



Light Efficiency:

50 Lumen/Watt

Light Quality:

CRI: 89.2

Color Temperature:

4505 K

Output: 2239 lm

Peak: 10312 cd

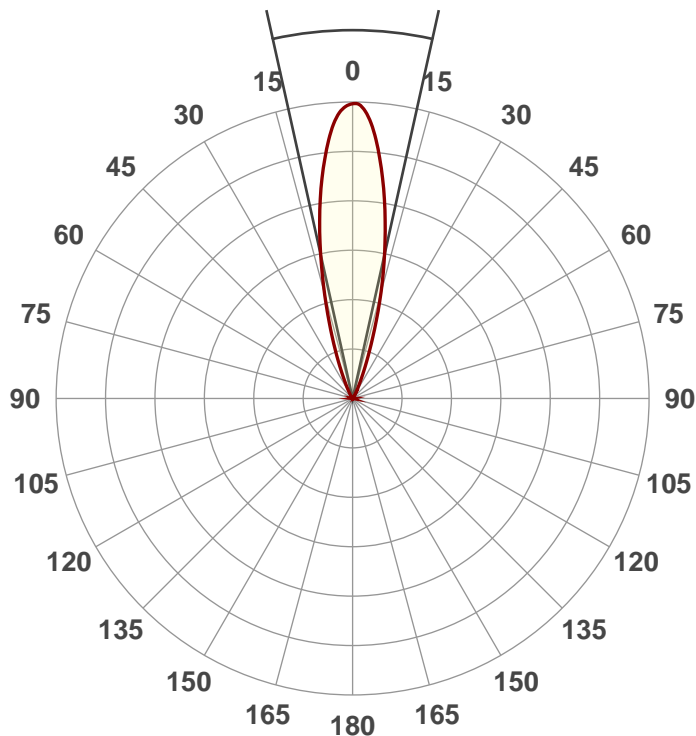
Power: 44.9 W

PF: 0.64



Beam Angle

25°



Product Name:

UB 12H

Test:

CRI Value

Date:

4/19/2018

Note:

R @ 110

G @ 255

B @ 0

W @ 255

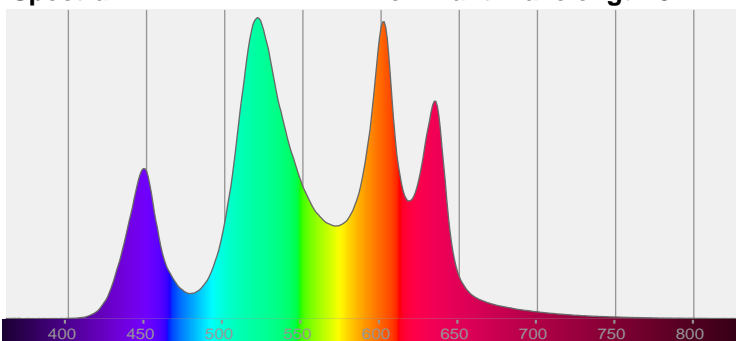
A @ 255



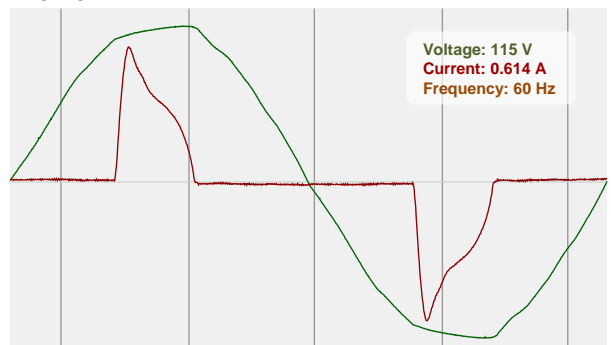
CIE 1931  
x: 0.372  
y: 0.426

Spectra

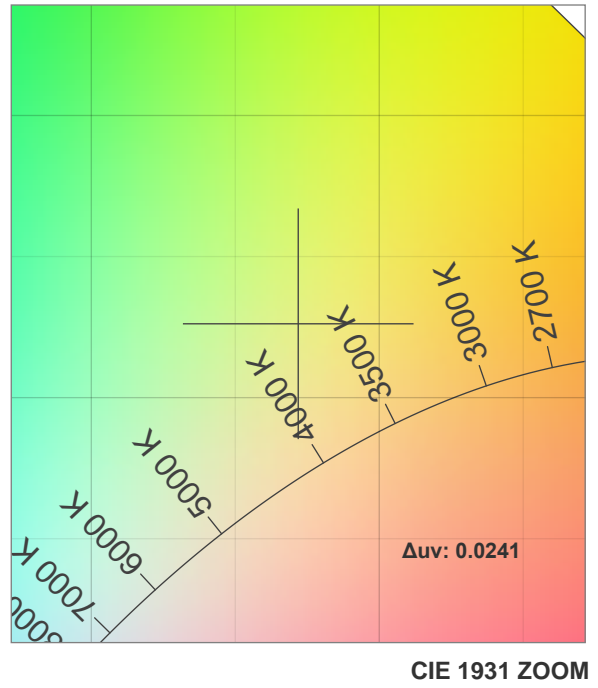
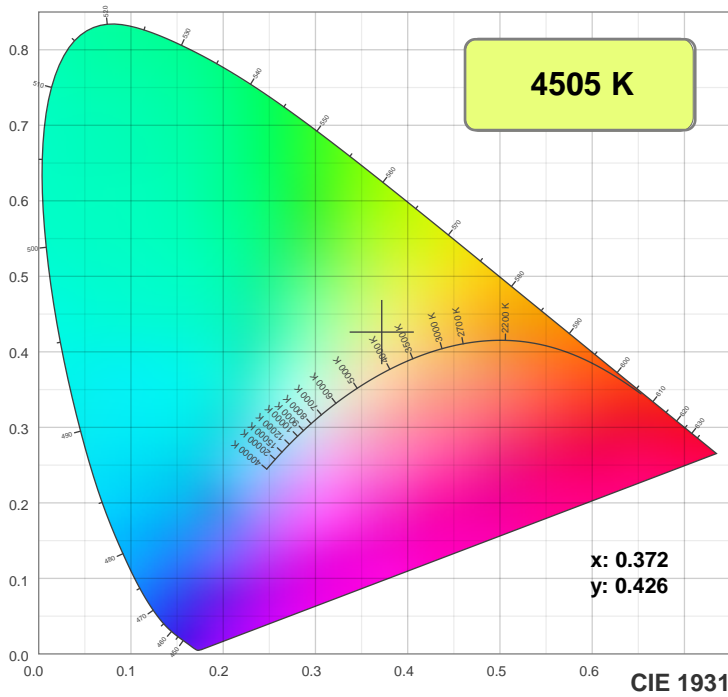
Dominant Wavelength: 571nm



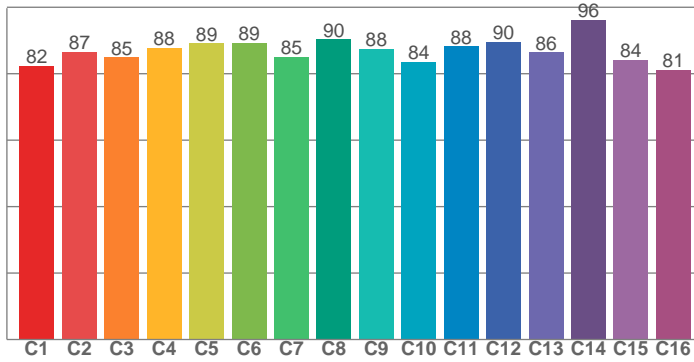
Power



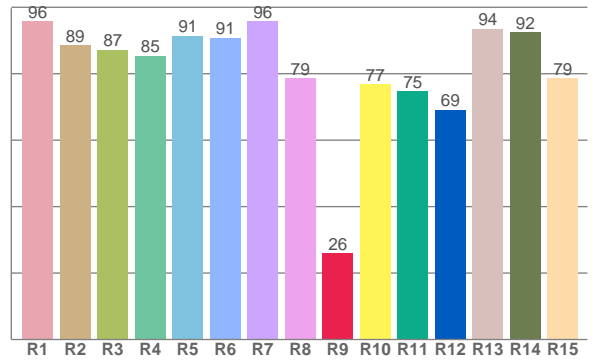
## Color Details



**TM30: 86.6**



**CRI: 89.2 (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
95.8	88.6	87.2	85.4	91.4	90.8	95.8	78.6	26.0	76.9	74.7	69.2	93.5	92.4	78.7

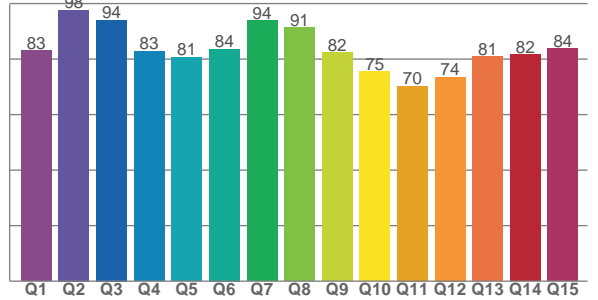
**TM30 C values, 16 binned values out of total of 99 C values**

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82.3	86.6	84.9	87.8	89.2	89.4	85.2	90.3	87.5	83.5	88.2	89.6	86.5	96.2	84.2	81.2

**CQS Q values**

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83.1	97.6	94.1	82.8	80.6	83.6	93.9	91.3	82.3	75.5	70.3	73.6	80.9	81.7	83.7

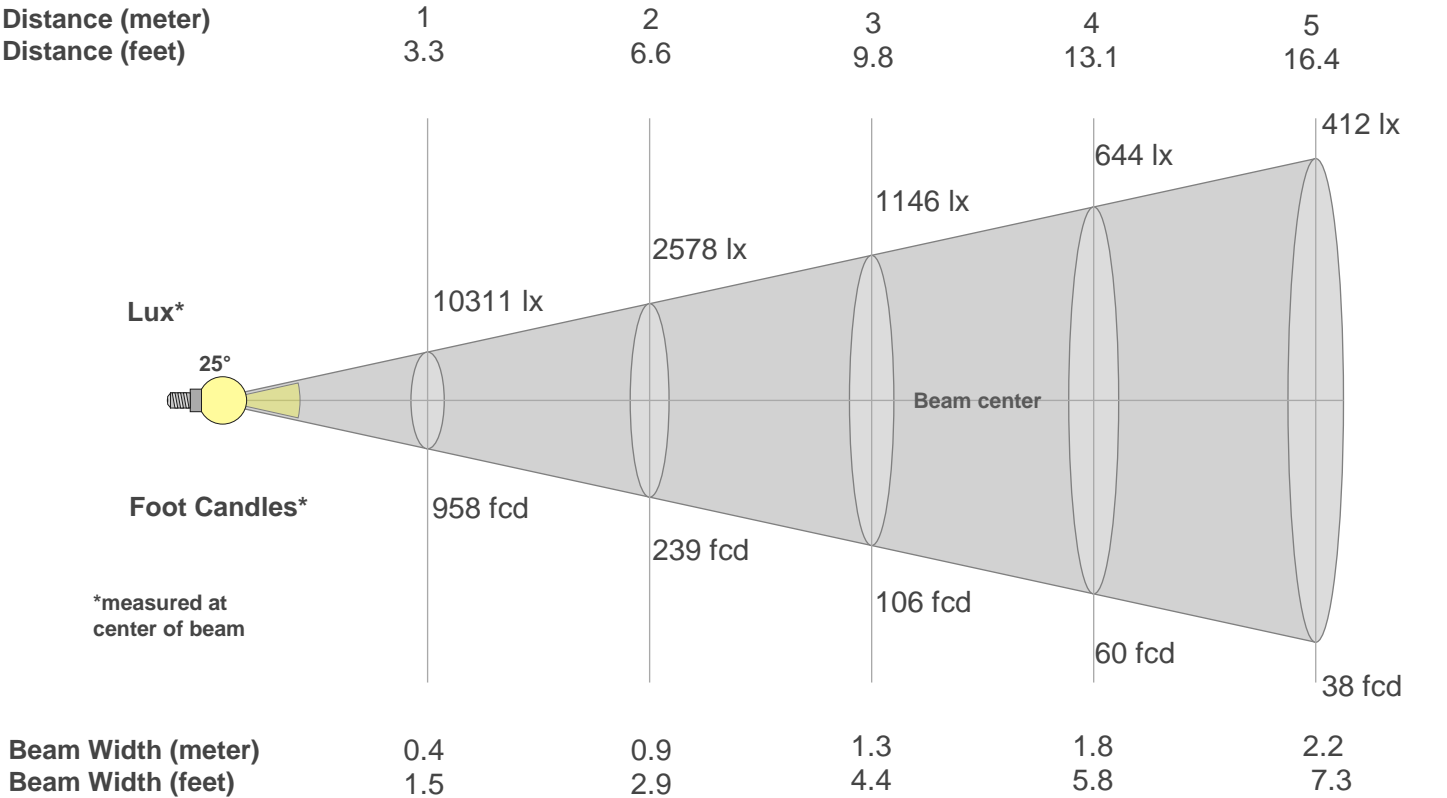
**CQS: 82.0**



## 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	$\Delta uv$
4505 K	89.2	26.0	86.6	98.7	82.0	0.372	0.426	0.202	0.347	0.0241

Beam Details



Lux\*

25°

Beam center

10311 lx

2578 lx

1146 lx

644 lx

412 lx

Foot Candles\*

958 fcd

239 fcd

106 fcd

60 fcd

38 fcd

\*measured at center of beam

Beam Width (meter)

Beam Width (feet)

0.4

1.5

0.9

2.9

1.3

4.4

1.8

5.8

2.2

7.3

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	10311	2578	1146	644	412	286	210	161	127	103	85	72	61	53	46	40	36	32	29	26
fcd	957.9	239.5	106.4	59.9	38.3	26.6	19.5	15	11.8	9.6	7.9	6.7	5.7	4.9	4.3	3.7	3.3	3	2.7	2.4

Intensities in 0° C-plane																			
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
10.3K	10.1K	9.6K	8.7K	7.7K	6.6K	5.5K	4.3K	3.3K	2.4K	1.7K	1.1K	0.7K	0.5K	0.3K	0.2K	0.1K	0.1K	0.1K	0.1K
100%	98%	93%	85%	75%	64%	53%	42%	32%	23%	16%	11%	7%	5%	3%	2%	1%	1%	1%	1%

Intensities in 90° C-plane																			
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
10.3K	10.1K	9.6K	8.7K	7.7K	6.6K	5.5K	4.3K	3.3K	2.4K	1.7K	1.1K	0.7K	0.5K	0.3K	0.2K	0.1K	0.1K	0.1K	0.1K
100%	98%	93%	85%	75%	64%	53%	42%	32%	23%	16%	11%	7%	5%	3%	2%	1%	1%	1%	1%

Intensities in 180° C-plane																				
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	
10.3K	10.2K	9.6K	8.7K	7.6K	6.5K	5.4K	4.4K	3.3K	2.4K	1.6K	1.1K	0.7K	0.5K	0.3K	0.2K	0.1K	0.1K	0.1K	0.1K	
100%	99%	93%	84%	74%	63%	53%	42%	32%	23%	16%	10%	7%	4%	3%	2%	1%	1%	1%	1%	

Intensities in 270° C-plane																				
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	
10.3K	10.2K	9.6K	8.7K	7.6K	6.5K	5.4K	4.4K	3.3K	2.4K	1.6K	1.1K	0.7K	0.5K	0.3K	0.2K	0.1K	0.1K	0.1K	0.1K	
100%	99%	93%	84%	74%	63%	53%	42%	32%	23%	16%	10%	7%	4%	3%	2%	1%	1%	1%	1%	

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
25°	44.7°	57.4°	98.6%	97.8%