RAYZOR 760™

Photometric Test Report

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C O N T E N T S

TESTING PROCESS

Total Lumen Measurements

Lumens are measured using a Viso Systems Lab Spion and a 2π Integrating Sphere. As a goniophotometer, the Viso calculates the field lumens of the fixture by taking multiple measurements across the light beam. The measured lumens of the 2π Integrating Sphere tends to be higher than the Viso goniophotometer due to a variety of differences in measurement principles. Therefore, both values are provided in the report.

Many lumens figures provided for entertainment lighting fixtures are only the 2π sphere values, some even emphasize the LED engine lumens. All Elation product photometric data is the actual light output from the fixture lens, never a theoretical value based on calculation or using the source lumens as the fixtures output. We advise to always compare total fixture lumens acquired with identical measurement systems when comparing lighting fixtures.

Test Lab Equipment and Process

Elation operates an optical testing laboratory at its Los Angeles, CA headquarters to provide accurate photometric data for its lighting products. The testing lab is both light and climate-controlled and contains a variety of precise lighting measurement systems. Fixtures are analyzed with the sophisticated Viso Systems Lab Spion equipment, which measures all light and color parameters by panning the light beam at a precise speed and from different angles through a calibrated, laser aligned light and color sensor. Test data is collected and summarized by the Viso Light Inspector software. This type of measurement system is referred to as a Goniophotometer.

The Viso software calculates all relevant types of measurements, from beam angles, candela to center light intensity at a variety of distances to the latest color quality measurements like TM30 or CQS as well as accurate color temperature. This wealth of data is then processed by an Elation specific template which is included in the photometric test report for various fixture conditions such as zoom angles and color correction filters.

The Viso software also creates IES Illuminating Engineering Society) files for each test report. IES is an industry standard file format created for the easy electronic transfer of photometric test data, which is widely used by lighting manufacturers for photometric data distribution.

Fixtures are also analyzed using an 2π Integrating Sphere. This technique takes the output of the fixture and measures the amount of light inside a sealed perfect sphere. Due to the size of most fixtures they shine into an opening on the side of the sphere. A sensor is mounted behind a glare shield to avoid direct light input and a very short measurement is taken to gather the total lumens within the sphere. Due to different measurement principles, distortion and measurement uncertainties there is a difference in these results.

Additionally, fixtures are periodically rechecked for accuracy using various hand-held light meters including one or more of the devices listed below. This is done to ensure the test data contained in this report is as accurate as possible.

Asenstek Lighting Passport | Konica Minolta T-10 | Sekonic C700

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Photometric Report

Total Lumen Output*

Integrating Sphere	**4705 lm**
VISO Lab Spion	**3407 lm**

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2.5%
5.4°	7.4°	8.4°

Color Temperature: 0 K

CRI: 0.0

TLCI: n/a

TM30: 0.0

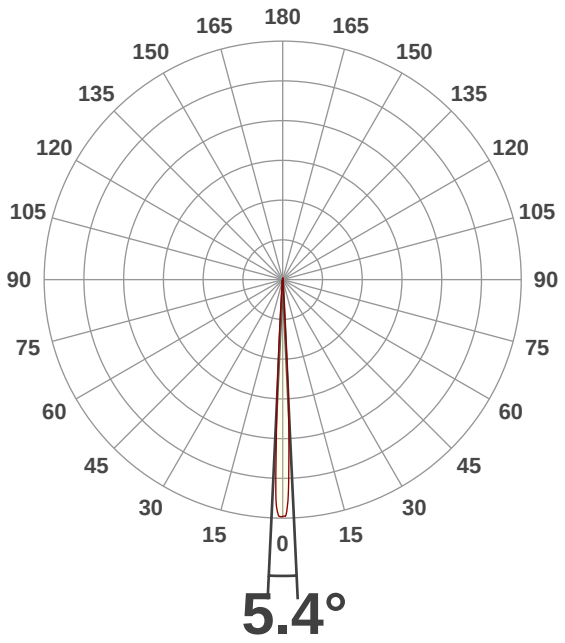
CQS: 0.0

Voltage: 116 V, Current: 5.72 A

Power: 664.9 W

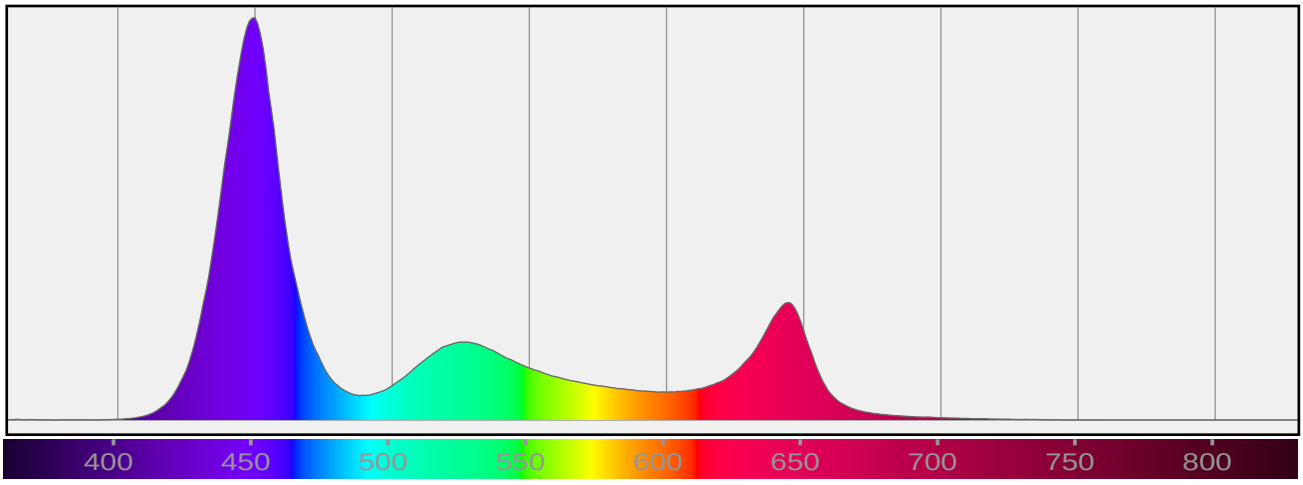
Efficacy: 5 Lumen/Watt

Measurement Date: 8/12/2019



Spectral Distribution

Dominant Wavelength 454 nm



*Total Lumen measurements by calibrated Everfine 2π Integrating Sphere and Viso Systems Lab Spion

Rayzor 760 (Zoom In)

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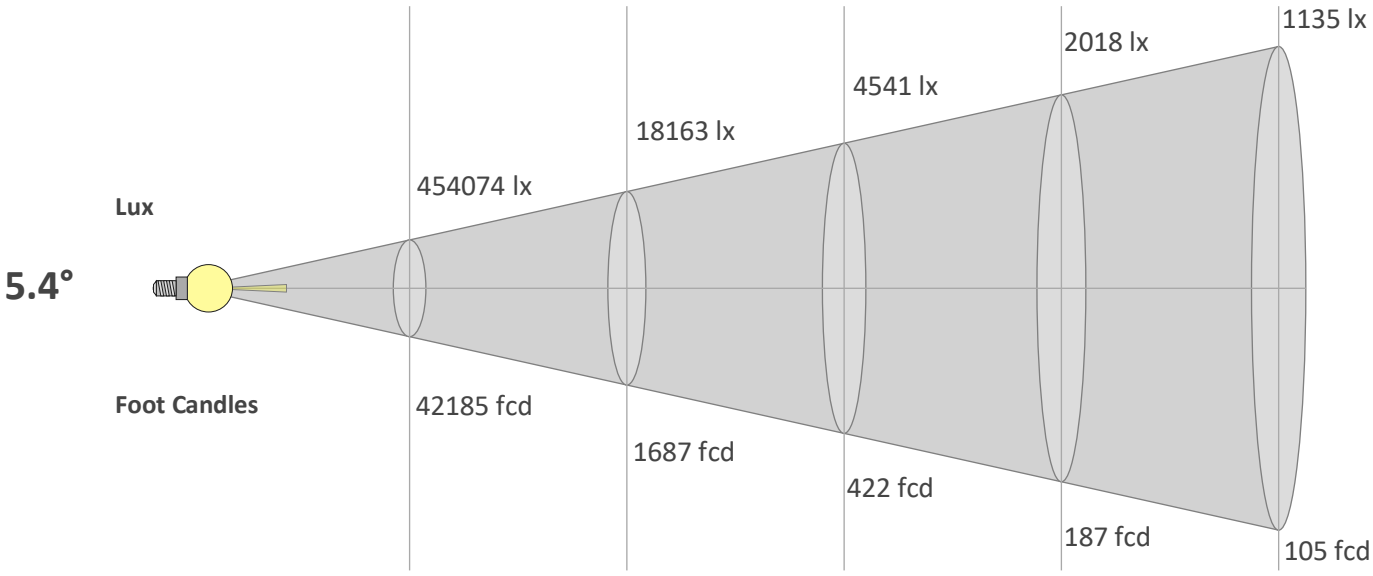
Beam Details

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%
5.4°	7.4°	8.4°

Distance (m)	1	5	10	15	20
Distance (ft)	3.3	16.4	32.8	49.2	65.6



Beam Width (m)	0.1	0.5	0.9	1.4	1.9
Beam Width (ft)	0.3	1.5	3.1	4.6	6.2

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
LX	454074	113518	50453	28380	18163	12613	9267	7095	5606	4541	3753	3153	2687	2317	2018	1774	1571	1401	1258	1135
FC	42184.9	10546.2	4687.2	2636.6	1687.4	1171.8	860.9	659.1	520.8	421.8	348.6	293	249.6	215.2	187.5	164.8	146	130.2	116.9	105.5

Linear Distribution

Peak Candela

454879 cd

Calculate Center Beam Intensities

lux = 454879 / distance(m)^2

fc = 454879 / distance(ft)^2

Rayzor 760 (Zoom In)

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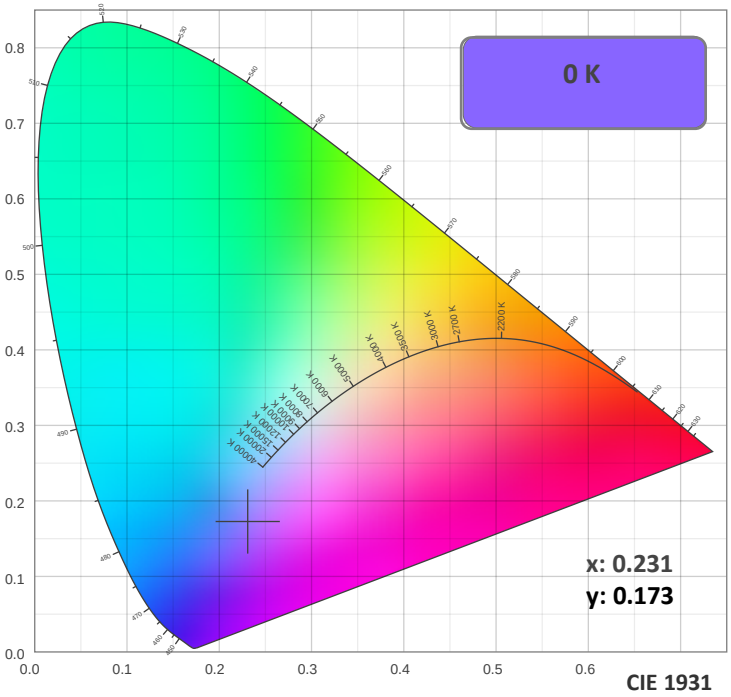
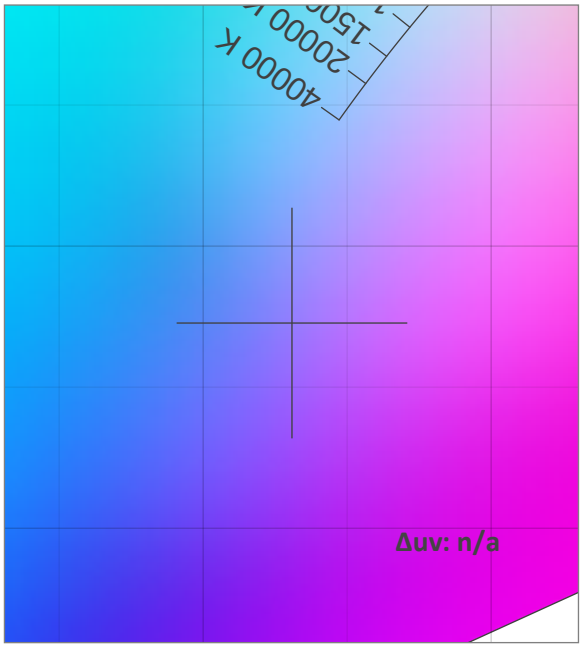
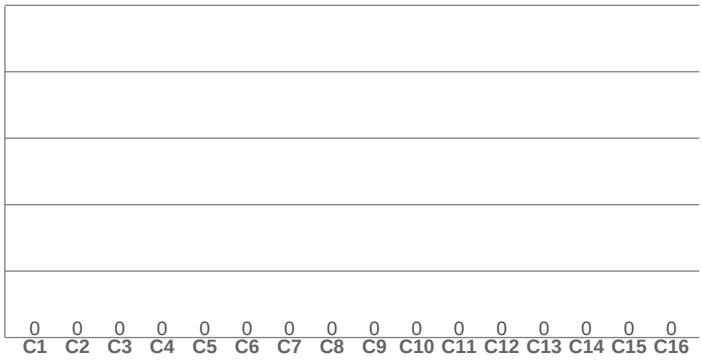
Color Details

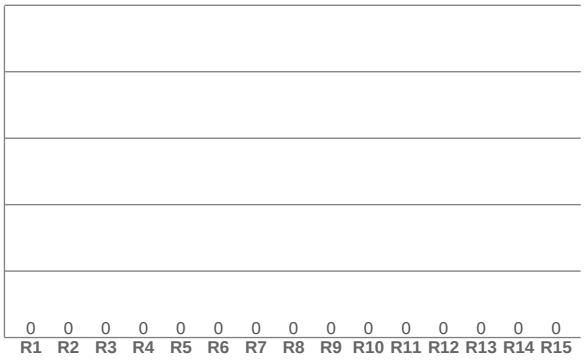




TM30: 0.0



CRI: 0.0 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

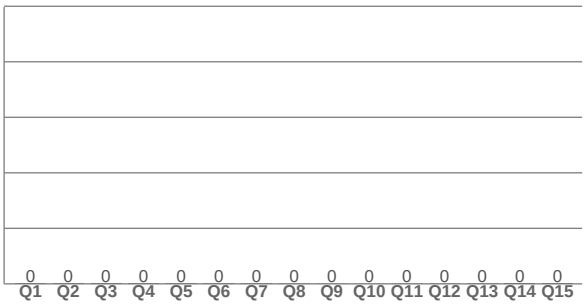
TM30 C Values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CQS Q Values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CQS: 0.0



Color Parameters

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut	Color Quality Scale	Color Coordinate CIE 1931	Color Coordinate CIE 1931	Color Coordinate	Color Coordinate	Color Deviation from Black
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
0 K	0.0	0.0	0.0	0.0	0.0	0.231	0.173	0.200	0.225	n/a

Rayzor 760 (Zoom In)

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TM30 Details

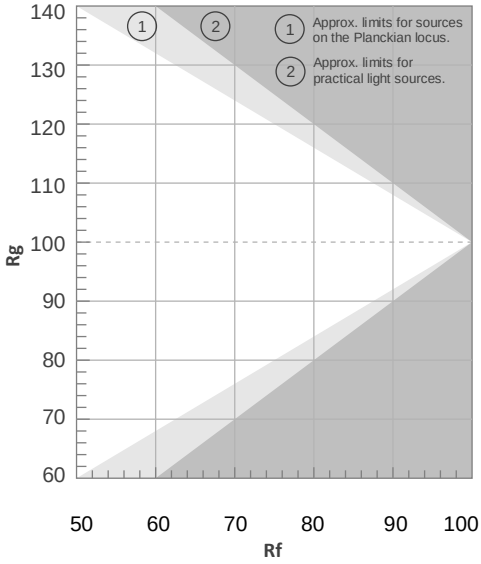
Rf 0.0

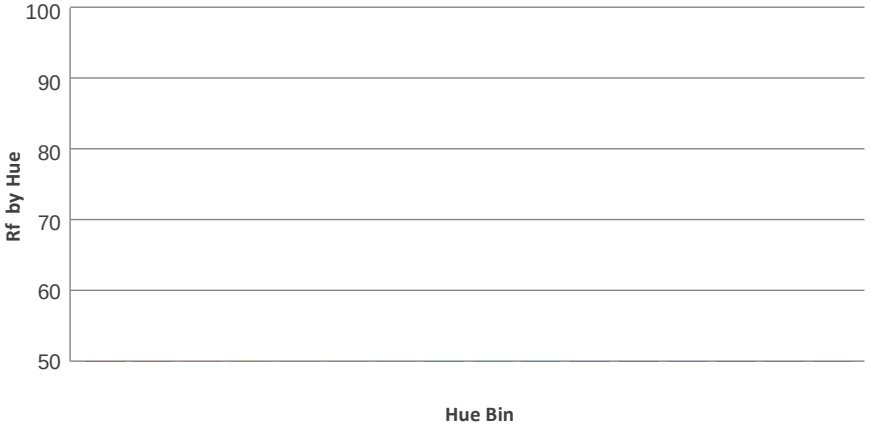
Fidelity Index Rf

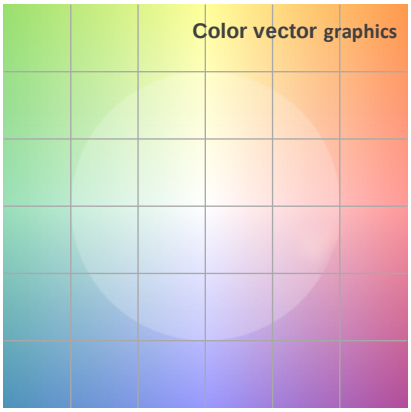
Rg 0.0

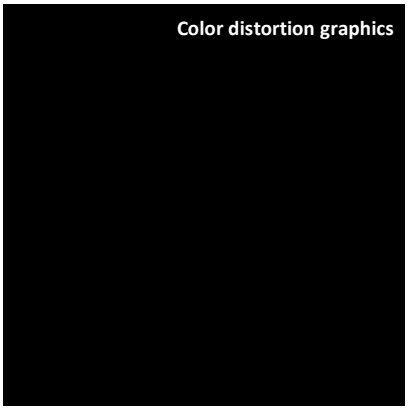
Gamut Index Rg

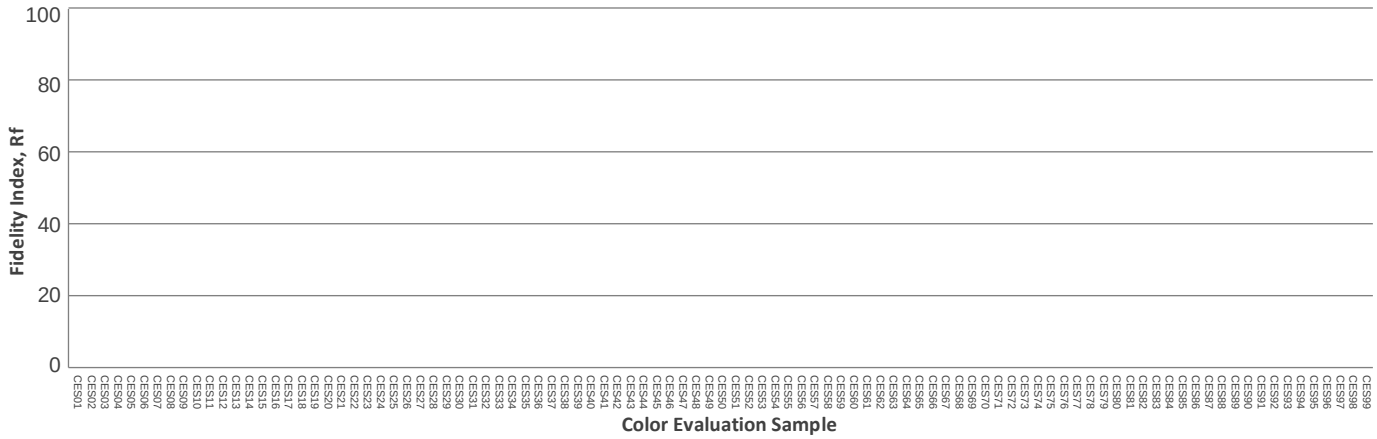
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%











Rayzor 760 (Zoom In)

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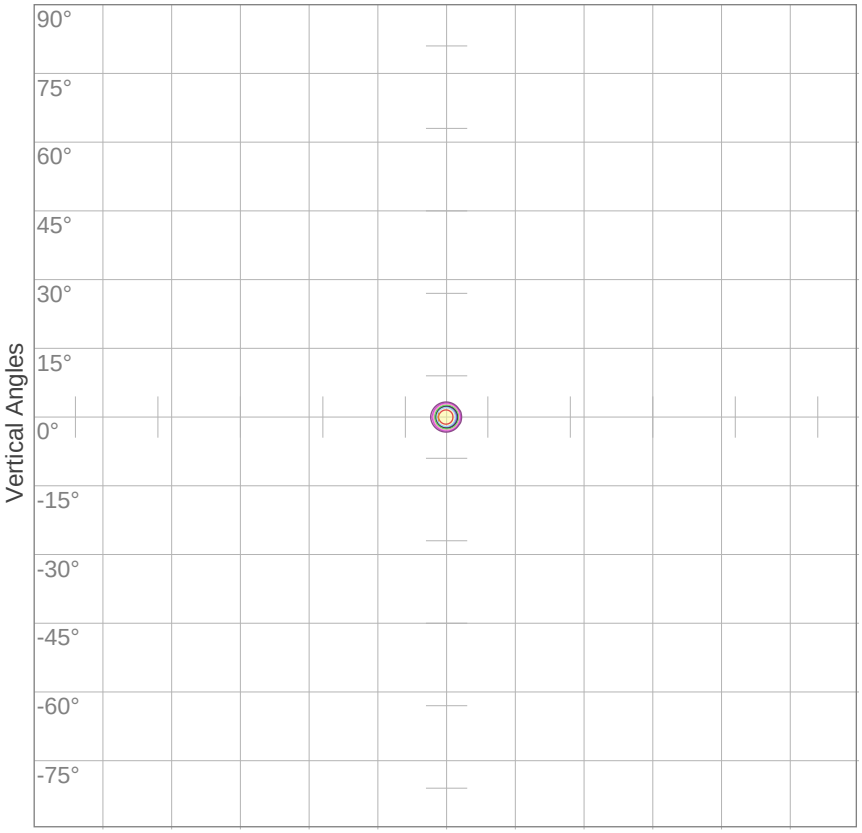
ISO Diagrams

ISO Candela Diagram



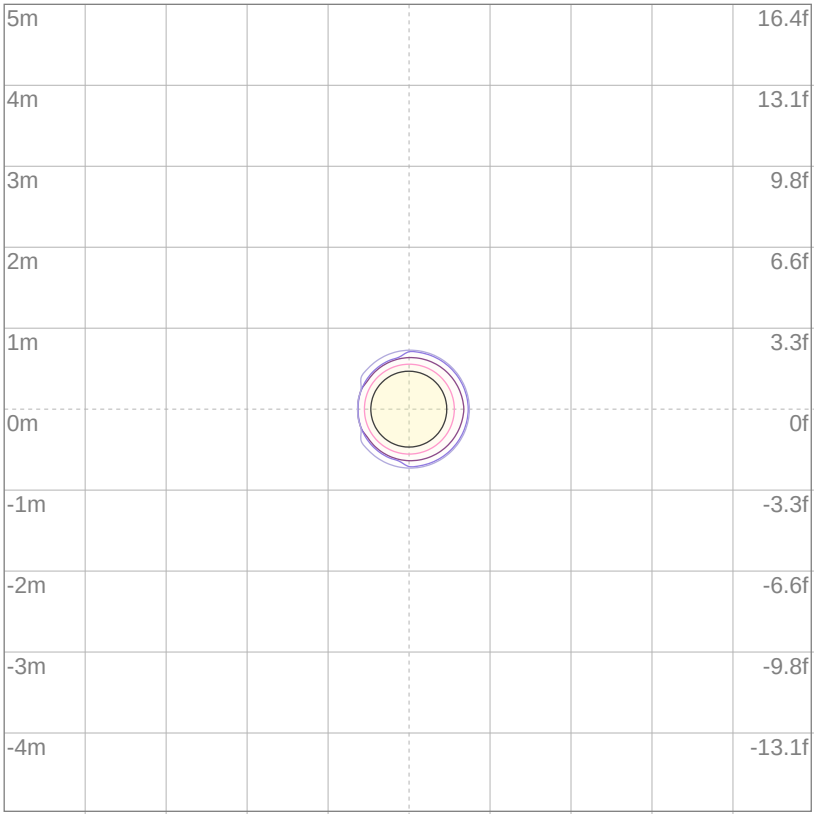
10%	45407 cd
20%	90815 cd
30%	136222 cd
40%	181630 cd
50%	227037 cd
60%	272444 cd
70%	317852 cd
80%	363259 cd
90%	408667 cd

Conditions:

Number of c-planes: 2

Candela at center: 454074 cd

ISO Lux Diagram



Mounting Height: 10 meters (33 feet)

3%	136 lx
5%	227 lx
10%	454 lx
30%	1362 lx
50%	2270 lx

Conditions:

Number of c-planes: 2

Lux at center: 4541 lx

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

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Photometric Report

Total Lumen Output*

Integrating Sphere	**8395 lm**
VISO Lab Spion	**5920 lm**

Color Temperature: 0 K

CRI: 0.0

TLCI: n/a

TM30: 0.0

CQS: 0.0

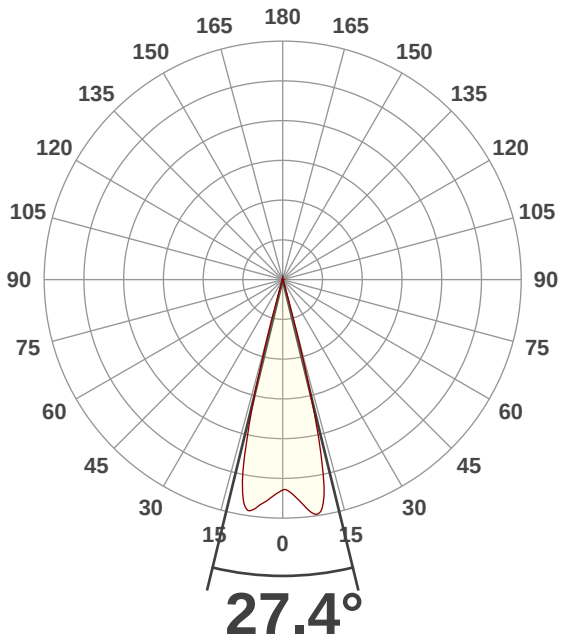
Voltage: 116 V, Current: 5.74 A

Power: 666 W

Efficacy: 9 Lumen/Watt

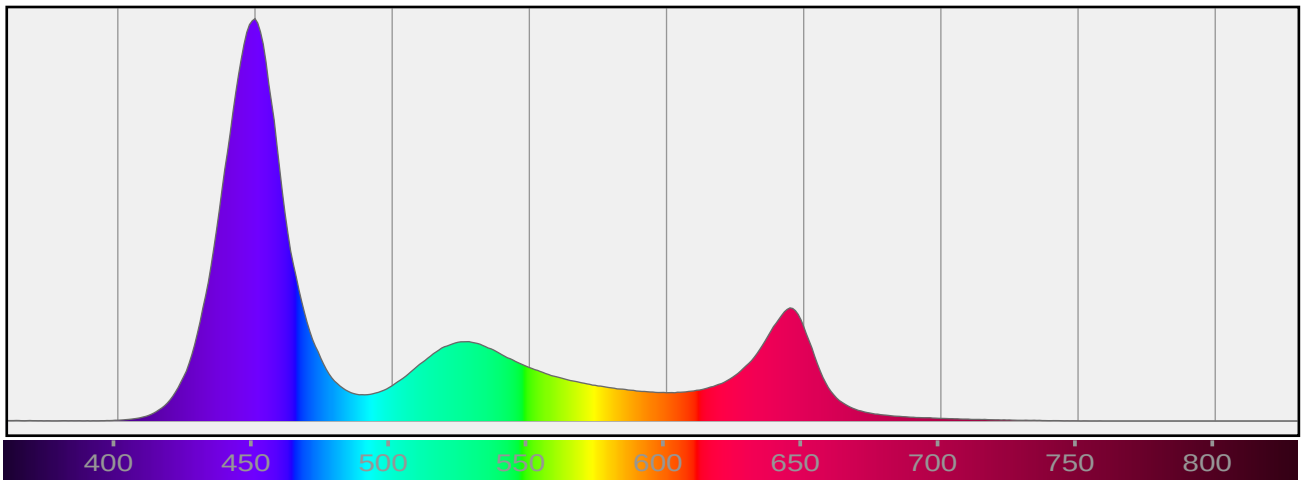
Measurement Date: 8/12/2019

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2.5%
27.4°	32.1°	34.6°



Spectral Distribution

Dominant Wavelength 457 nm



*Total Lumen measurements by calibrated Everfine 2π Integrating Sphere and Viso Systems Lab Spion

Rayzor 760 (Zoom 50%)

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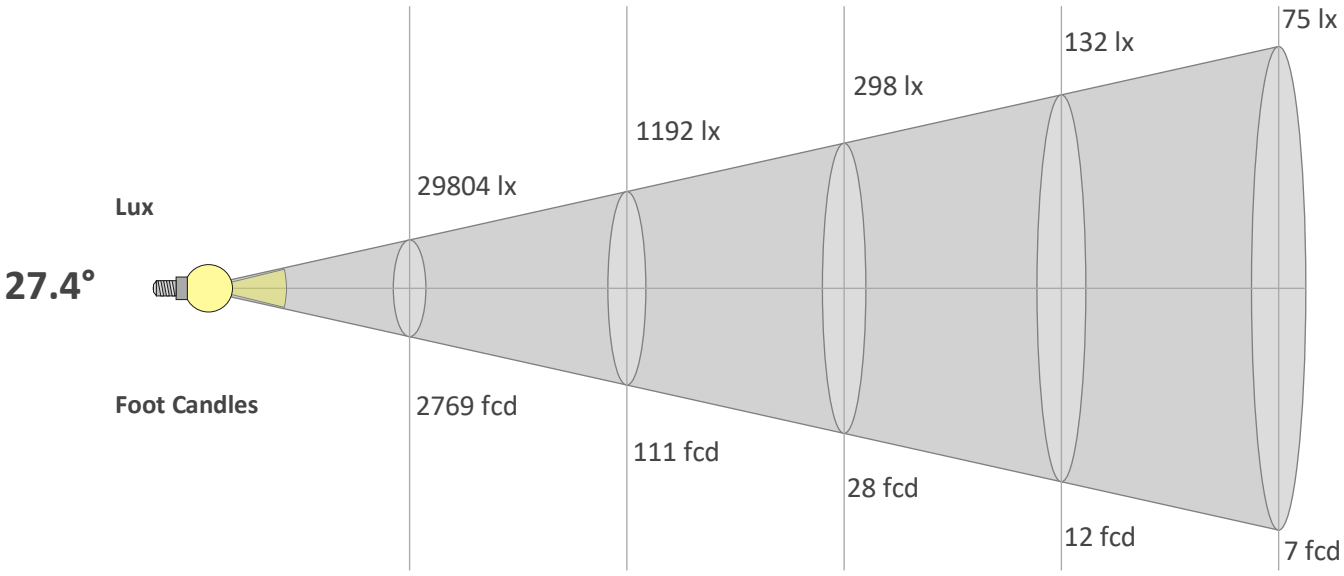
Beam Details

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%
27.4°	**32.1°**	**34.6°**

Distance (m)	1	5	10	15	20
Distance (ft)	3.3	16.4	32.8	49.2	65.6

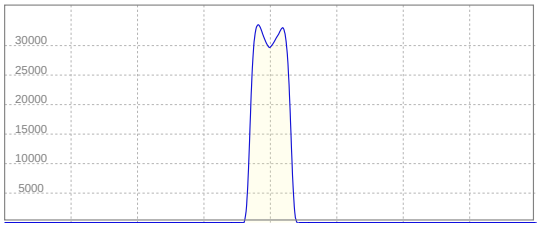


Beam Width (m)	0.5	2.4	4.9	7.3	9.7
Beam Width (ft)	1.6	8	16	24	32

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
LX	29804	7451	3312	1863	1192	828	608	466	368	298	246	207	176	152	132	116	103	92	83	75
FC	2768.9	692.2	307.7	173.1	110.8	76.9	56.5	43.3	34.2	27.7	22.9	19.2	16.4	14.1	12.3	10.8	9.6	8.5	7.7	6.9

Linear Distribution



Peak Candela

33510 cd

Calculate Center Beam Intensities

lux = 33510 / distance(m)^2

fc = 33510 / distance(ft)^2

Rayzor 760 (Zoom 50%)

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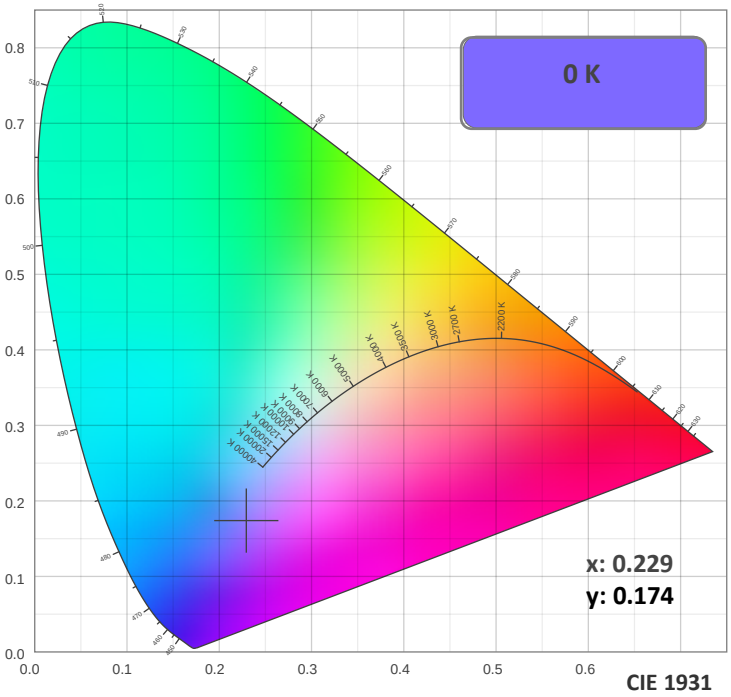
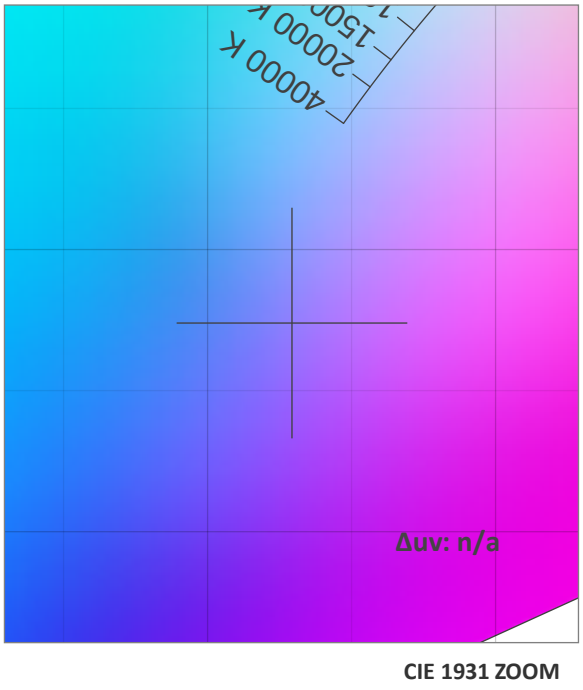
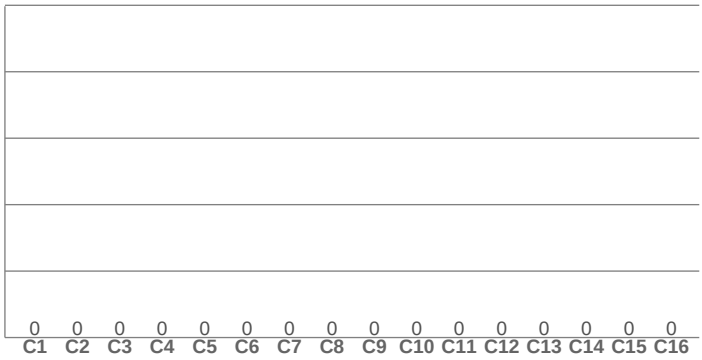
Color Details

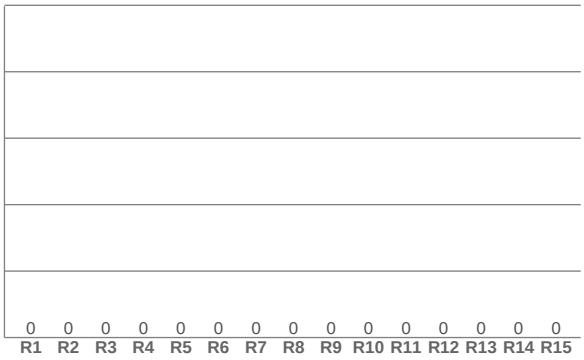




TM30: 0.0



CRI: 0.0 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

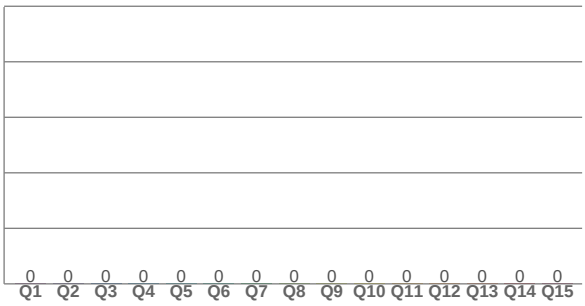
TM30 C Values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CQS Q Values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CQS: 0.0



Color Parameters

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut	Color Quality Scale	Color Coordinate CIE 1931	Color Coordinate CIE 1931	Color Coordinate	Color Coordinate	Color Deviation from Black
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
0 K	0.0	0.0	0.0	0.0	0.0	0.229	0.174	0.198	0.225	n/a

Rayzor 760 (Zoom 50%)

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TM30 Details

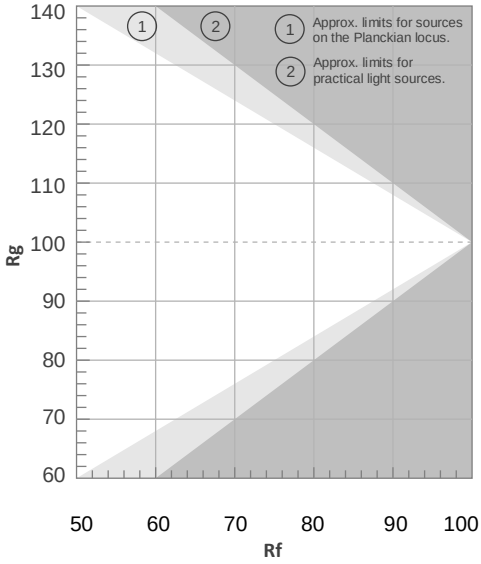
Rf 0.0

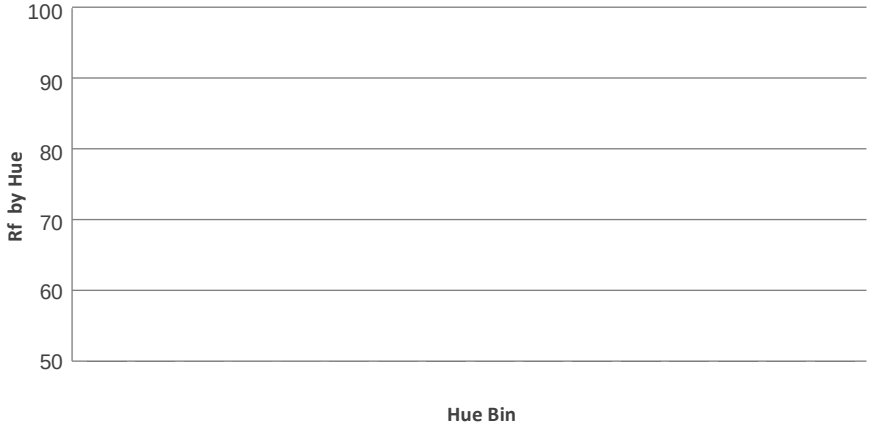
Fidelity Index Rf

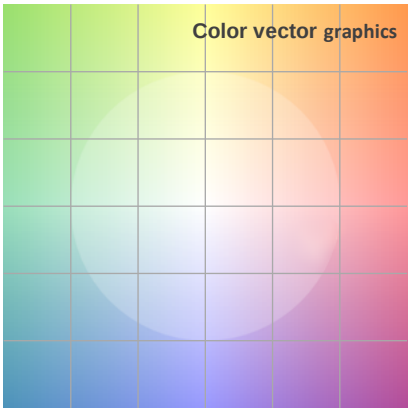
Rg 0.0

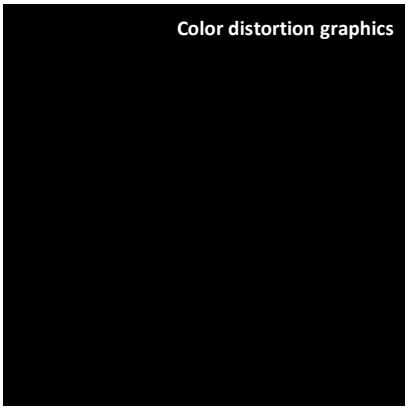
Gamut Index Rg

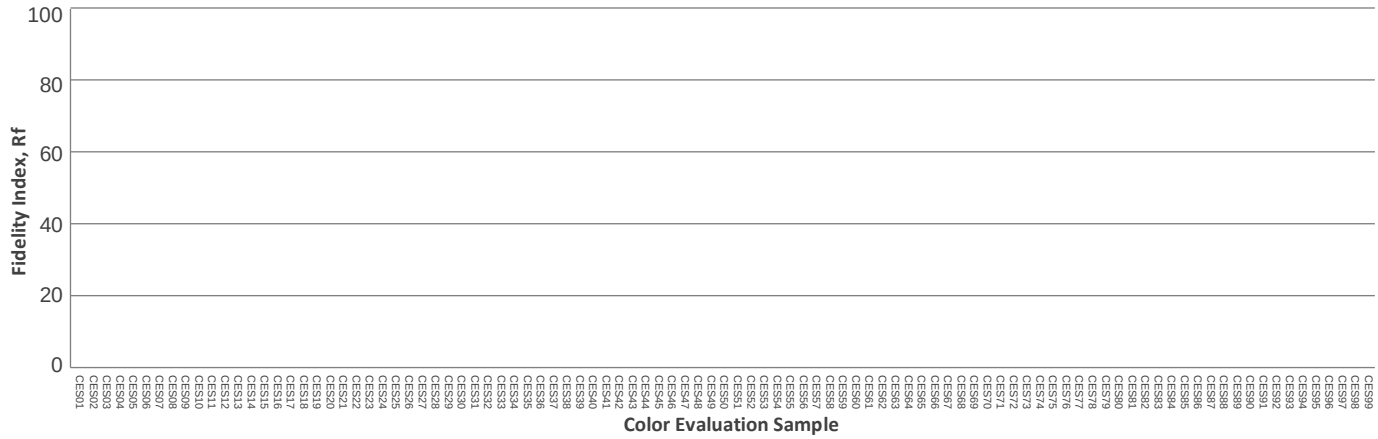
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%











Rayzor 760 (Zoom 50%)

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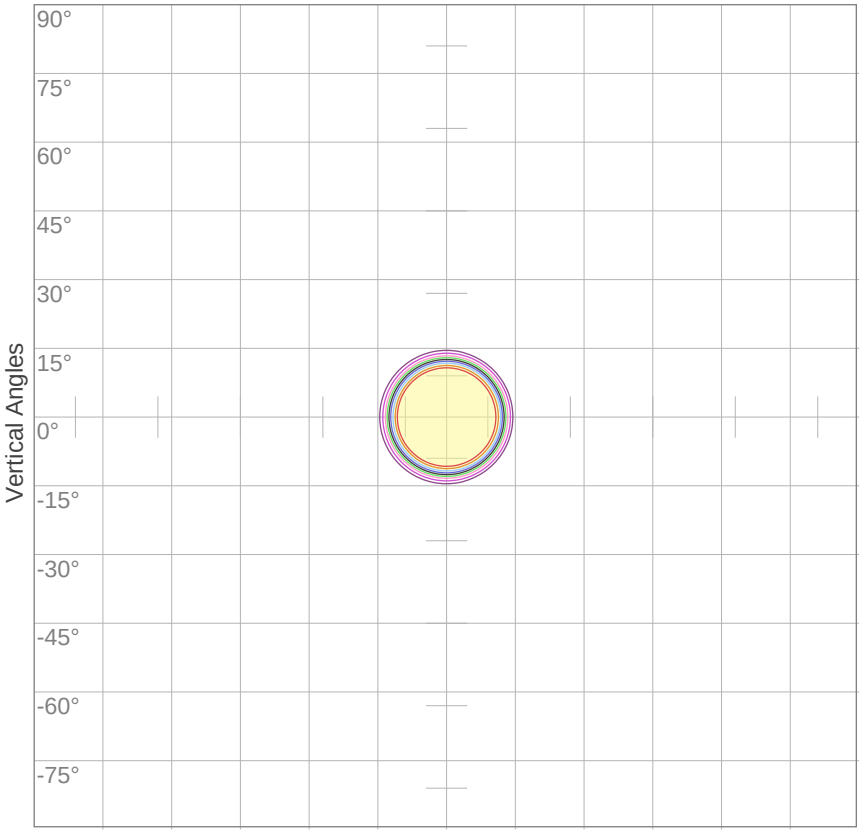
ISO Diagrams

ISO Candela Diagram



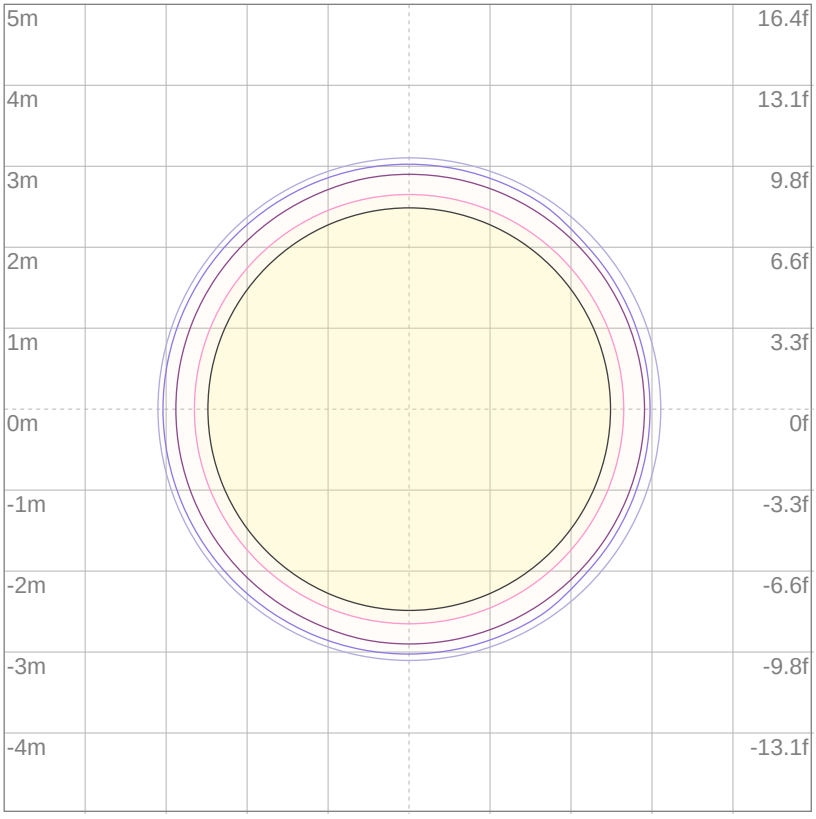
10%	2980 cd
20%	5961 cd
30%	8941 cd
40%	11922 cd
50%	14902 cd
60%	17882 cd
70%	20863 cd
80%	23843 cd
90%	26824 cd

Conditions:

Number of c-planes: 2

Candela at center: 29804 cd

ISO Lux Diagram



Mounting Height: 10 meters (33 feet)

3%	8.94 lx
5%	14.9 lx
10%	29.8 lx
30%	89.4 lx
50%	149 lx

Conditions:

Number of c-planes: 2

Lux at center: 298 lx

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

Prepared For ELATION PROFESSIONAL

Photometric Report

Total Lumen Output*

Integrating Sphere	**8360 lm**
VISO Lab Spion	**7254 lm**

Color Temperature: 0 K

CRI: 0.0

TLCI: n/a

TM30: 0.0

CQS: 0.0

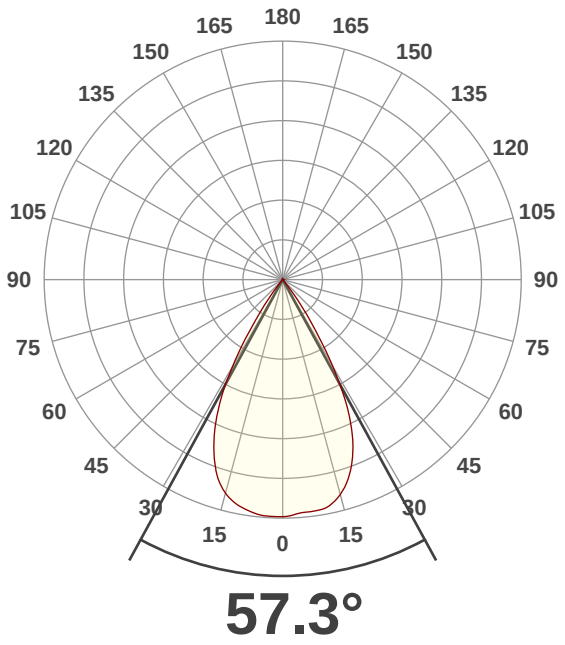
Voltage: 116 V, Current: 5.76 A

Power: 668 W

Efficacy: 11 Lumen/Watt

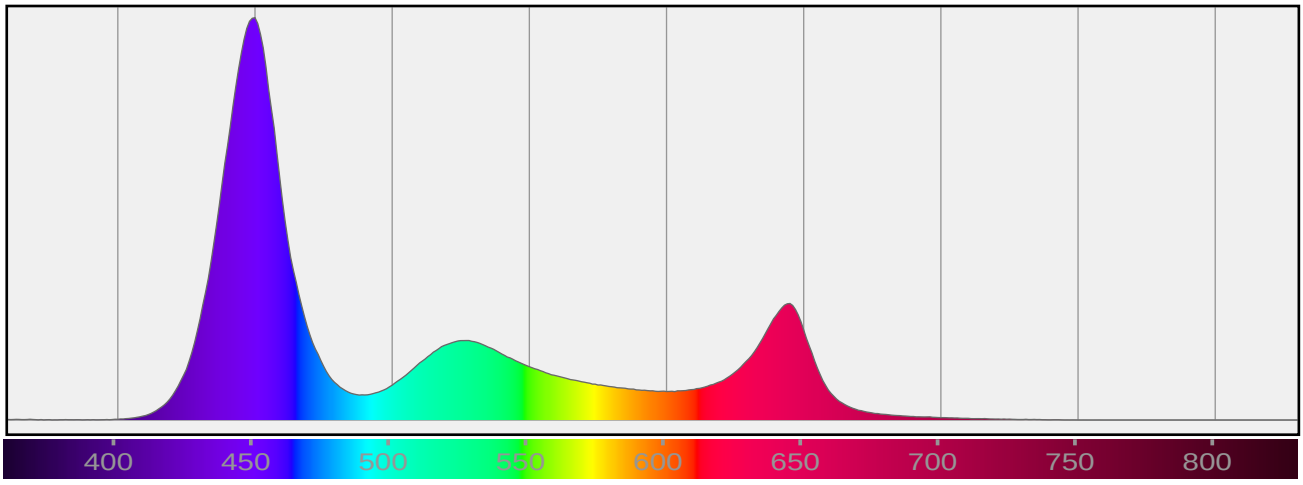
Measurement Date: 8/12/2019

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2.5%
57.3°	73.3°	79.2°



Spectral Distribution

Dominant Wavelength 455 nm



*Total Lumen measurements by calibrated Everfine 2π Integrating Sphere and Viso Systems Lab Spion

Rayzor 760 (Zoom Out)

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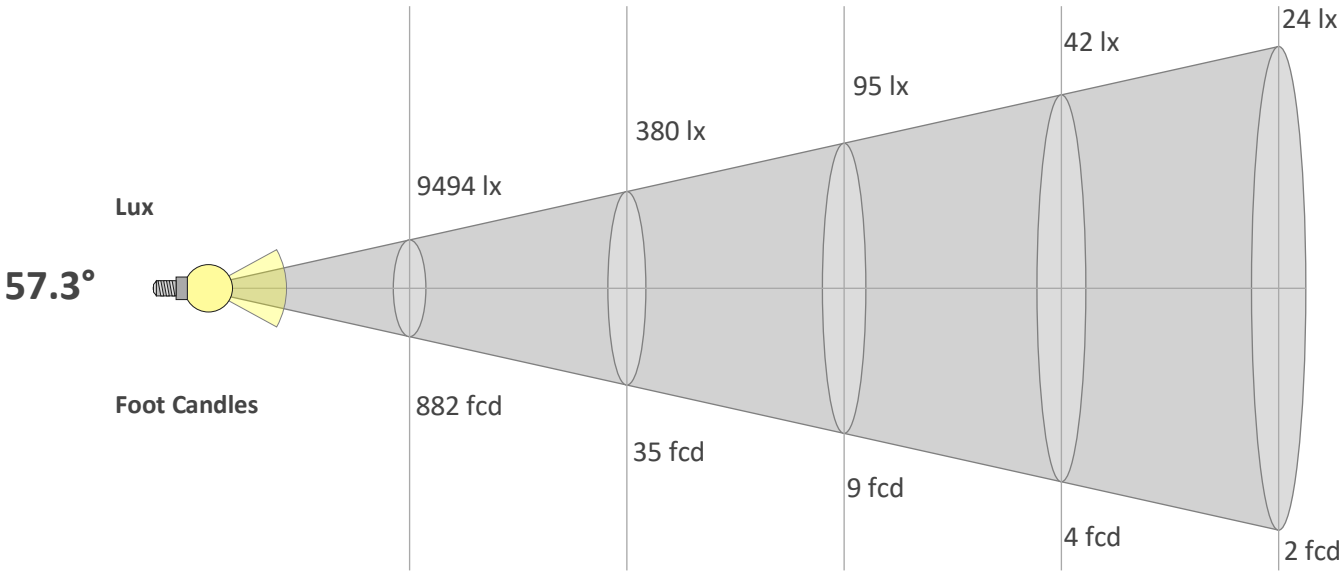
Beam Details

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%
57.3°	**73.3°**	**79.2°**

Distance (m)	1	5	10	15	20
Distance (ft)	3.3	16.4	32.8	49.2	65.6

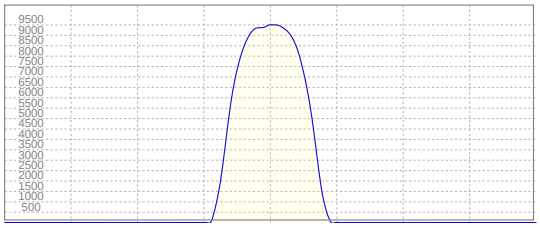


Beam Width (m)	1.1	5.5	10.9	16.4	21.9
Beam Width (ft)	3.6	17.9	35.8	53.8	71.7

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
LX	9494	2374	1055	593	380	264	194	148	117	95	78	66	56	48	42	37	33	29	26	24
FC	882	220.5	98	55.1	35.3	24.5	18	13.8	10.9	8.8	7.3	6.1	5.2	4.5	3.9	3.4	3.1	2.7	2.4	2.2

Linear Distribution



Peak Candela

9502 cd

Calculate Center Beam Intensities

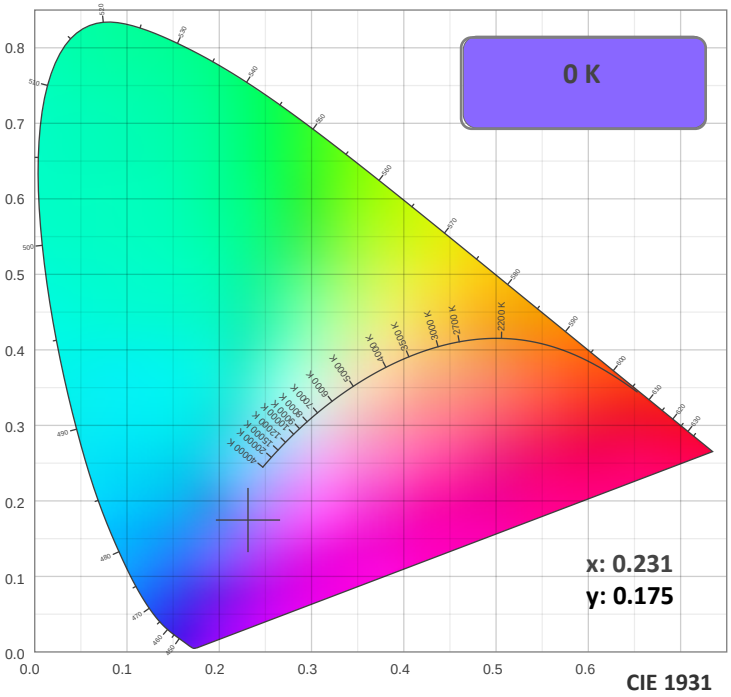
lux = 9502 / distance(m)^2

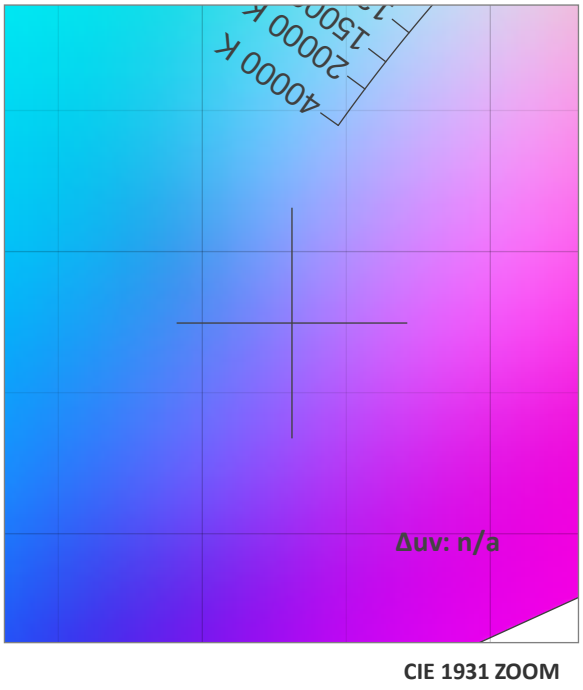
fc = 9502 / distance(ft)^2

Rayzor 760 (Zoom Out)

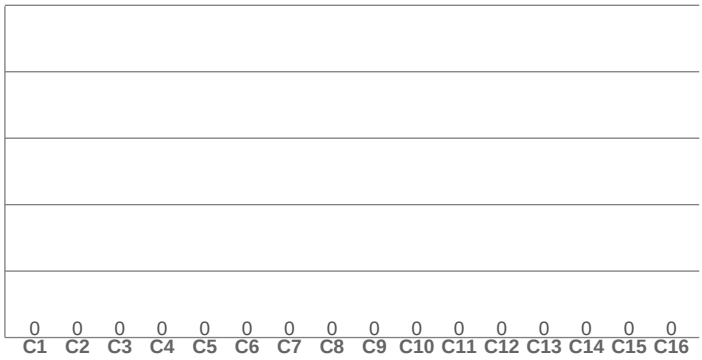
Prepared For ELATION PROFESSIONAL

Color Details

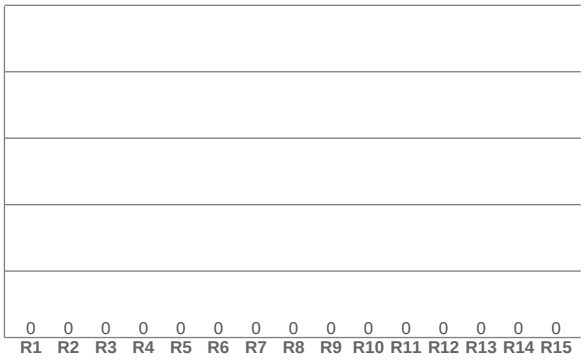




TM30: 0.0



CRI: 0.0 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

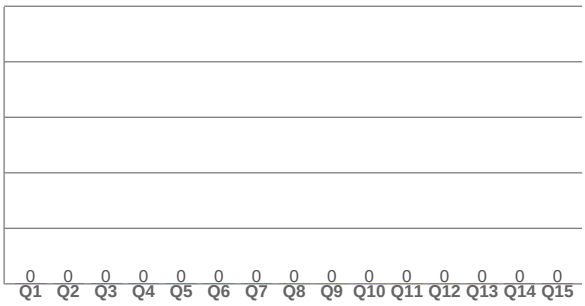
TM30 C Values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CQS Q Values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CQS: 0.0



Color Parameters

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut	Color Quality Scale	Color Coordinate CIE 1931	Color Coordinate CIE 1931	Color Coordinate	Color Coordinate	Color Deviation from Black
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
0 K	0.0	0.0	0.0	0.0	0.0	0.231	0.175	0.200	0.226	n/a

Rayzor 760 (Zoom Out)

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TM30 Details

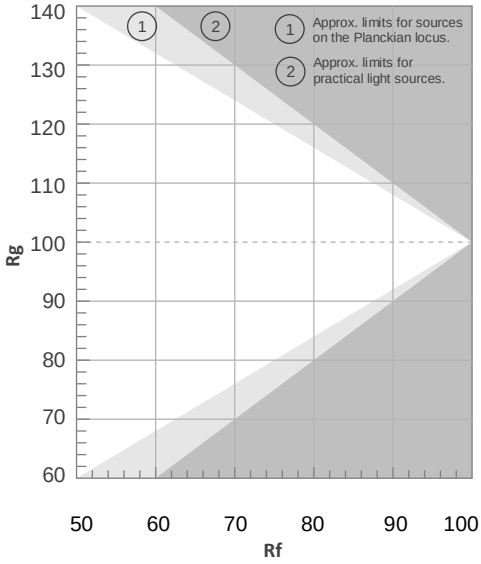
Rf 0.0

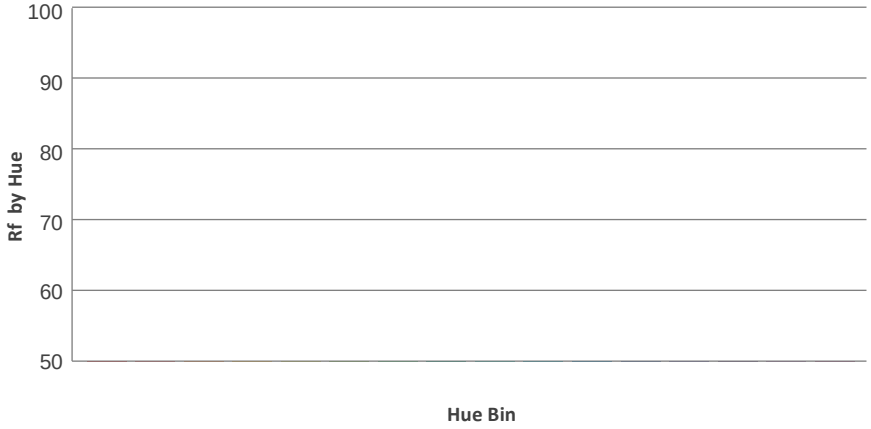
Fidelity Index Rf

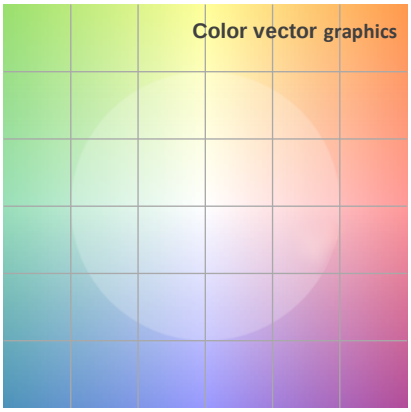
Rg 0.0

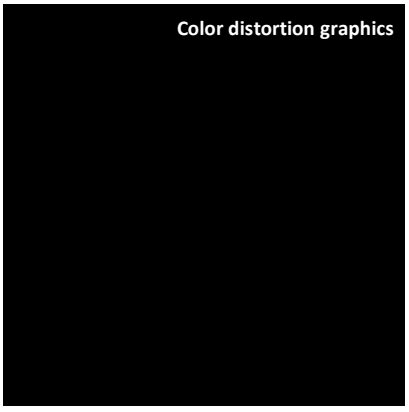
Gamut Index Rg

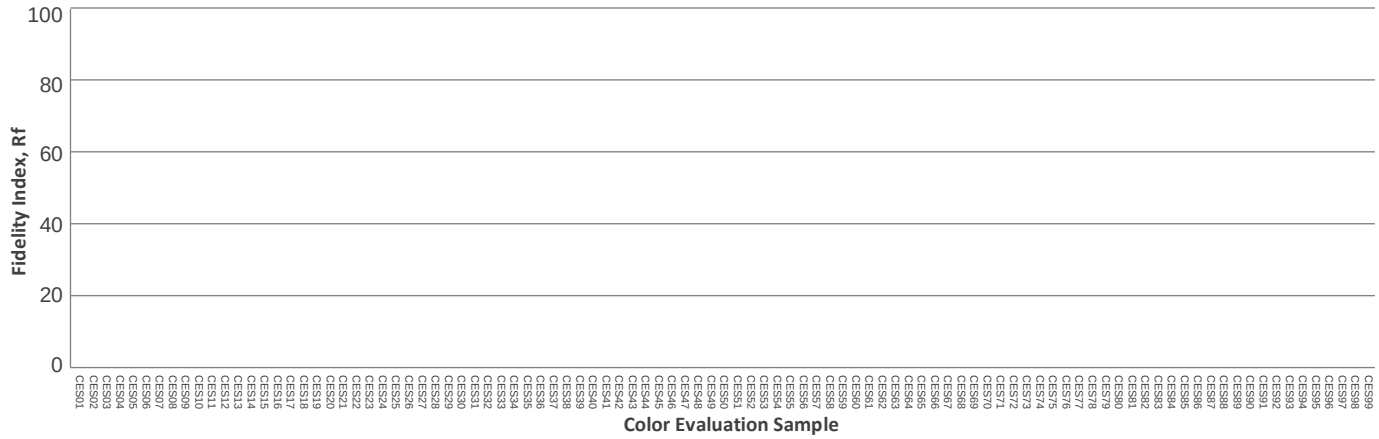
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%











Rayzor 760 (Zoom Out)

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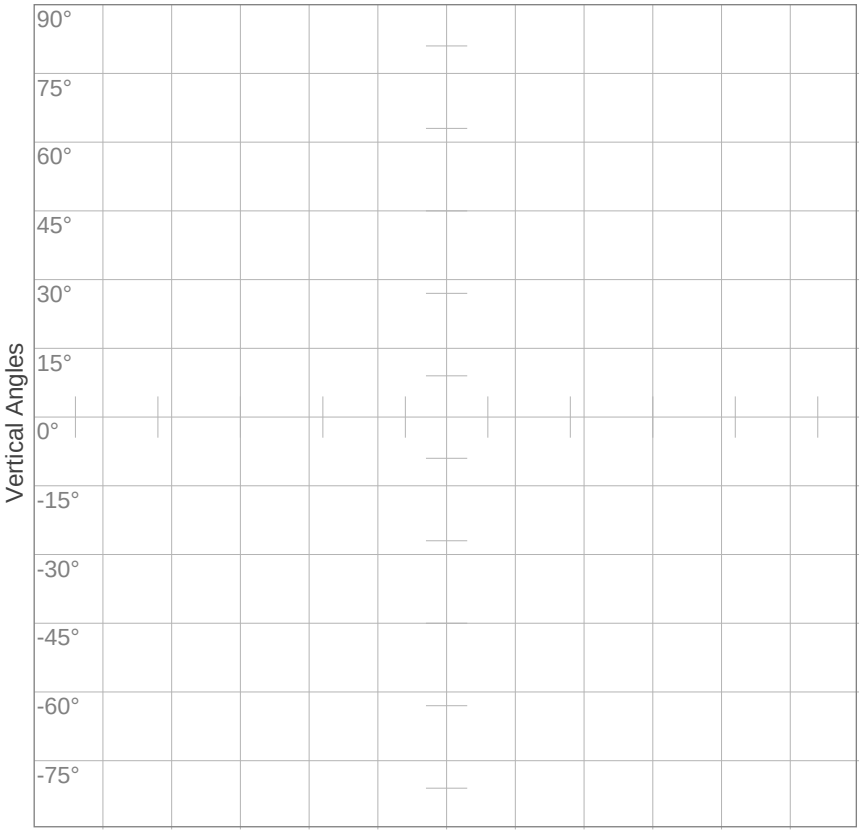
ISO Diagrams

ISO Candela Diagram



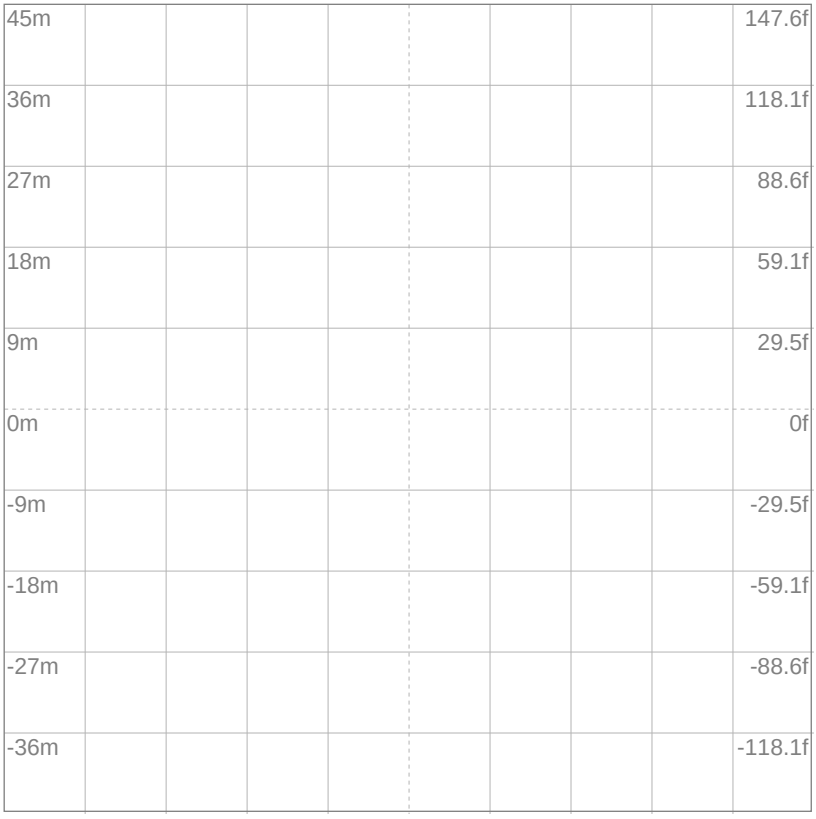
10%	949 cd
20%	1899 cd
30%	2848 cd
40%	3798 cd
50%	4747 cd
60%	5696 cd
70%	6646 cd
80%	7595 cd
90%	8545 cd

Conditions:

Number of c-planes: 2

Candela at center: 9494 cd

ISO Lux Diagram



Mounting Height: 10 meters (33 feet)

3%	2.85 lx
5%	4.75 lx
10%	9.49 lx
30%	28.5 lx
50%	47.5 lx

Conditions:

Number of c-planes: 2

Lux at center: 94.9 lx

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

Prepared For ELATION PROFESSIONAL

Photometric Report

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2.5%
27.4°	32.2°	34.6°

Total Lumen Output*

Integrating Sphere N/A

VISO Lab Spion 4051 lm

Color Temperature: 3067 K

CRI: 73.6

TLCI: 54

TM30: 66.7

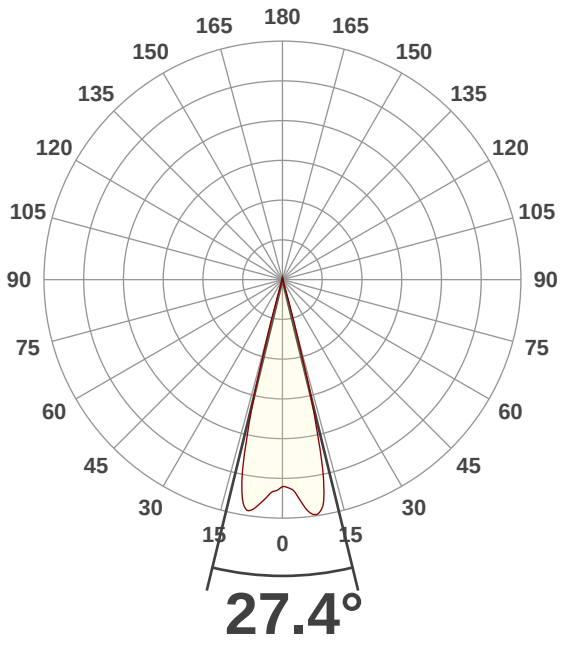
CQS: 78.1

Voltage: 116 V, Current: 2.59 A

Power: 300 W

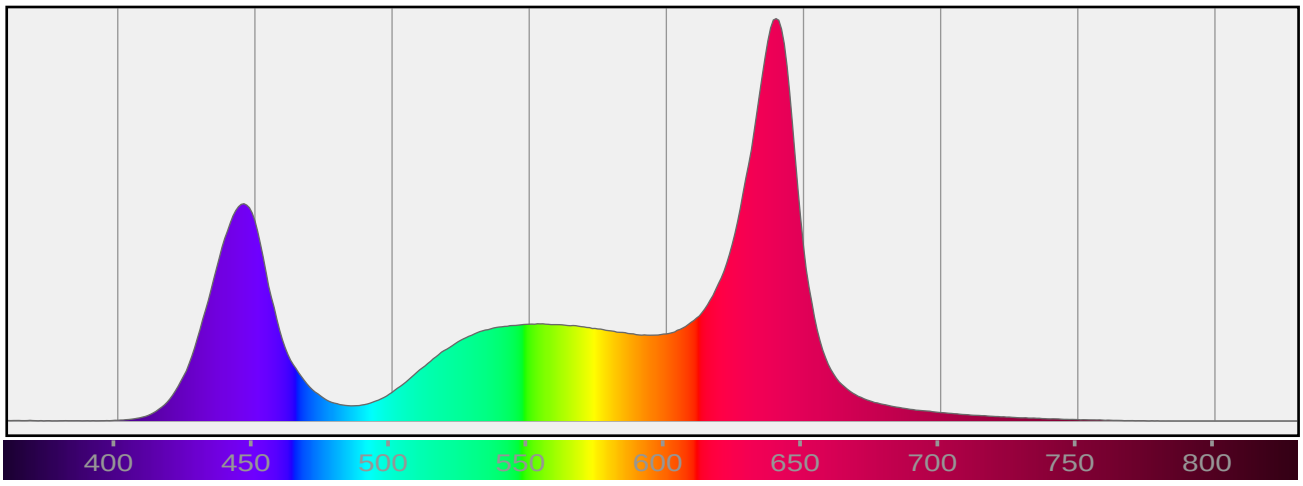
Efficacy: 14 Lumen/Watt

Measurement Date: 8/5/2019



Spectral Distribution

Dominant Wavelength 829 nm



*Total Lumen measurements by calibrated Everfine 2π Integrating Sphere and Viso Systems Lab Spion

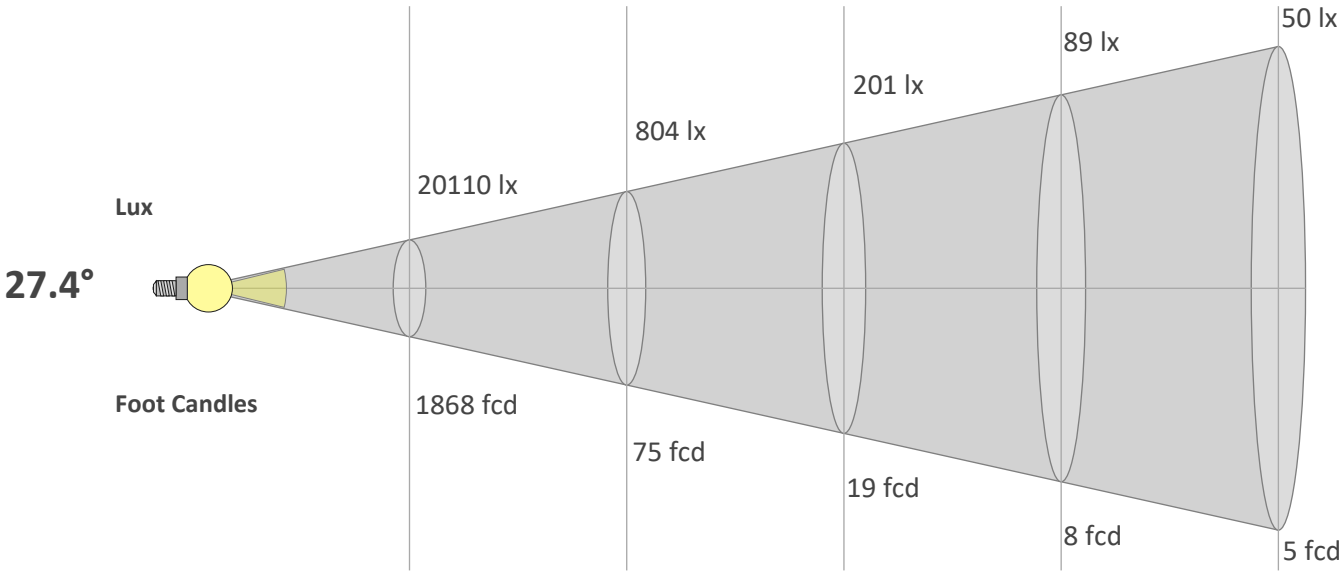
Rayzor 760 (CTO)

Prepared For ELATION PROFESSIONAL

Beam Details

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%
27.4°	**32.2°**	**34.6°**

Distance (m)	1	5	10	15	20
Distance (ft)	3.3	16.4	32.8	49.2	65.6

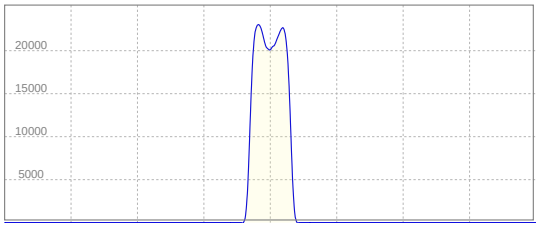


Beam Width (m)	0.5	2.4	4.9	7.3	9.7
Beam Width (ft)	1.6	8	16	24	31.9

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
LX	20110	5028	2234	1257	804	559	410	314	248	201	166	140	119	103	89	79	70	62	56	50
FC	1868.3	467.1	207.6	116.8	74.7	51.9	38.1	29.2	23.1	18.7	15.4	13	11.1	9.5	8.3	7.3	6.5	5.8	5.2	4.7

Linear Distribution



Peak Candela

23003 cd

Calculate Center Beam Intensities

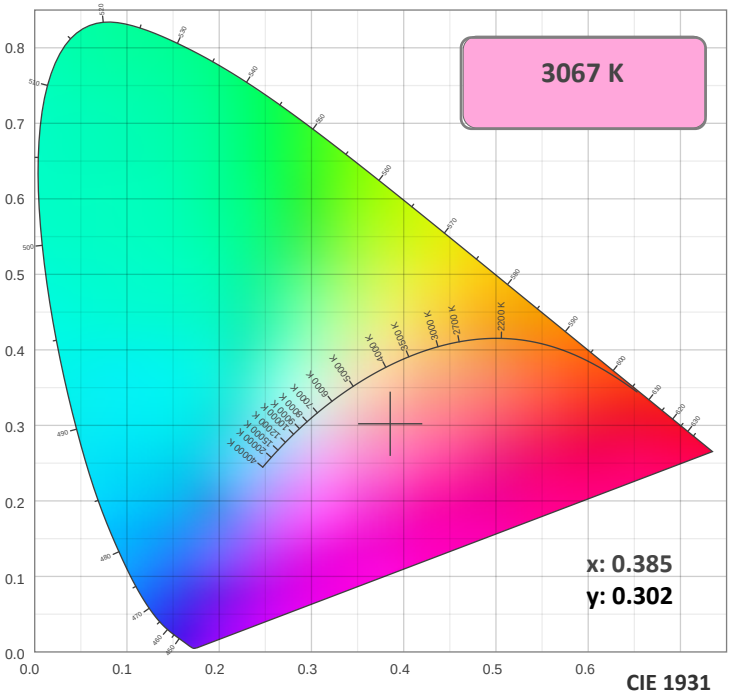
lux = 23003 / distance(m)^2

fc = 23003 / distance(ft)^2

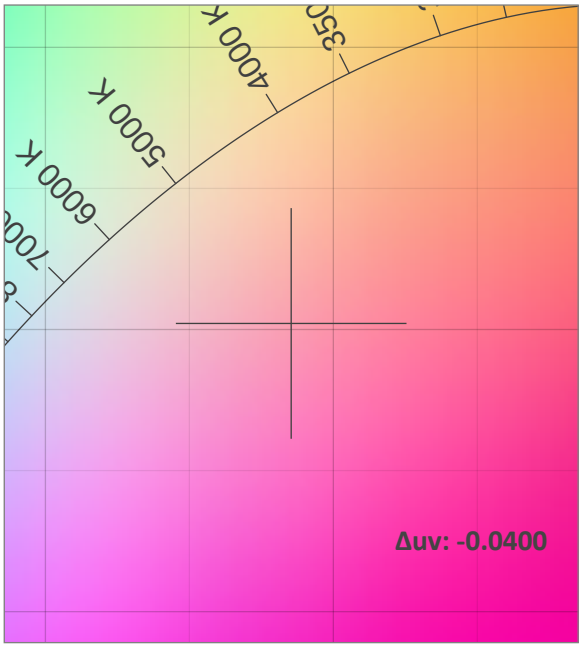
Rayzor 760 (CTO)

Prepared For ELATION PROFESSIONAL

Color Details

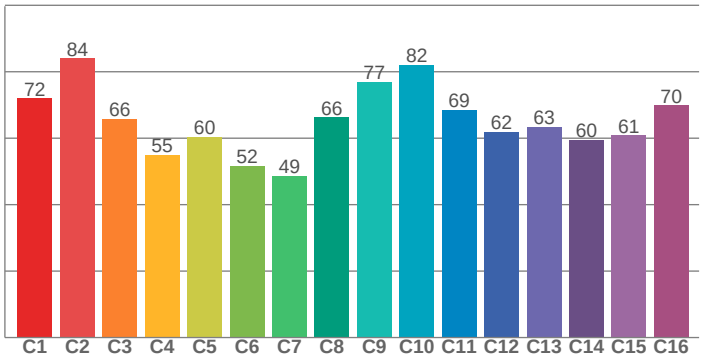


CIE 1931

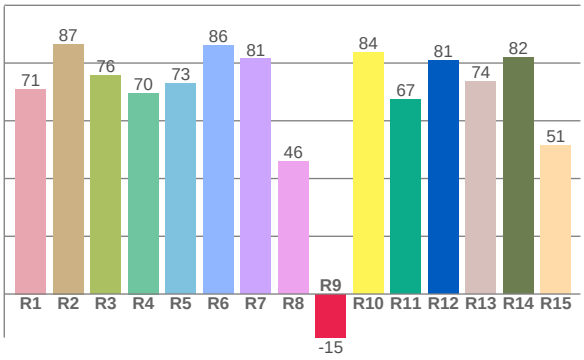


CIE 1931 ZOOM

TM30: 66.7



CRI: 73.6 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
71.0	86.6	75.6	69.6	72.9	86.0	81.4	46.0	-15.1	83.6	67.3	80.8	73.7	82.0	51.4

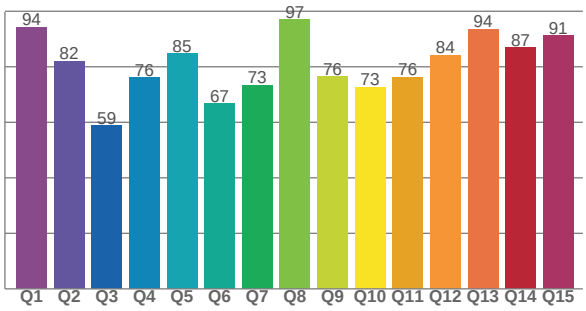
TM30 C Values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
72.0	84.1	65.8	54.9	60.4	51.8	48.6	66.3	76.9	82.1	68.6	61.9	63.4	59.5	60.9	69.8

CQS Q Values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94.3	82.1	58.8	76.1	84.8	66.6	73.4	97.0	76.4	72.6	76.3	84.3	93.7	86.9	91.2

CQS: 78.1



Color Parameters

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut	Color Quality Scale	Color Coordinate CIE 1931	Color Coordinate CIE 1931	Color Coordinate	Color Coordinate	Color Deviation from Black
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3067 K	73.6	-15.1	66.7	127.2	78.1	0.385	0.302	0.263	0.310	-0.0400

Rayzor 760 (CTO)

Prepared For ELATION PROFESSIONAL

TM30 Details

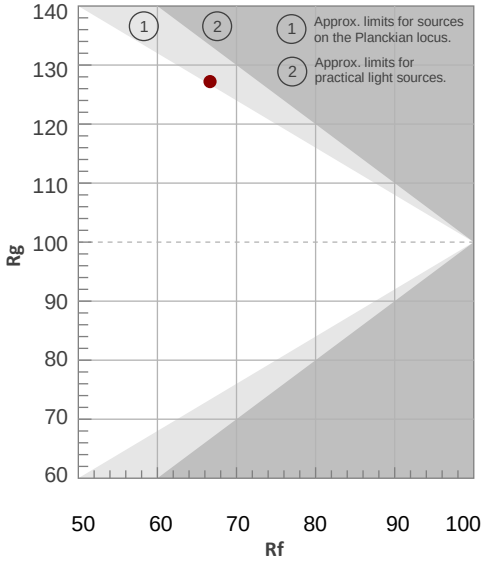
Rf 66.7

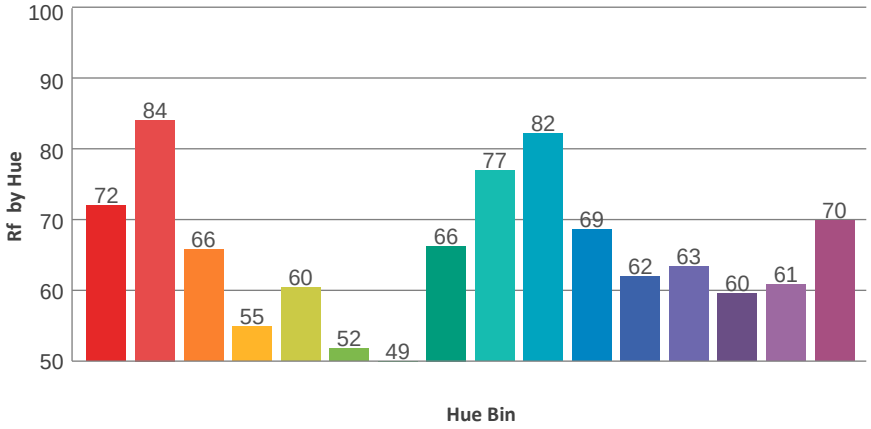
Fidelity Index Rf

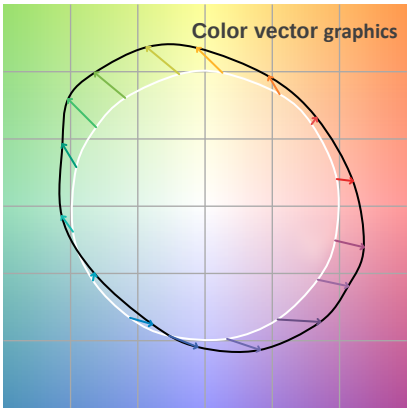
Rg 127.2

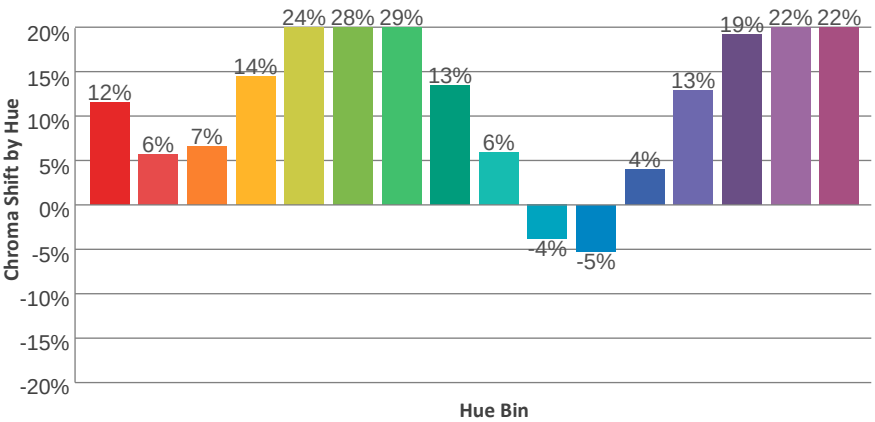
Gamut Index Rg

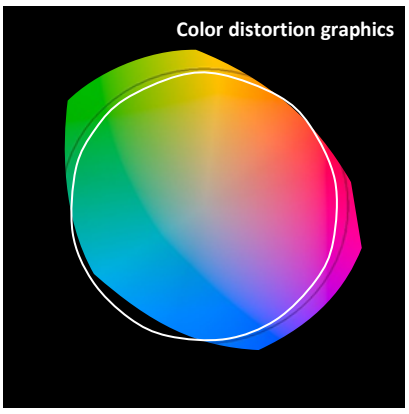
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	72	12%	-4%
2	84	6%	2%
3	66	7%	14%
4	55	14%	22%
5	60	24%	20%
6	52	28%	8%
7	49	29%	-6%
8	66	13%	-15%
9	77	6%	-13%
10	82	-4%	-4%
11	69	-5%	16%
12	62	4%	22%
13	63	13%	22%
14	60	19%	25%
15	61	22%	9%
16	70	22%	-1%

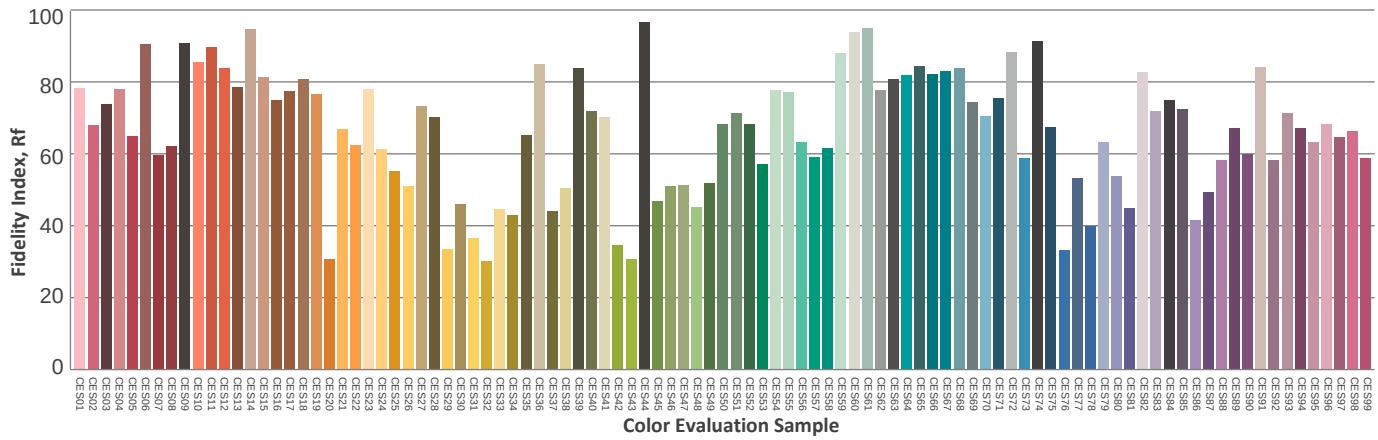












Rayzor 760 (CTO)

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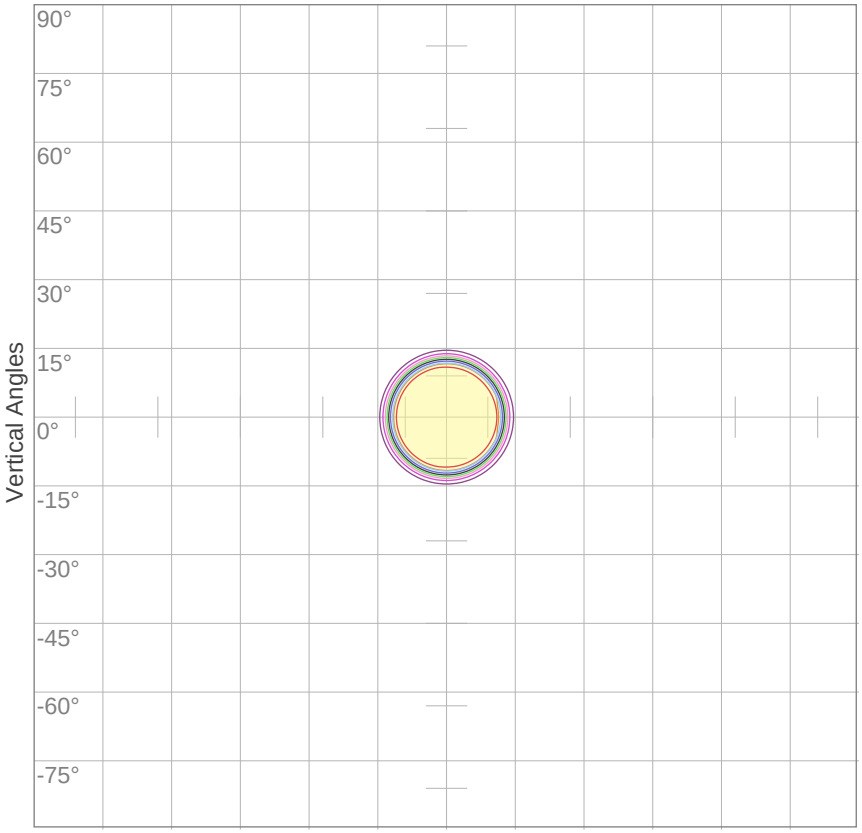
ISO Diagrams

ISO Candela Diagram



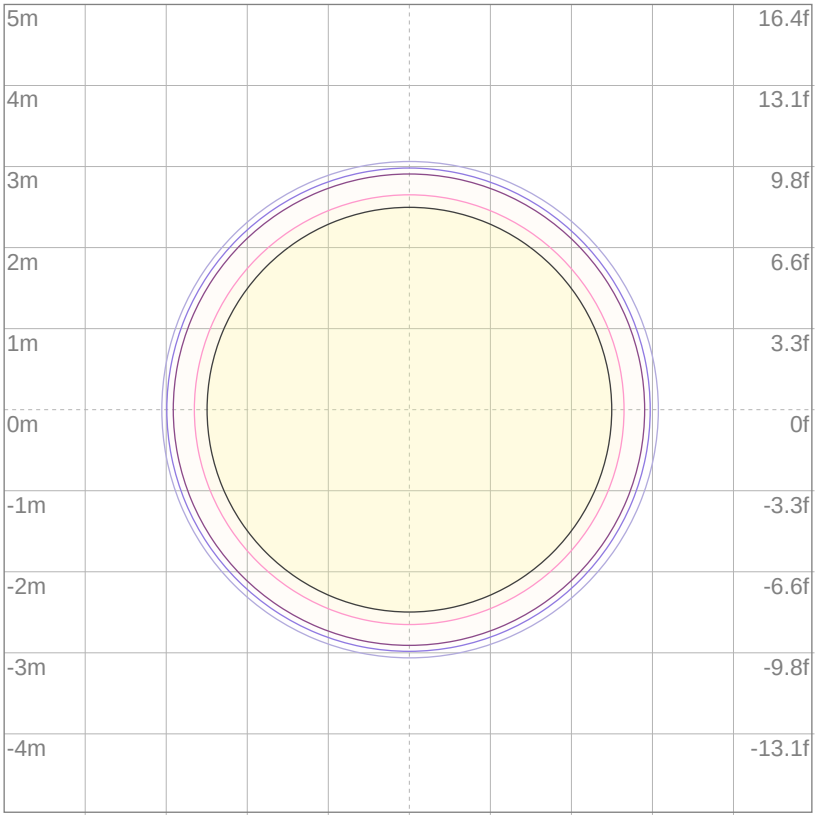
10%	2011 cd
20%	4022 cd
30%	6033 cd
40%	8044 cd
50%	10055 cd
60%	12066 cd
70%	14077 cd
80%	16088 cd
90%	18099 cd

Conditions:

Number of c-planes: 2

Candela at center: 20110 cd

ISO Lux Diagram



Mounting Height: 10 meters (33 feet)

3%	6.03 lx
5%	10.1 lx
10%	20.1 lx
30%	60.3 lx
50%	101 lx

Conditions:

Number of c-planes: 2

Lux at center: 201 lx

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

Prepared For ELATION PROFESSIONAL

Photometric Report

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2.5%
27.4°	32.5°	34.6°

Total Lumen Output*

Integrating Sphere n/a

VISO Lab Spion 5383 lm

Color Temperature: 5805 K

CRI: 80.9

TLCI: 80

TM30: 82.4

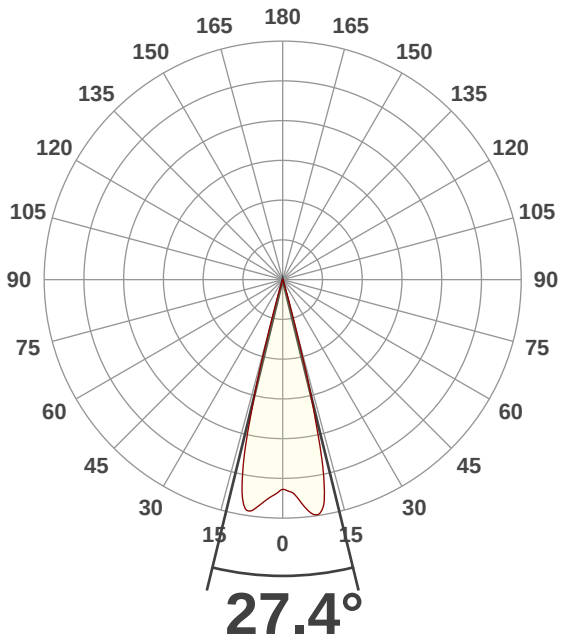
CQS: 87.9

Voltage: 116 V, Current: 3.52 A

Power: 408 W

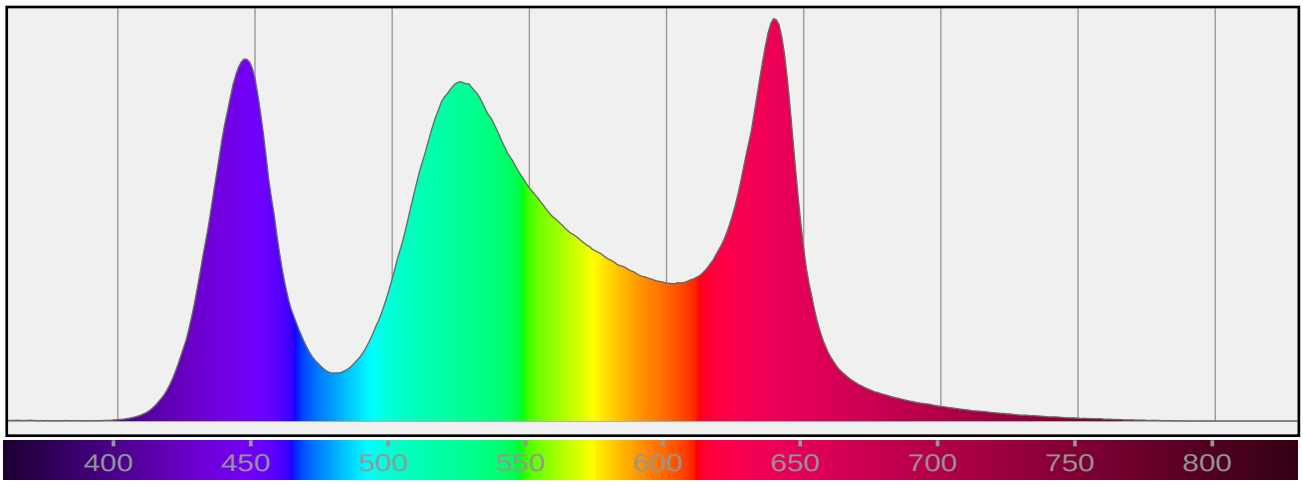
Efficacy: 13 Lumen/Watt

Measurement Date: 8/12/2019



Spectral Distribution

Dominant Wavelength 564 nm



*Total Lumen measurements by calibrated Everfine 2π Integrating Sphere and Viso Systems Lab Spion

Rayzor 760 (CRI Zoom 50%)

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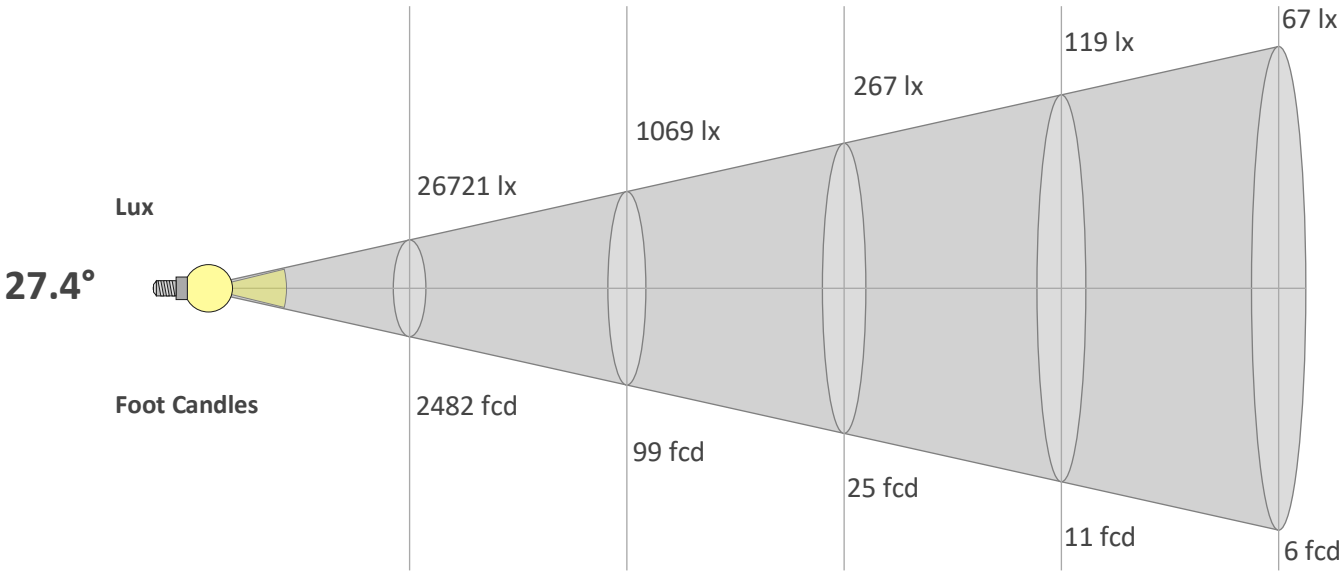
Beam Details

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%
27.4°	**32.5°**	**34.6°**

Distance (m)	1	5	10	15	20
Distance (ft)	3.3	16.4	32.8	49.2	65.6

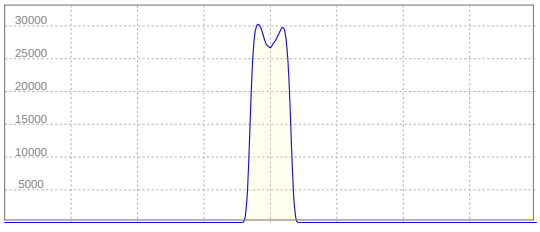


Beam Width (m)	0.5	2.4	4.9	7.3	9.8
Beam Width (ft)	1.6	8	16	24	32

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
LX	26721	6680	2969	1670	1069	742	545	418	330	267	221	186	158	136	119	104	92	82	74	67
FC	2482.5	620.6	275.8	155.2	99.3	69	50.7	38.8	30.6	24.8	20.5	17.2	14.7	12.7	11	9.7	8.6	7.7	6.9	6.2

Linear Distribution



Peak Candela

30173 cd

Calculate Center Beam Intensities

lux = 30173 / distance(m)²

fc = 30173 / distance(ft)²

Rayzor 760 (CRI Zoom 50%)

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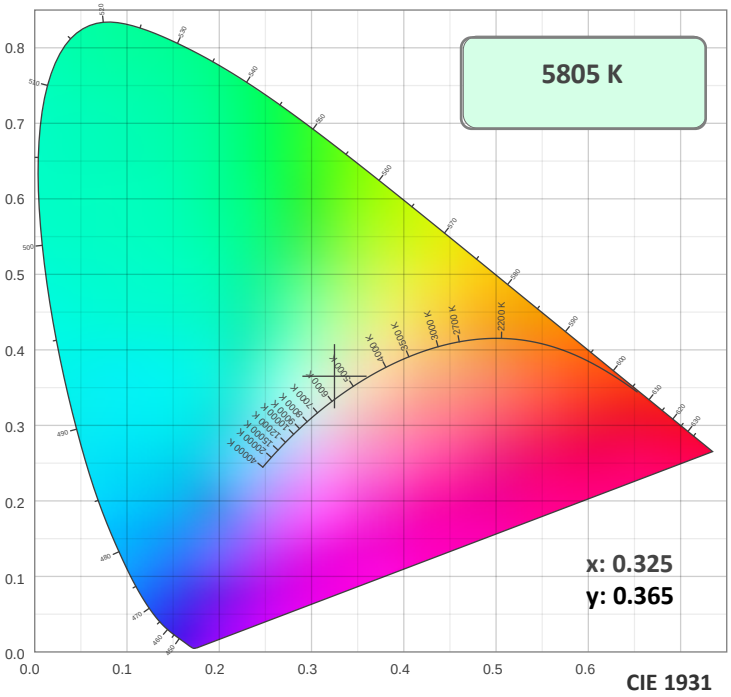
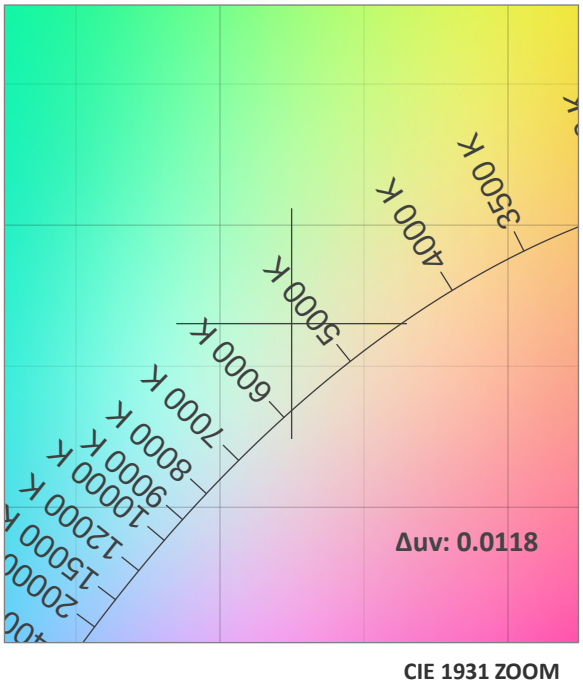
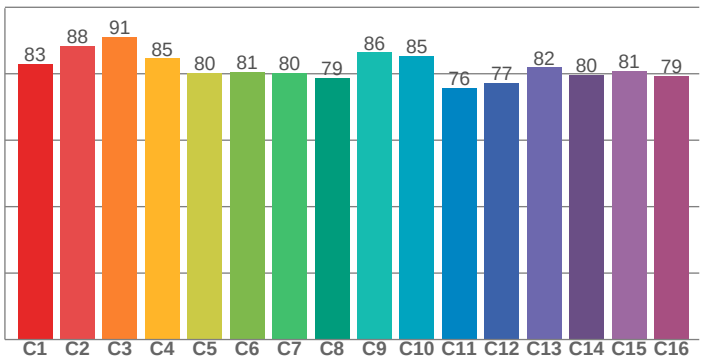
Color Details

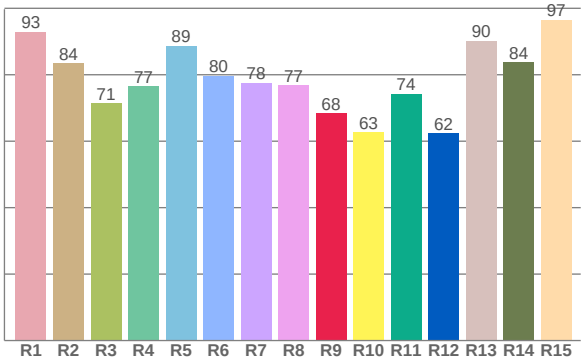




TM30: 82.4



CRI: 80.9 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92.9	83.5	71.4	76.6	88.8	79.7	77.6	76.8	68.4	62.6	74.3	62.3	90.2	83.7	96.5

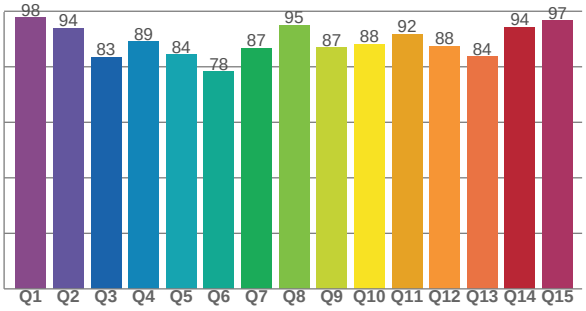
TM30 C Values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82.9	88.5	91.1	84.6	80.3	80.6	80.2	78.7	86.5	85.4	75.7	77.3	82.0	79.7	81.0	79.4

CQS Q Values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97.7	93.9	83.4	89.0	84.5	78.3	86.8	95.1	86.9	88.2	91.7	87.5	83.7	94.3	96.6

CQS: 87.9



Color Parameters

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut	Color Quality Scale	Color Coordinate CIE 1931	Color Coordinate CIE 1931	Color Coordinate	Color Coordinate	Color Deviation from Black
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
5805 K	80.9	68.4	82.4	107.6	87.9	0.325	0.365	0.193	0.325	0.0118

Rayzor 760 (CRI Zoom 50%)

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TM30 Details

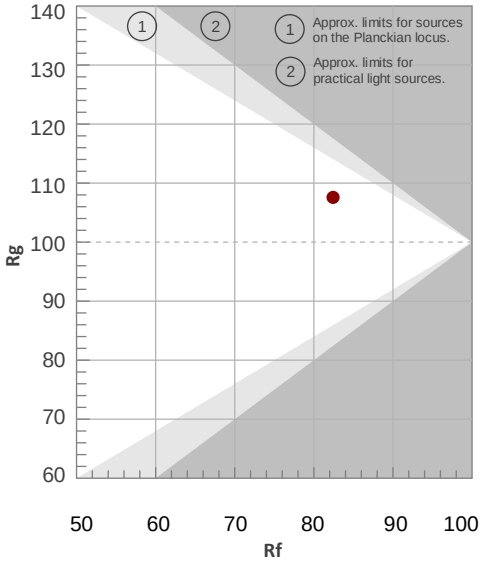
Rf 82.4

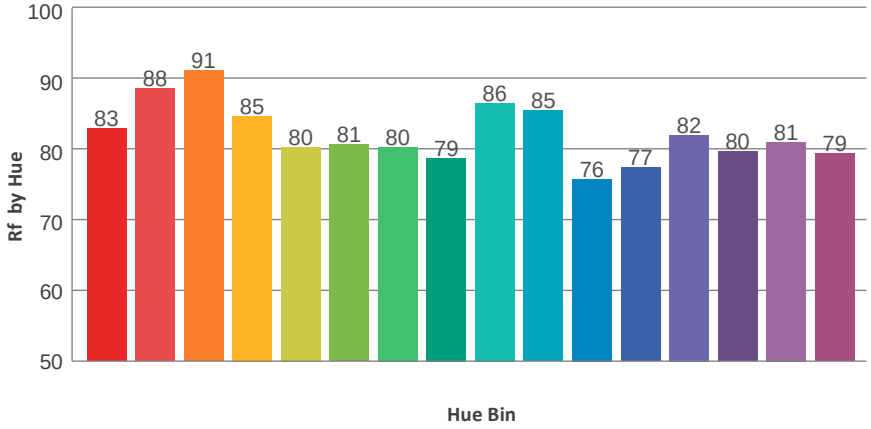
Fidelity Index Rf

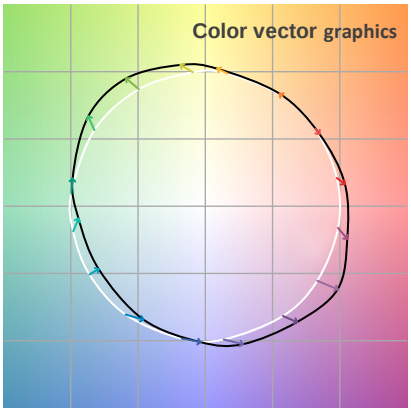
Rg 107.6

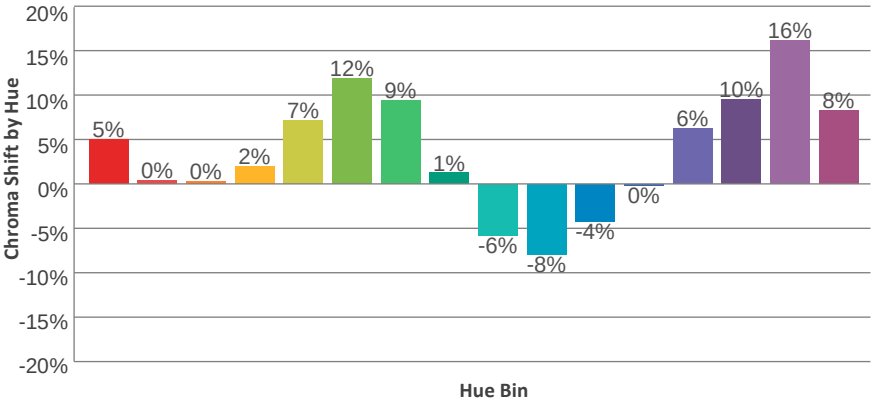
Gamut Index Rg

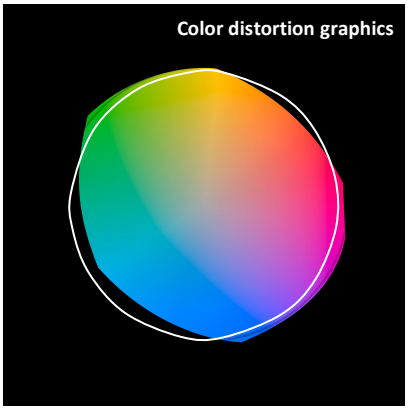
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	83	5%	-5%
2	88	0%	-5%
3	91	0%	3%
4	85	2%	8%
5	80	7%	8%
6	81	12%	3%
7	80	9%	-6%
8	79	1%	-11%
9	86	-6%	-9%
10	85	-8%	0%
11	76	-4%	13%
12	77	0%	14%
13	82	6%	13%
14	80	10%	6%
15	81	16%	3%
16	79	8%	-7%

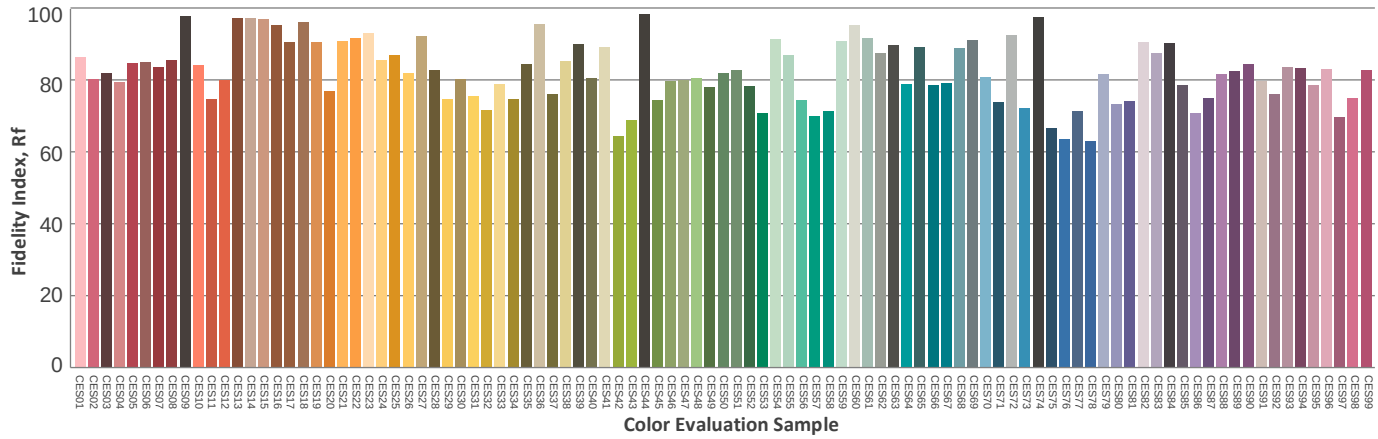












Rayzor 760 (CRI Zoom 50%)

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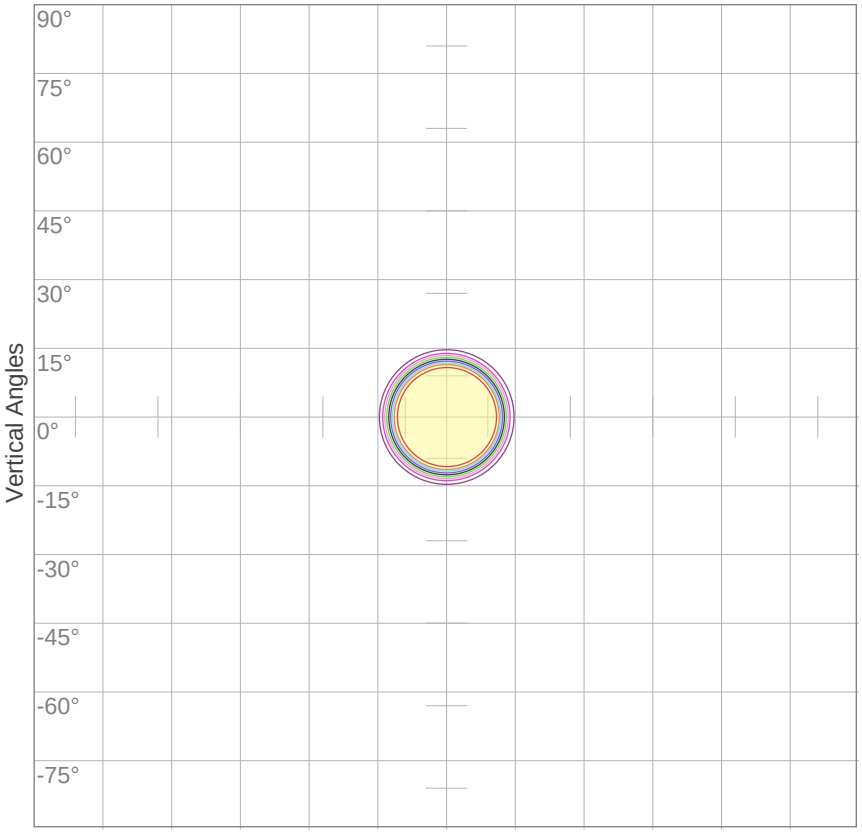
ISO Diagrams

ISO Candela Diagram



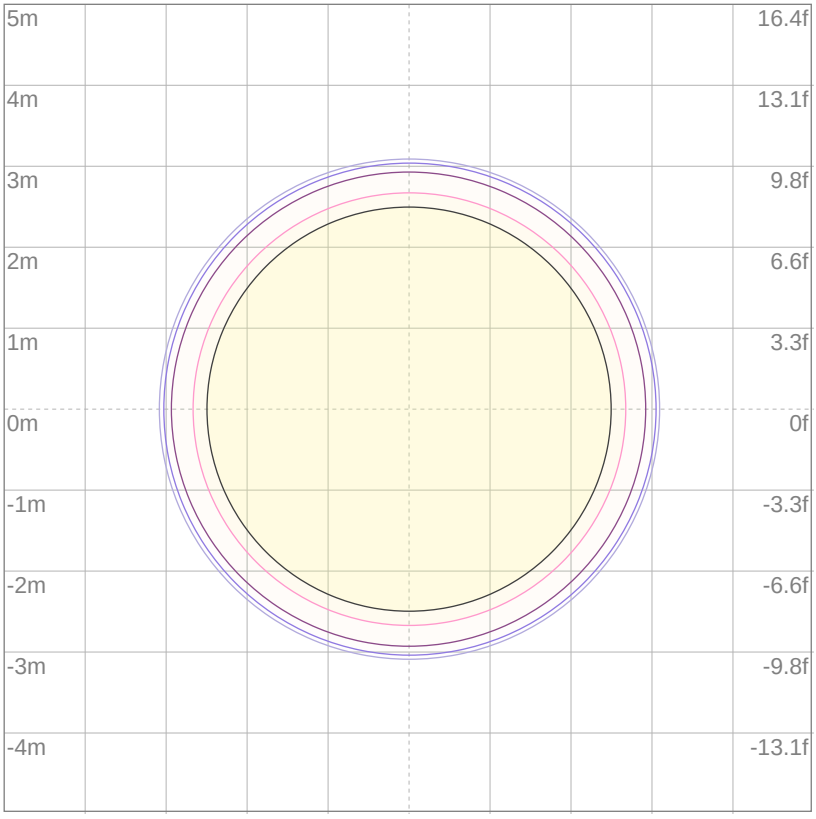
10%	2672 cd
20%	5344 cd
30%	8016 cd
40%	10688 cd
50%	13360 cd
60%	16033 cd
70%	18705 cd
80%	21377 cd
90%	24049 cd

Conditions:

Number of c-planes: 2

Candela at center: 26721 cd

ISO Lux Diagram



Mounting Height: 10 meters (33 feet)

3%	8.02 lx
5%	13.4 lx
10%	26.7 lx
30%	80.2 lx
50%	134 lx

Conditions:

Number of c-planes: 2

Lux at center: 267 lx

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