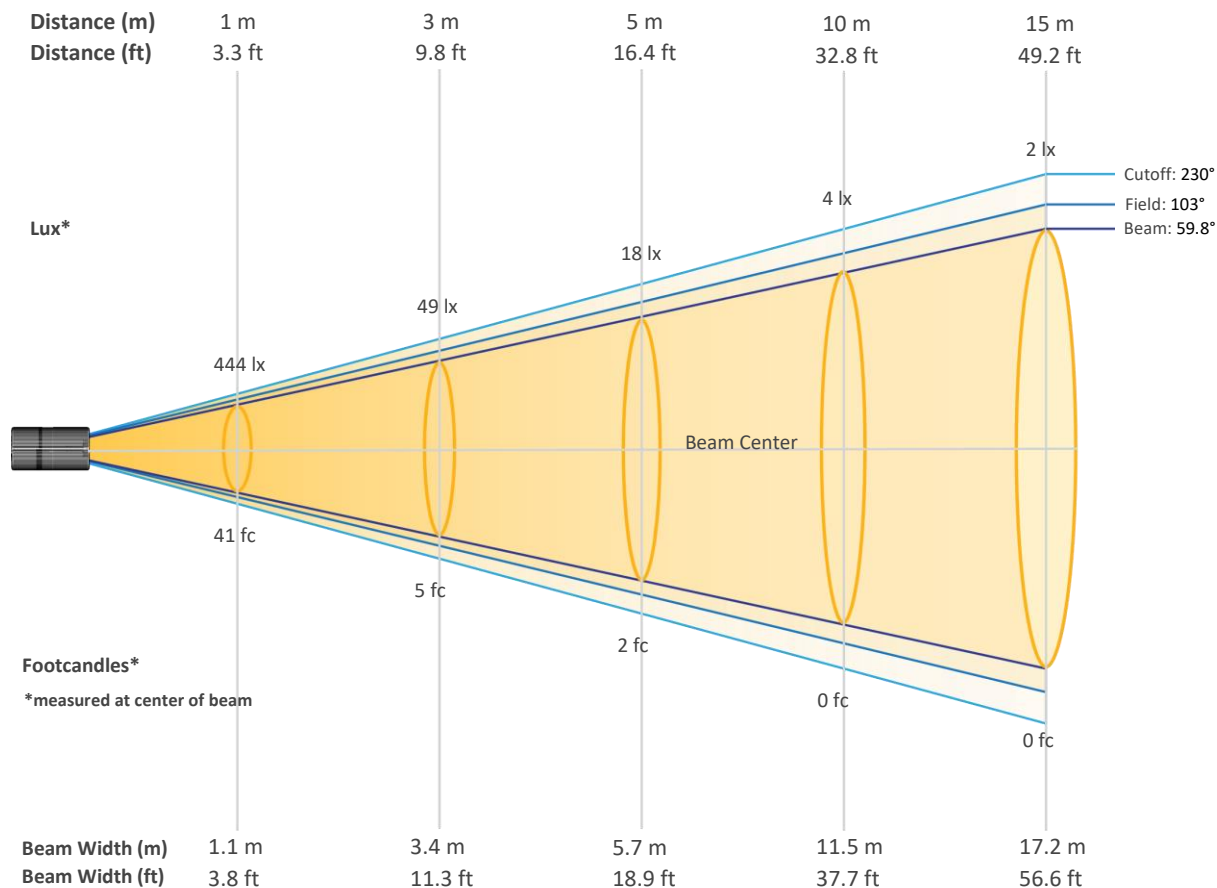
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Photometric & Chromaticity Report

Logic GZL: 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	444	111	49	28	18	12	9	7	5	4
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	41	10	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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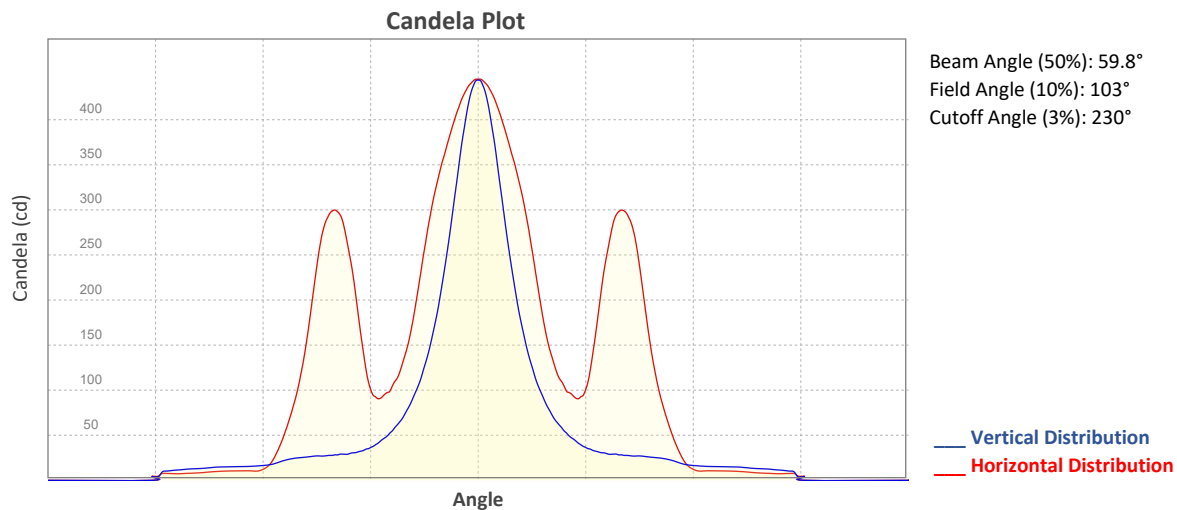
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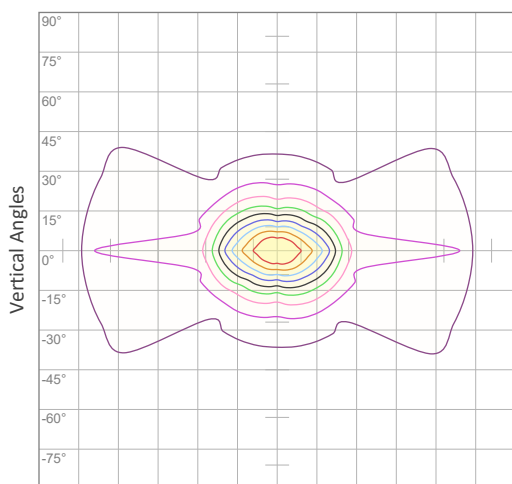
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Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Red Only



ISO Diagrams

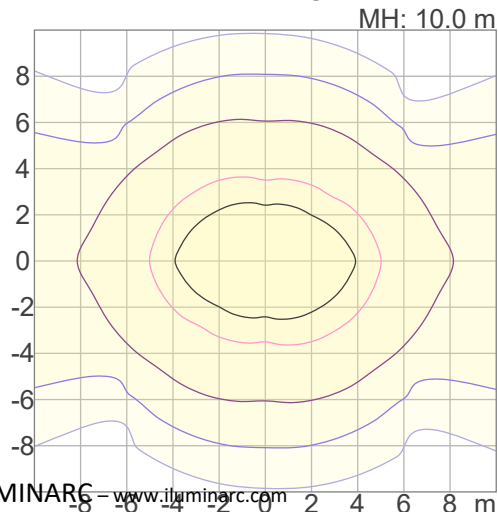


ISO Candela Diagram

10%	44 cd
20%	89 cd
30%	133 cd
40%	178 cd
50%	222 cd
60%	267 cd
70%	311 cd
80%	356 cd
90%	400 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 444 cd

Horizontal Angles



ISO Lux Diagram

3%	0.133 lx
5%	0.222 lx
10%	0.444 lx
30%	1.33 lx
50%	2.22 lx

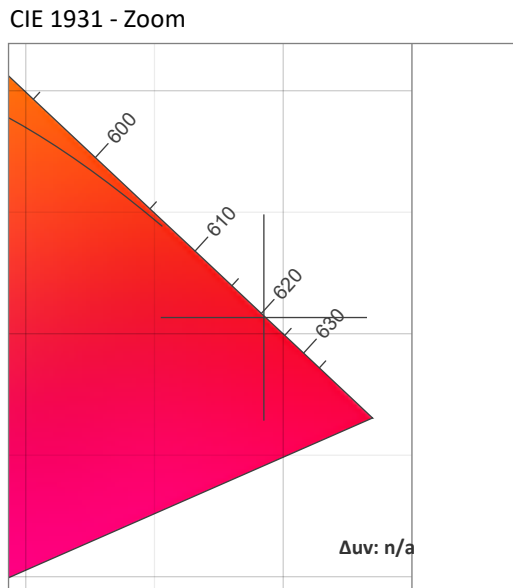
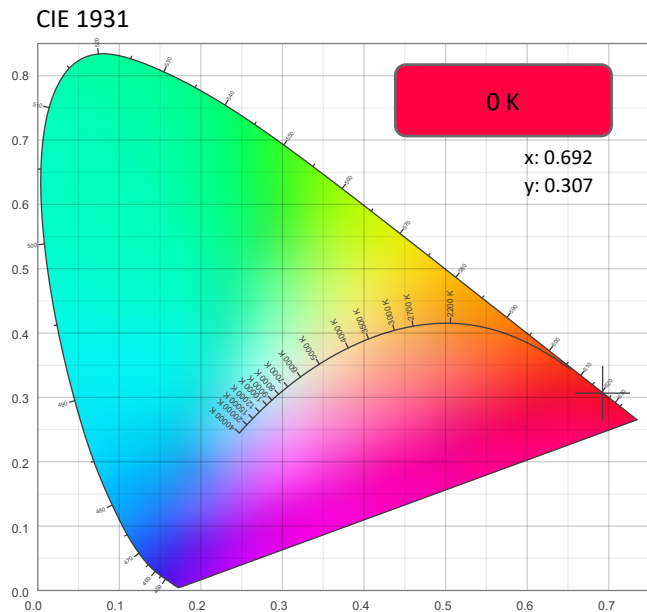
Conditions:
 Number of c-planes: 8
 Candela at center: 4.44 lx

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

Photometric & Chromaticity Report

Logic GZL: 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
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	0.692	0.307

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.307	0.523

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

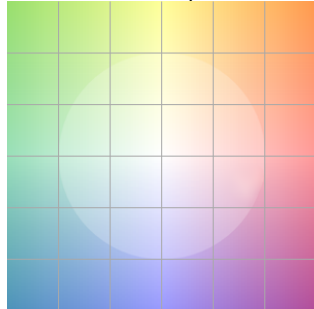
Logic GZL: 90X1 Filter - Red Only

TM-30 Details

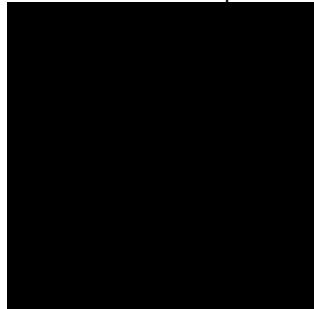
Rf 0.0
Fidelity Index (Rg)

Rg 0.0
Gammut Index (Rg)

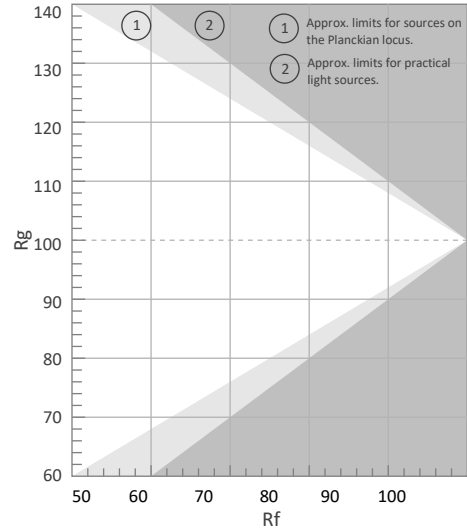
Color Vector Graphic



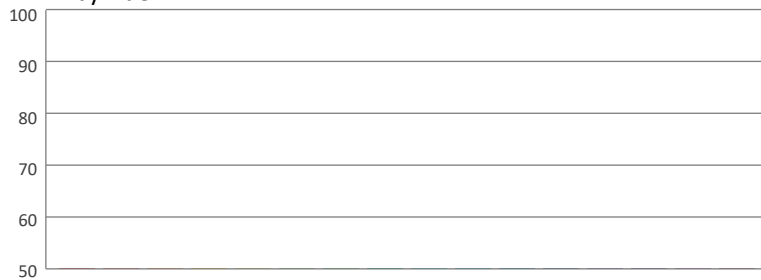
Color Distortion Graphic



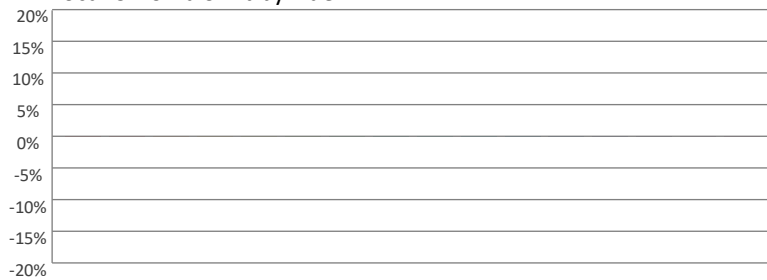
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



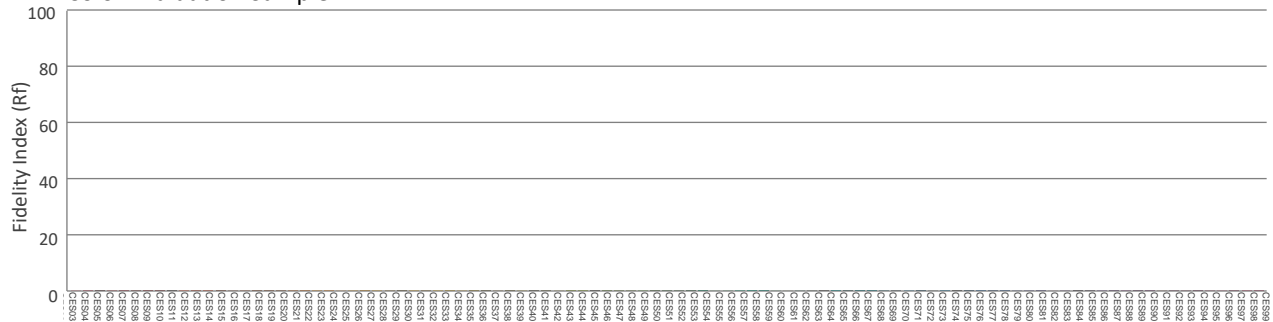
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Green Only

Report Summary

Measurements

Fixture Output: 1150 lm

Fixture Peak: 837 cd

Fixture Efficacy: 36 lm/W

Intensity @ 5m: 33 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%): 60.7°

Field Angle (10%): 118.3°

Cutoff Angle (2%): 232.4°

Conditions

AC Supply: 120 V, 60 Hz

Power: 34.13 W

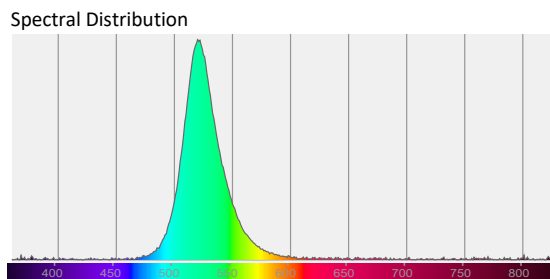
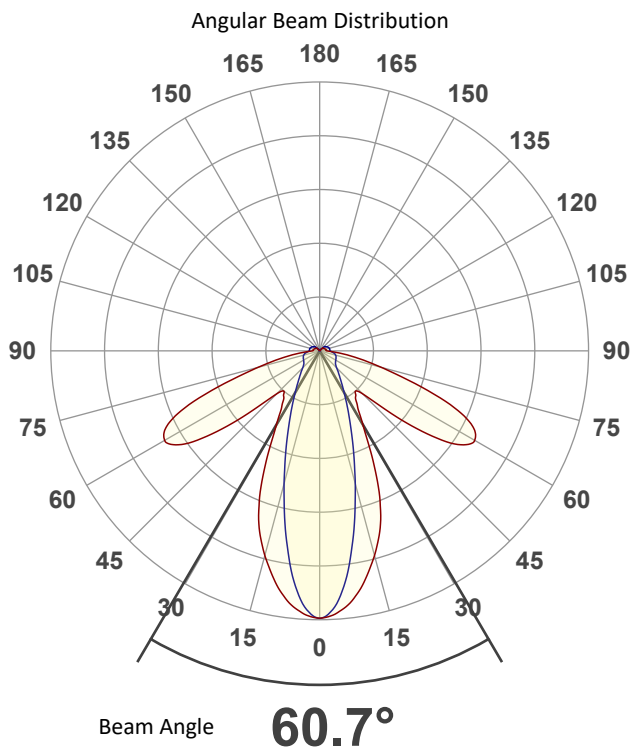
Current: 0.284 A

Power Factor: 0.94



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

Overall Measurement



Tested Color (CIE 1931):

X: 0.175

Y: 0.722

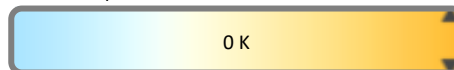


Light Quality

CRI: 0.0

Color Temperature

0 K



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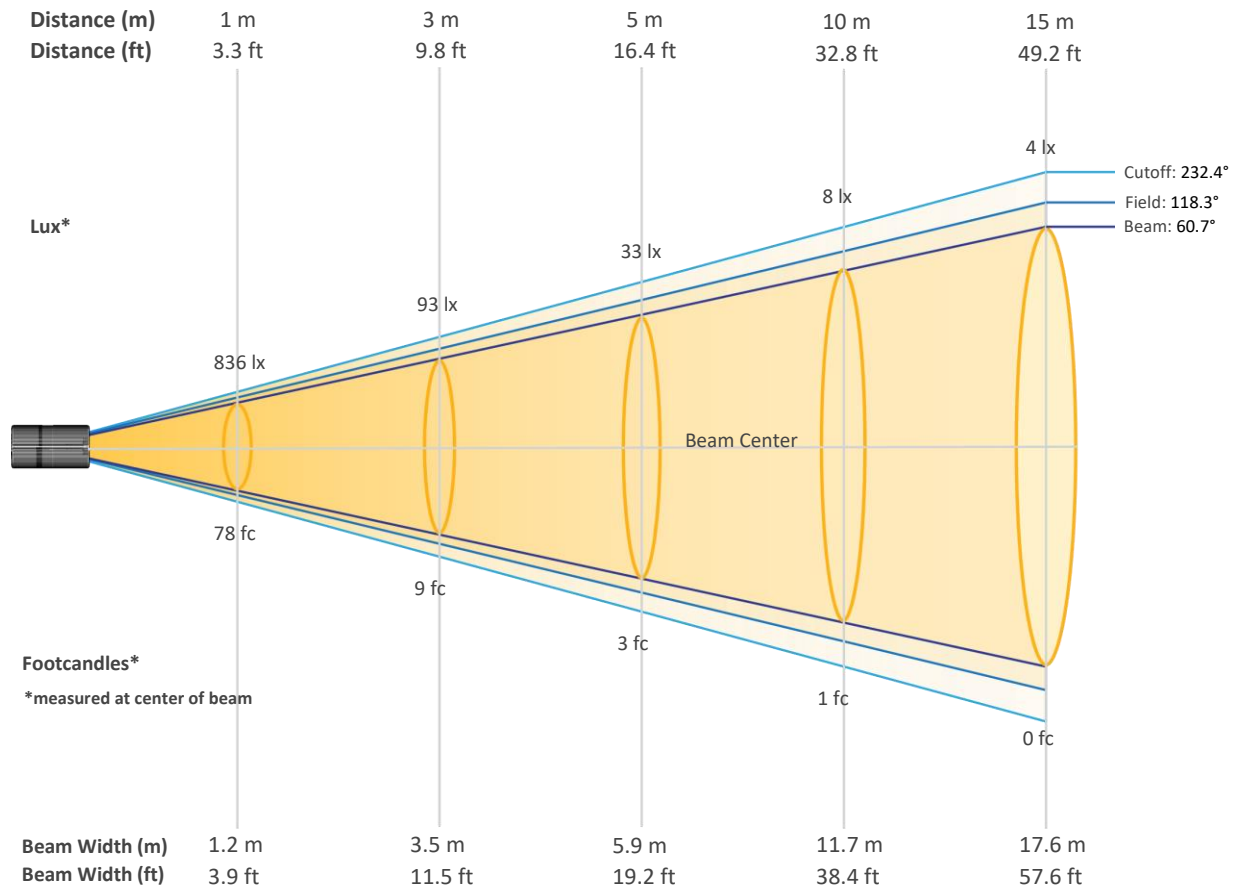
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Photometric & Chromaticity Report

Logic GZL: 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	836	209	93	52	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	78	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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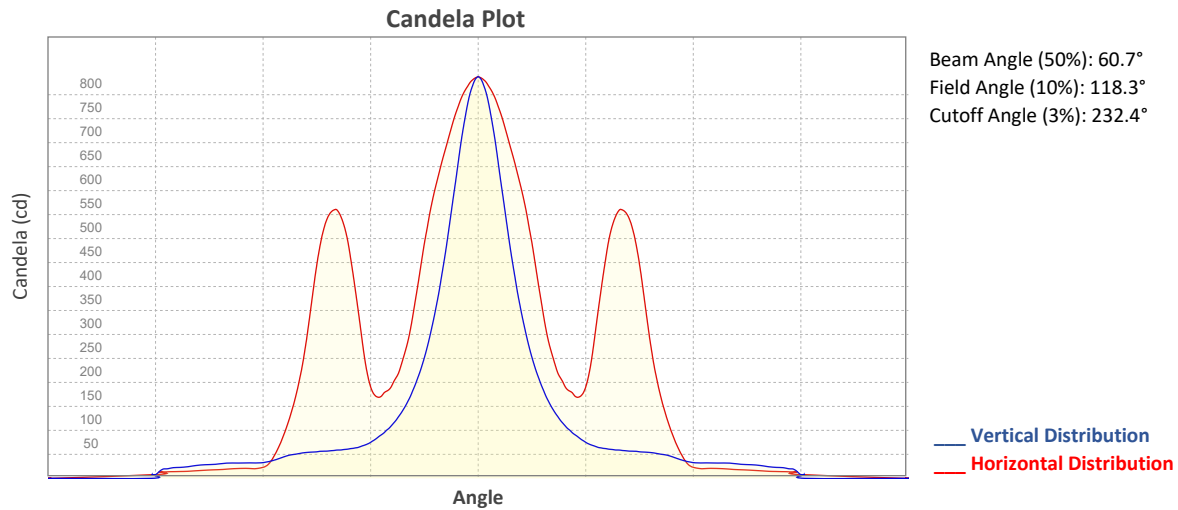
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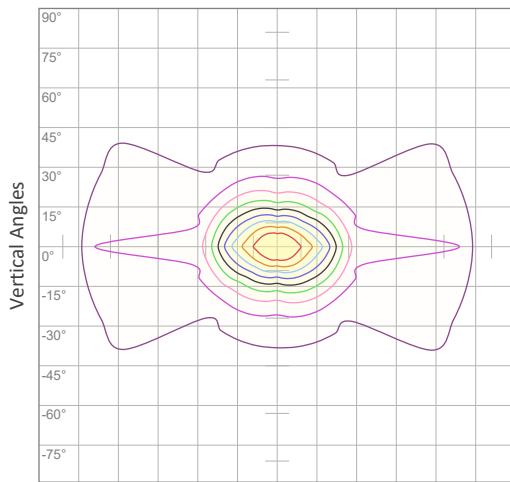
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Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Green Only



ISO Diagrams



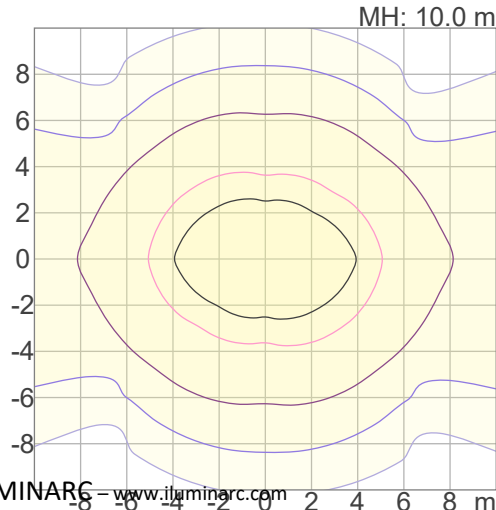
ISO Candela Diagram

10%	84 cd
20%	167 cd
30%	251 cd
40%	335 cd
50%	418 cd
60%	502 cd
70%	585 cd
80%	669 cd
90%	753 cd

Conditions:

Number of c-planes: 8
Candela at center: 836 cd

Horizontal Angles



ISO Lux Diagram

3%	0.251 lx
5%	0.418 lx
10%	0.836 lx
30%	2.51 lx
50%	4.18 lx

Conditions:

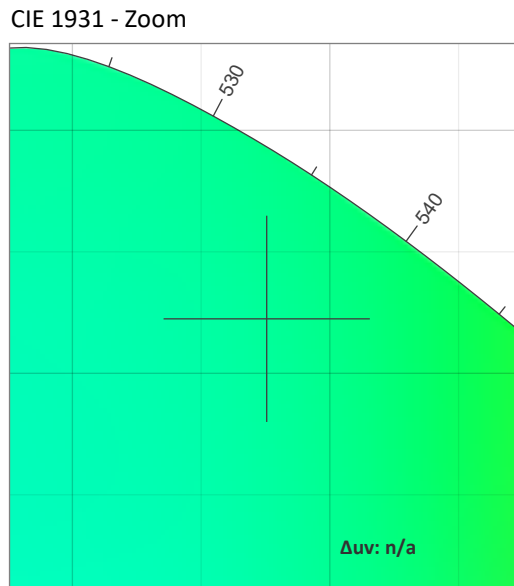
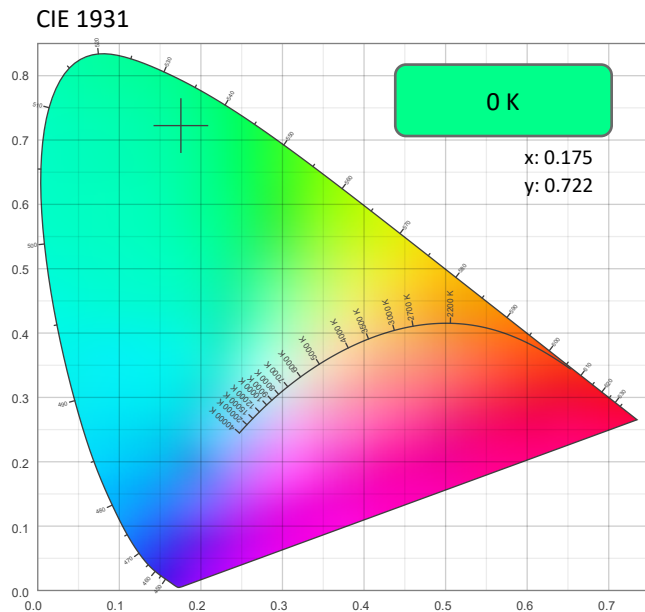
Number of c-planes: 8
Candela at center: 8.36 lx

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

Photometric & Chromaticity Report

Logic GZL: 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	0.722

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.722	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

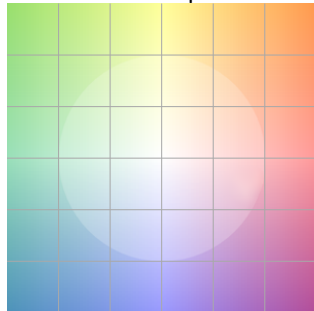
Logic GZL: 90X1 Filter - Green Only

TM-30 Details

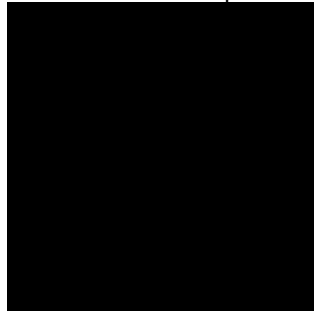
Rf 0.0
Fidelity Index
(Rg)

Rg 0.0
Gammut Index (Rg)

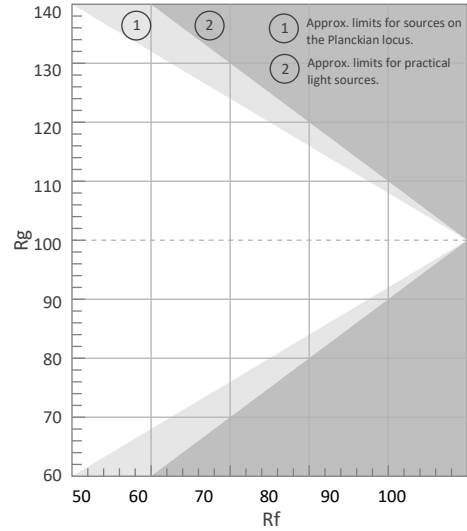
Color Vector Graphic



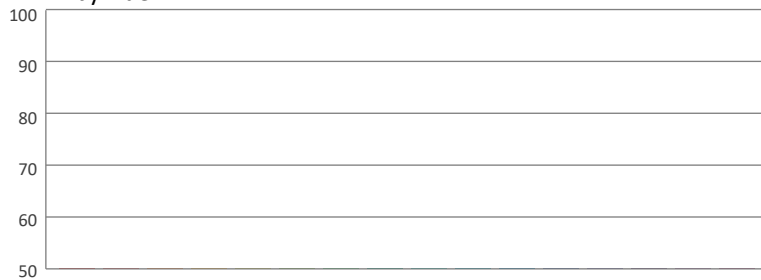
Color Distortion Graphic



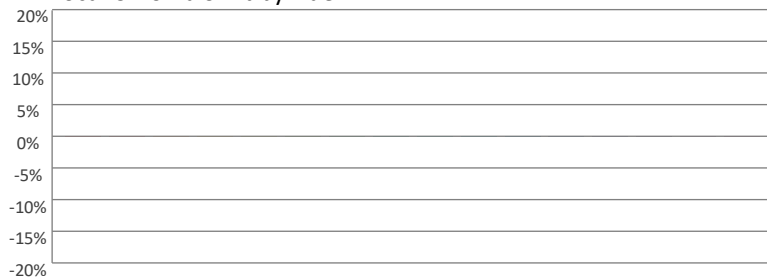
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
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14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



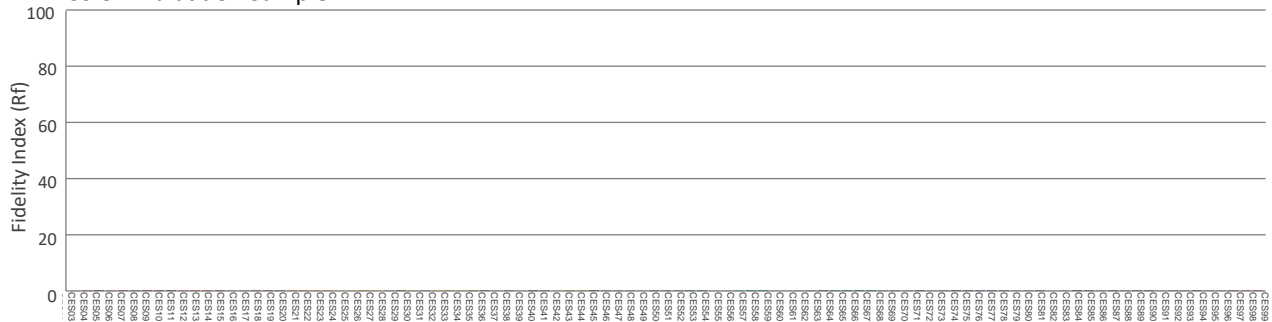
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Blue Only

Report Summary

Measurements

Fixture Output: 426 lm

Fixture Peak: 288 cd

Fixture Efficacy: 13 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%): 63.4°

Field Angle (10%): 124.8°

Cutoff Angle (2%): 218.8°

Conditions

AC Supply: 120 V, 60 Hz

Power: 35.47 W

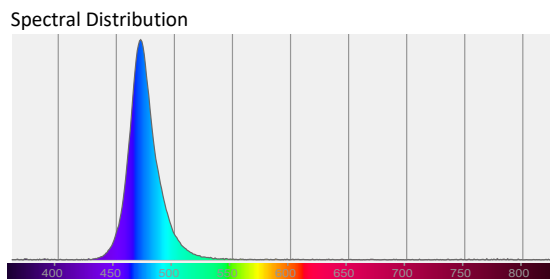
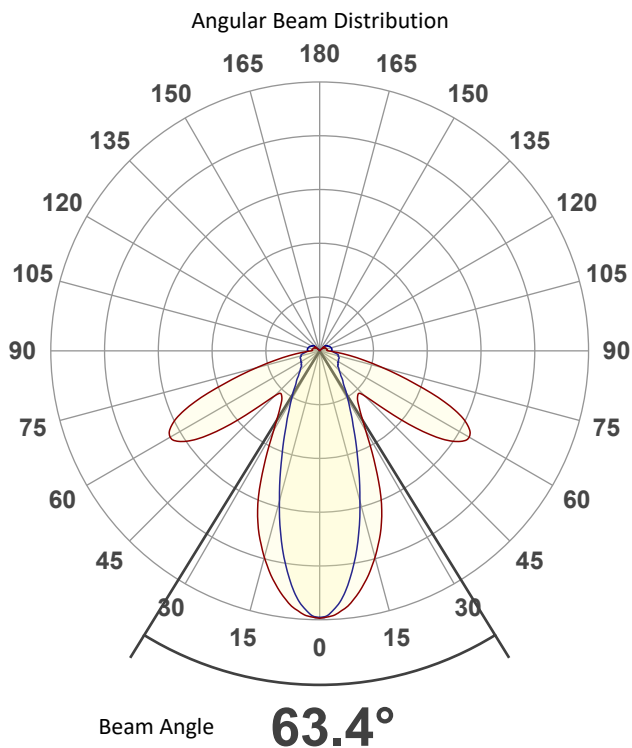
Current: 0.296 A

Power Factor: 0.94



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

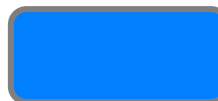
Overall Measurement



Tested Color (CIE 1931):

X: 0.121

Y: 0.096



Light Quality

CRI: 0.0

Color Temperature

0 K

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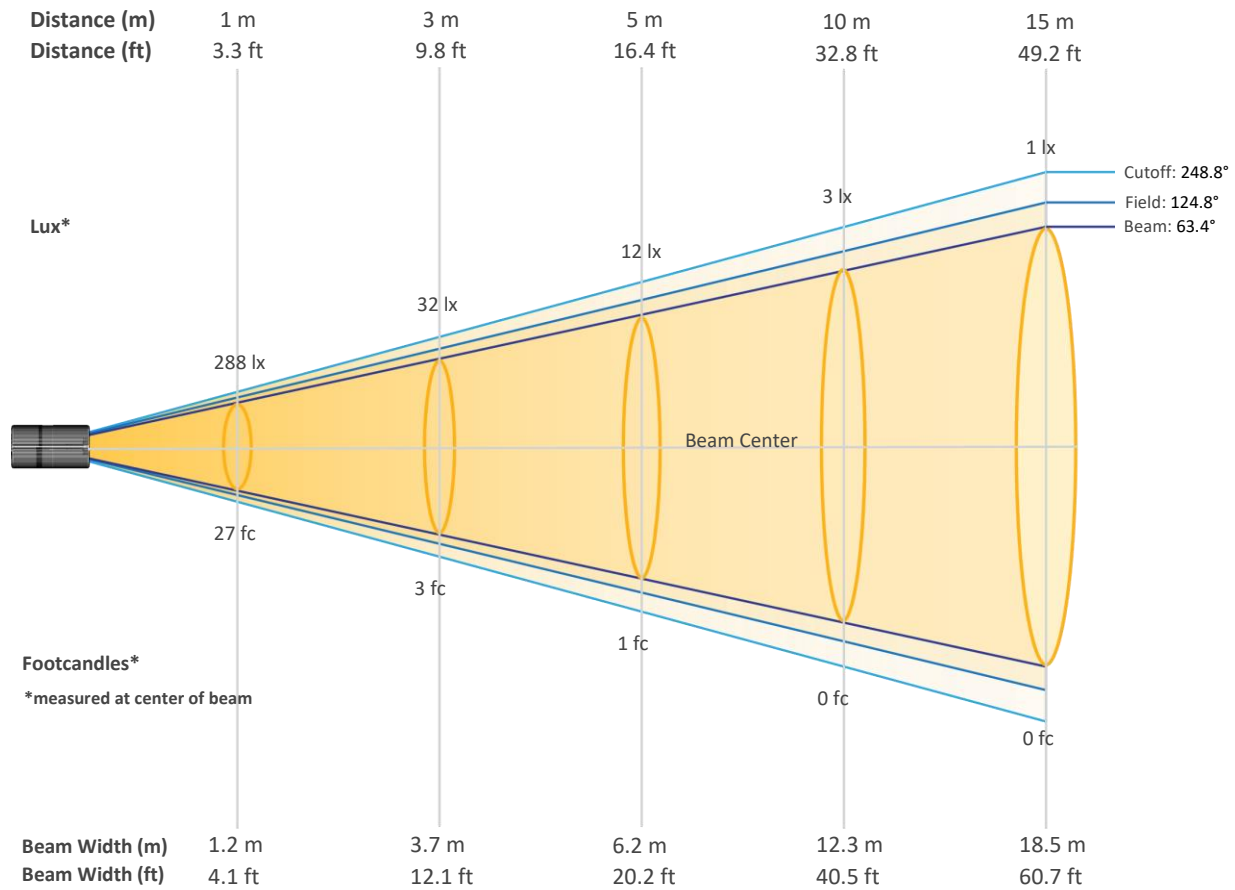
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Photometric & Chromaticity Report

Logic GZL: 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	288	72	32	18	12	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	27	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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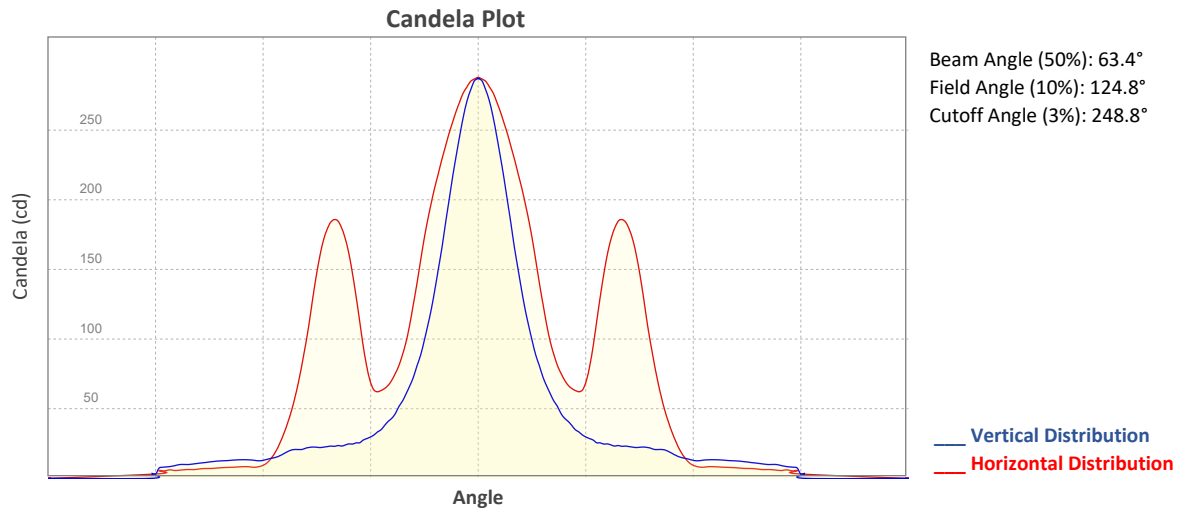
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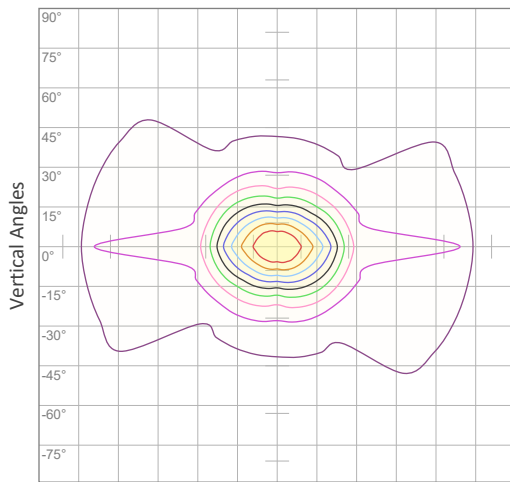
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Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Blue Only



ISO Diagrams

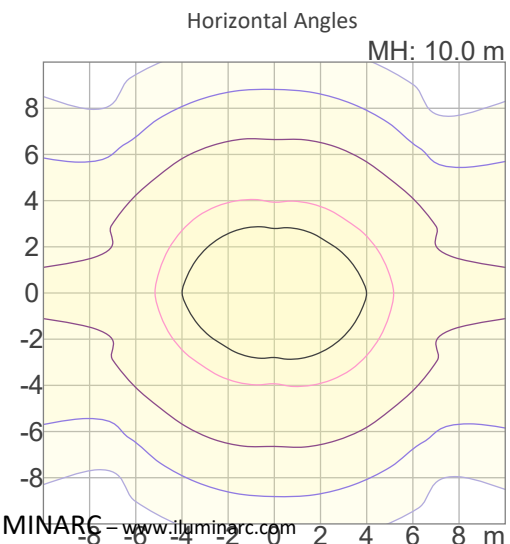


ISO Candela Diagram

10%	29 cd
20%	58 cd
30%	86 cd
40%	115 cd
50%	144 cd
60%	173 cd
70%	201 cd
80%	230 cd
90%	259 cd

Conditions:

Number of c-planes: 8
Candela at center: 288 cd



ISO Lux Diagram

3%	86.3m lx
5%	0.144 lx
10%	0.288 lx
30%	0.863 lx
50%	1.44 lx

Conditions:

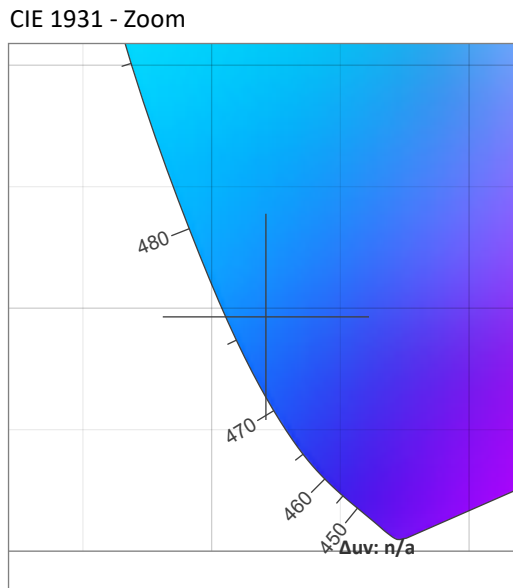
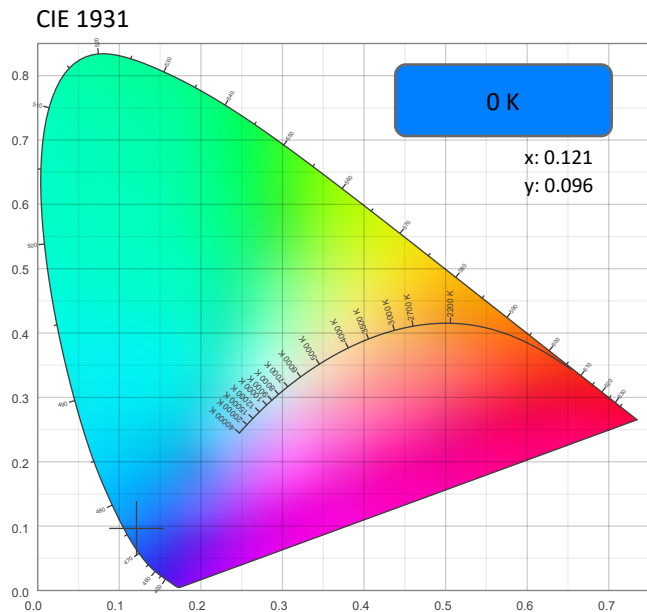
Number of c-planes: 8
Candela at center: 2.88 lx

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

Photometric & Chromaticity Report

Logic GZL: 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	0.121	0.096

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.096	0.124

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

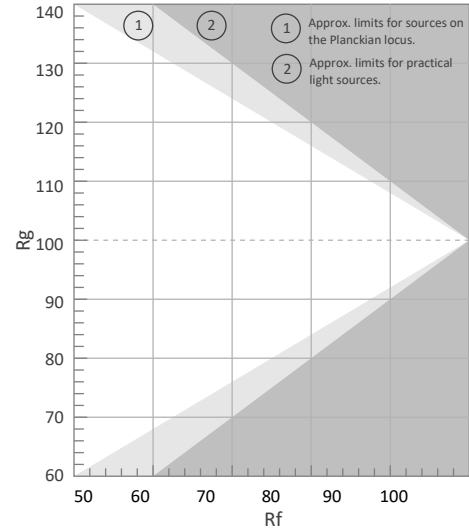
Logic GZL: 90X1 Filter - Blue Only

TM-30 Details

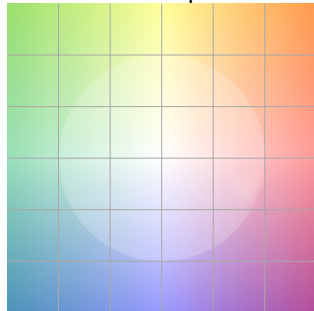
Rf 0.0
Fidelity Index
(Rg)

Rg 0.0
Gammut Index (Rg)

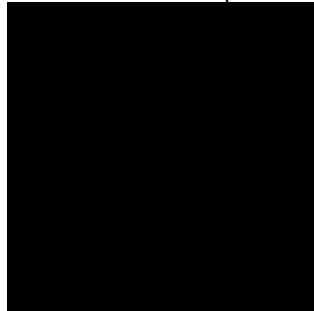
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



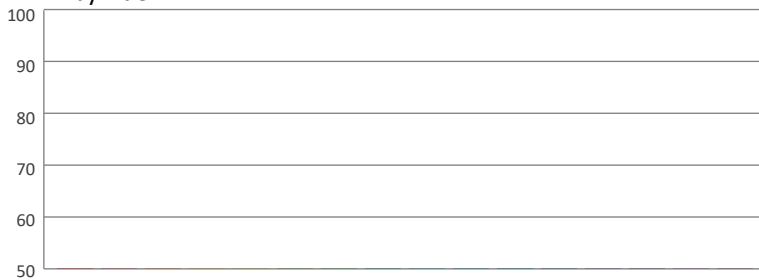
Color Vector Graphic



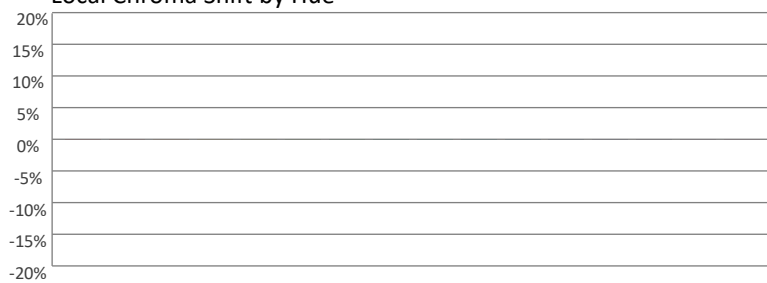
Color Distortion Graphic



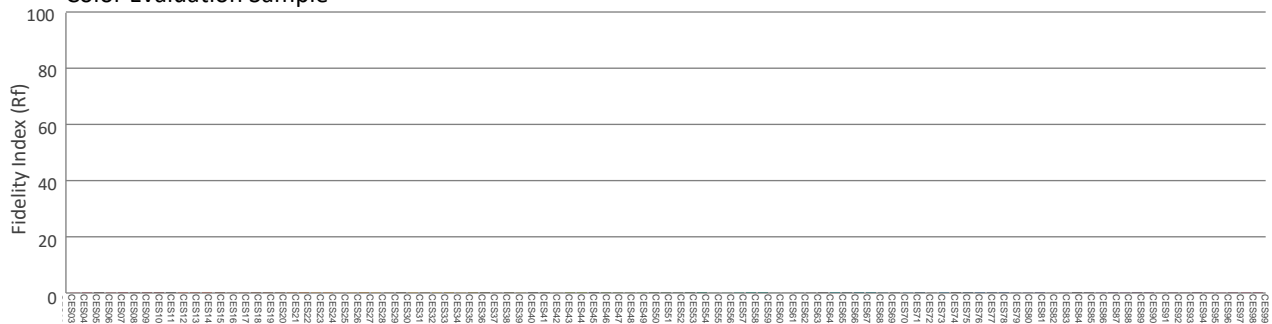
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Warm White Only

Report Summary

Measurements

Fixture Output: 1808 lm
 Fixture Peak: 1299 cd
 Fixture Efficacy: 54 lm/W
 Intensity @ 5m: 52 lux
 Color Temperature: 3051 K
 CRI: 84.6 CRI R9 Value: 14.8
 CQS: 83.8
 TLCI: 73
 TM-30 Rf: 85.9
 TM-30 Rg: 95.0
 Beam Angle (50%): 62.7°
 Field Angle (10%): 117.4°
 Cutoff Angle (2%): 226.2°

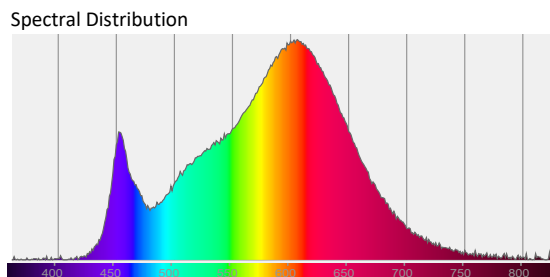
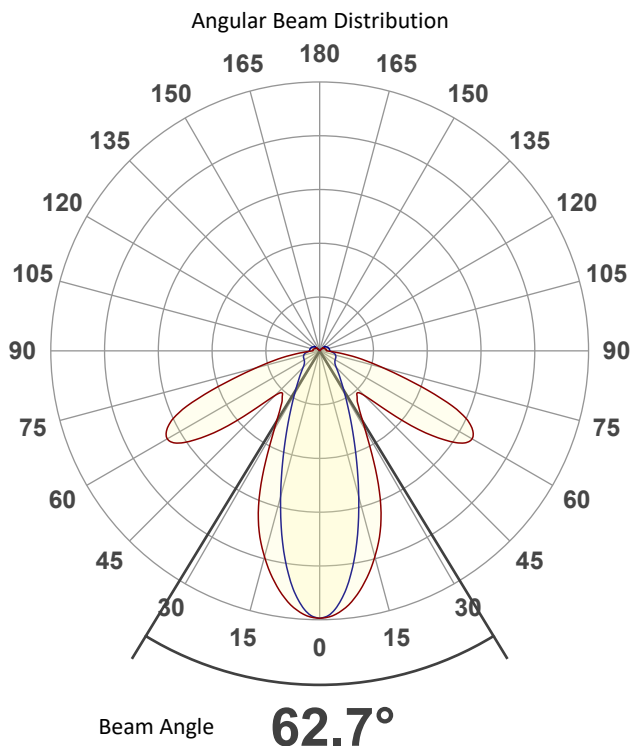
Conditions

AC Supply: 120 V, 60 Hz
 Power: 35.42 W
 Current: 0.296 A
 Power Factor: 0.94



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

Overall Measurement



Tested Color (CIE 1931):

X: 0.433

Y: 0.401



Light Quality

CRI: 84.6

Color Temperature

3051 K

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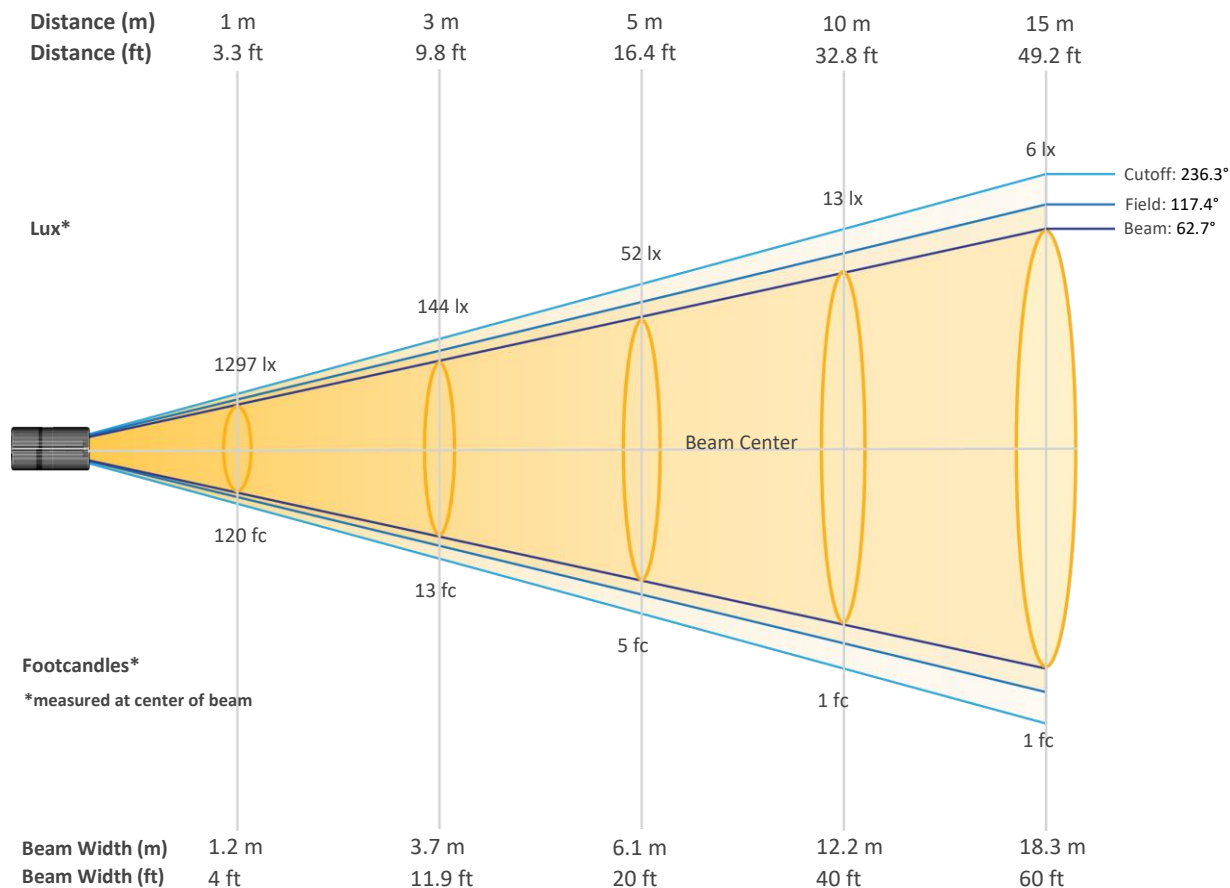
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Photometric & Chromaticity Report

Logic GZL: 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	1297	324	144	81	52	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	120	30	13	8	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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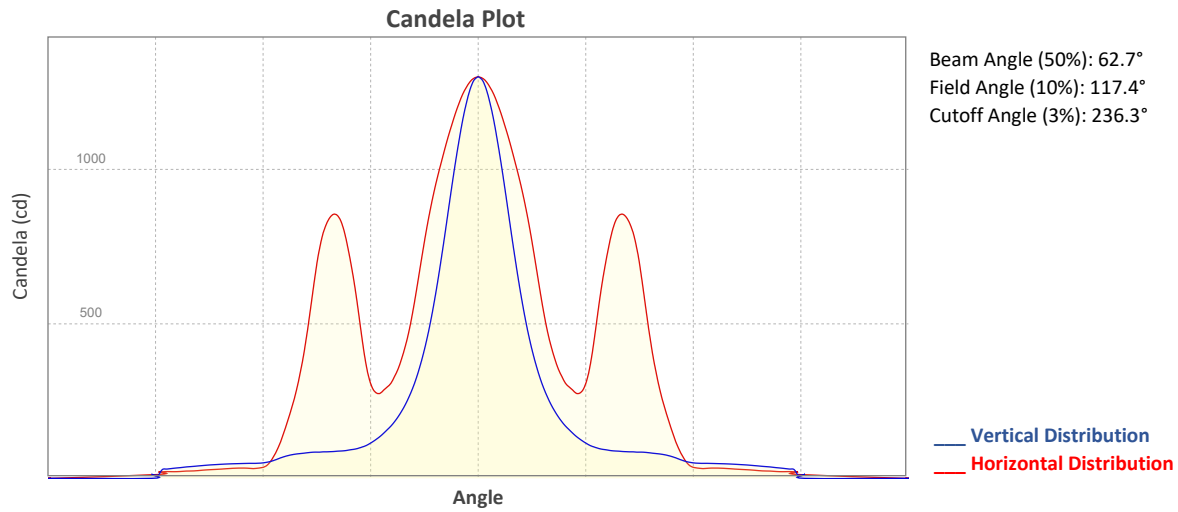
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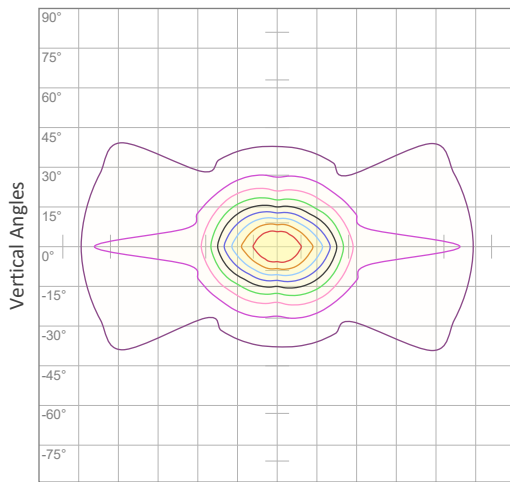
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Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Warm White Only



ISO Diagrams



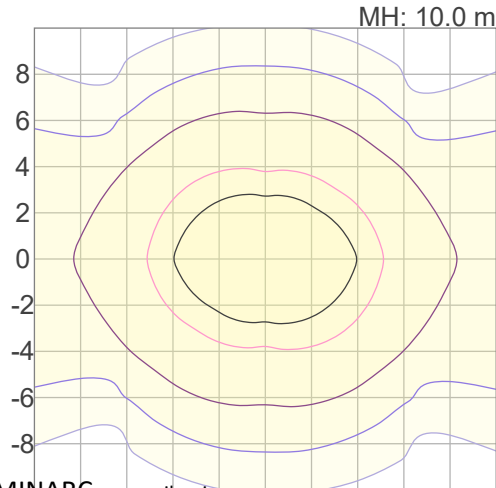
ISO Candela Diagram

10%	130 cd
20%	259 cd
30%	389 cd
40%	519 cd
50%	648 cd
60%	778 cd
70%	908 cd
80%	1037 cd
90%	1167 cd

Conditions:

Number of c-planes: 8
Candela at center: 1297 cd

Horizontal Angles



ISO Lux Diagram

3%	0.389 lx
5%	0.648 lx
10%	1.30 lx
30%	3.89 lx
50%	6.48 lx

Conditions:

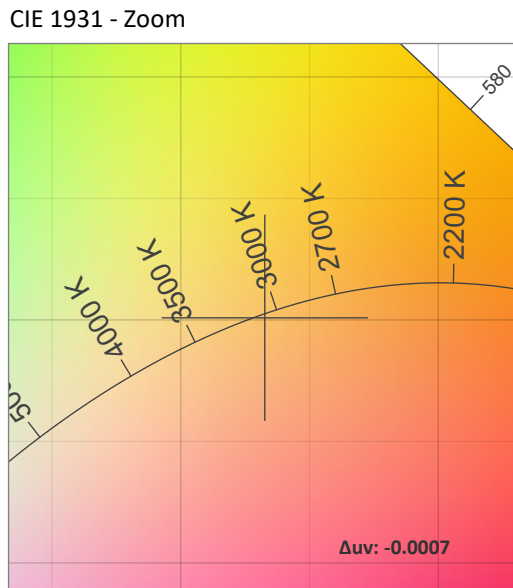
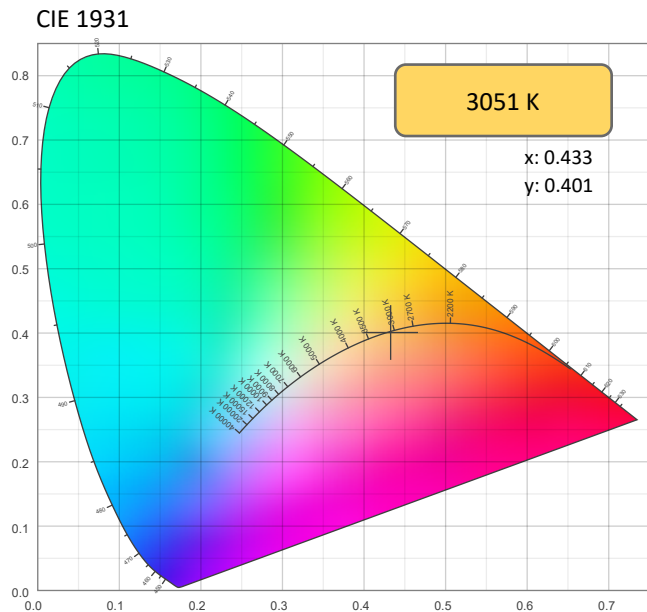
Number of c-planes: 8
Candela at center: 13.0 lx

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

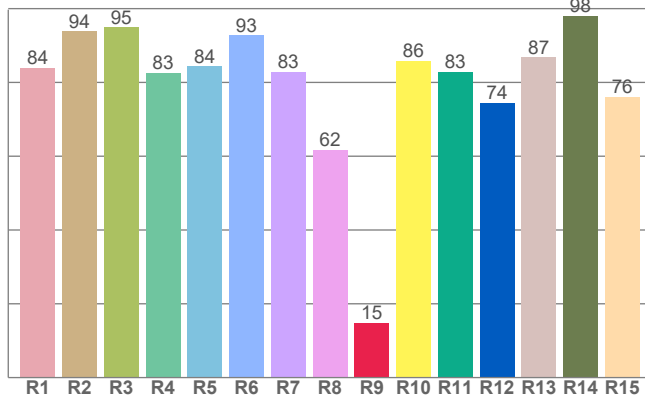
Photometric & Chromaticity Report

Logic GZL: 90X1 Filter - Warm White Only

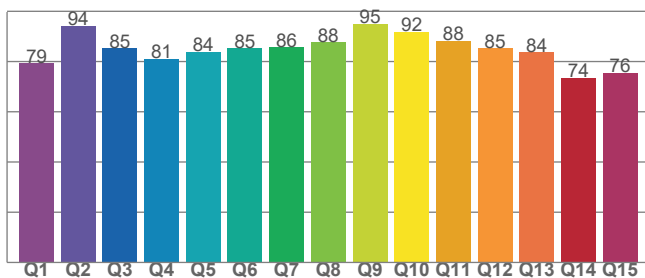
Chromaticity



CRI: 84.6 (R1-R8)



CQS: 83.8



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3051 K	0.433	0.401

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0007	0.401	0.249

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
84.6	14.8	83.8

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
73	85.9	95.0

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Photometric & Chromaticity Report

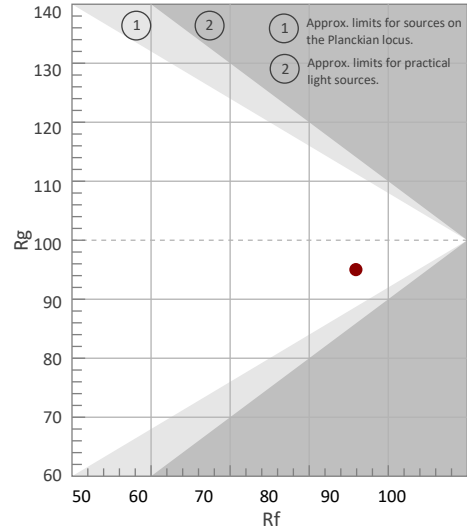
Logic GZL: 90X1 Filter - Warm White Only

TM-30 Details

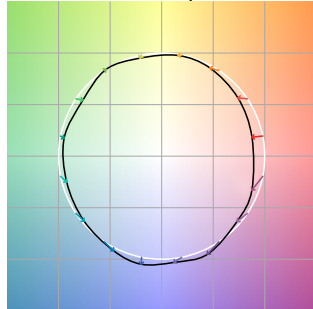
Rf 85.9
Fidelity Index (Rg)

Rg 95.0
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	95	0%	-2%
7	88	-6%	-3%
8	93	-4%	1%
9	88	-5%	7%
10	81	-2%	11%
11	83	2%	12%
12	87	7%	1%
13	88	3%	-9%
14	80	4%	-16%
15	80	-4%	-12%
16	78	-8%	-15%



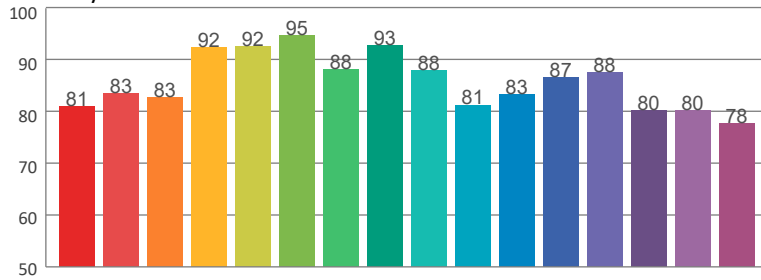
Color Vector Graphic



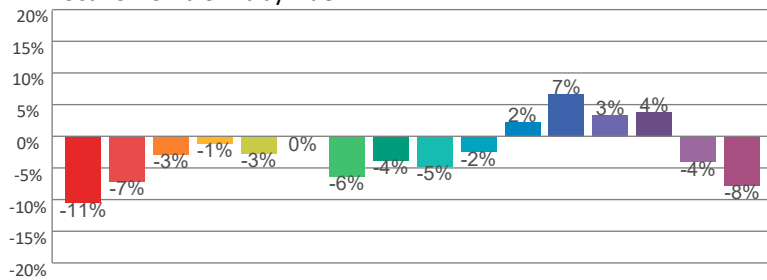
Color Distortion Graphic



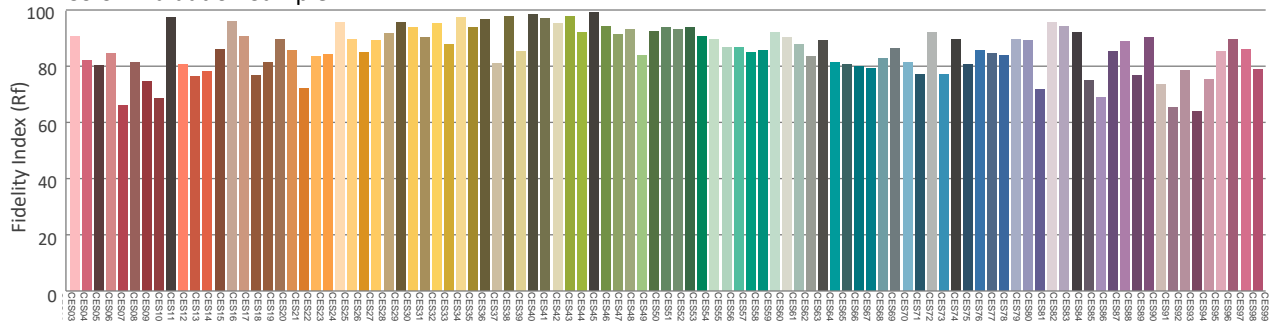
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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