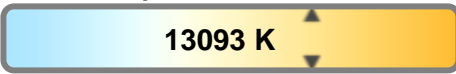


Color Temperature:



**Total Lumen Output:**  
**12131 lm**

Light Quality:

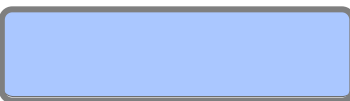


**Peak:**  
**69080 cd**

Light Efficiency:



**Power: 566 W**



CIE 1931  
x: 0.278  
y: 0.260

**Test: Full On**

**Date: 10/10/2018**

**Voltage: 115 V**

**Current: 4.92 A**

**Frequency: 60 Hz**

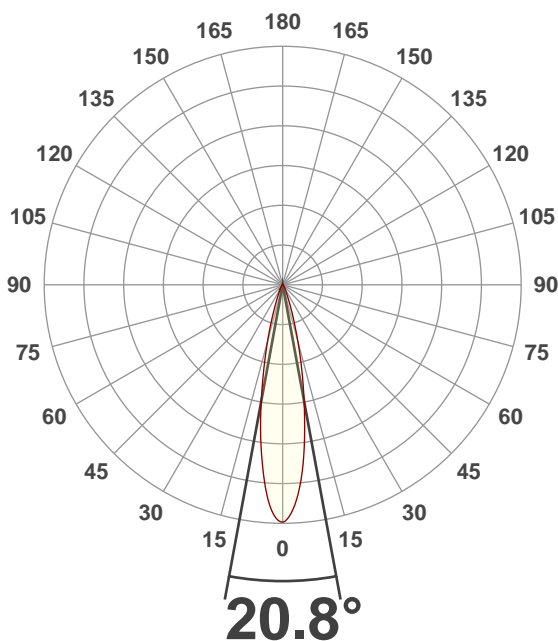
**CRI: 78.8**

**CQS: 87.0**

**TM30: 78.0**

**Note:**

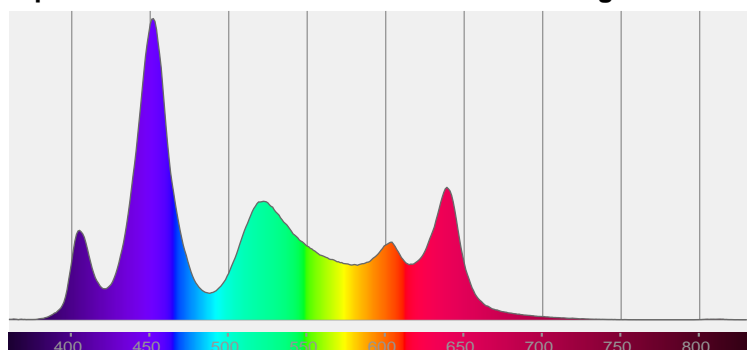
**Beam Angle**



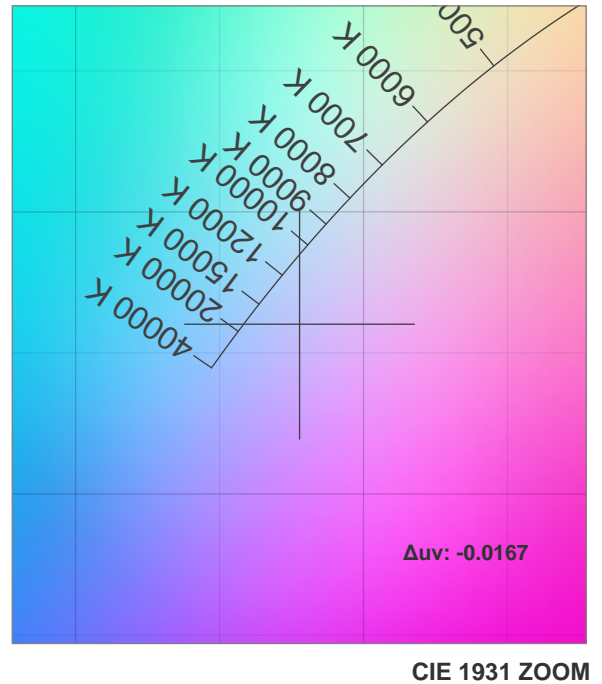
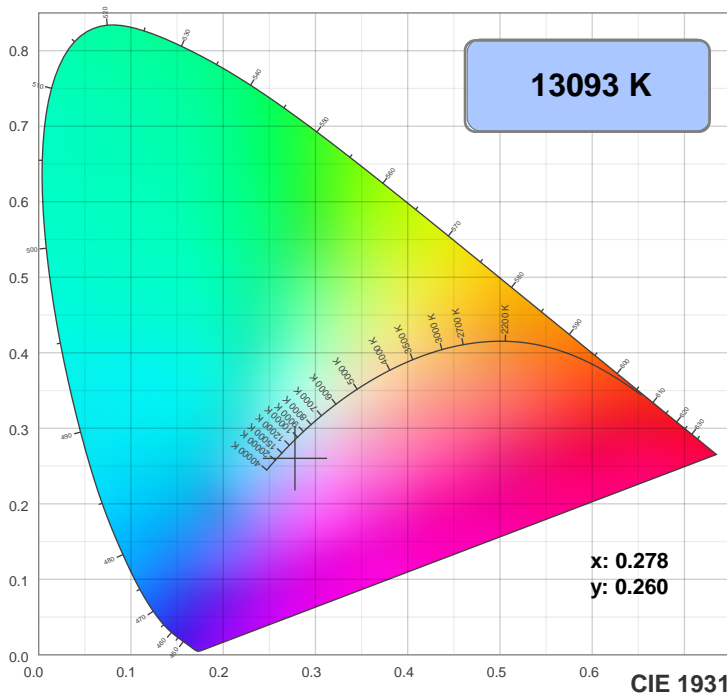
Beam Angle 50%	Field Angle 10%	Cutoff Angle 2.5%
20.8°	39.2°	57.1°

**Spectra**

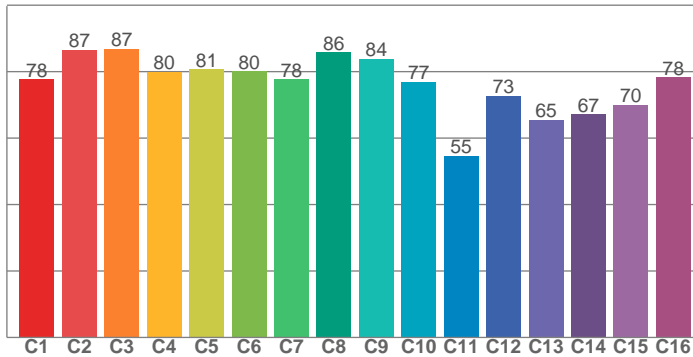
**Dominant Wavelength: 451nm**



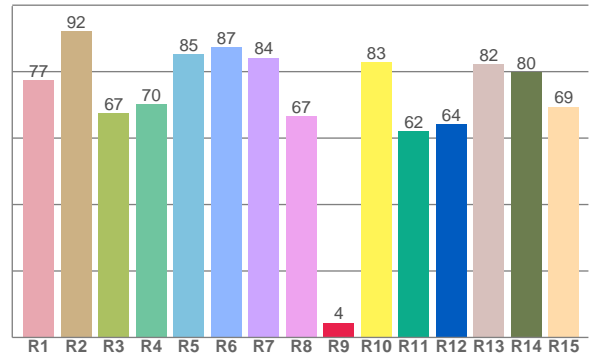
## Color Details



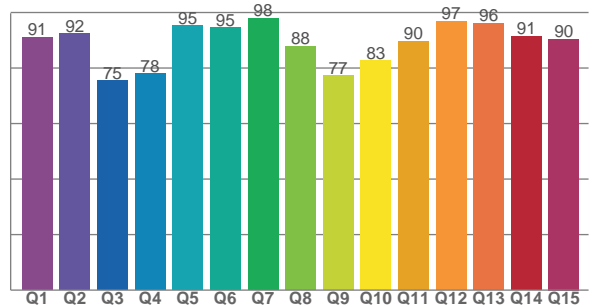
**TM30: 78.0**



**CRI: 78.8 (R1-R8)**



**CQS: 87.0**



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
77.5	92.1	67.4	70.1	85.2	87.4	84.2	66.6	4.4	82.9	62.0	64.2	82.3	79.8	69.5

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
77.6	86.6	86.9	80.0	80.7	80.1	77.7	85.8	83.8	76.9	54.6	72.7	65.5	67.2	69.9	78.2

CQS Q Values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91.1	92.5	75.5	78.0	95.4	94.6	97.9	87.9	77.3	82.6	89.6	96.9	96.2	91.5	90.5

## 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
13093 K	78.8	4.4	78.0	111.5	87.0	0.278	0.260	0.200	0.280	-0.0167

## TM30 Details

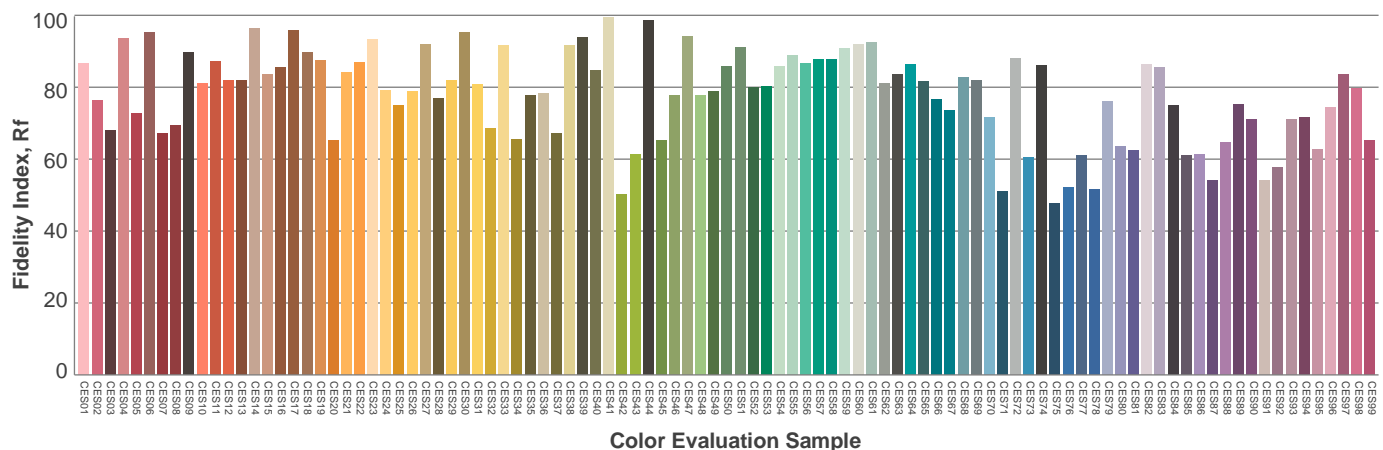
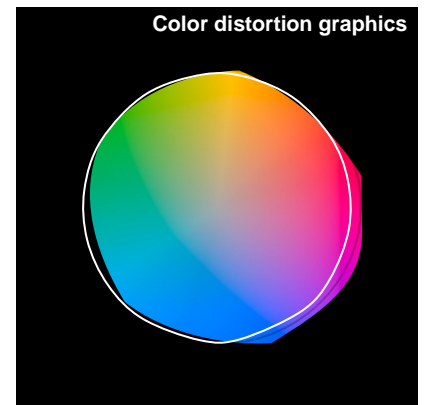
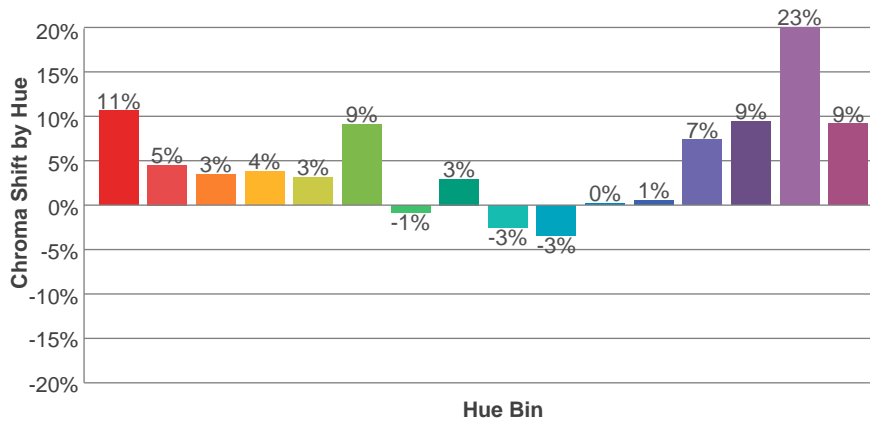
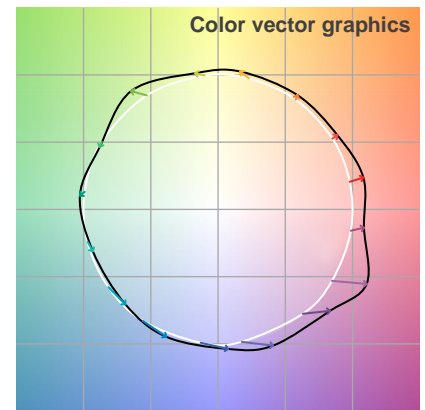
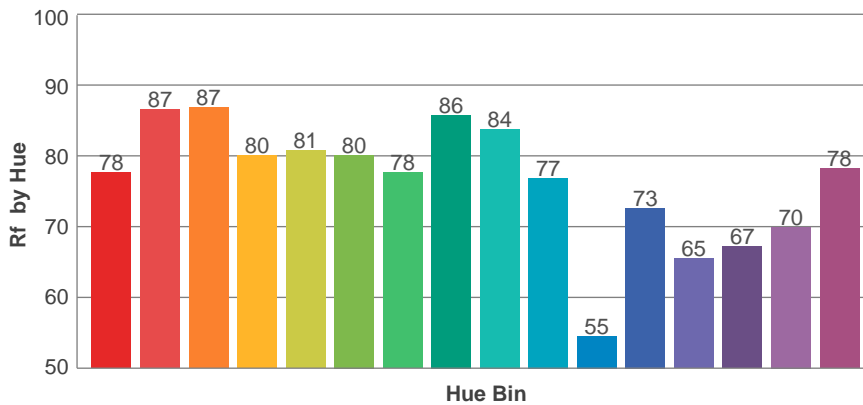
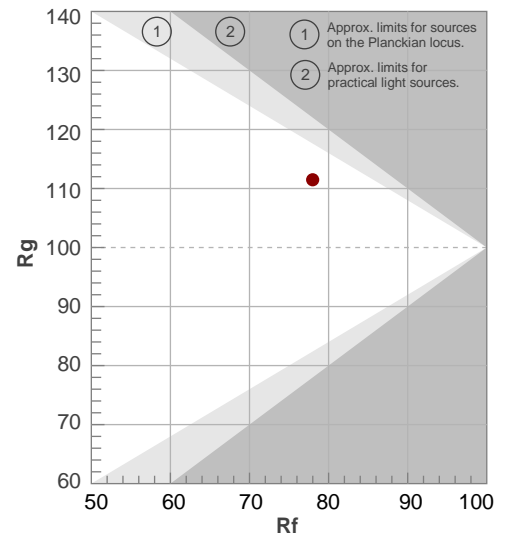
**Rf 78.0**

Fidelity Index Rf

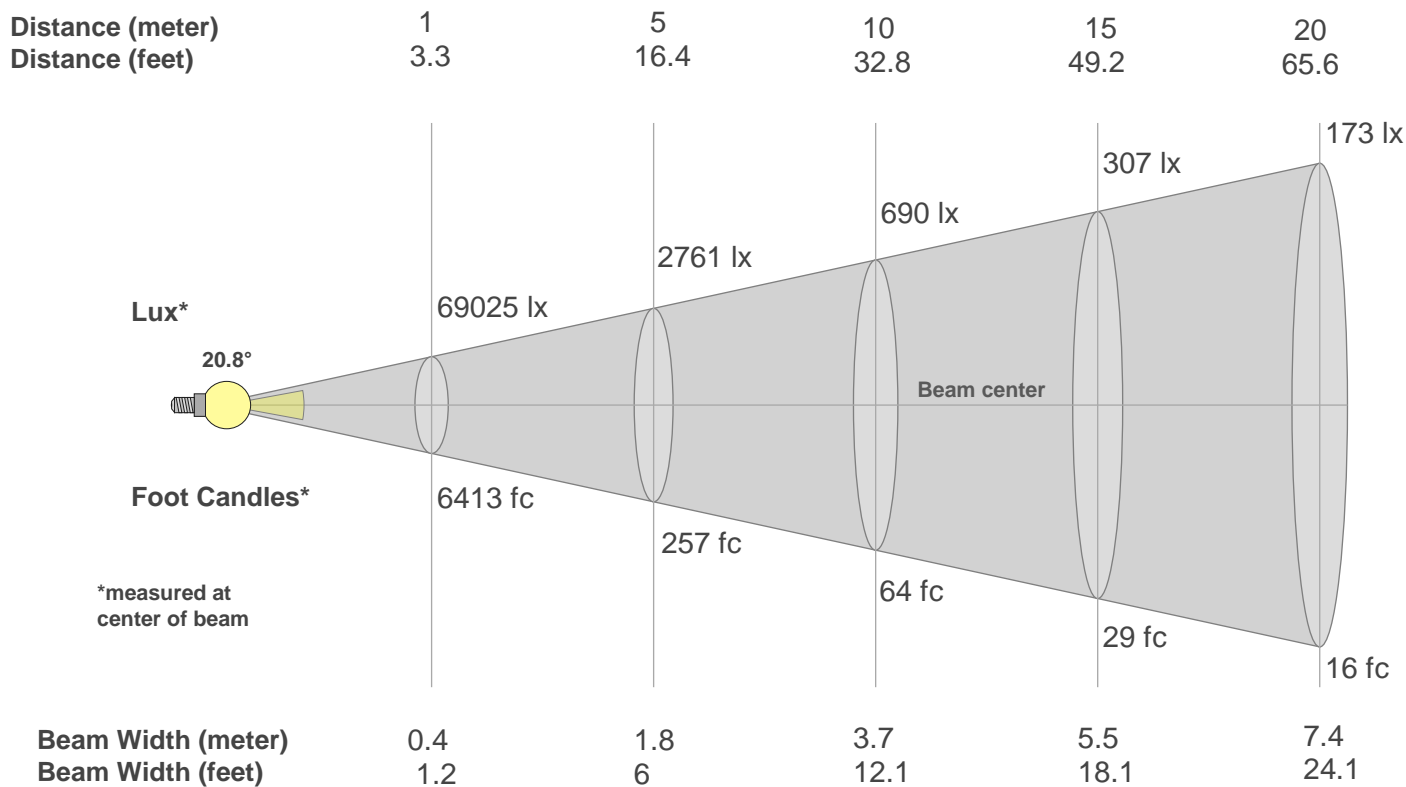
**Rg 111.5**

Gamut Index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	78	11%	1%
2	87	5%	0%
3	87	3%	1%
4	80	4%	7%
5	81	3%	6%
6	80	9%	8%
7	78	-1%	4%
8	86	3%	3%
9	84	-3%	8%
10	77	-3%	18%
11	55	0%	21%
12	73	1%	21%
13	65	7%	22%
14	67	9%	18%
15	70	23%	12%
16	78	9%	4%



## Beam Details



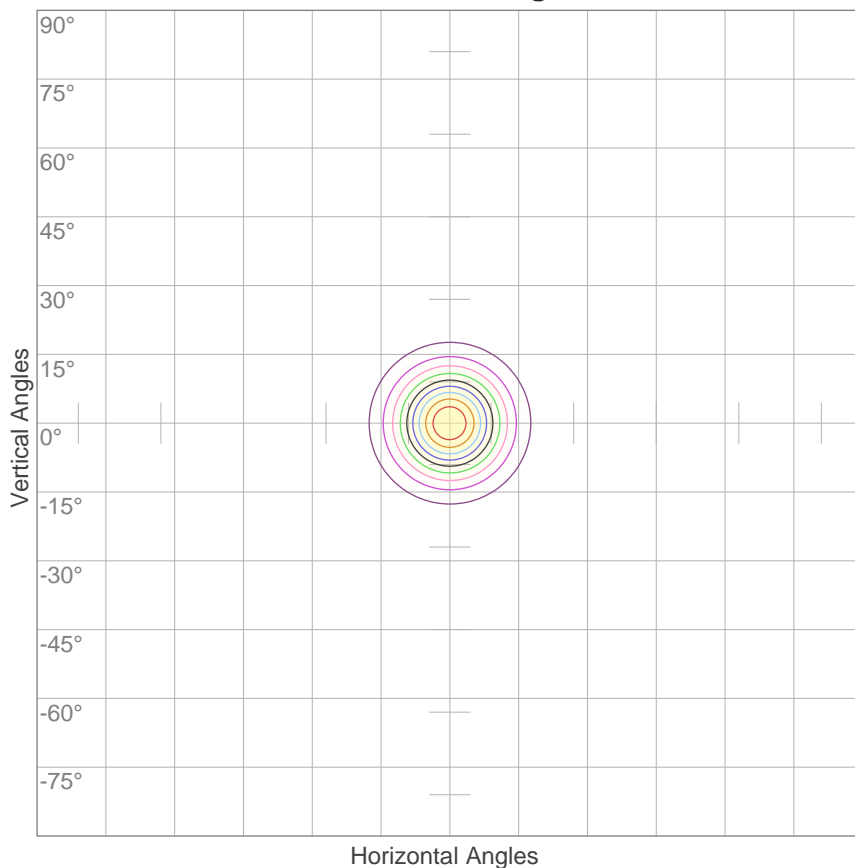
### Beam Intensities from 1-20m

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	69025	17256	7669	4314	2761	1917	1409	1079	852	690	570	479	408	352	307	270	239	213	191	173
fc	6412.6	1603.2	712.5	400.8	256.5	178.1	130.9	100.2	79.2	64.1	53	44.5	37.9	32.7	28.5	25	22.2	19.8	17.8	16

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
20.8°	39.2°	57.1°	99.8%	97.7%

## ISO Diagrams

### ISO Candela Diagram



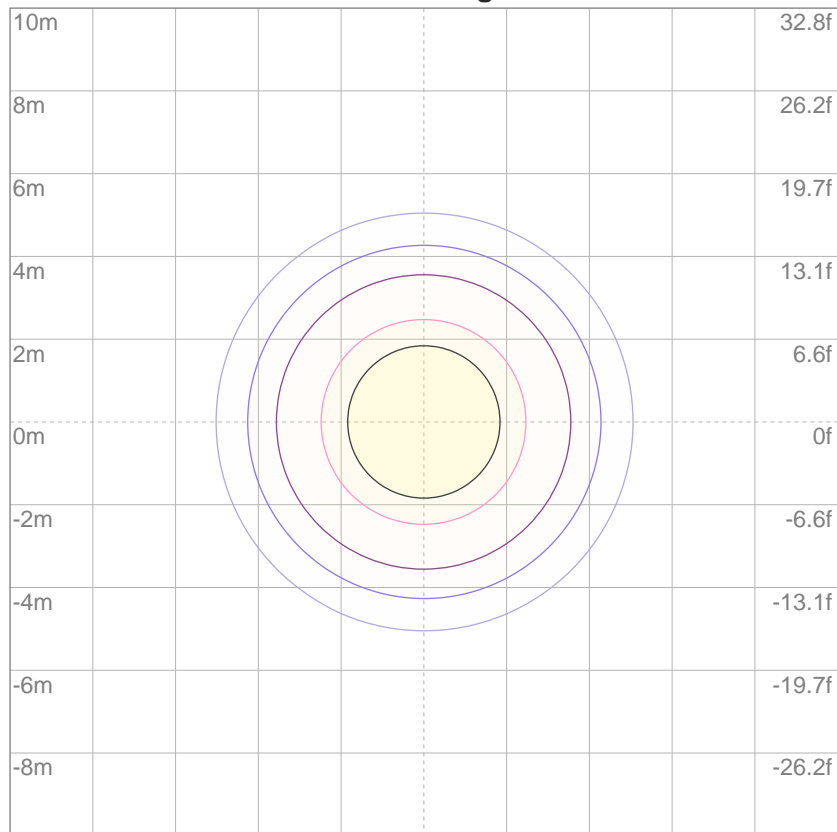
10%	6903 cd
20%	13805 cd
30%	20708 cd
40%	27610 cd
50%	34513 cd
60%	41415 cd
70%	48318 cd
80%	55220 cd
90%	62123 cd

#### Conditions:

Number of c-planes: 2

Candela at center: 69025 cd

### ISO Lux Diagram



3%	20.7 lx
5%	34.5 lx
10%	69.0 lx
30%	207 lx
50%	345 lx

#### Conditions:

Number of c-planes: 2

Lux at center: 690 lx

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

Mounting Height: 10 meters (33 feet)