

20 Lumen/Watt

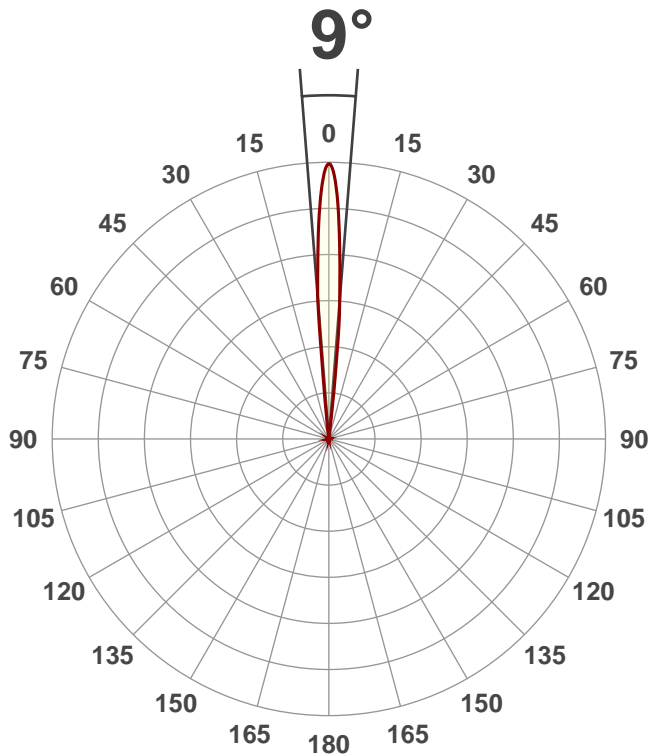
CRI: 72.5

6798 K

Peak: 633925 cd

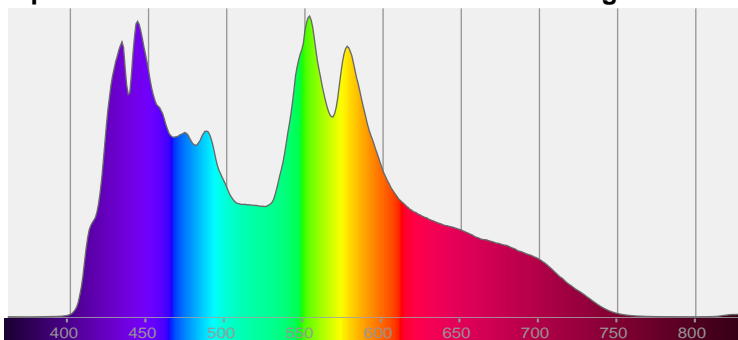
Power: 648 W

PF: 1.0



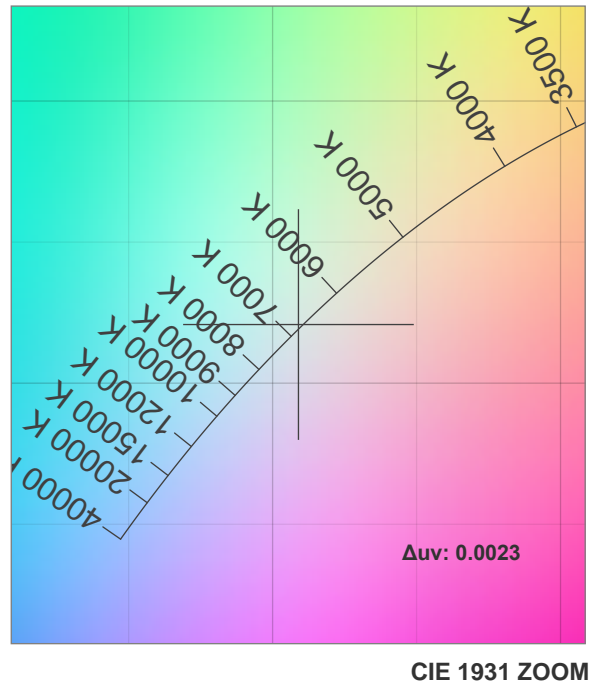
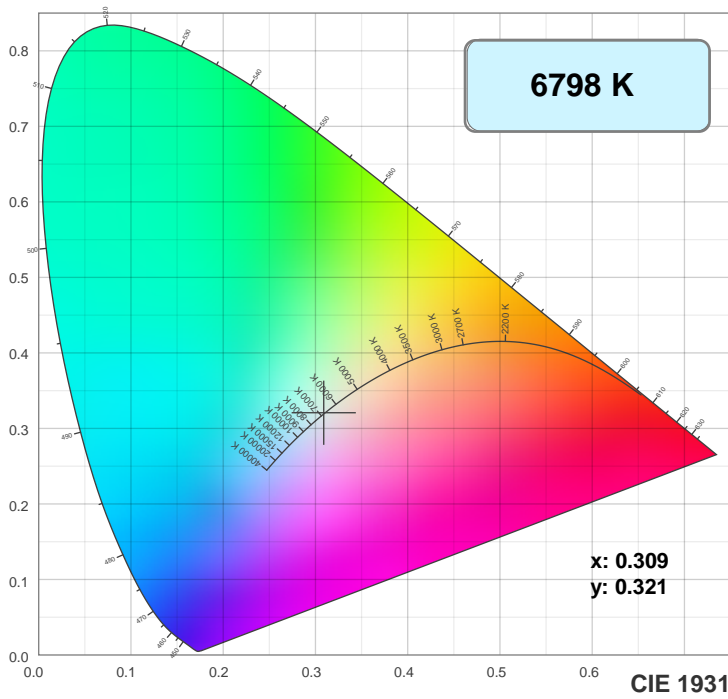
Note:

CIE 1931
x: 0.309
y: 0.321

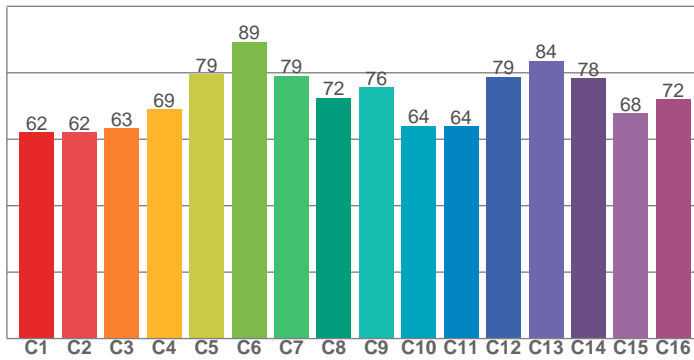


Voltage: 116 V
Current: 5.58 A
Frequency: 0 Hz

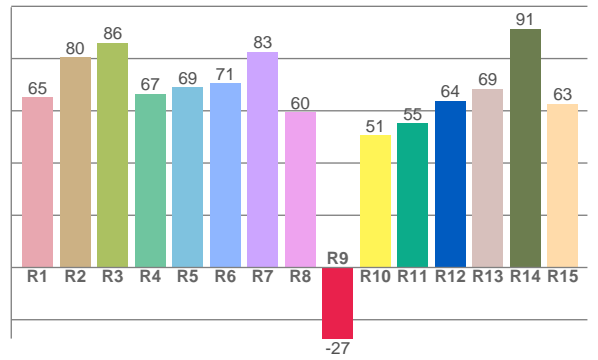
Color Details



TM30: 72.7



CRI: 72.5 (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
65.2	80.4	86.1	66.5	69.1	70.7	82.6	59.6	-27.2	50.7	55.2	63.9	68.5	91.5	62.8

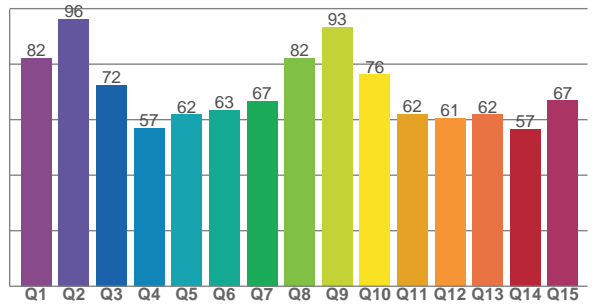
TM30 C Values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
62.0	62.1	63.2	68.9	79.5	89.3	79.2	72.4	75.6	64.1	63.9	78.8	83.5	78.4	67.8	72.0

CQS Q Values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
82.2	96.2	72.4	57.1	61.9	63.4	66.8	82.2	93.4	76.2	61.9	60.6	61.8	56.6	66.9

CQS: 68.2



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 Body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
6798 K	72.5	-27.2	72.7	89.4	68.2	0.309	0.321	0.198	0.309	0.0023

TM30 Details

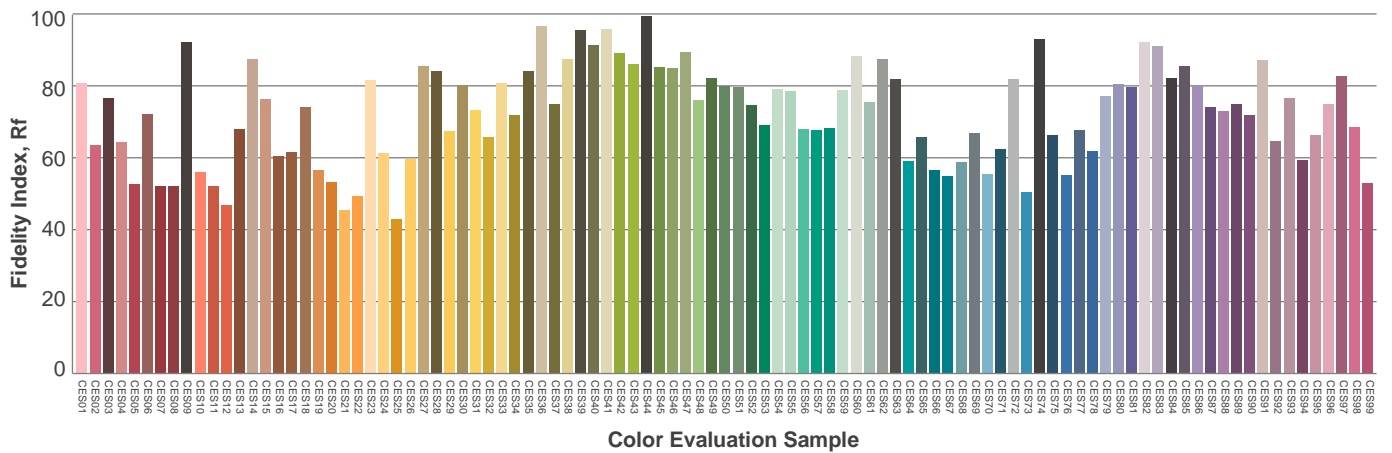
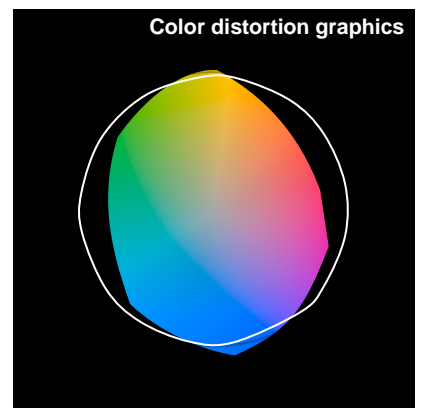
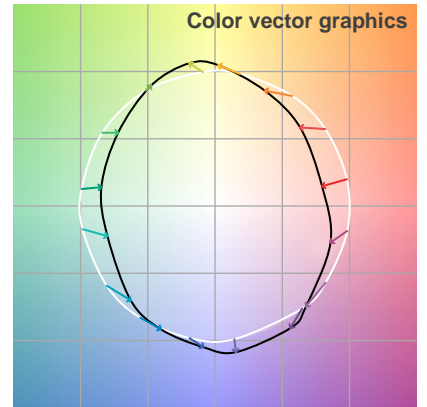
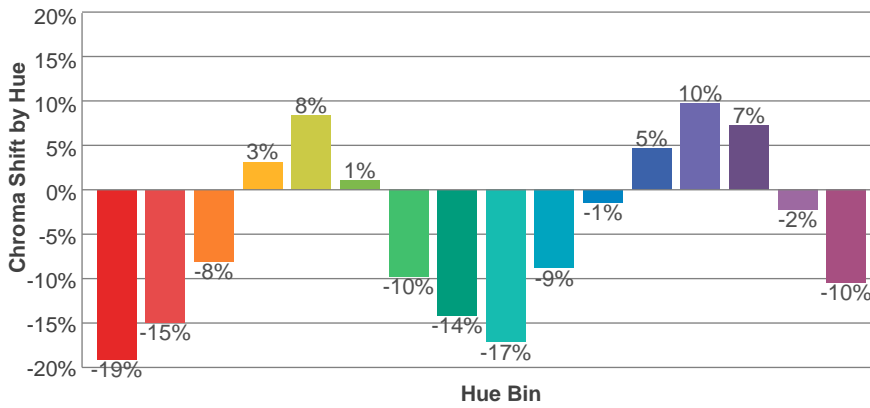
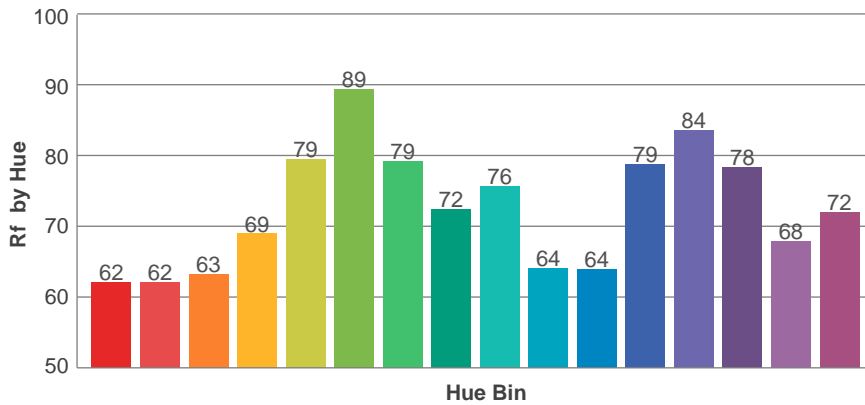
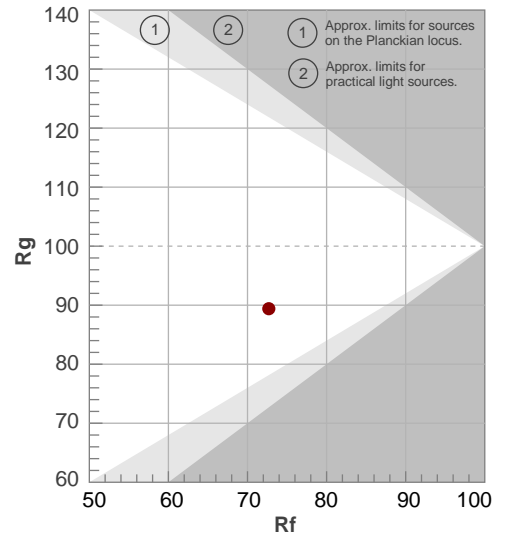
Rf 72.7

Fidelity Index Rf

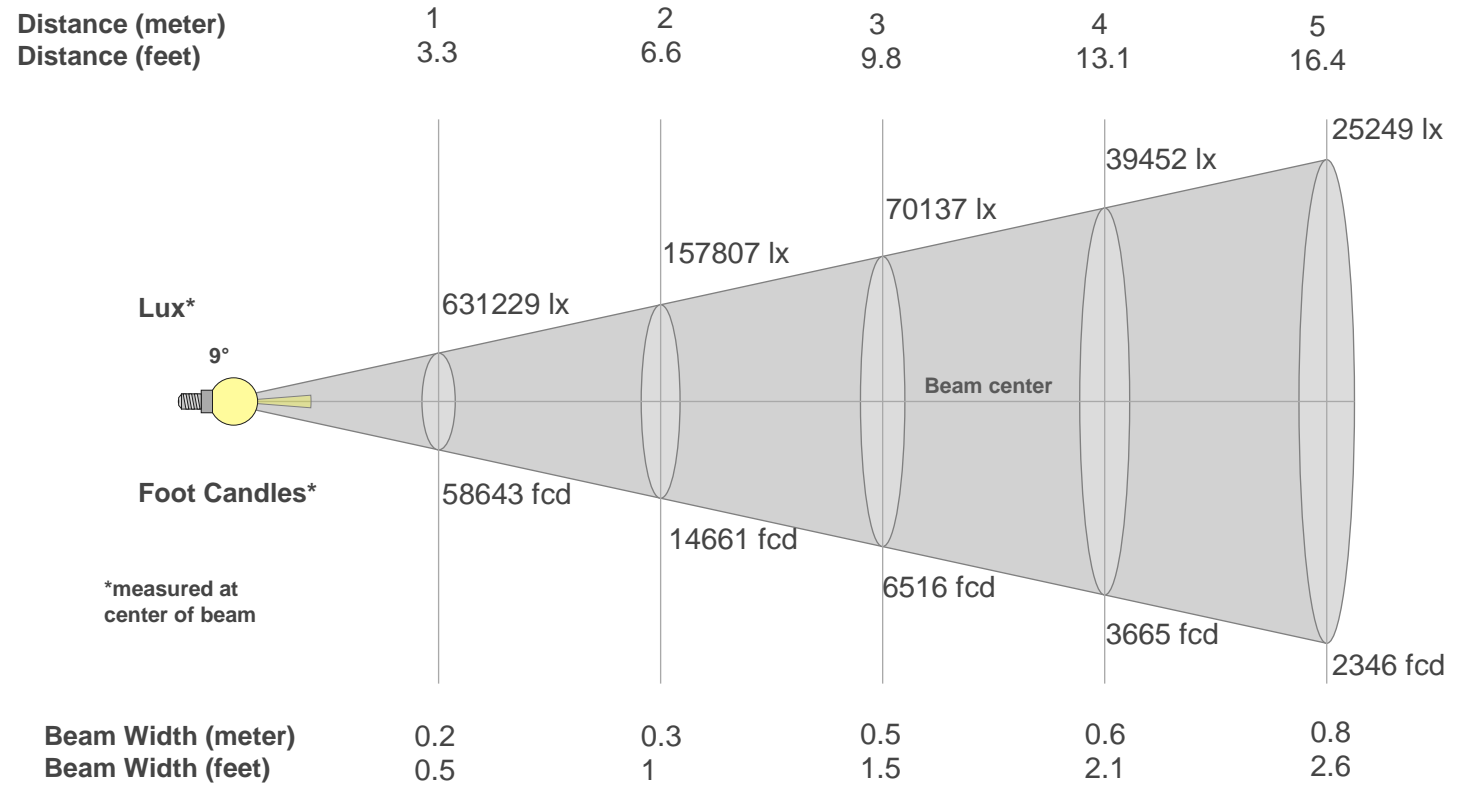
Rg 89.4

Gammut Index Rg

		Graphic shifts (%)	
Hue Bin	R_i	Chroma	Hue
1	62	-19%	-2%
2	62	-15%	11%
3	63	-8%	19%
4	69	3%	17%
5	79	8%	9%
6	89	1%	-6%
7	79	-10%	-7%
8	72	-14%	-4%
9	76	-17%	9%
10	64	-9%	19%
11	64	-1%	18%
12	79	5%	11%
13	84	10%	-1%
14	78	7%	-15%
15	68	-2%	-23%
16	72	-10%	-11%



Beam Details



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	631229	157807	70137	39452	25249	17534	12882	9863	7793	6312	5217	4384	3735	3221	2805	2466	2184	1948	1749	1578
Fcd	58643.1	14660.8	6515.9	3665.2	2345.7	1629	1196.8	916.3	724	586.4	484.7	407.2	347	299.2	260.6	229.1	202.9	181	162.4	146.6

Intensities in 0° C-plane																				
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	
631K	610K	552K	466K	366K	228K	58K	0K	0K	0K	0K	0K	0K	1K	1K	1K	1K	1K	1K	1K	
100%	97%	87%	74%	58%	36%	9%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

Intensities in 90° C-plane																			
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
631K	610K	552K	466K	366K	228K	58K	0K	0K	0K	0K	0K	0K	1K	1K	1K	1K	1K	1K	1K
100%	97%	87%	74%	58%	36%	9%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

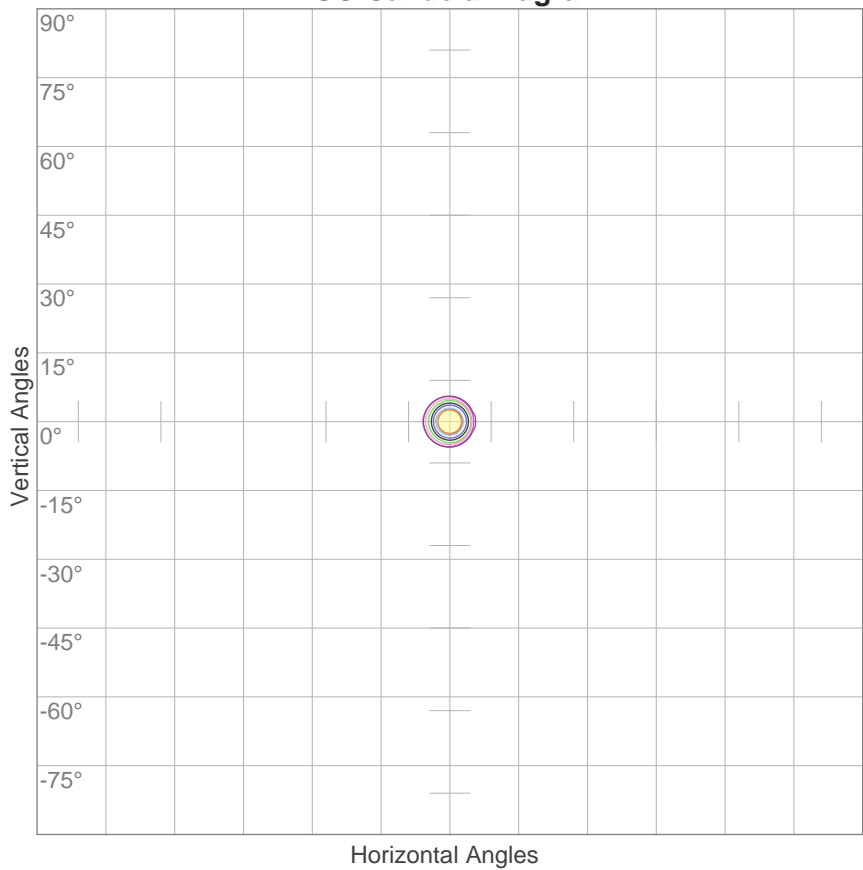
Intensities in 180° C-plane																			
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
631K	612K	555K	465K	364K	269K	122K	8K	0K	0K	0K	0K	0K	1K	1K	1K	1K	1K	1K	1K
100%	97%	88%	74%	58%	43%	19%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Intensities in 270° C-plane																			
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
631K	612K	555K	465K	364K	269K	122K	8K	0K	0K	0K	0K	0K	1K	1K	1K	1K	1K	1K	1K
100%	97%	88%	74%	58%	43%	19%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
9°	12.4°	13.4°	98.7%	98.3%

ISO Diagrams

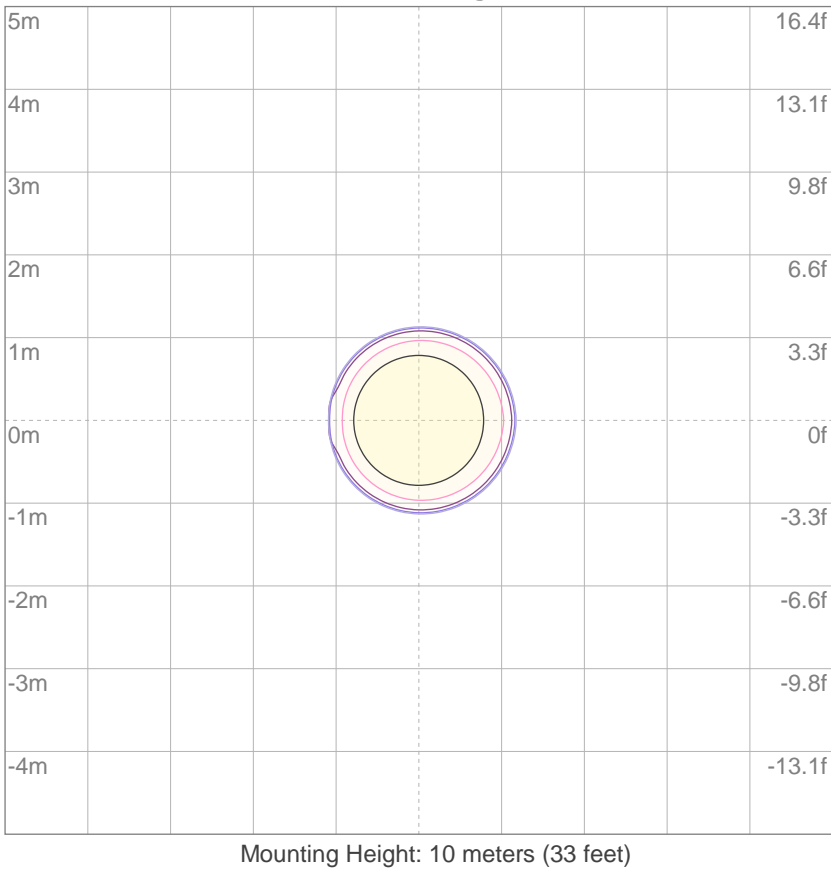
ISO Candela Diagram



10%	63123 cd
20%	126246 cd
30%	189369 cd
40%	252492 cd
50%	315614 cd
60%	378737 cd
70%	441860 cd
80%	504983 cd
90%	568106 cd

Conditions:
Number of c-planes: 2
Candela at center: 631229 cd

ISO Lux Diagram



3%	189 lx
5%	316 lx
10%	631 lx
30%	1894 lx
50%	3156 lx

Conditions:
Number of c-planes: 2
Lux at center: 6312 lx

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

Light Planning

Coefficients of Utilization

Ceiling Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Floor Reflectance	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	0
RCR	(RCR: Room Cavity Ratio) Room Values are expressed as percentage of Lumens delivered to the task surface																	
0	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101	99
1	116	115	113	112	114	112	111	110	108	107	107	104	104	103	101	101	100	98
2	114	111	109	108	112	110	108	106	106	105	104	104	102	102	101	100	99	98
3	112	109	106	105	110	108	105	104	105	103	102	103	101	100	101	100	99	98
4	110	107	104	102	109	106	104	102	104	102	101	102	101	99	100	99	98	97
5	109	105	103	101	108	104	102	100	103	101	100	101	100	99	100	99	98	97
6	108	104	102	100	107	103	101	99	102	100	99	101	99	98	100	98	97	97
7	107	103	101	99	106	102	100	99	101	100	98	100	99	98	100	98	97	96
8	106	102	100	98	105	102	100	98	101	99	98	100	98	97	99	98	97	96
9	105	101	99	98	104	101	99	97	100	98	97	100	98	97	99	98	97	96
10	104	101	99	97	104	100	98	97	100	98	97	99	98	97	99	97	96	96

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
12298 lm	198 lm	250 lm	138 lm	61.7 lm	26.1 lm	9.26 lm	4.39 lm	2.61 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
2.72 lm	2.35 lm	1.77 lm	16.6 lm	29.0 lm	39.3 lm	35.8 lm	21.5 lm	1.34 lm