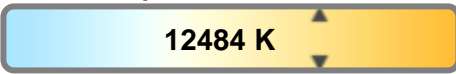


Color Temperature:



**Total Lumen Output:**  
**11894 lm**

Light Quality:

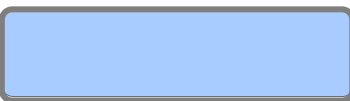


**Peak:**  
**68007 cd**

Light Efficiency:



**Power: 465 W**



CIE 1931  
x: 0.278  
y: 0.264

**Test: Full On No UV**

**Date: 10/10/2018**

**Voltage: 116 V**

**Current: 4.01 A**

**Frequency: 60 Hz**

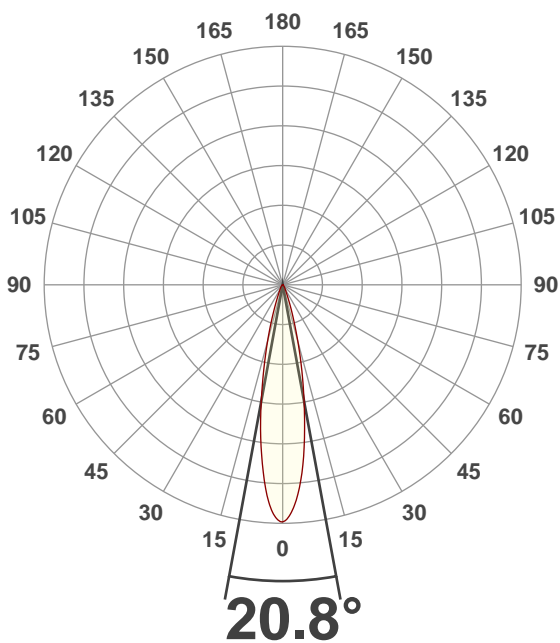
**CRI: 80.5**

**CQS: 87.4**

**TM30: 78.9**

**Note:**

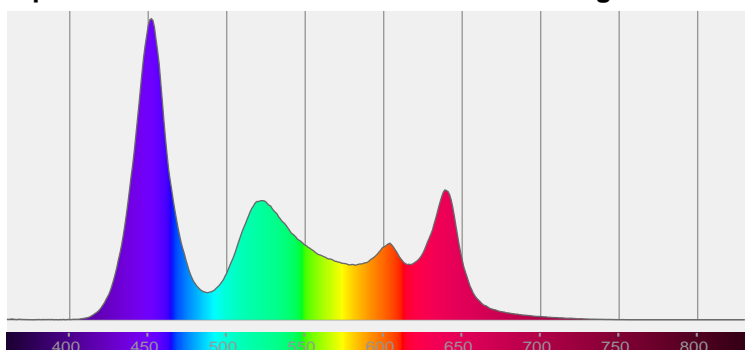
**Beam Angle**



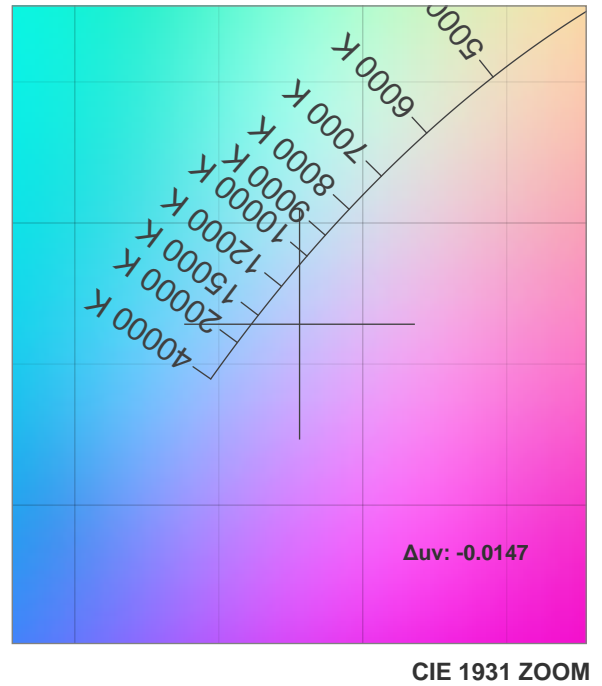
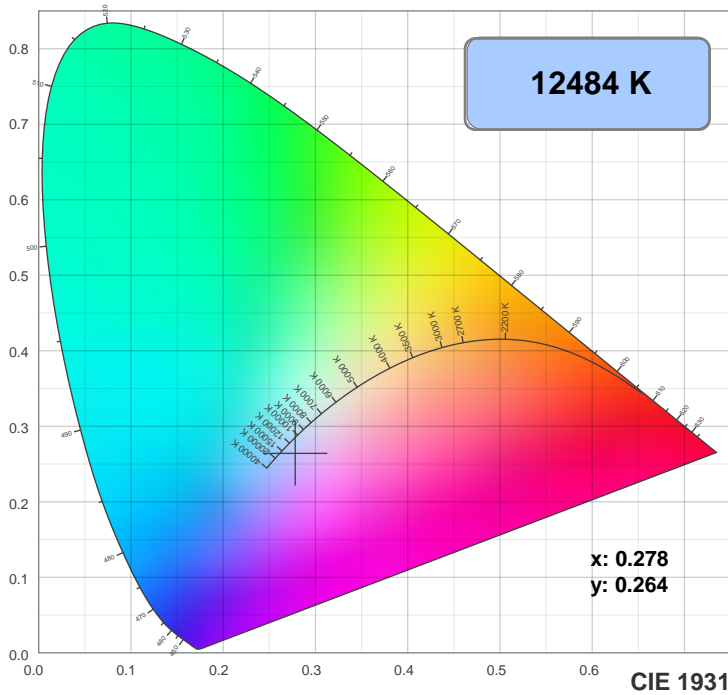
Beam Angle 50%	Field Angle 10%	Cutoff Angle 2.5%
20.8°	39.1°	57°

**Spectra**

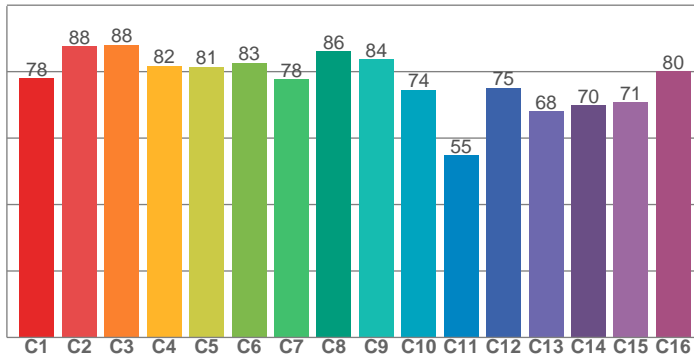
**Dominant Wavelength: 456nm**



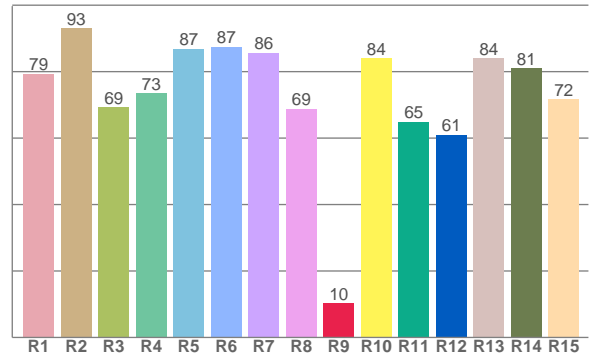
## Color Details



**TM30: 78.9**



**CRI: 80.5 (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
79.4	93.1	69.4	73.5	86.9	87.5	85.7	68.9	10.3	84.1	65.0	61.1	84.0	81.1	71.6

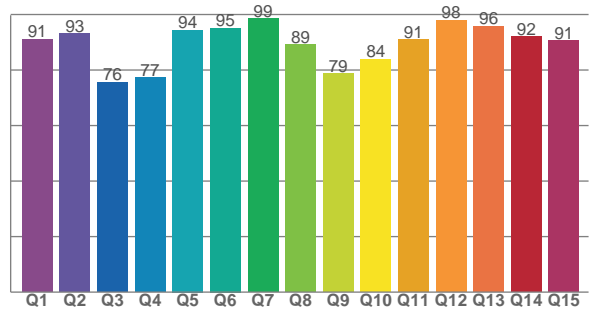
TM30 C Values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
78.0	87.6	88.1	81.7	81.4	82.6	77.7	86.1	83.7	74.5	54.8	75.1	68.0	69.9	70.7	80.1

CQS Q Values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91.1	93.2	75.6	77.3	94.4	95.2	98.6	89.1	78.8	83.9	90.9	98.0	95.8	92.1	90.6

**CQS: 87.4**



## 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
12484 K	80.5	10.3	78.9	110.0	87.4	0.278	0.264	0.198	0.282	-0.0147

## TM30 Details

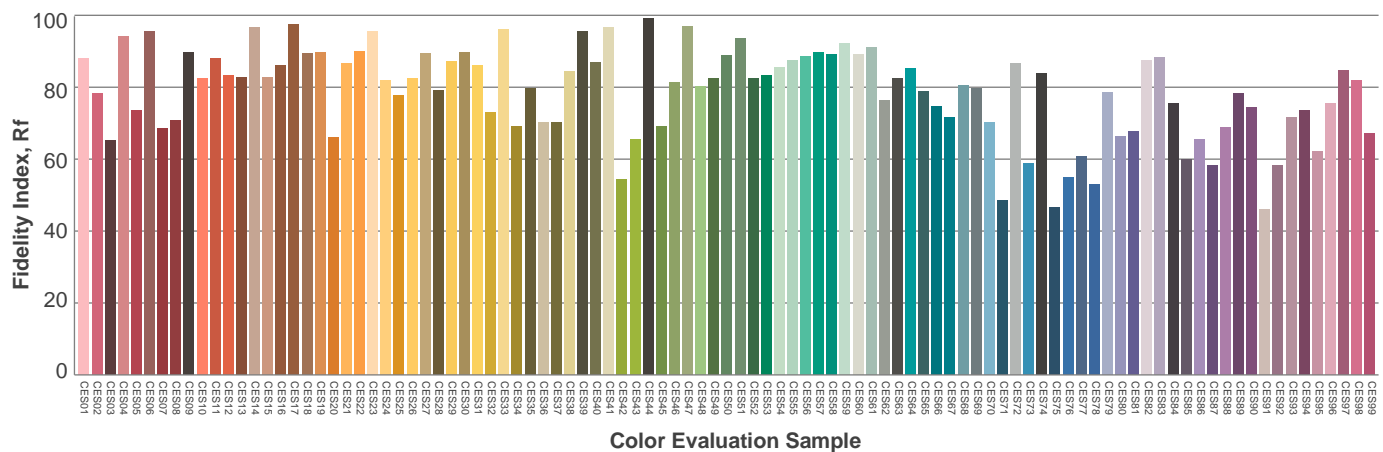
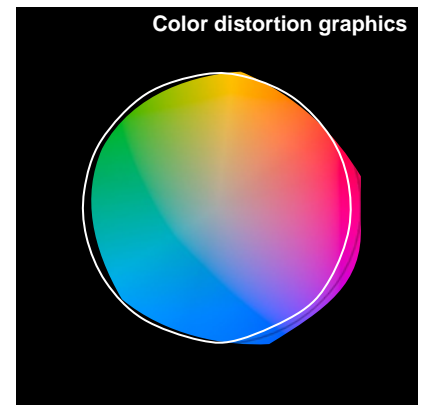
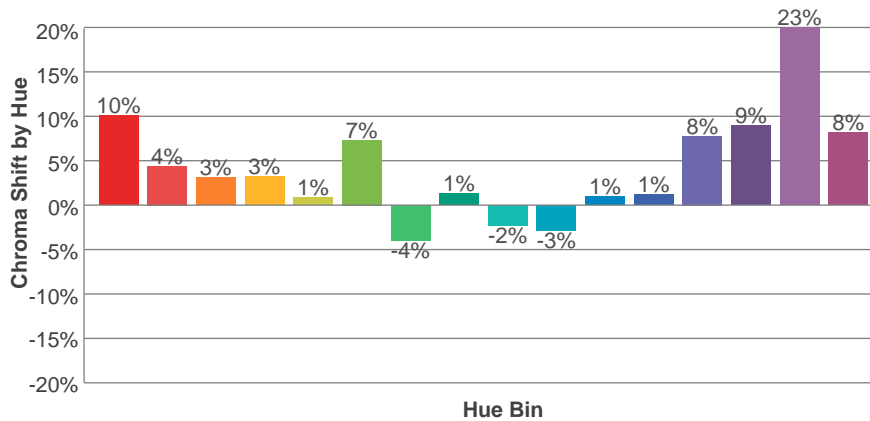
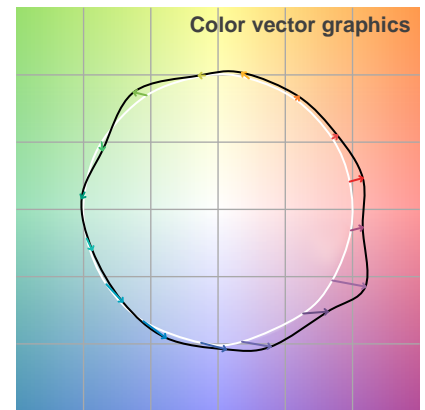
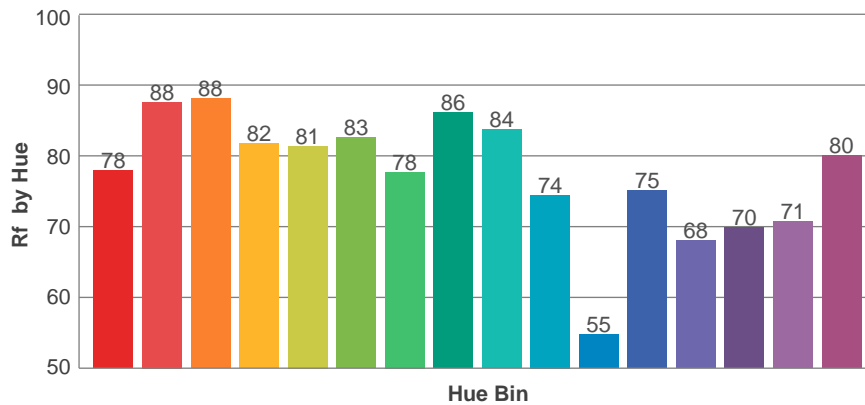
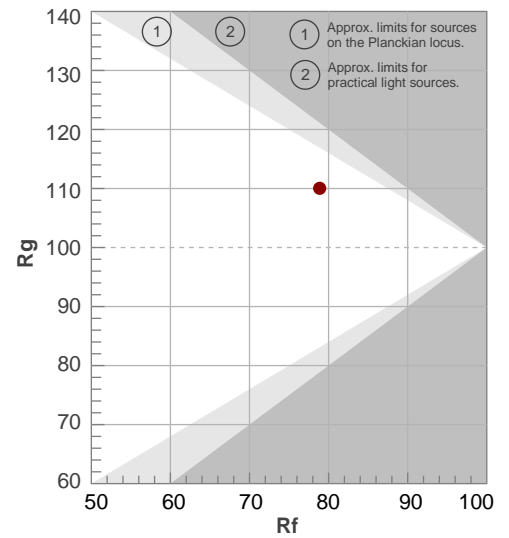
**Rf 78.9**

Fidelity Index Rf

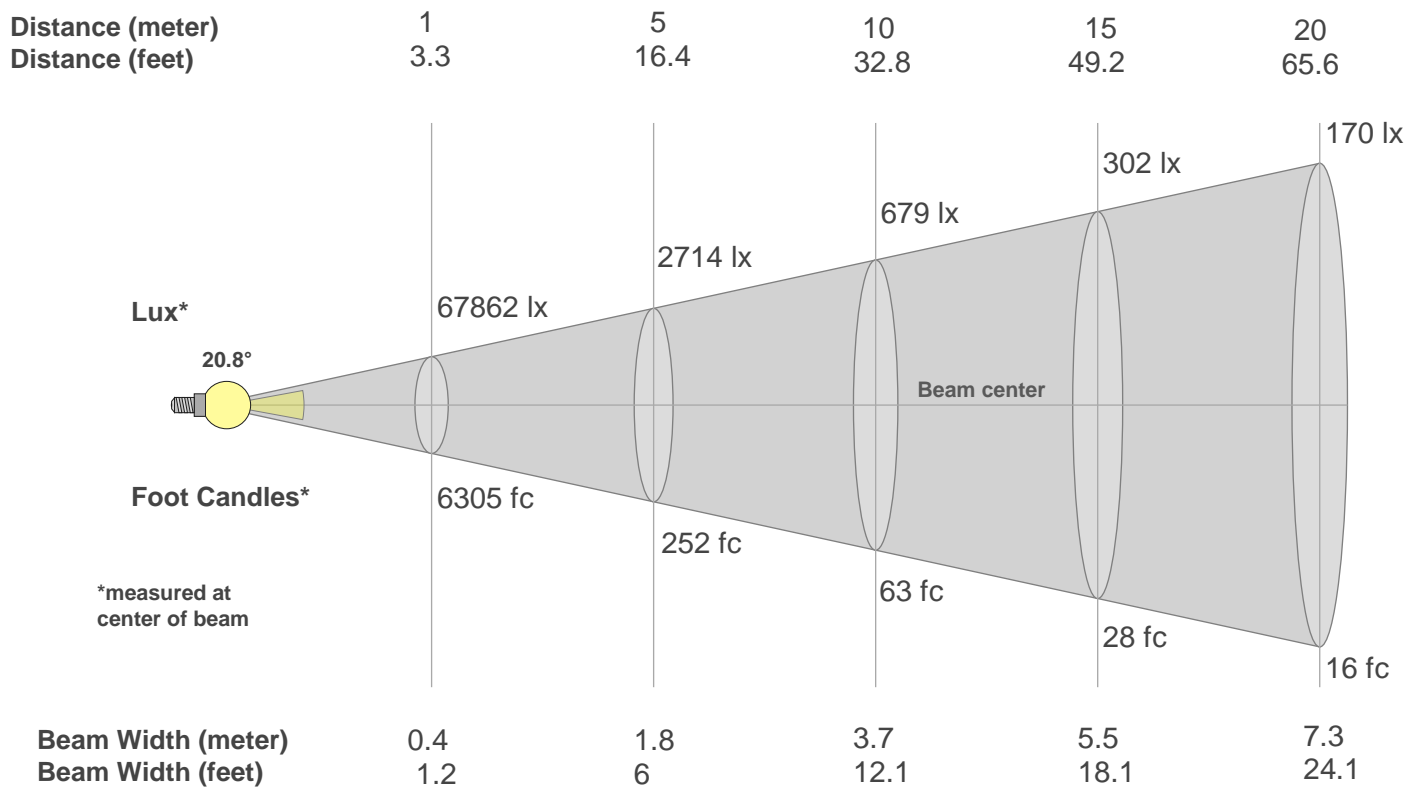
**Rg 110.0**

Gamut Index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	78	10%	1%
2	88	4%	0%
3	88	3%	0%
4	82	3%	6%
5	81	1%	5%
6	83	7%	7%
7	78	-4%	5%
8	86	1%	5%
9	84	-2%	9%
10	74	-3%	18%
11	55	1%	21%
12	75	1%	19%
13	68	8%	20%
14	70	9%	16%
15	71	23%	10%
16	80	8%	4%



## Beam Details



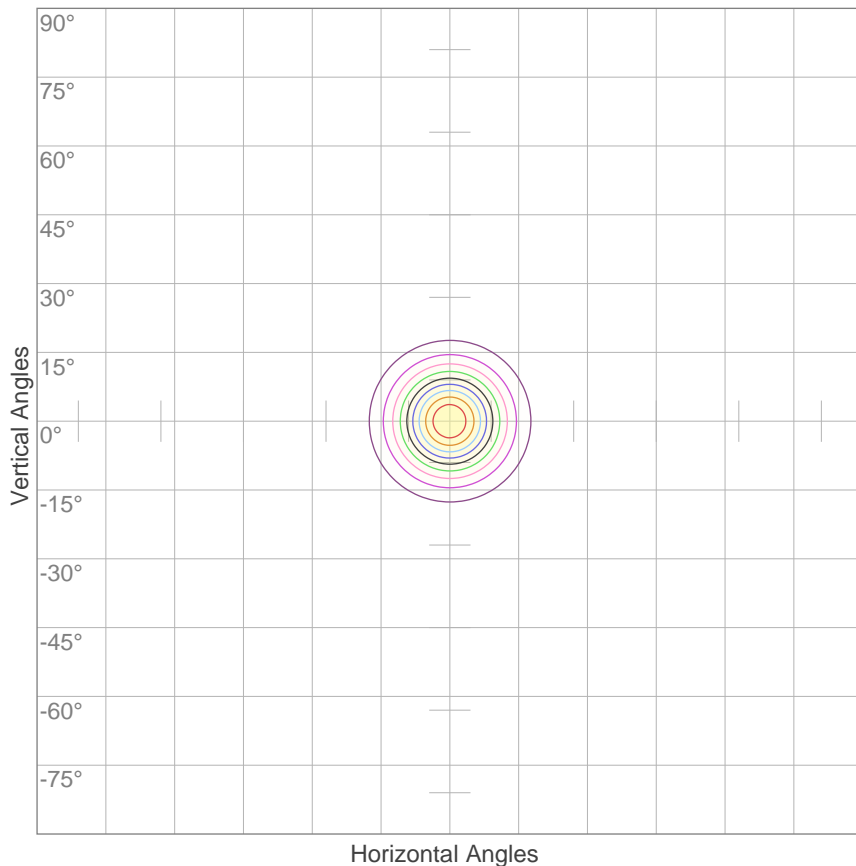
### Beam Intensities from 1-20m

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	67862	16965	7540	4241	2714	1885	1385	1060	838	679	561	471	402	346	302	265	235	209	188	170
fc	6304.6	1576.1	700.5	394	252.2	175.1	128.7	98.5	77.8	63	52.1	43.8	37.3	32.2	28	24.6	21.8	19.5	17.5	15.8

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
20.8°	39.1°	57°	99.8%	97.8%

## ISO Diagrams

### ISO Candela Diagram



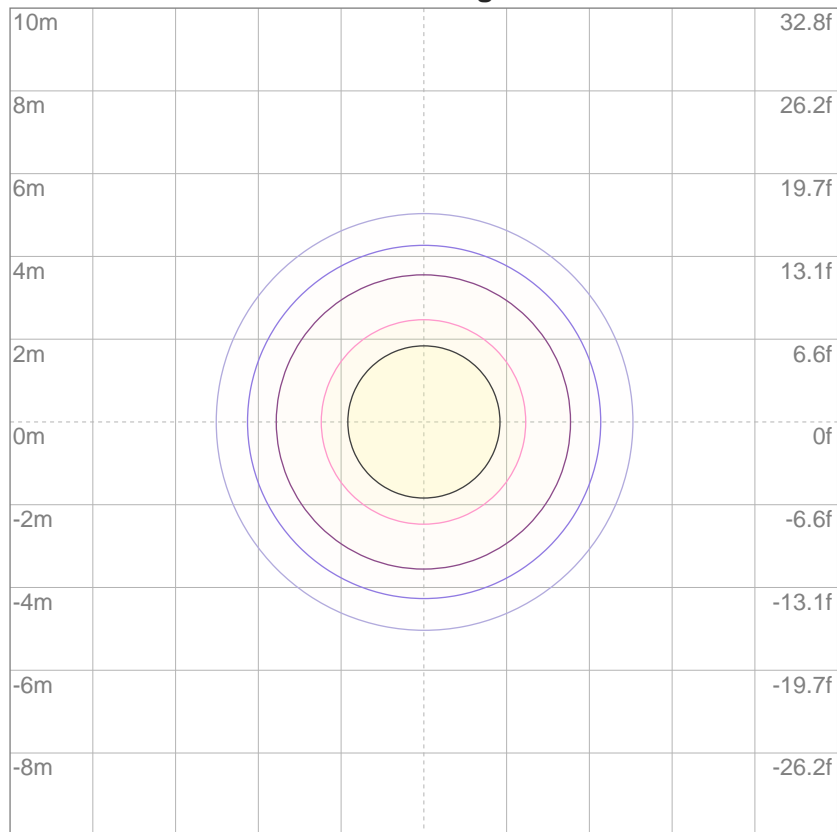
10%	6786 cd
20%	13572 cd
30%	20359 cd
40%	27145 cd
50%	33931 cd
60%	40717 cd
70%	47503 cd
80%	54289 cd
90%	61076 cd

#### Conditions:

Number of c-planes: 2

Candela at center: 67862 cd

### ISO Lux Diagram



3%	20.4 lx
5%	33.9 lx
10%	67.9 lx
30%	204 lx
50%	339 lx

#### Conditions:

Number of c-planes: 2

Lux at center: 679 lx

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