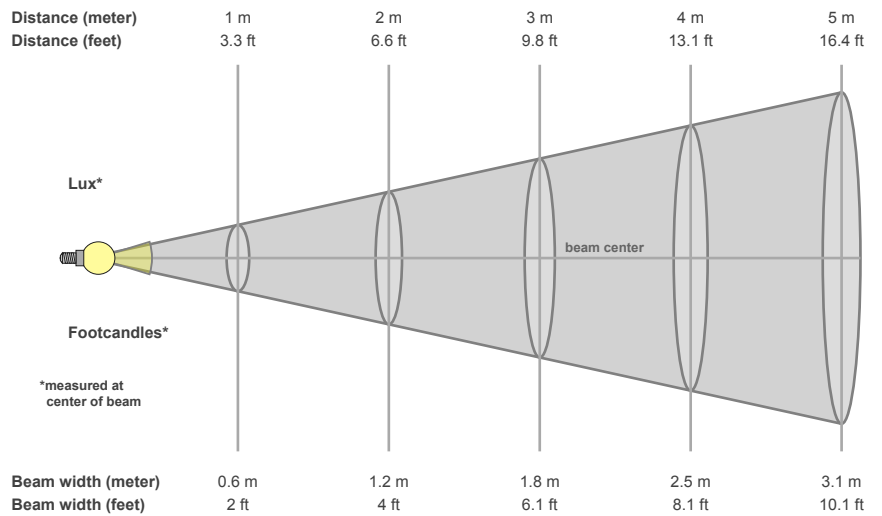
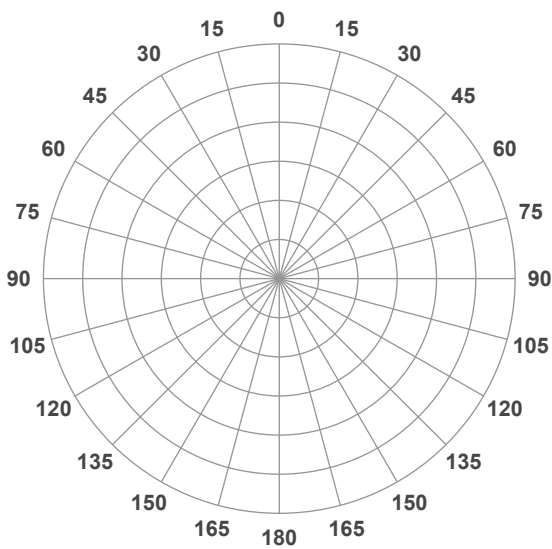
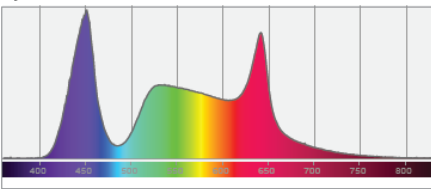
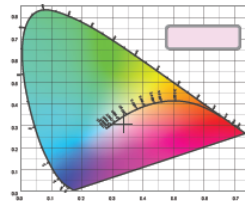




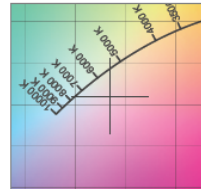
Spectral distribution



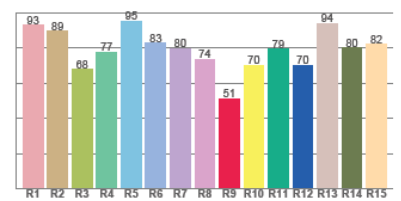
Color coordinates



Zoom color point



CRI R values



Photometric Test Report

*Due to additional product enhancements, an updated version of this report may be available online. Please check www.adj.com for the latest revision/update of this report.

MOD HEX100



Light Efficiency:

17 Lumen/Watt

Dominant Wavelength:

467 nm

Output:

1773 lm

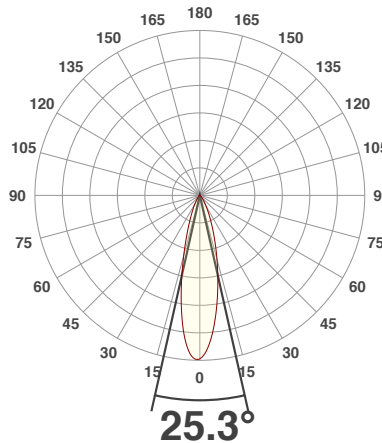
Power:

105 W

Peak:

6232 cd

Beam Angle



Test:

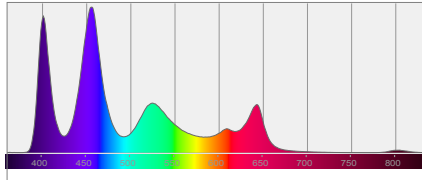
40Deg Full On

Date:

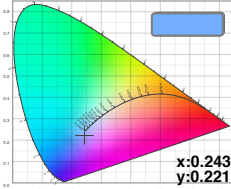
11/20/2018

Note:

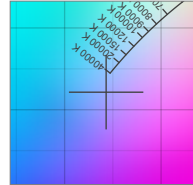
Spectral Distribution



Color Coordinates



Zoom Color Point



Distance (meter)

1

Distance (feet)

3.3

3

9.8

5

16.4

7

22.9

10

32.8

Lux*

25.3°

6205 lx

689 lx

248 lx

388 lx

248 lx

Beam center

Foot Candles*

576 fcd

64 fcd

23 fcd

12 fcd

6 fcd

*measured at
center of beam

Beam Width (meter)

0.4

Beam Width (feet)

1.5

1.3

4.4

2.2

7.4

3.1

10.3

4.5

14.7

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
25.3°	53.5°	78°	99.6%	96.7%

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	6205	1551	689	388	248	172	127	97	77	62	51	43	37	32	28	24	21	19	17	16
fcd	576.5	144.1	64.1	36	23.1	16	11.8	9	7.1	5.8	4.8	4	3.4	2.9	2.6	2.3	2	1.8	1.6	1.4

MOD HEX100



Light Efficiency:

22 Lumen/Watt

Dominant Wavelength:

462 nm

Output:

1887 lm

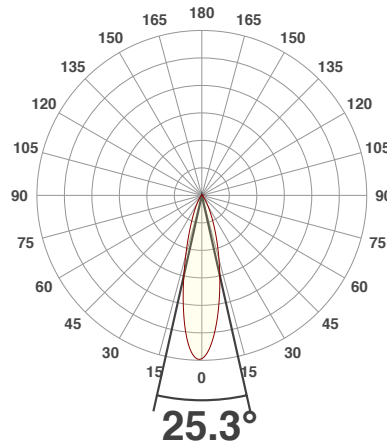
Power:

87.0 W

Peak:

6642 cd

Beam Angle



Test:

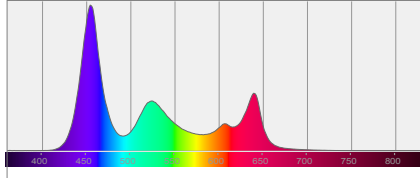
40Deg Full On No UV

Date:

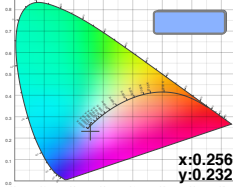
11/20/2018

Note:

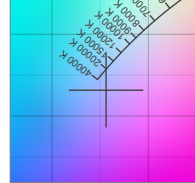
Spectral Distribution



Color Coordinates



Zoom Color Point



Distance (meter)

1

Distance (feet)

3.3

3

9.8

5

16.4

7

22.9

10

32.8

Lux*

25.3°

Foot Candles*

*measured at
center of beam

Beam Width (meter)

Beam Width (feet)

0.4

1.5

1.3

4.4

2.2

7.4

3.1

10.3

4.5

14.7

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
25.3°	53.5°	77.9°	99.6%	96.8%

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	6610	1652	734	413	264	184	135	103	82	66	55	46	39	34	29	26	23	20	18	17
fcd	614.1	153.5	68.2	38.4	24.6	17.1	12.5	9.6	7.6	6.1	5.1	4.3	3.6	3.1	2.7	2.4	2.1	1.9	1.7	1.5

MOD HEX100



Light Efficiency:

18 Lumen/Watt

Dominant Wavelength:

623 nm

Output:

327 lm

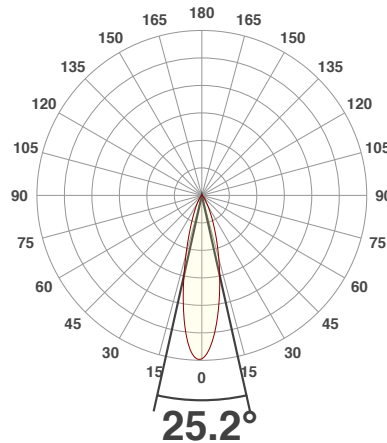
Power:

18.4 W

Peak:

1167 cd

Beam Angle



Test:

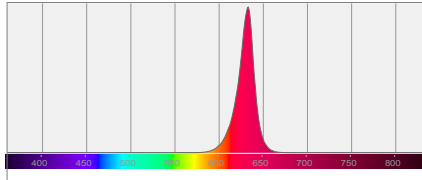
40Deg Red

Date:

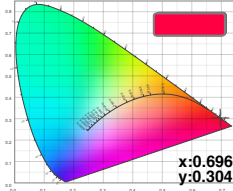
11/20/2018

Note:

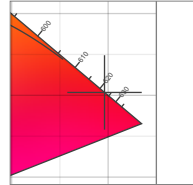
Spectral Distribution



Color Coordinates



Zoom Color Point



Distance (meter)

1

3

5

7

10

Distance (feet)

3.3

9.8

16.4

22.9

32.8

Lux*

25.2°

1162 lx

129 lx

46 lx

73 lx

46 lx

Foot Candles*

108 fcd

12 fcd

4 fcd

2 fcd

1 fcd

*measured at
center of beam

Beam Width (meter)

0.4

1.3

2.2

3.1

4.5

Beam Width (feet)

1.5

4.4

7.3

10.2

14.6

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
25.2°	52.6°	76.8°	99.2%	96.0%

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	1162	291	129	73	46	32	24	18	14	12	10	8	7	6	5	5	4	4	3	3
fcd	108	27	12	6.7	4.3	3	2.2	1.7	1.3	1.1	0.9	0.7	0.6	0.6	0.5	0.4	0.4	0.3	0.3	0.3

MOD HEX100



Light Efficiency:

38 Lumen/Watt

Dominant Wavelength:

527 nm

Output:

857 lm

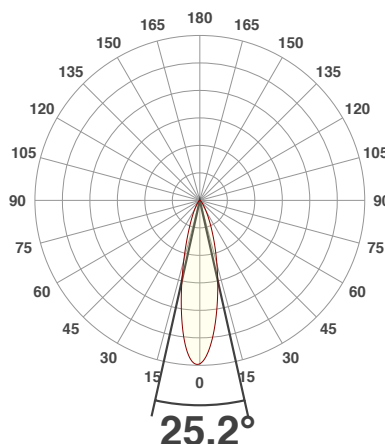
Power:

22.4 W

Peak:

2942 cd

Beam Angle



Test:

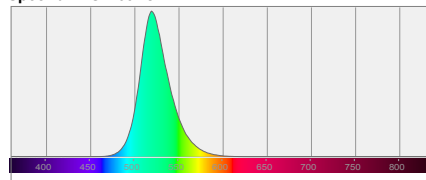
40Deg Green

Date:

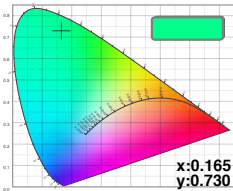
11/20/2018

Note:

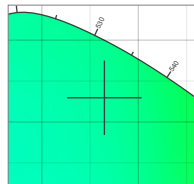
Spectral Distribution



Color Coordinates



Zoom Color Point



Distance (meter)

Distance (feet)

1

3.3

3

9.8

5

16.4

7

22.9

10

32.8

Lux*

25.2°

Foot Candles*

*measured at
center of beam

Beam Width (meter)

Beam Width (feet)

0.4

1.5

1.3

4.4

2.2

7.3

3.1

10.2

4.5

14.7

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
25.2°	53.6°	79.6°	98.9%	94.9%

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	2930	732	326	183	117	81	60	46	36	29	24	20	17	15	13	11	10	9	8	7
fcd	272.2	68	30.2	17	10.9	7.6	5.6	4.3	3.4	2.7	2.2	1.9	1.6	1.4	1.2	1.1	0.9	0.8	0.8	0.7

MOD HEX100



Light Efficiency:

5 Lumen/Watt

Dominant Wavelength:

456 nm

Output:

121 lm

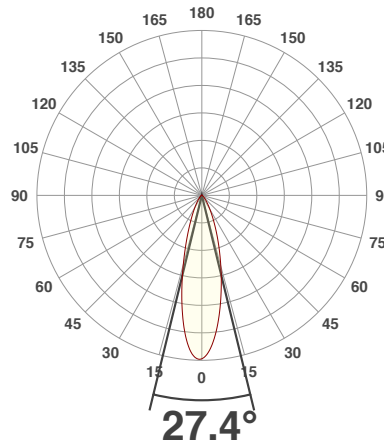
Power:

22.6 W

Peak:

356 cd

Beam Angle



Test:

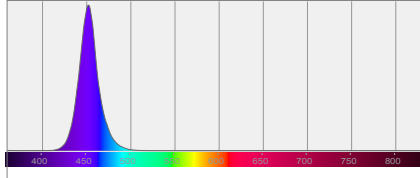
40Deg Blue

Date:

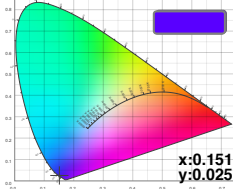
11/21/2018

Note:

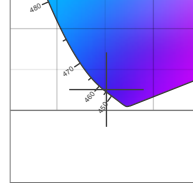
Spectral Distribution



Color Coordinates



Zoom Color Point



Distance (meter)

1

3

5

7

10

Distance (feet)

3.3

9.8

16.4

22.9

32.8

Lux*

355 lx

39 lx

14 lx

22 lx

14 lx

27.4°

Foot Candles*

33 fcd

4 fcd

1 fcd

1 fcd

0 fcd

*measured at
center of beam

Beam Width (meter)

0.5

1.5

2.4

3.4

4.9

Beam Width (feet)

1.6

4.8

8

11.1

16

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
27.4°	58.3°	86.7°	98.7%	94.0%

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	355	89	39	22	14	10	7	6	4	4	3	2	2	2	2	1	1	1	1	1
fcd	33	8.2	3.7	2.1	1.3	0.9	0.7	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1

MOD HEX100



Light Efficiency:

12 Lumen/Watt

Light Quality:

CRI: -19.5

Color Temperature:

1396 K

Output: 211 lm

Peak: 691 cd

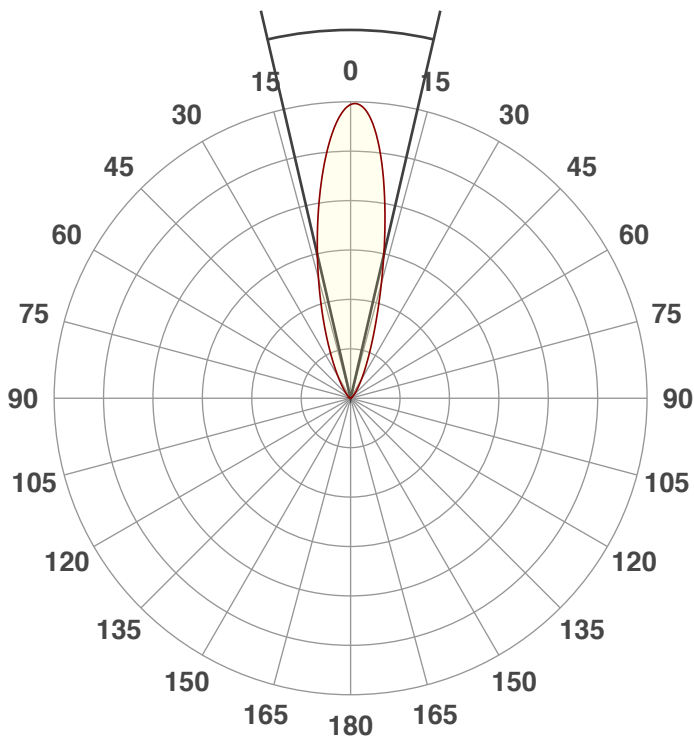
Power: 17.4 W

PF: 0.5



Beam Angle

26.1°



Test:

40Deg Amber

Date:

11/21/2018

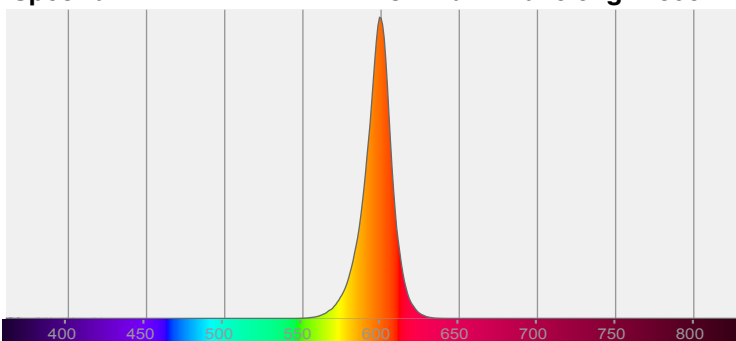
Note:



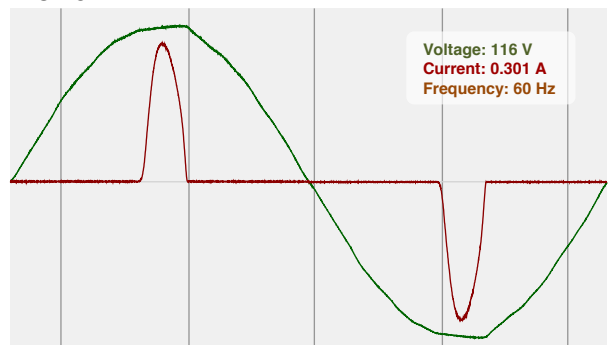
CIE 1931
x: 0.607
y: 0.393

Spectra

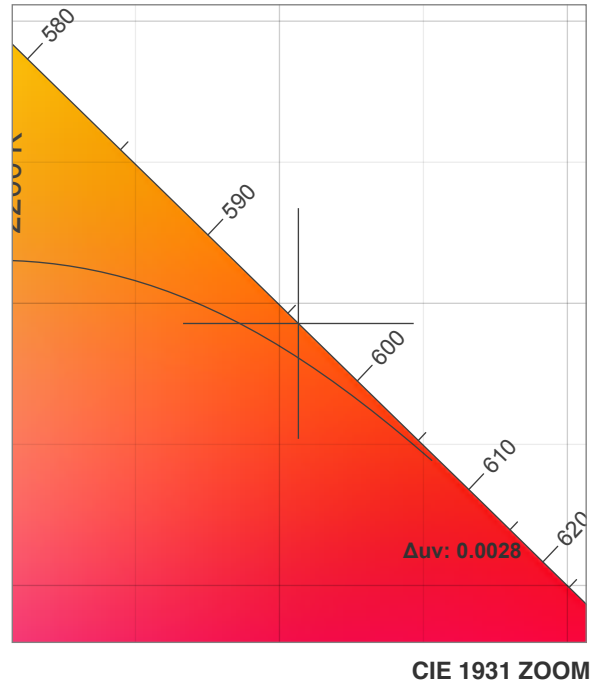
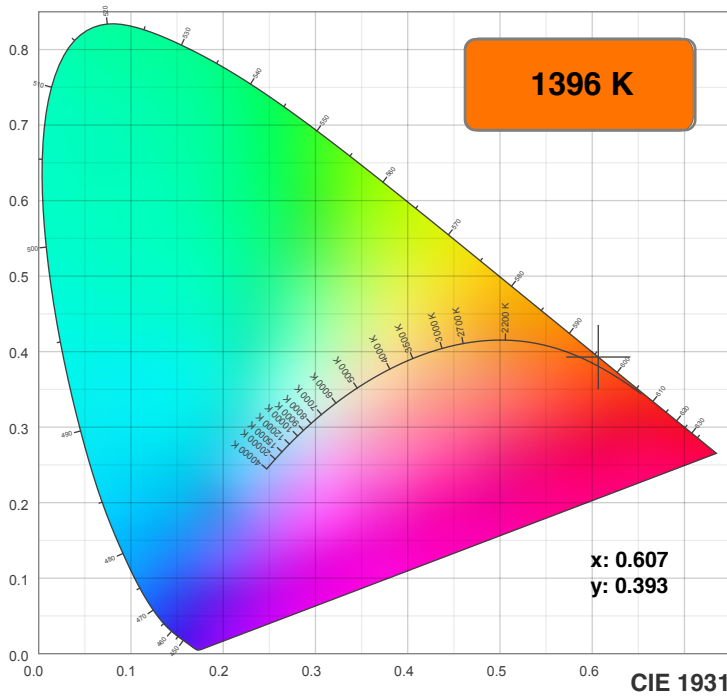
Dominant Wavelength: 596nm



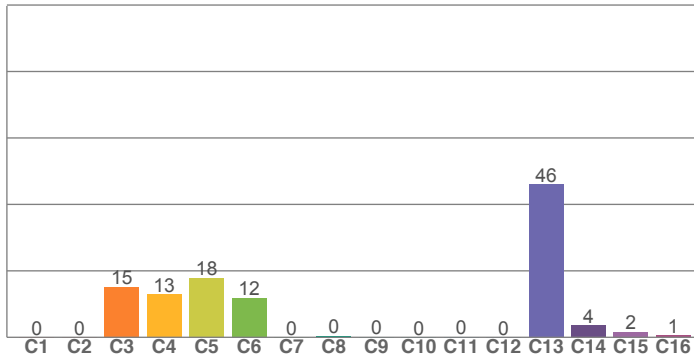
Power



Color Details



TM30: 0.4



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
-29.6	57.1	12.4	-66.8	-39.0	52.8	-10.2	-132.7	-367.4	39.1	-88.9	9.9	-9.3	44.0	-64.5

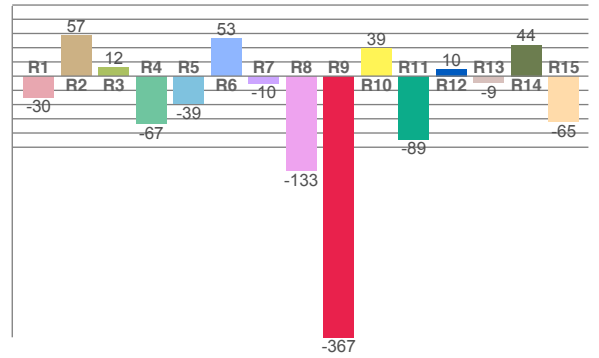
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0.0	0.0	15.2	12.9	17.9	11.9	0.0	0.4	0.1	0.0	0.1	0.0	46.0	3.5	1.6	0.5

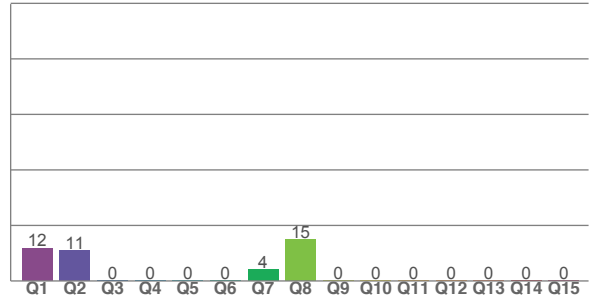
CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
11.8	11.0	0.0	0.0	0.0	0.2	4.1	14.8	0.1	0.0	0.0	0.0	0.0	0.0	0.1

CRI: -19.5 (R1-R8)



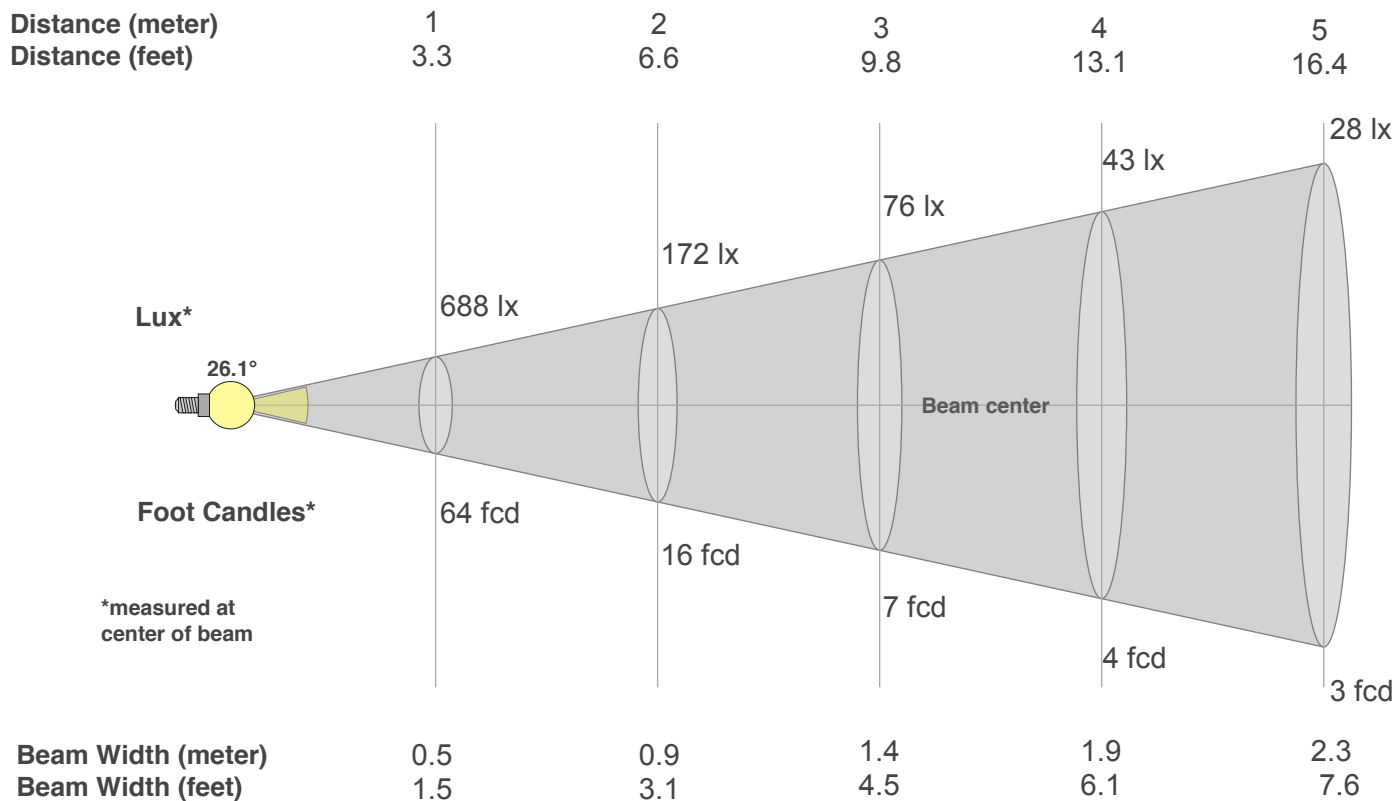
CQS: 0.0



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	Δuv
1396 K	-19.5	-367.4	0.4	0.4	0.0	0.607	0.393	0.373	0.363	0.0028

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	688	172	76	43	28	19	14	11	8	7	6	5	4	4	3	3	2	2	2	2
fcd	63.9	16	7.1	4	2.6	1.8	1.3	1	0.8	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2

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°
688	665	621	565	502	438	376	318	265	219	178	144	116	93	74	59	47	38	31	25
100%	97%	90%	82%	73%	64%	55%	46%	39%	32%	26%	21%	17%	13%	11%	9%	7%	6%	4%	4%

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°
688	665	621	565	502	438	376	318	265	219	178	144	116	93	74	59	47	38	31	25
100%	97%	90%	82%	73%	64%	55%	46%	39%	32%	26%	21%	17%	13%	11%	9%	7%	6%	4%	4%

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°
688	686	659	608	540	462	384	311	249	197	156	123	98	78	63	50	41	33	27	22
100%	100%	96%	88%	78%	67%	56%	45%	36%	29%	23%	18%	14%	11%	9%	7%	6%	5%	4%	3%

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°
688	686	659	608	540	462	384	311	249	197	156	123	98	78	63	50	41	33	27	22
100%	100%	96%	88%	78%	67%	56%	45%	36%	29%	23%	18%	14%	11%	9%	7%	6%	5%	4%	3%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
26.1°	55.7°	81.7°	99.5%	96.0%

MOD HEX100



Light Efficiency:

40 Lumen/Watt

Light Quality:

CRI: 76.4

Color Temperature:

7640 K

Output: 891 lm

Peak: 2965 cd

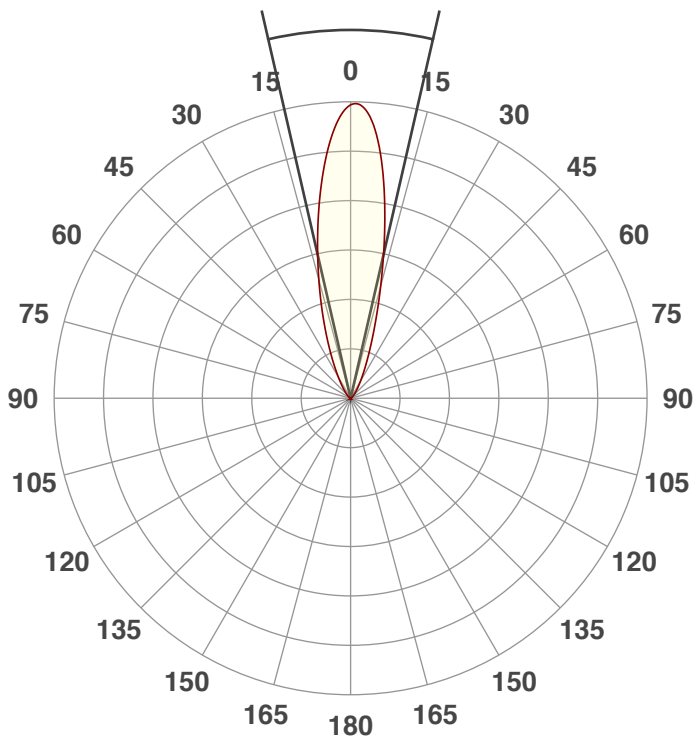
Power: 22.3 W

PF: 0.53



Beam Angle

25.8°



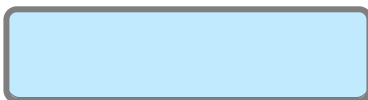
Test:

40Deg White

Date:

11/21/2018

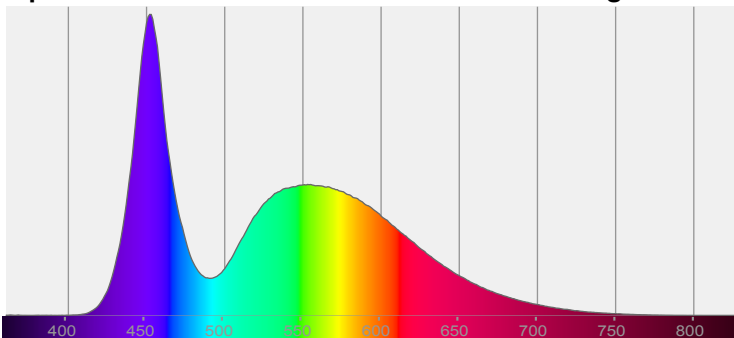
Note:



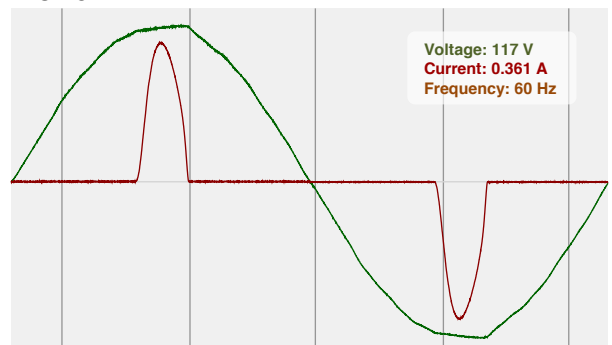
CIE 1931
x: 0.300
y: 0.306

Spectra

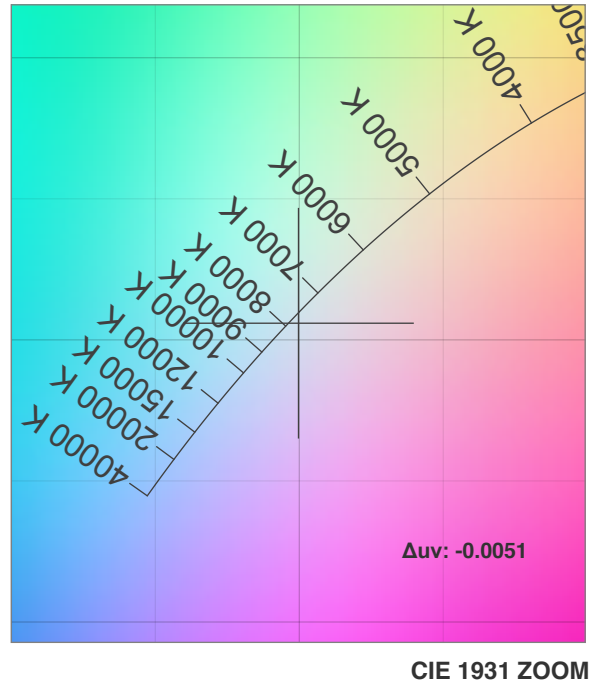
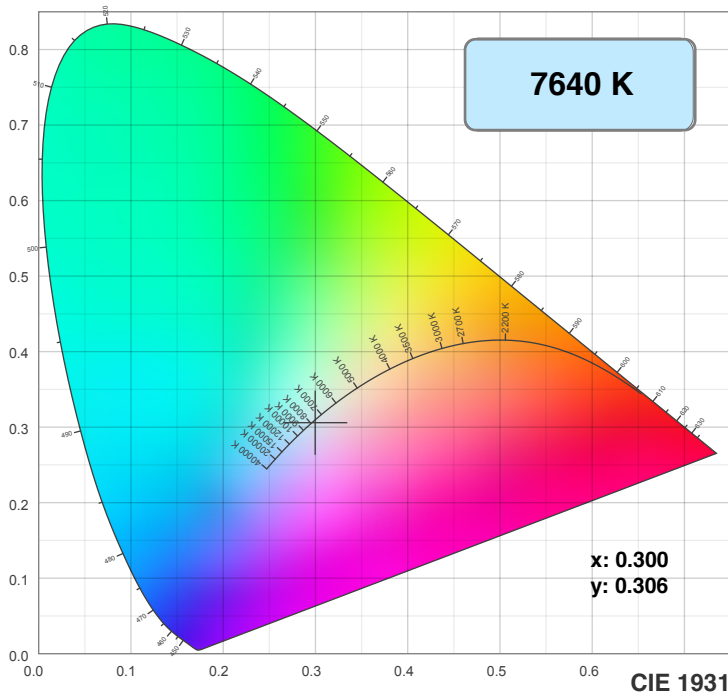
Dominant Wavelength: 460nm



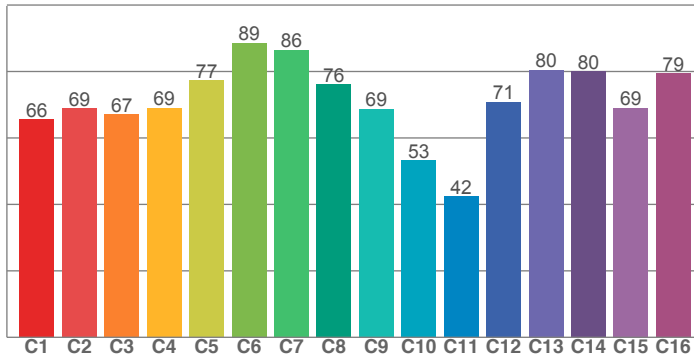
Power



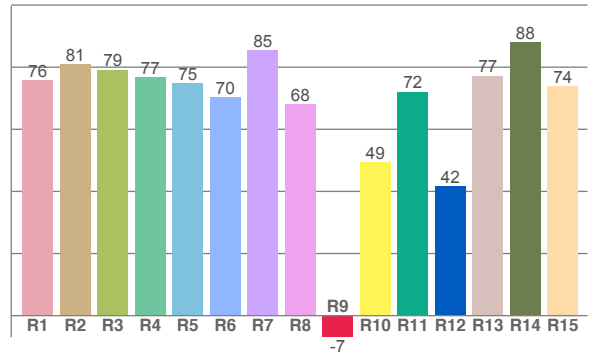
Color Details



TM30: 71.1



CRI: 76.4 (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
75.7	80.9	79.2	76.7	74.9	70.4	85.4	68.0	-7.0	49.5	72.1	41.8	77.2	88.1	73.7

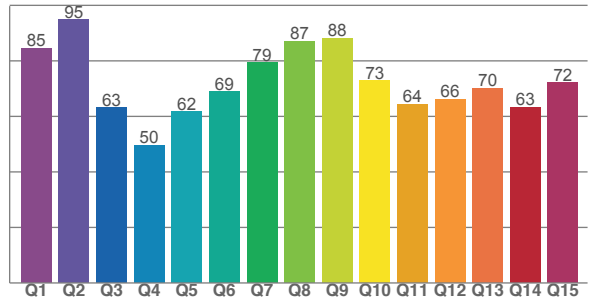
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
65.6	68.9	67.1	69.0	77.3	88.6	86.4	76.2	68.7	53.2	42.3	70.9	80.5	80.1	69.1	79.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
84.6	94.9	63.1	49.6	61.6	68.9	79.3	87.2	88.1	72.8	64.4	66.2	70.2	63.3	72.1

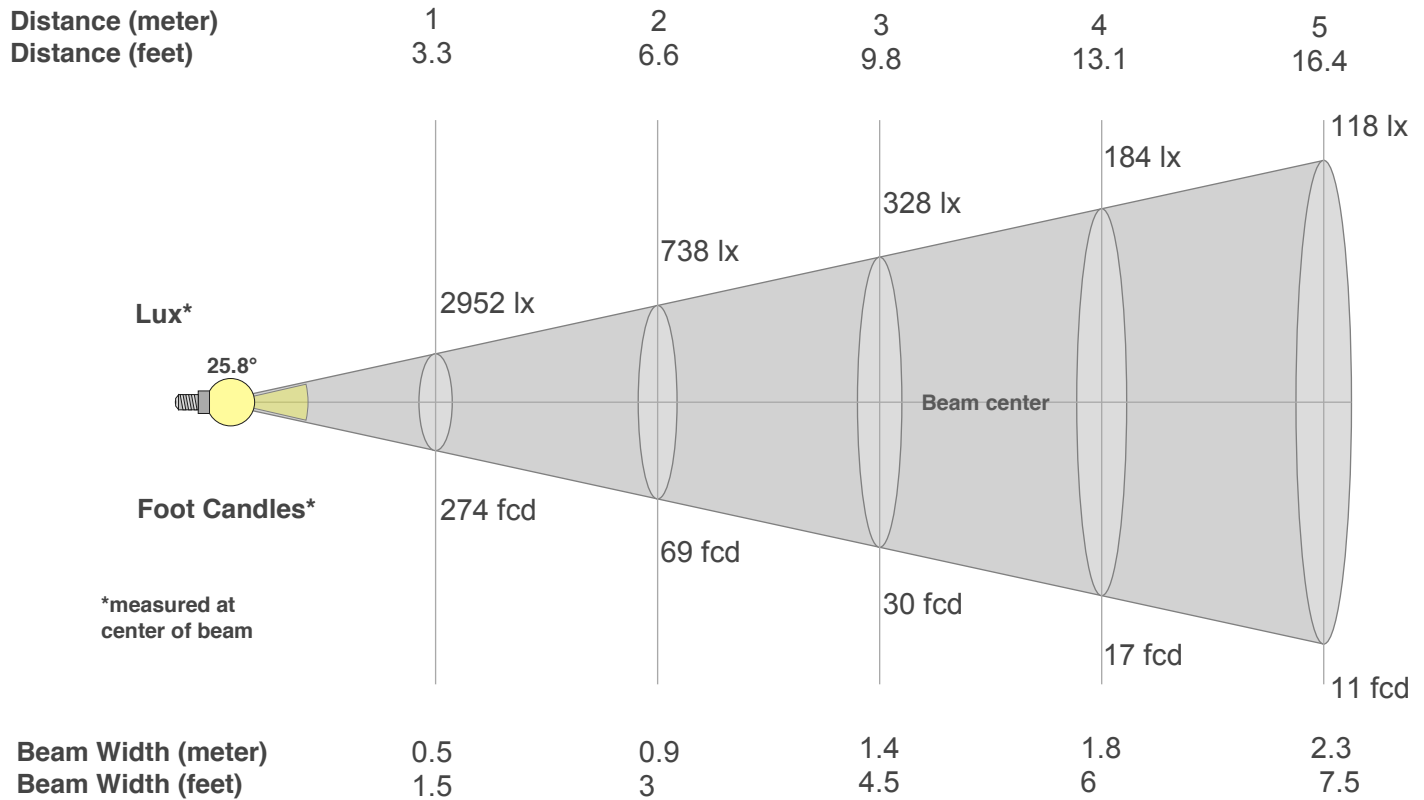
CQS: 70.0



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	Δuv
7640 K	76.4	-7.0	71.1	92.9	70.0	0.300	0.306	0.197	0.302	-0.0051

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	2952	738	328	184	118	82	60	46	36	30	24	20	17	15	13	12	10	9	8	7
fcd	274.2	68.6	30.5	17.1	11	7.6	5.6	4.3	3.4	2.7	2.3	1.9	1.6	1.4	1.2	1.1	0.9	0.8	0.8	0.7

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°
2952	2846	2657	2415	2143	1867	1600	1352	1126	927	754	609	488	390	311	249	199	160	130	105
100%	96%	90%	82%	73%	63%	54%	46%	38%	31%	26%	21%	17%	13%	11%	8%	7%	5%	4%	4%

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°
2952	2846	2657	2415	2143	1867	1600	1352	1126	927	754	609	488	390	311	249	199	160	130	105
100%	96%	90%	82%	73%	63%	54%	46%	38%	31%	26%	21%	17%	13%	11%	8%	7%	5%	4%	4%

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°
2952	2948	2832	2613	2316	1977	1634	1315	1040	814	636	499	393	312	249	200	161	131	107	87
100%	100%	96%	89%	78%	67%	55%	45%	35%	28%	22%	17%	13%	11%	8%	7%	5%	4%	4%	3%

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°
2952	2948	2832	2613	2316	1977	1634	1315	1040	814	636	499	393	312	249	200	161	131	107	87
100%	100%	96%	89%	78%	67%	55%	45%	35%	28%	22%	17%	13%	11%	8%	7%	5%	4%	4%	3%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
25.8°	54.9°	81.1°	99.6%	95.9%

0 Lumen/Watt

420 nm

9.78 lm

21.5 W

28.5 cd



Note:

1

3.3

3

9.8

5

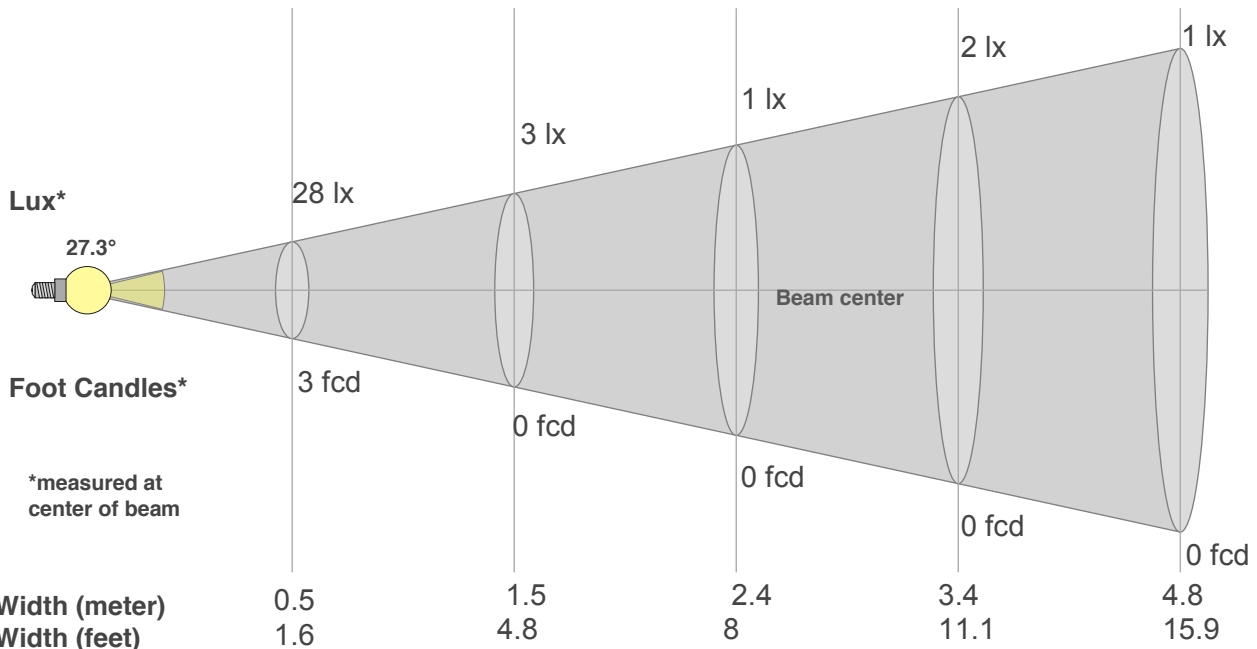
16.4

7

22.9

10

32.8

[illegible]