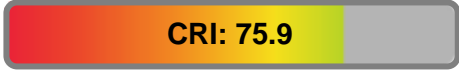


Color Temperature:



**Total Lumen Output:**  
**5083 lm**

Light Quality:



**Peak:**  
**42282 cd**

Light Efficiency:



**Power: 223 W**



CIE 1931  
x: 0.281  
y: 0.258

**Test: Full On No UV**

**Date: 7/2/2018**

**Voltage: 113 V**

**Current: 2.01 A**

**Frequency: 60 Hz**

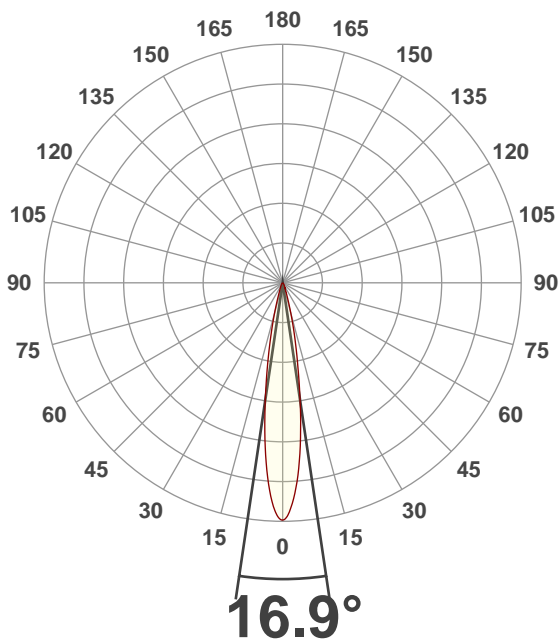
**CRI: 75.9**

**CQS: 85.3**

**TM30: 75.4**

**Note:**

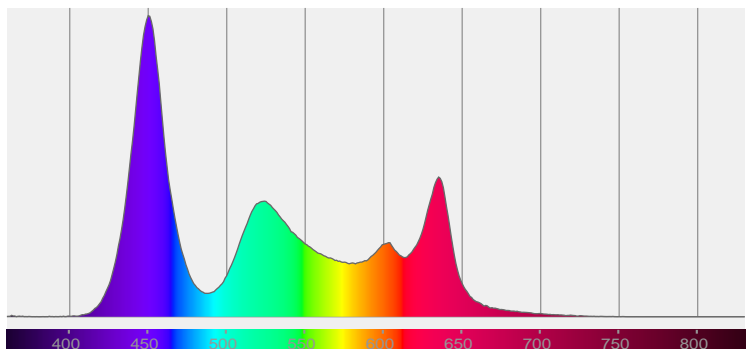
**Beam Angle**



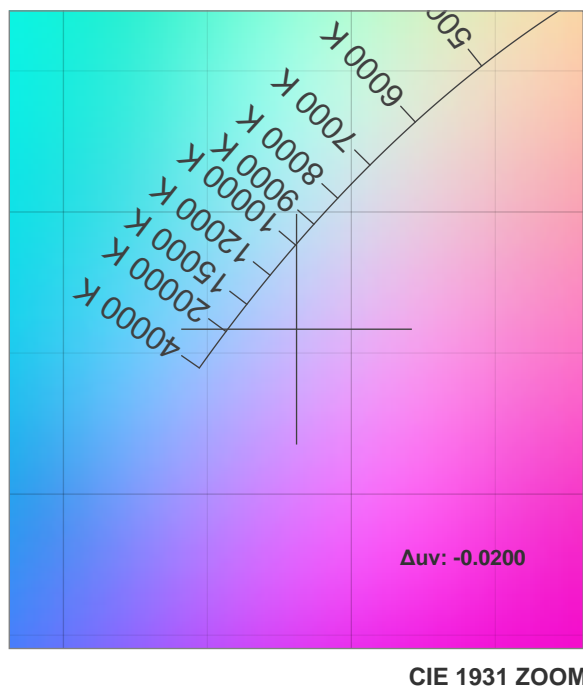
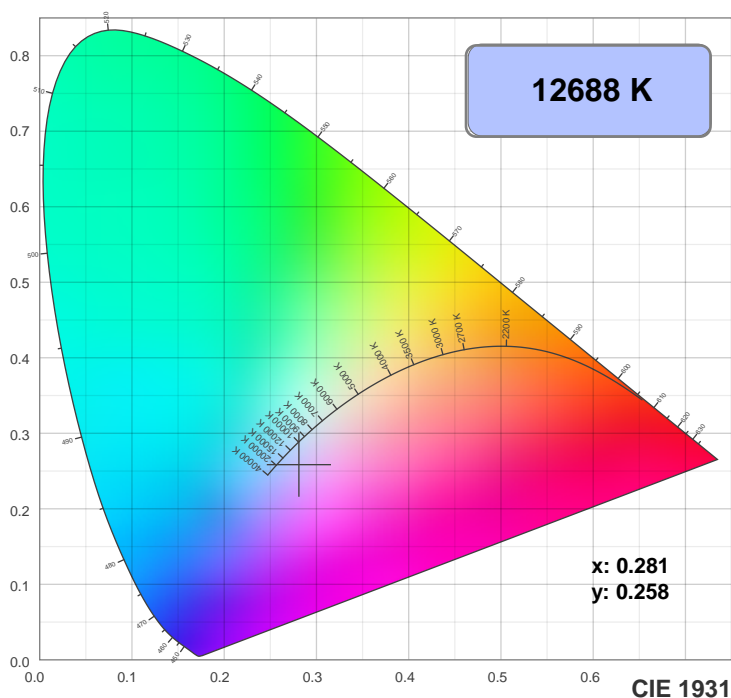
Beam Angle 50%	Field Angle 10%	Cutoff Angle 2.5%
16.9°	32.3°	47.2°

**Spectra**

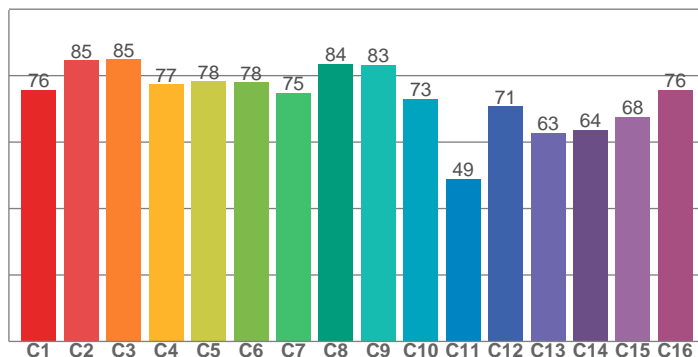
**Dominant Wavelength: 432nm**



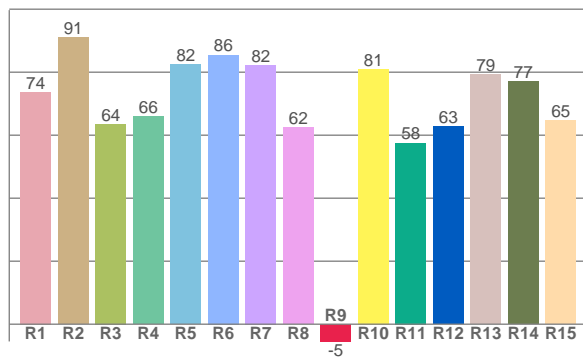
## Color Details



**TM30: 75.4**



**CRI: 75.9 (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
73.7	91.1	63.5	65.9	82.5	85.5	82.3	62.5	-5.5	81.0	57.6	62.8	79.3	77.1	64.6

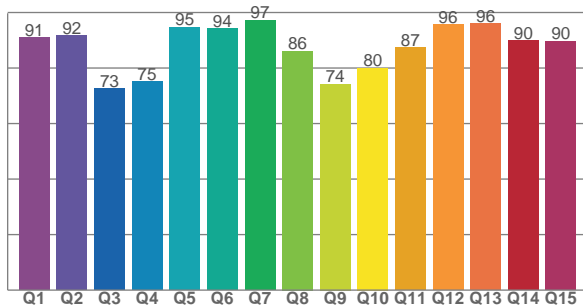
TM30 C Values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
75.8	84.6	84.9	77.4	78.2	78.0	74.8	83.5	83.2	73.0	49.0	70.7	62.7	63.7	67.5	75.6

CQS Q Values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90.9	91.6	72.5	75.0	94.7	94.1	97.2	86.2	74.3	80.0	87.3	95.7	96.0	89.8	89.6

**CQS: 85.3**



## 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
12688 K	75.9	-5.5	75.4	113.0	85.3	0.281	0.258	0.203	0.280	-0.0200

## TM30 Details

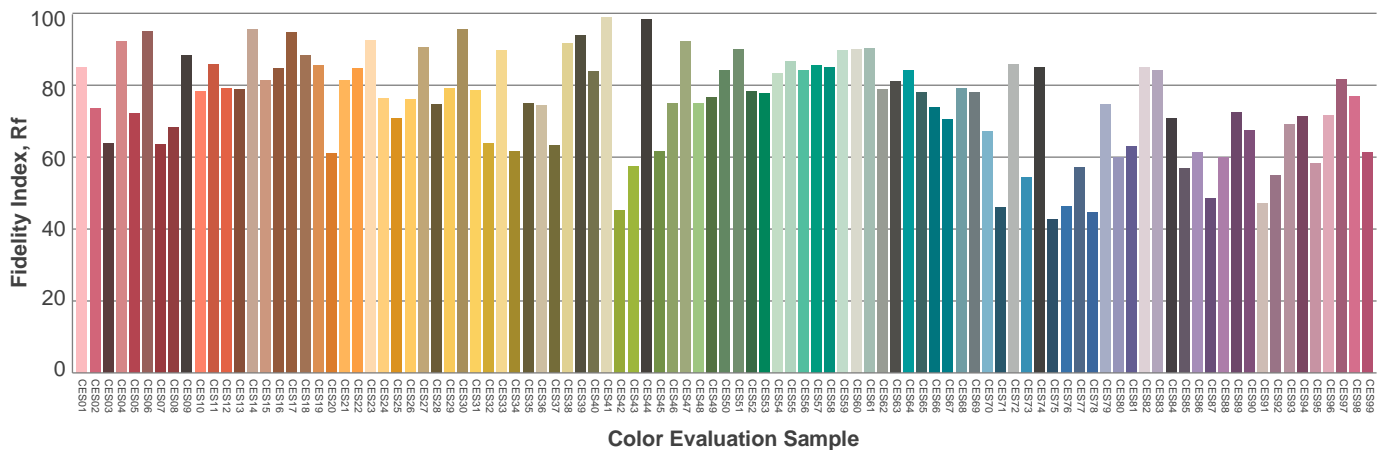
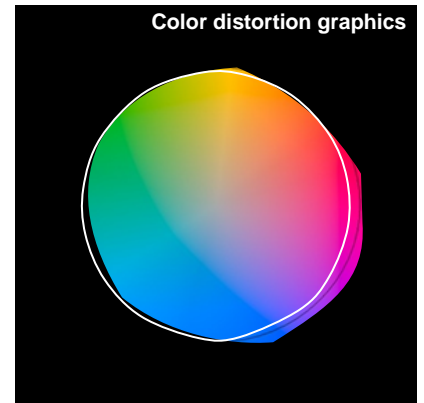
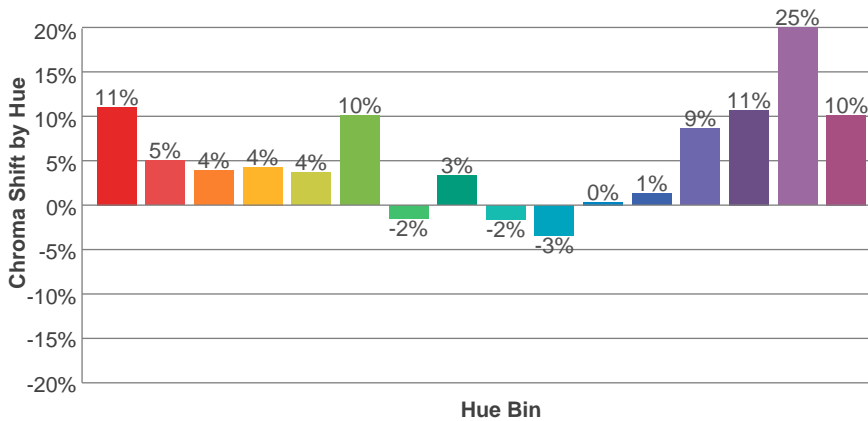
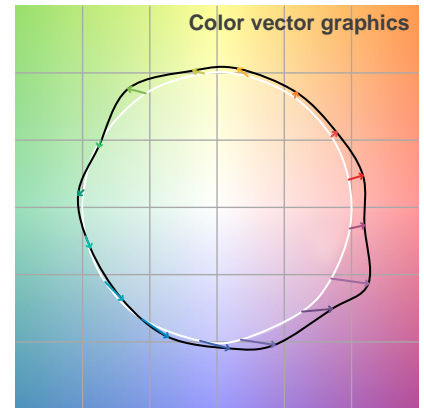
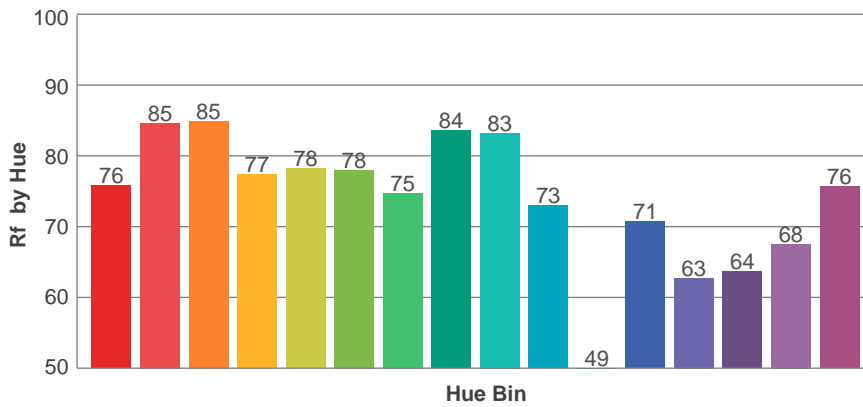
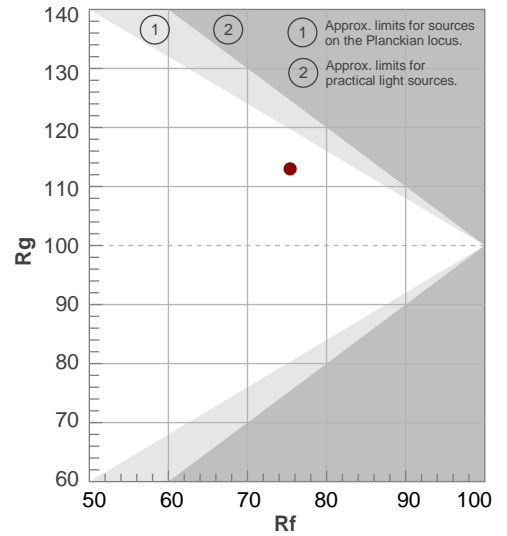
**Rf 75.4**

Fidelity Index Rf

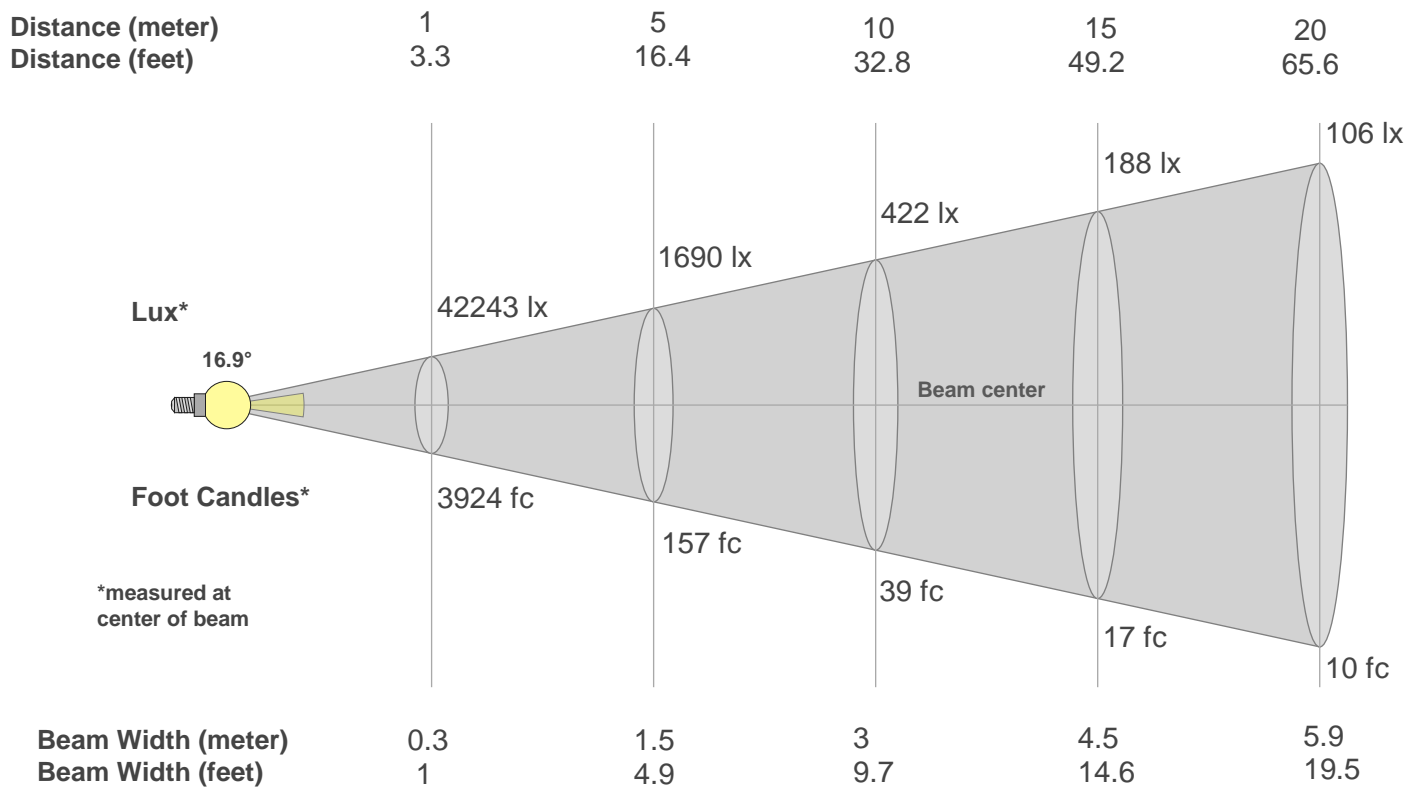
**Rg 113.0**

Gamut Index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	76	11%	1%
2	85	5%	0%
3	85	4%	1%
4	77	4%	8%
5	78	4%	7%
6	78	10%	9%
7	75	-2%	5%
8	84	3%	4%
9	83	-2%	9%
10	73	-3%	18%
11	49	0%	23%
12	71	1%	22%
13	63	9%	24%
14	64	11%	20%
15	68	25%	12%
16	76	10%	5%



## Beam Details



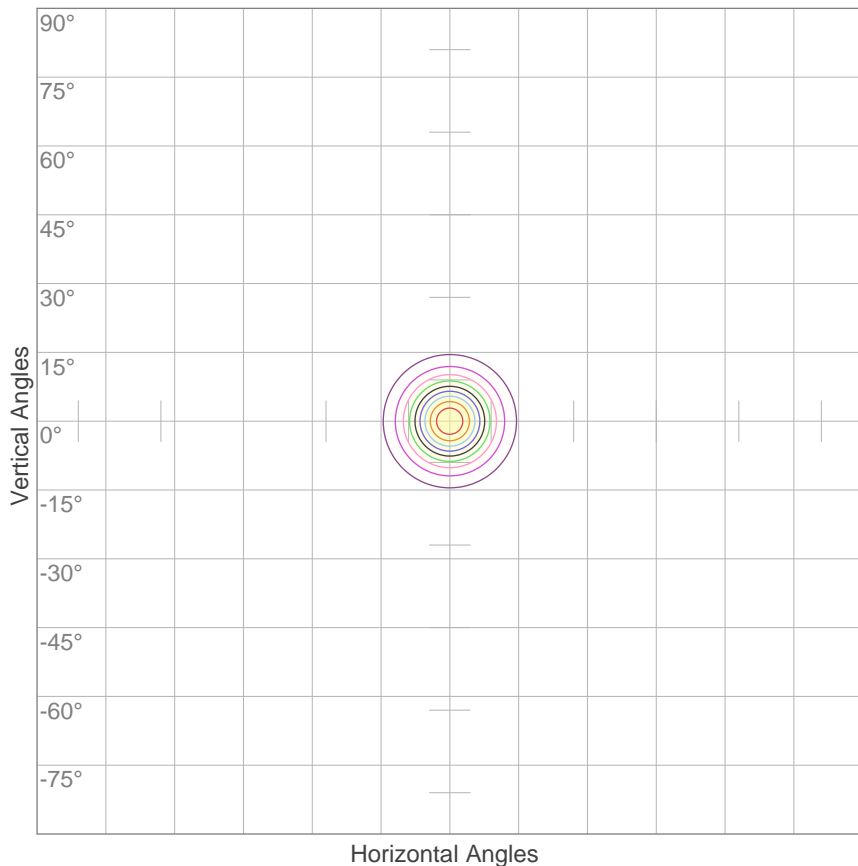
Beam Intensities from 1-20m

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	42243	10561	4694	2640	1690	1173	862	660	522	422	349	293	250	216	188	165	146	130	117	106
fc	3924.5	981.1	436.1	245.3	157	109	80.1	61.3	48.5	39.2	32.4	27.3	23.2	20	17.4	15.3	13.6	12.1	10.9	9.8

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
16.9°	32.3°	47.2°	100.0%	99.0%

## ISO Diagrams

### ISO Candela Diagram



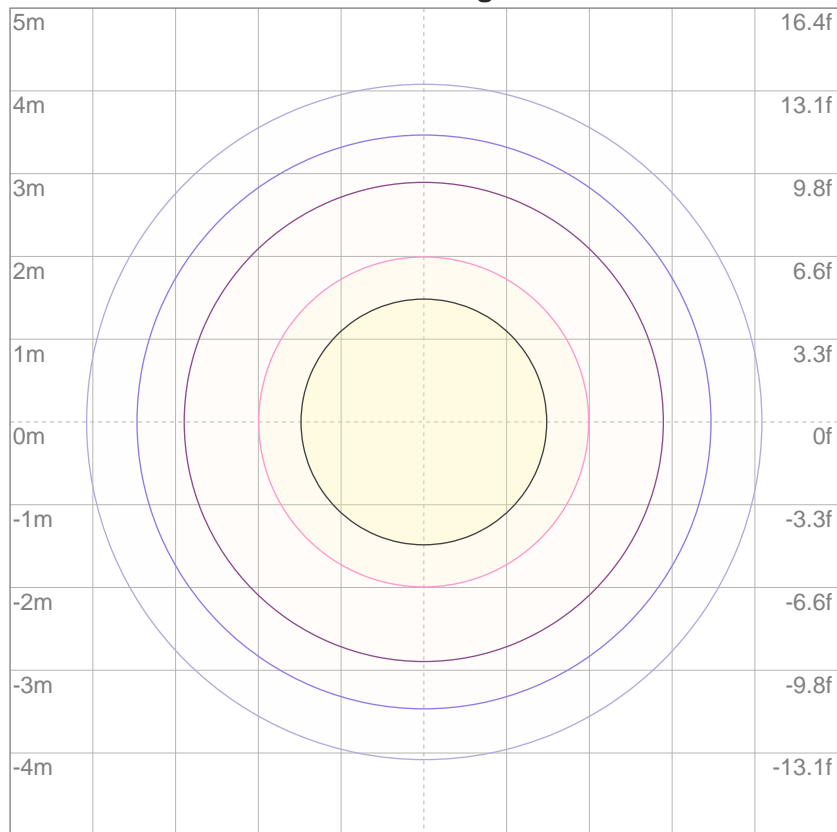
10%	4224 cd
20%	8449 cd
30%	12673 cd
40%	16897 cd
50%	21121 cd
60%	25346 cd
70%	29570 cd
80%	33794 cd
90%	38018 cd

#### Conditions:

Number of c-planes: 2

Candela at center: 42243 cd

### ISO Lux Diagram



3%	12.7 lx
5%	21.1 lx
10%	42.2 lx
30%	127 lx
50%	211 lx

#### Conditions:

Number of c-planes: 2

Lux at center: 422 lx

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

Mounting Height: 10 meters (33 feet)