

18 Lumen/Watt

CRI: 72.0

6927 K

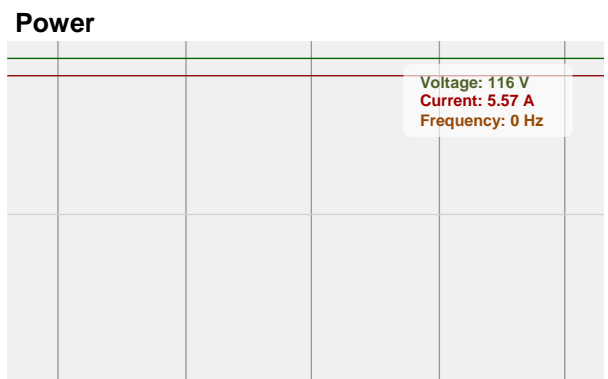
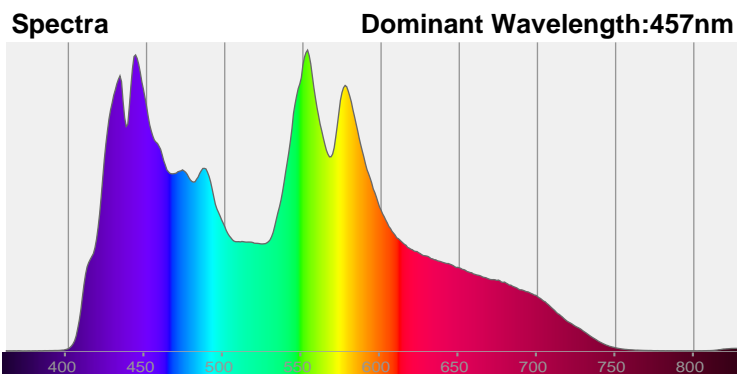
Peak: 184208 cd

Power: 648 W

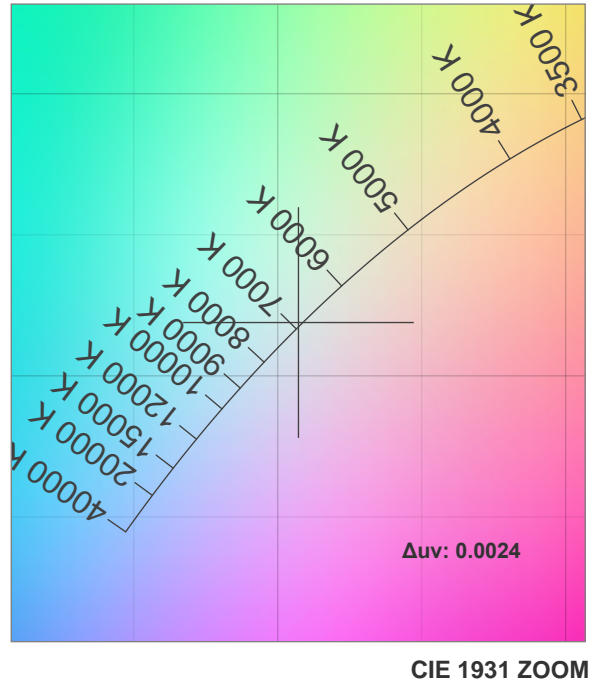
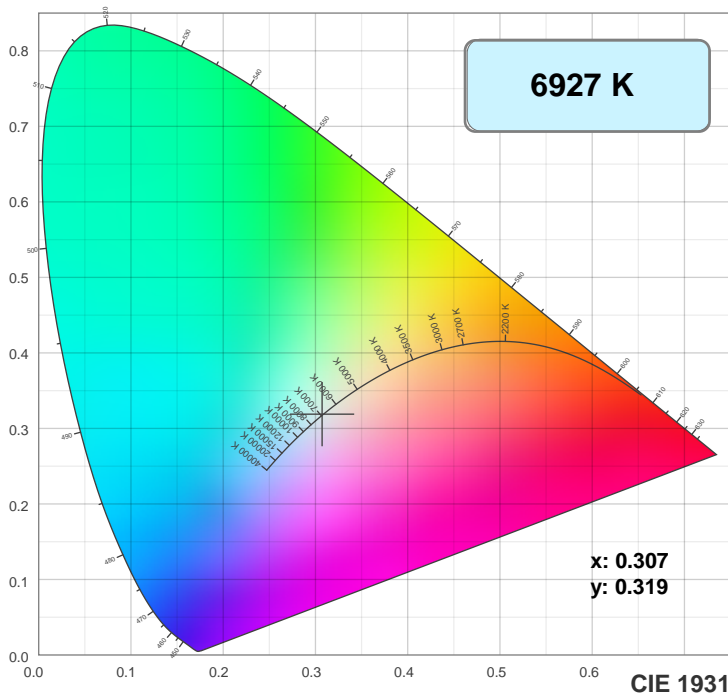
PF: 1.0



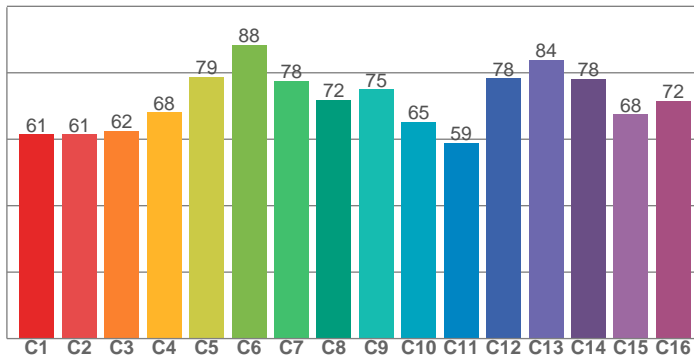
CIE 1931
x: 0.307
y: 0.319



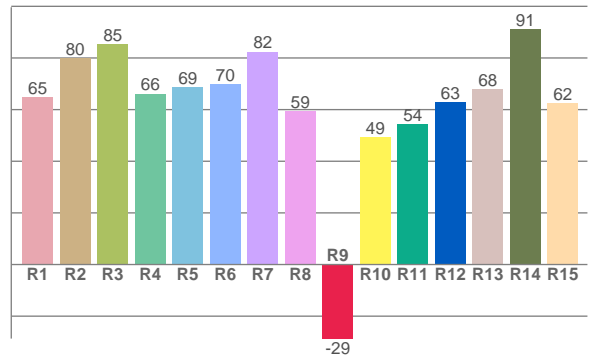
Color Details



TM30: 72.1



CRI: 72.0 (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
64.7	79.9	85.4	66.1	68.6	69.9	82.4	59.4	-28.7	49.2	54.4	62.9	67.9	91.0	62.4

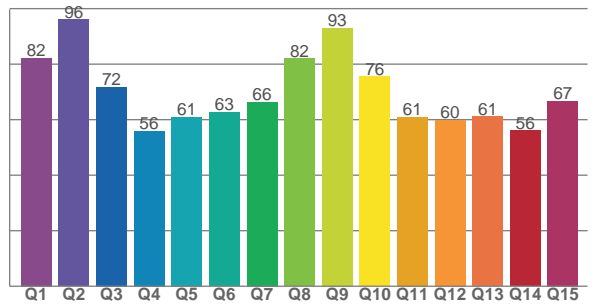
TM30 C Values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
61.5	61.4	62.5	68.0	78.8	88.5	77.6	71.8	75.0	65.3	59.0	78.3	83.8	78.1	67.5	71.5

CQS Q Values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
82.2	96.1	71.8	55.9	61.0	62.7	66.3	82.1	93.0	75.5	60.9	59.8	61.2	56.1	66.6

CQS: 67.6



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
6927 K	72.0	-28.7	72.1	88.9	67.6	0.307	0.319	0.198	0.308	0.0024

TM30 Details

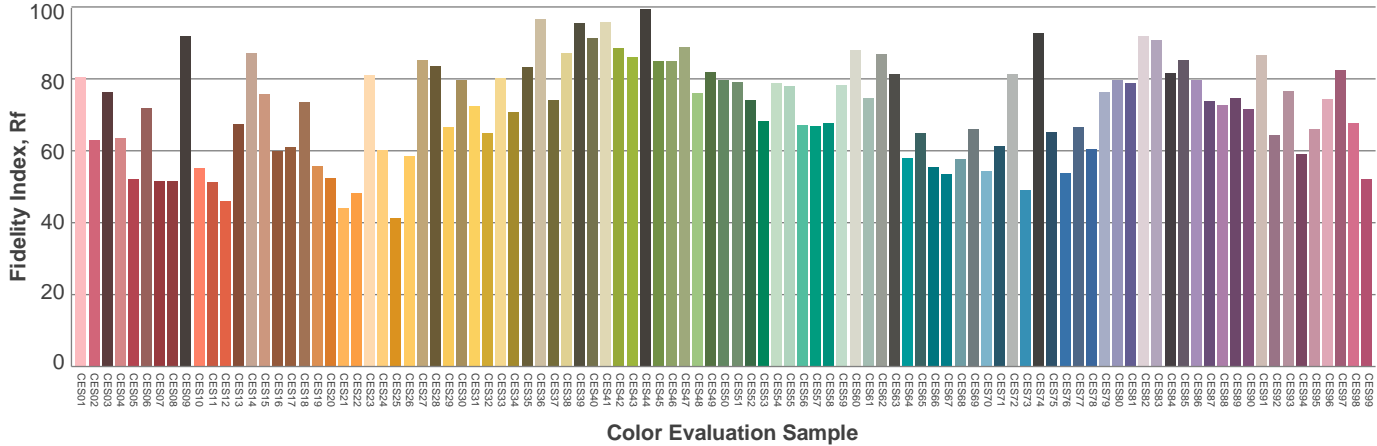
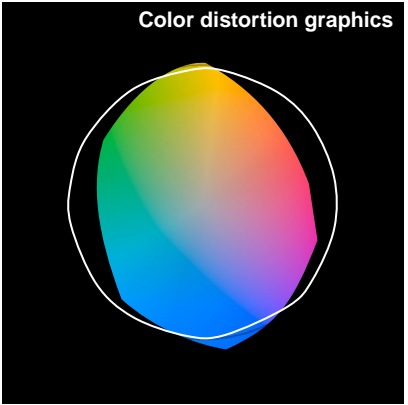
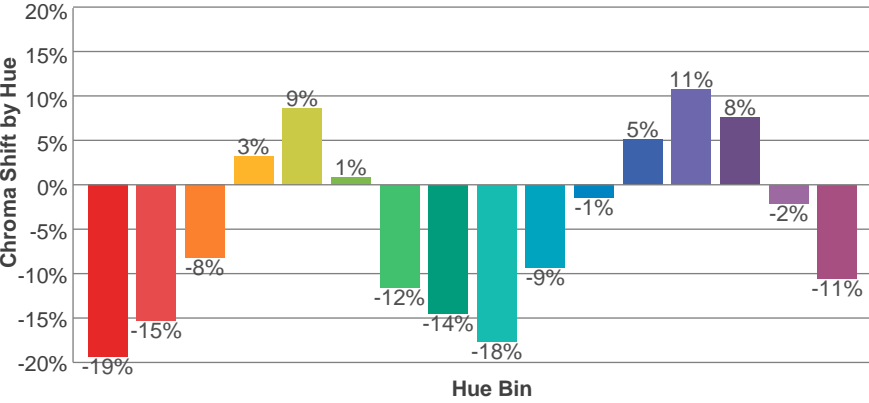
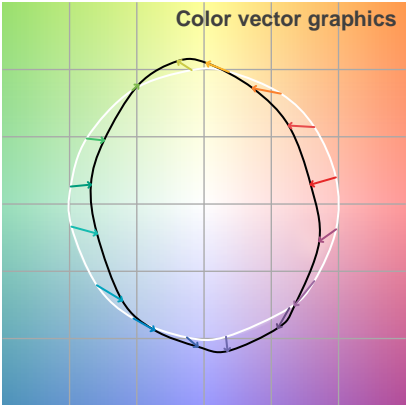
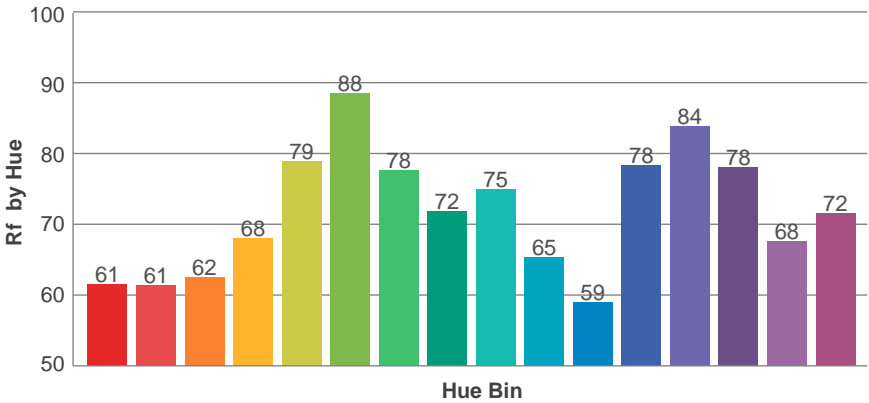
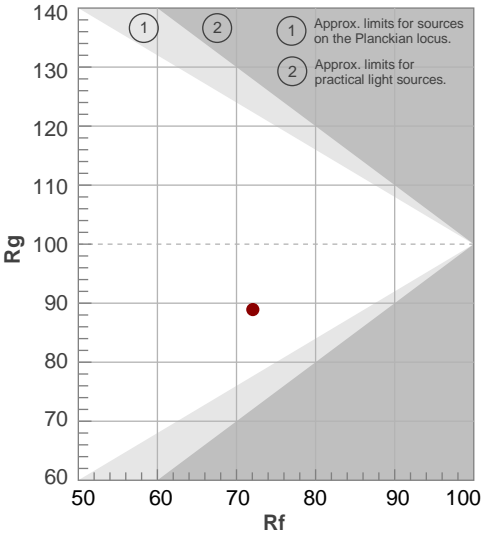
Rf 72.1

Fidelity Index Rf

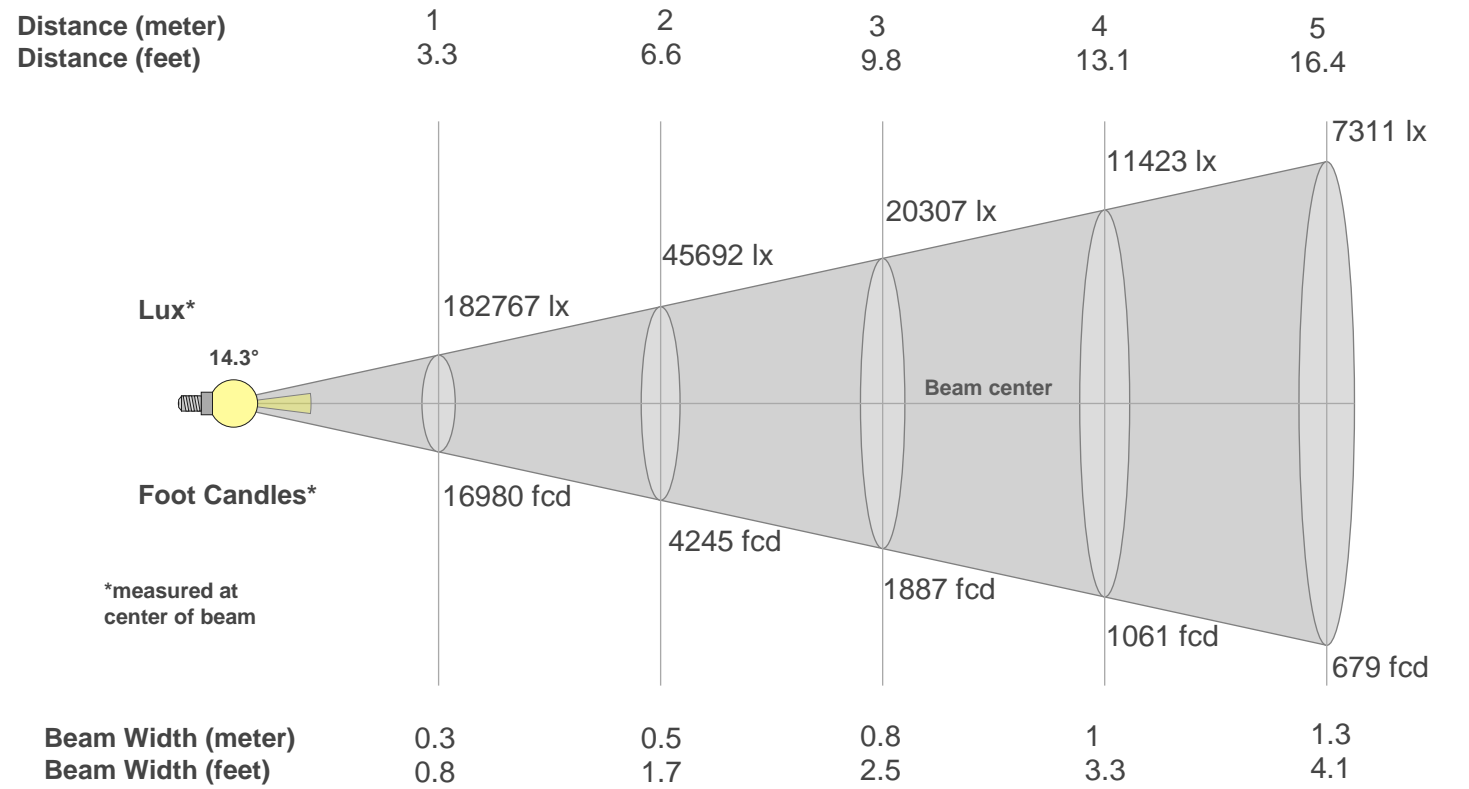
Rg 88.9

Gammut Index Rg

		Graphic shifts (%)	
Hue Bin	Rf	Chroma	Hue
1	61	-19%	-2%
2	61	-15%	12%
3	62	-8%	20%
4	68	3%	17%
5	79	9%	9%
6	88	1%	-6%
7	78	-12%	-6%
8	72	-14%	-4%
9	75	-18%	9%
10	65	-9%	20%
11	59	-1%	18%
12	78	5%	9%
13	84	11%	-1%
14	78	8%	-15%
15	68	-2%	-23%
16	72	-11%	-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	182767	45692	20307	11423	7311	5077	3730	2856	2256	1828	1510	1269	1081	932	812	714	632	564	506	457
Fcd	16979.6	4244.9	1886.6	1061.2	679.2	471.7	346.5	265.3	209.6	169.8	140.3	117.9	100.5	86.6	75.5	66.3	58.8	52.4	47	42.4

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°
183K	175K	167K	154K	138K	123K	108K	95K	76K	1K	0K	0K	0K	1K	1K	1K	1K	1K	1K	1K
100%	96%	91%	84%	76%	67%	59%	52%	42%	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°	
183K	175K	167K	154K	138K	123K	108K	95K	76K	1K	0K	0K	0K	1K	1K	1K	1K	1K	1K	1K	
100%	96%	91%	84%	76%	67%	59%	52%	42%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	

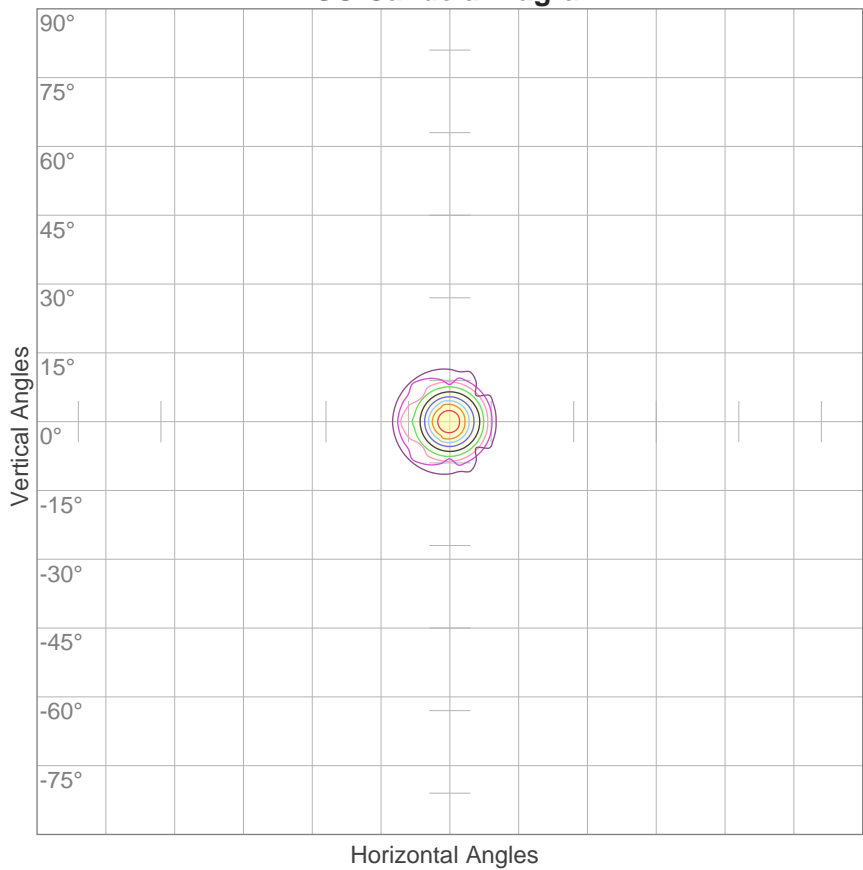
Intensities in 180° C-plane																			
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
183K	184K	174K	164K	150K	131K	112K	95K	83K	74K	67K	60K	46K	12K	1K	1K	1K	1K	1K	1K
100%	101%	95%	90%	82%	72%	61%	52%	45%	40%	36%	33%	25%	7%	0%	0%	0%	0%	0%	0%

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°
183K	184K	174K	164K	150K	131K	112K	95K	83K	74K	67K	60K	46K	12K	1K	1K	1K	1K	1K	1K
100%	101%	95%	90%	82%	72%	61%	52%	45%	40%	36%	33%	25%	7%	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
14.3°	21.4°	22.3°	95.6%	94.5%

ISO Diagrams

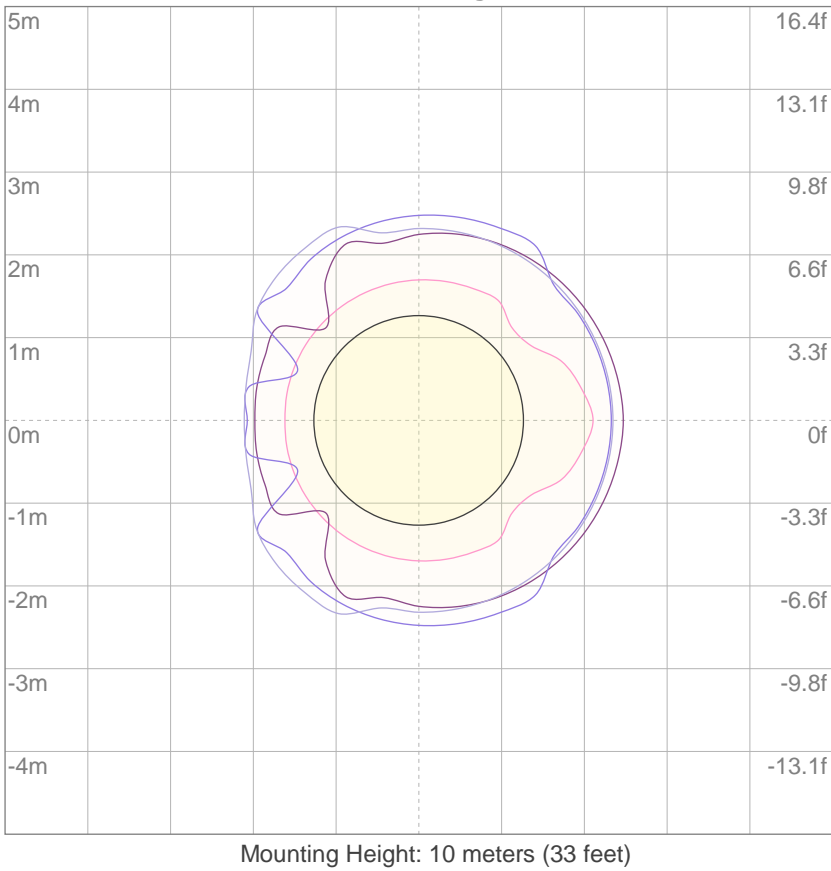
ISO Candela Diagram



10%	18277 cd
20%	36553 cd
30%	54830 cd
40%	73107 cd
50%	91384 cd
60%	109660 cd
70%	127937 cd
80%	146214 cd
90%	164490 cd

Conditions:
Number of c-planes: 2
Candela at center: 182767 cd

ISO Lux Diagram



3%	54.8 lx
5%	91.4 lx
10%	183 lx
30%	548 lx
50%	914 lx

Conditions:
Number of c-planes: 2
Lux at center: 1828 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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	115	113	111	110	112	111	109	108	106	105	104	102	101	100	98	97	97	95
2	112	109	106	104	110	107	105	103	103	102	100	100	99	98	97	96	95	94
3	109	106	103	100	107	104	102	99	101	99	97	99	97	96	96	95	94	92
4	107	103	100	97	106	102	99	97	99	97	95	97	95	94	95	94	93	91
5	105	101	98	95	104	100	97	95	98	95	94	96	94	93	94	93	92	91
6	104	99	96	93	102	98	95	93	96	94	92	95	93	91	94	92	91	90
7	102	97	94	92	101	97	94	92	95	93	91	94	92	90	93	91	90	89
8	101	96	93	91	100	95	92	91	94	92	90	93	91	90	92	90	89	88
9	99	95	92	90	98	94	91	90	93	91	89	92	90	89	91	90	88	88
10	98	94	91	89	97	93	90	89	92	90	88	92	89	88	91	89	88	87

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
8956 lm	1753 lm	246 lm	182 lm	119 lm	78.7 lm	52.2 lm	36.3 lm	25.3 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
19.3 lm	17.1 lm	21.6 lm	58.3 lm	80.1 lm	85.3 lm	72.7 lm	43.9 lm	9.22 lm