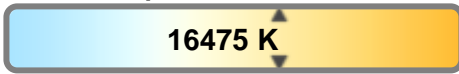


Color Temperature:



**Total Lumen Output:**  
8595 lm

Light Quality:

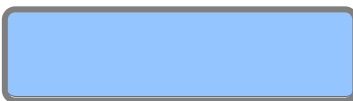


**Peak:**  
59102 cd

Light Efficiency:



**Power: 450 W**



CIE 1931  
x: 0.268  
y: 0.256

**Test: Full On No UV**

**Date: 10/10/2018**

**Voltage: 116 V**

**Current: 3.88 A**

**Frequency: 60 Hz**

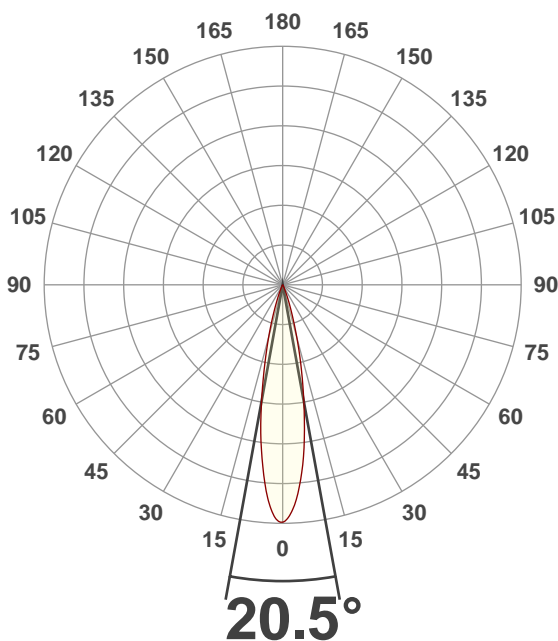
**CRI: 82.0**

**CQS: 86.8**

**TM30: 78.6**

**Note:**

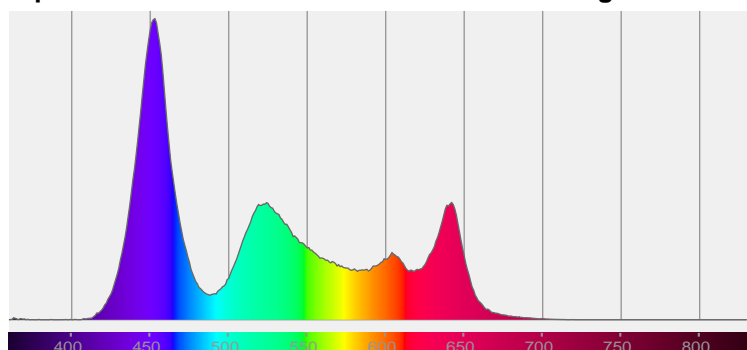
**Beam Angle**



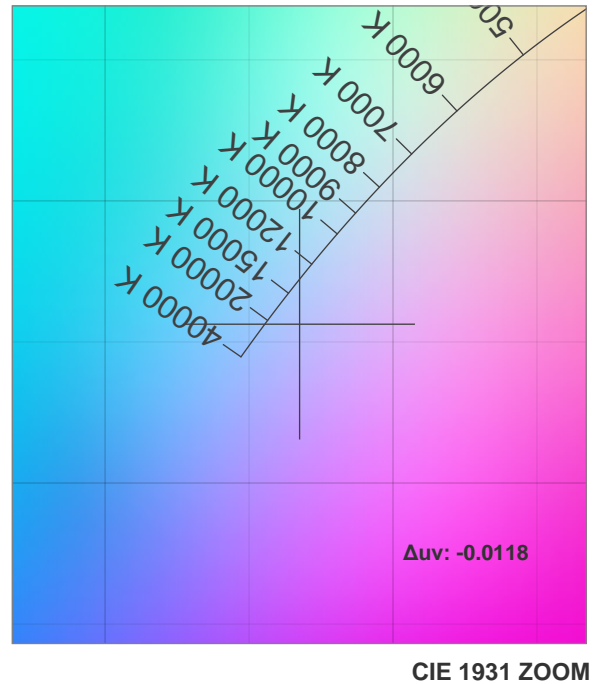
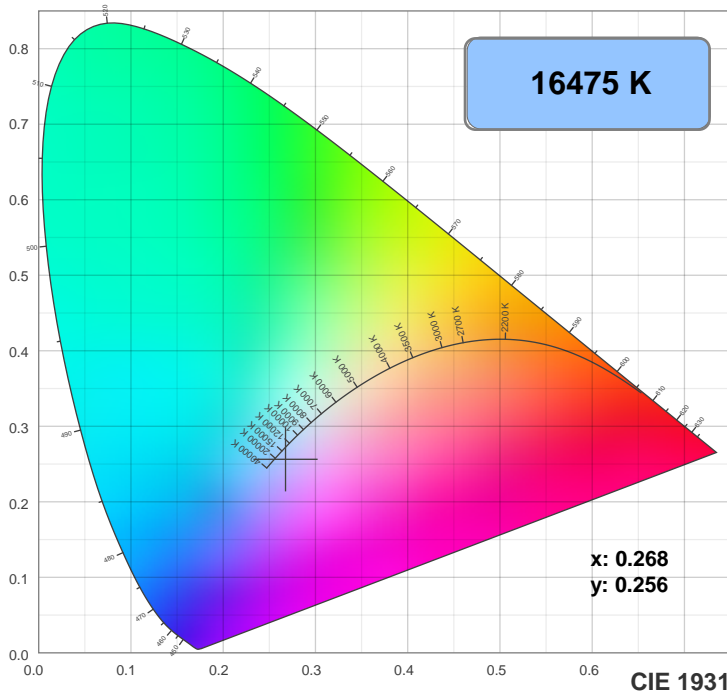
Beam Angle 50%	Field Angle 10%	Cutoff Angle 2.5%
20.5°	37.3°	46.8°

**Spectra**

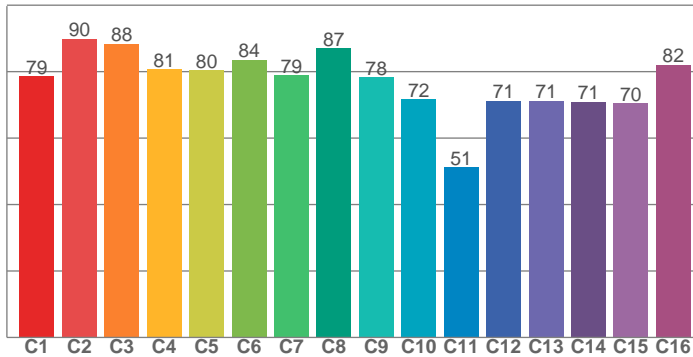
**Dominant Wavelength: 466nm**



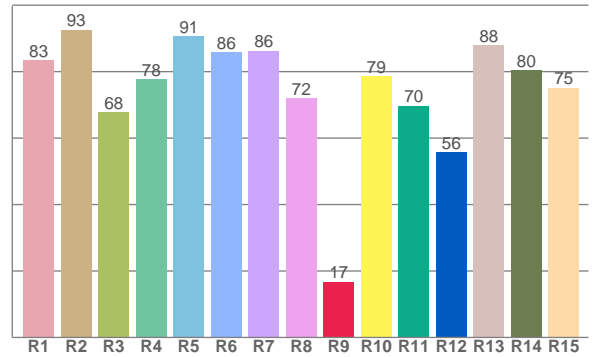
## Color Details



**TM30: 78.6**



**CRI: 82.0 (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
83.4	92.6	67.7	77.7	90.7	85.8	86.3	72.0	16.7	78.7	69.7	55.7	87.9	80.5	75.2

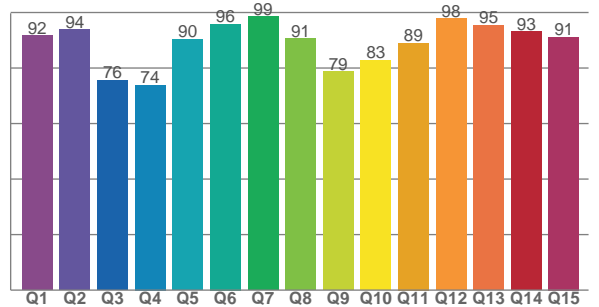
TM30 C Values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
78.5	89.9	88.3	80.7	80.3	83.5	78.9	87.0	78.3	71.7	51.2	71.3	71.2	70.9	70.5	82.0

CQS Q Values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91.7	93.8	75.6	73.9	90.4	95.8	98.6	90.6	78.8	82.8	89.0	97.8	95.5	93.2	91.2

**CQS: 86.8**



## 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	$\Delta uv$
16475 K	82.0	16.7	78.6	108.4	86.8	0.268	0.256	0.193	0.278	-0.0118

## TM30 Details

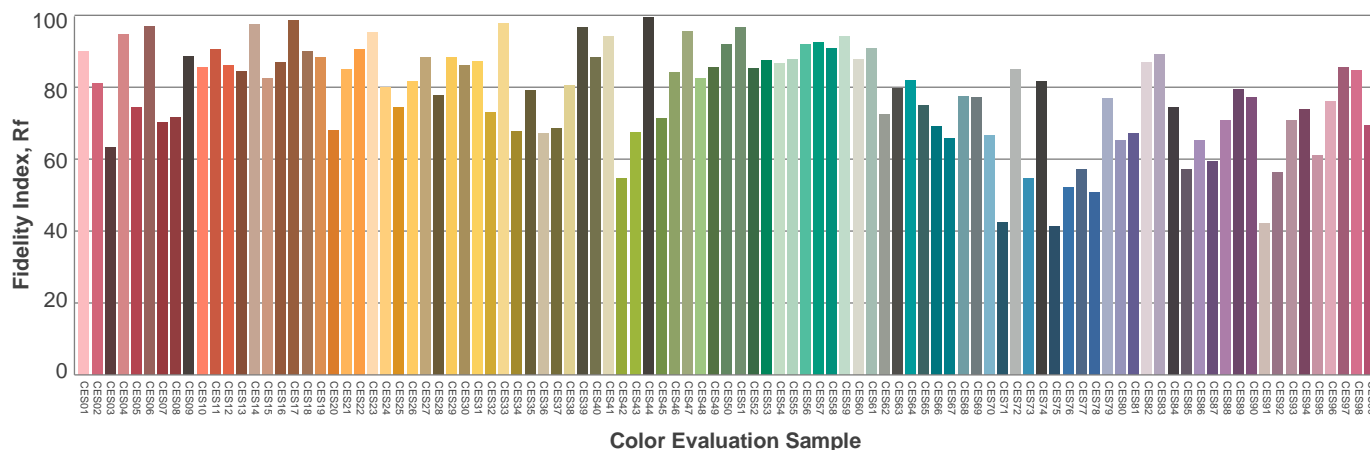
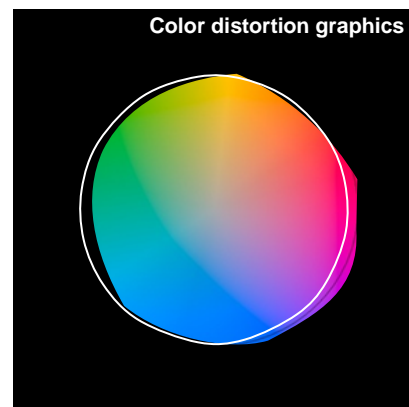
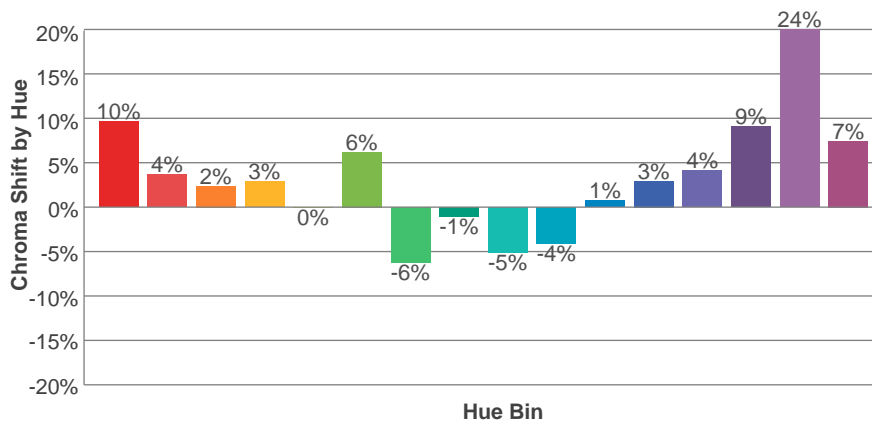
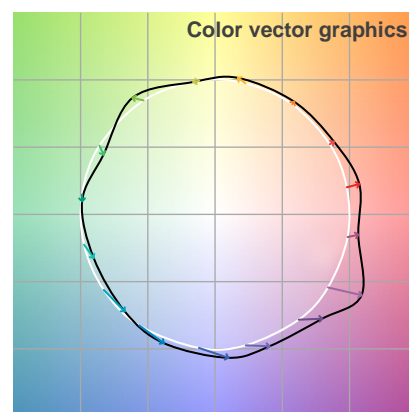
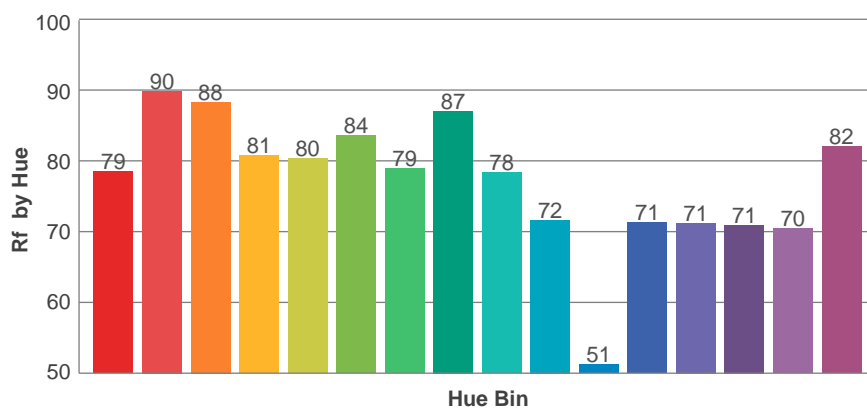
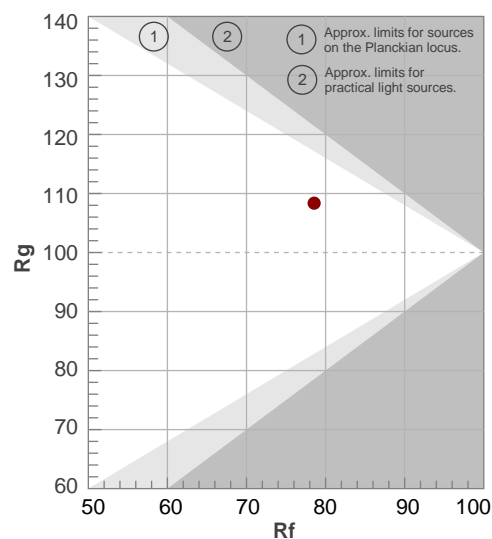
**Rf 78.6**

Fidelity Index Rf

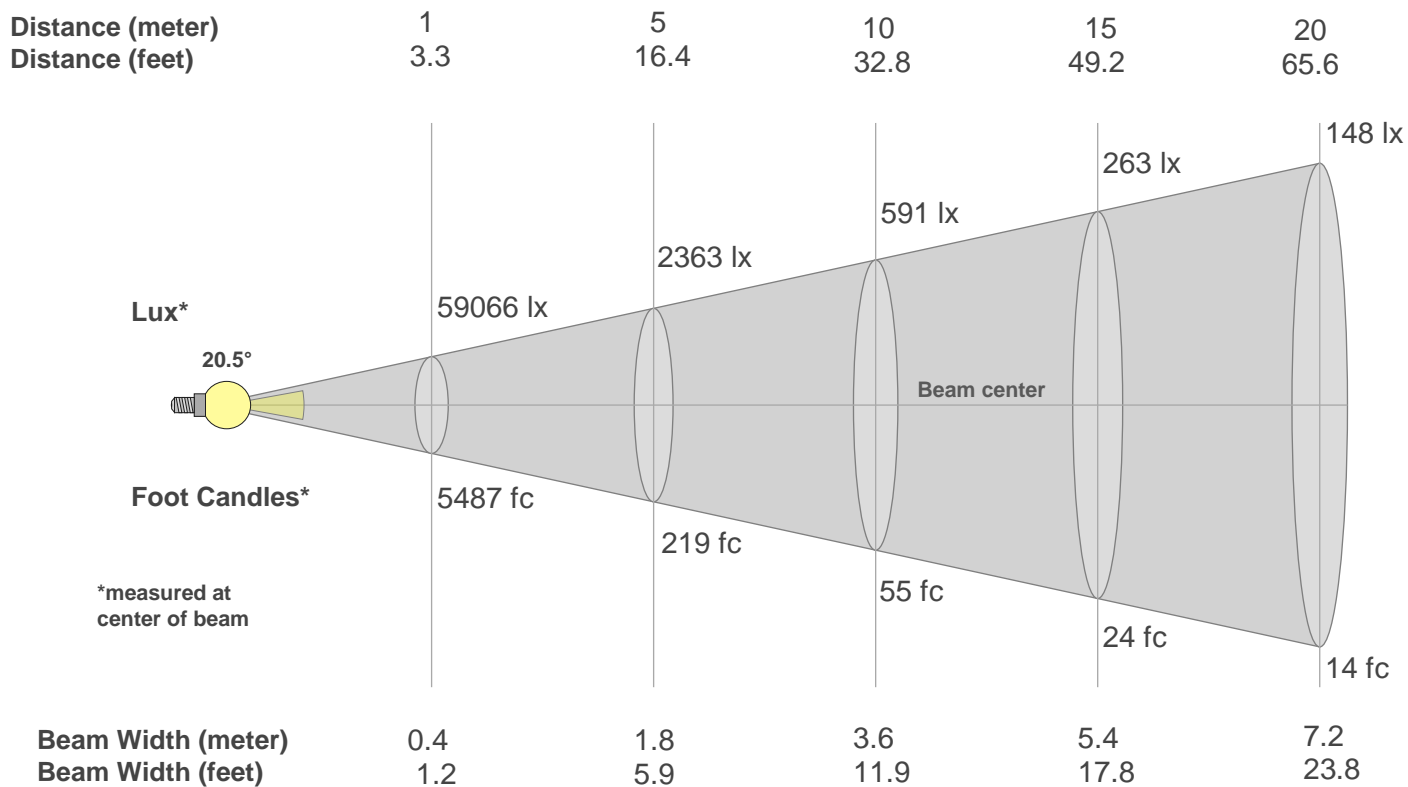
**Rg 108.4**

Gamut Index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	79	10%	1%
2	90	4%	0%
3	88	2%	0%
4	81	3%	6%
5	80	0%	4%
6	84	6%	6%
7	79	-6%	4%
8	87	-1%	5%
9	78	-5%	11%
10	72	-4%	22%
11	51	1%	22%
12	71	3%	23%
13	71	4%	17%
14	71	9%	15%
15	70	24%	9%
16	82	7%	3%



## Beam Details



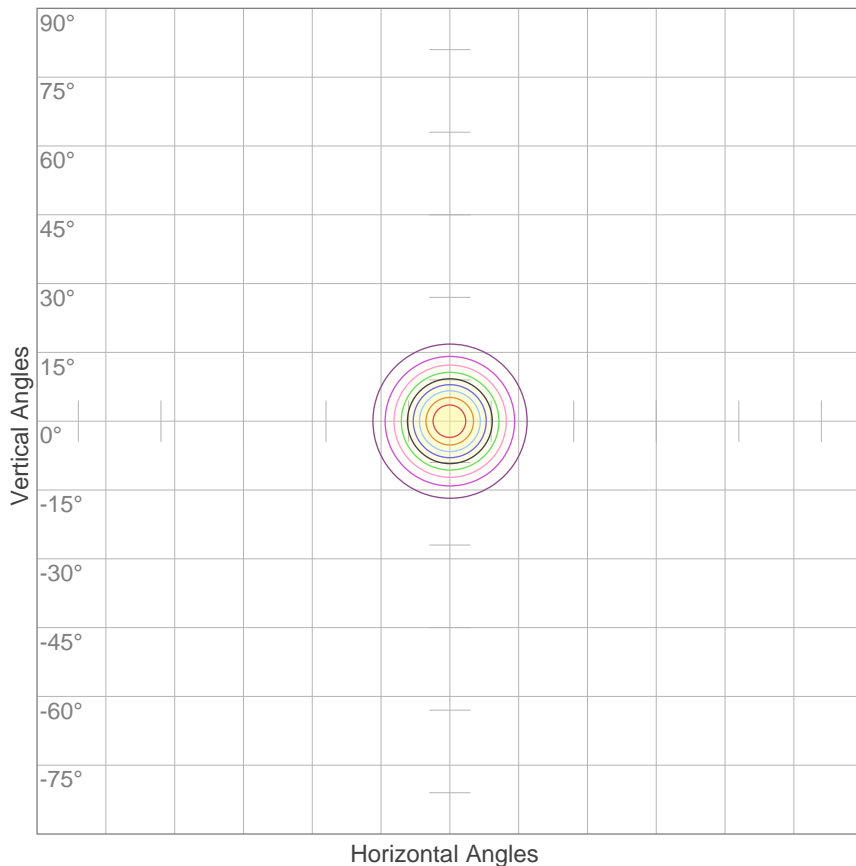
### Beam Intensities from 1-20m

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	59066	14767	6563	3692	2363	1641	1205	923	729	591	488	410	350	301	263	231	204	182	164	148
fc	5487.4	1371.9	609.7	343	219.5	152.4	112	85.7	67.7	54.9	45.4	38.1	32.5	28	24.4	21.4	19	16.9	15.2	13.7

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
20.5°	37.3°	46.8°	100.0%	99.7%

## ISO Diagrams

### ISO Candela Diagram



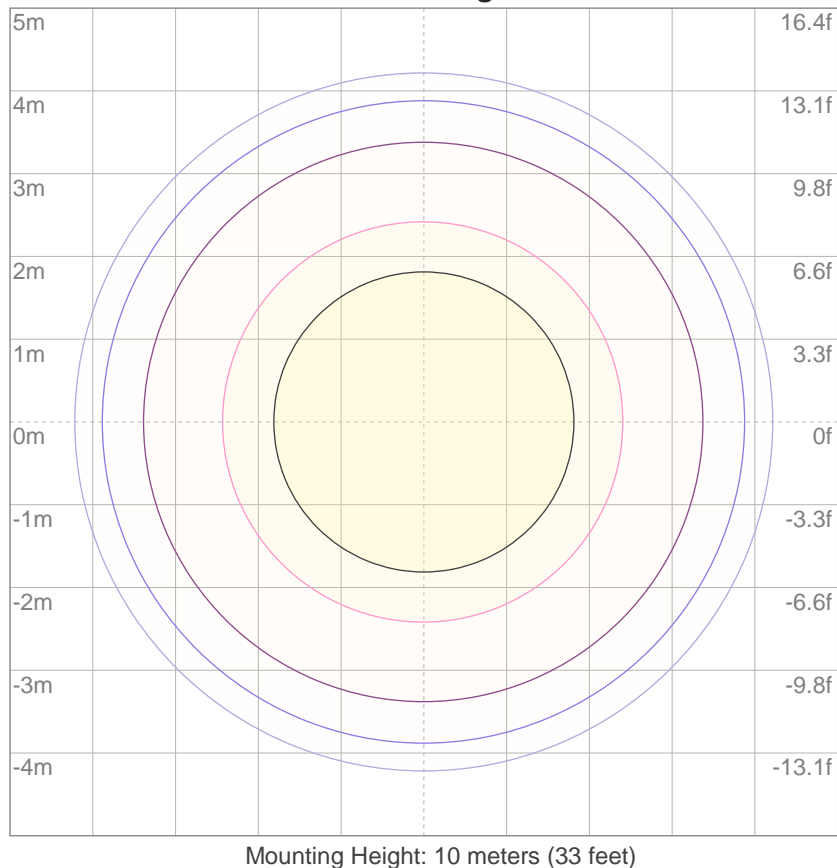
10%	5907 cd
20%	11813 cd
30%	17720 cd
40%	23626 cd
50%	29533 cd
60%	35440 cd
70%	41346 cd
80%	47253 cd
90%	53159 cd

#### Conditions:

Number of c-planes: 2

Candela at center: 59066 cd

### ISO Lux Diagram



3%	17.7 lx
5%	29.5 lx
10%	59.1 lx
30%	177 lx
50%	295 lx

#### Conditions:

Number of c-planes: 2

Lux at center: 591 lx

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