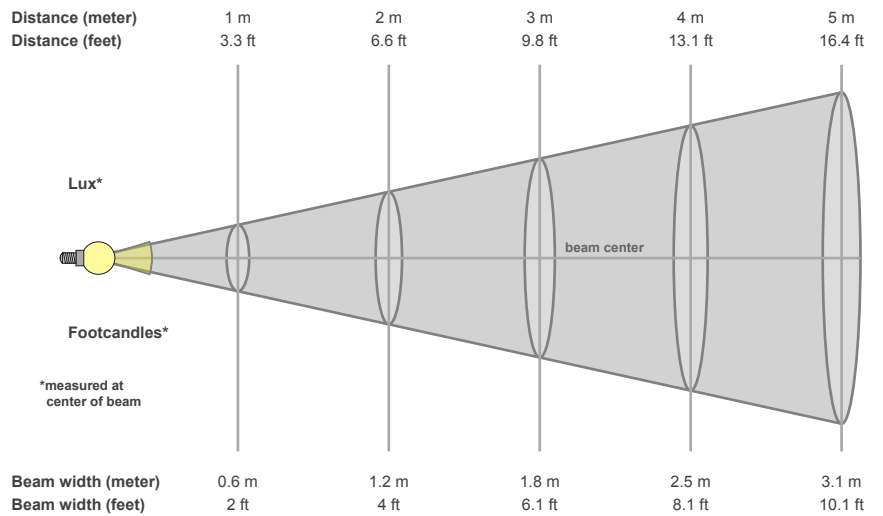
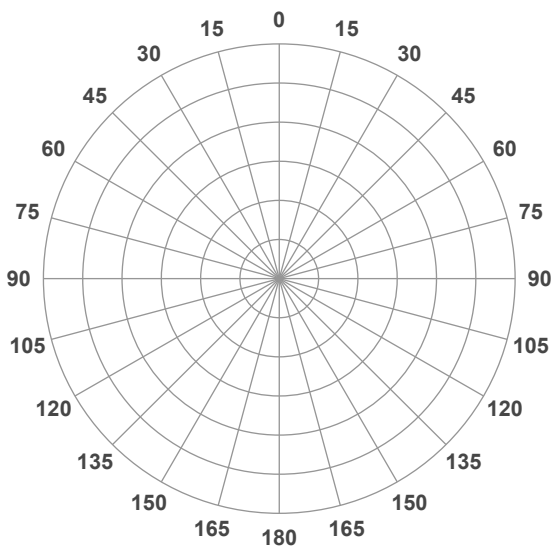
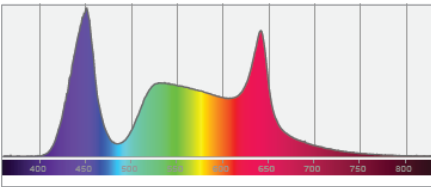
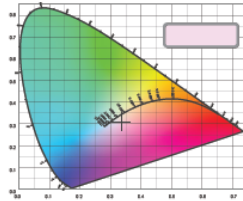




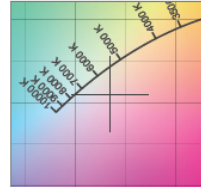
Spectral distribution



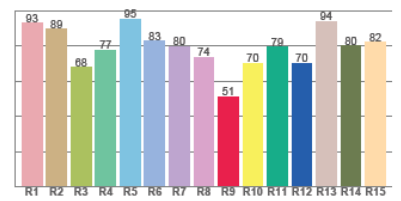
Color coordinates



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 QA60



Light Efficiency:

11 Lumen/Watt

Dominant Wavelength:

429 nm

Output:

703 lm

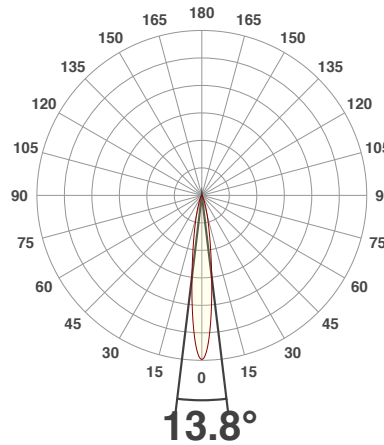
Power:

66.5 W

Peak:

6490 cd

Beam Angle



Test:

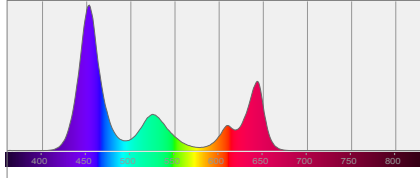
20Deg Full On

Date:

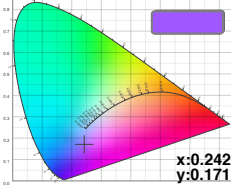
11/27/2018

Note:

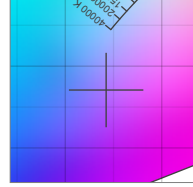
Spectral Distribution



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*

13.8°

Foot Candles*

*measured at
center of beam

Beam Width (meter)

Beam Width (feet)

0.2

0.8

0.7

2.4

1.2

4

1.7

5.5

2.4

7.9

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
13.8°	33.2°	51.7°	99.8%	99.1%

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	6489	1622	721	406	260	180	132	101	80	65	54	45	38	33	29	25	22	20	18	16
fcd	602.9	150.7	67	37.7	24.1	16.7	12.3	9.4	7.4	6	5	4.2	3.6	3.1	2.7	2.4	2.1	1.9	1.7	1.5

MOD QA60



Light Efficiency:

13 Lumen/Watt

Dominant Wavelength:

625 nm

Output:

231 lm

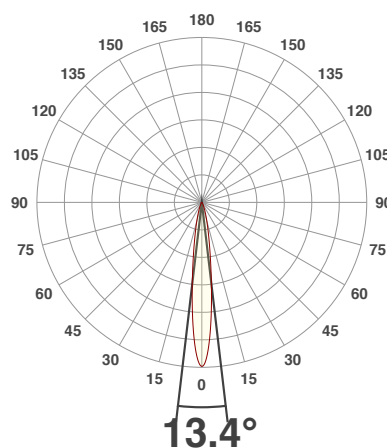
Power:

17.7 W

Peak:

2202 cd

Beam Angle



Test:

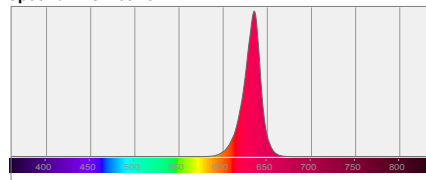
20Deg Red

Date:

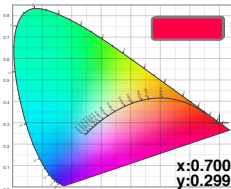
11/27/2018

Note:

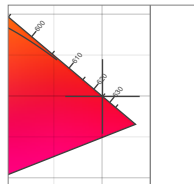
Spectral Distribution



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*

13.4°

Foot Candles*

*measured at
center of beam

Beam Width (meter)

Beam Width (feet)

0.2

0.8

0.7

2.3

1.2

3.9

1.6

5.4

2.3

7.7

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
13.4°	32°	51.1°	99.9%	98.4%

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	2201	550	245	138	88	61	45	34	27	22	18	15	13	11	10	9	8	7	6	6
fcd	204.5	51.1	22.7	12.8	8.2	5.7	4.2	3.2	2.5	2	1.7	1.4	1.2	1	0.9	0.8	0.7	0.6	0.6	0.5

MOD QA60



Light Efficiency:

25 Lumen/Watt

Dominant Wavelength:

530 nm

Output:

508 lm

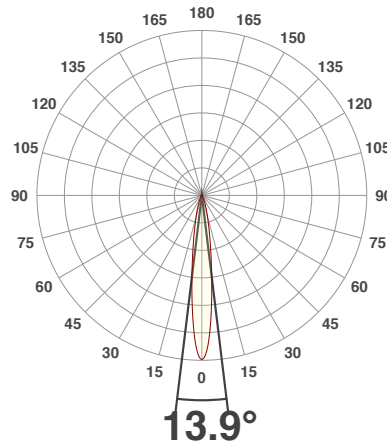
Power:

20.2 W

Peak:

4240 cd

Beam Angle



Test:

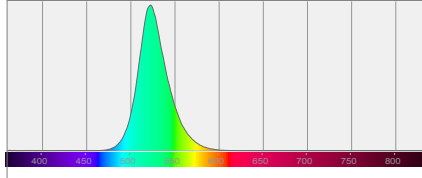
20Deg Green

Date:

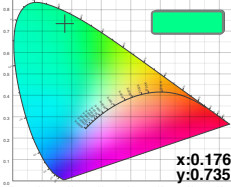
11/27/2018

Note:

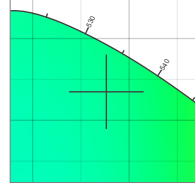
Spectral Distribution



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*

13.9°

Foot Candles*

*measured at
center of beam

Beam Width (meter)

Beam Width (feet)

0.2

0.8

0.7

2.4

1.2

4

1.7

5.6

2.4

8

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
13.9°	33.8°	55.1°	99.5%	96.6%

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	4239	1060	471	265	170	118	87	66	52	42	35	29	25	22	19	17	15	13	12	11
fcd	393.8	98.5	43.8	24.6	15.8	10.9	8	6.2	4.9	3.9	3.3	2.7	2.3	2	1.8	1.5	1.4	1.2	1.1	1

MOD QA60



Light Efficiency:

5 Lumen/Watt

Dominant Wavelength:

455 nm

Output:

104 lm

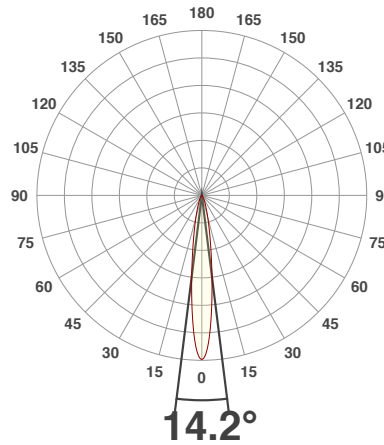
Power:

21.2 W

Peak:

811 cd

Beam Angle



Test:

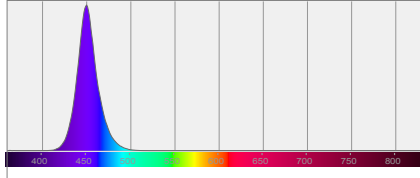
20Deg Blue

Date:

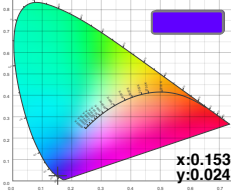
11/27/2018

Note:

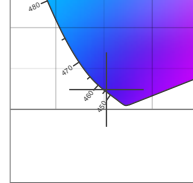
Spectral Distribution



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*

14.2°

Foot Candles*

*measured at
center of beam

Beam Width (meter)

Beam Width (feet)

0.2

0.8

0.7

2.4

1.2

4.1

1.7

5.7

2.5

8.2

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
14.2°	34.5°	56.9°	98.5%	94.6%

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	810	203	90	51	32	23	17	13	10	8	7	6	5	4	4	3	3	3	2	2
fcd	75.3	18.8	8.4	4.7	3	2.1	1.5	1.2	0.9	0.8	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2

MOD QA60



Light Efficiency:

12 Lumen/Watt

Light Quality:

CRI: -16.6

Color Temperature:

1339 K

Output: 227 lm

Peak: 1988 cd

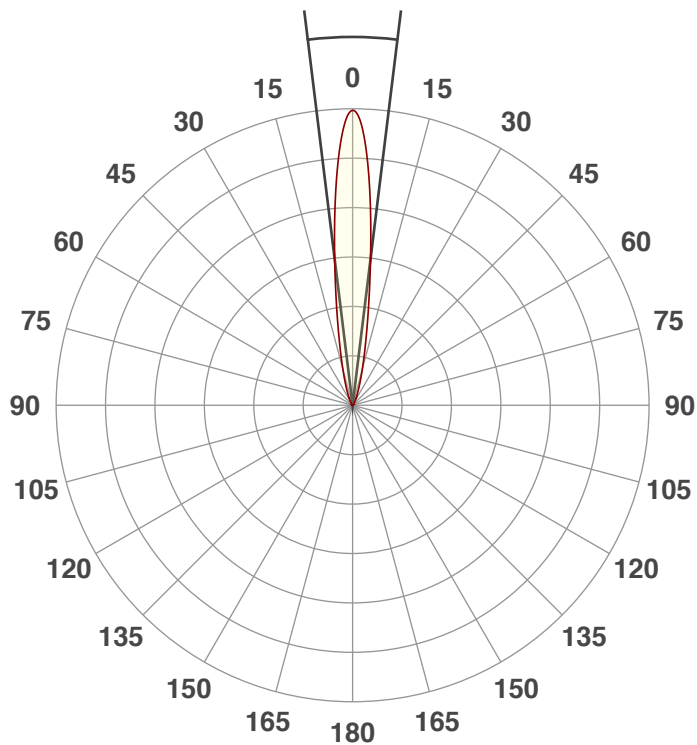
Power: 18.9 W

PF: 0.53



Beam Angle

14°



Test:

20Deg Amber

Date:

11/27/2018

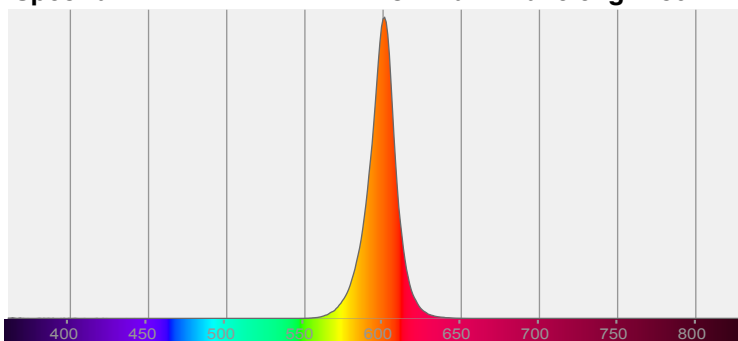
Note:



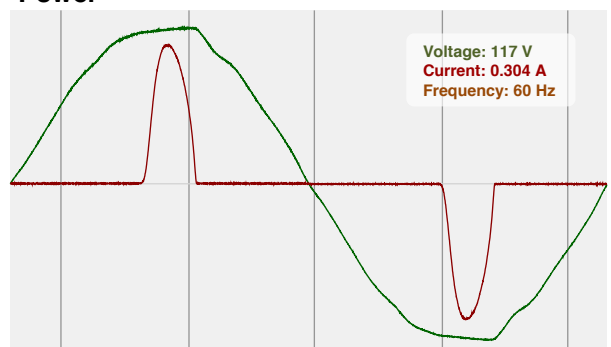
CIE 1931
x: 0.613
y: 0.387

Spectra

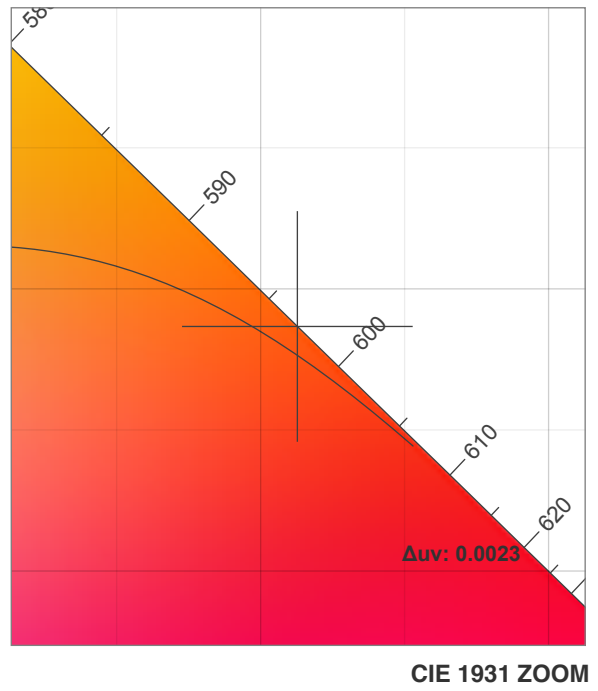
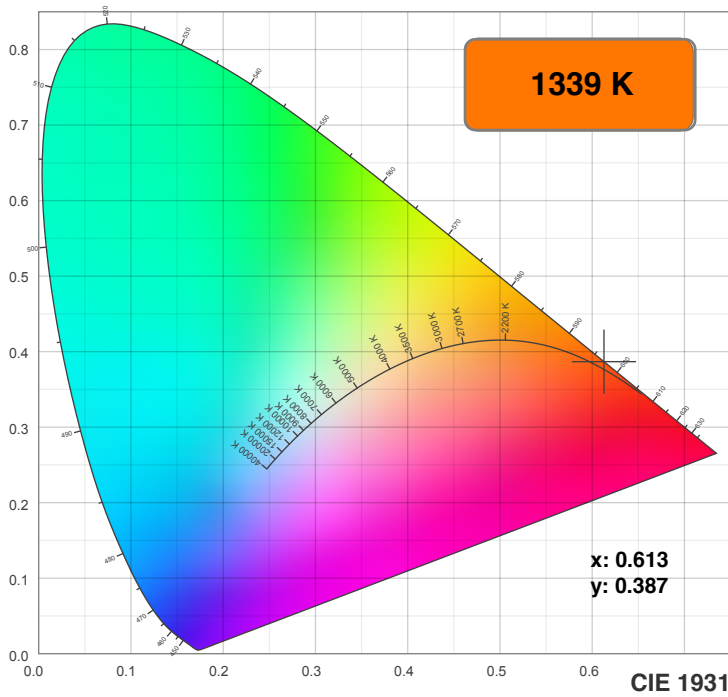
Dominant Wavelength: 597nm



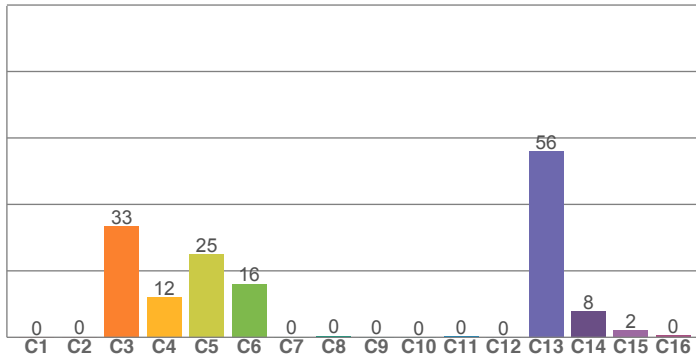
Power



Color Details



TM30: 0.6



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
-25.7	59.7	12.1	-63.7	-35.6	58.2	-9.7	-128.4	-351.5	43.6	-82.9	19.9	-5.2	44.4	-61.3

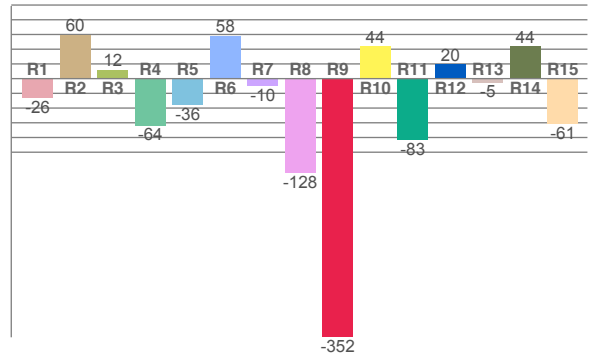
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0.0	0.1	33.4	12.0	25.0	16.1	0.1	0.4	0.1	0.0	0.2	0.0	56.0	7.8	2.0	0.5

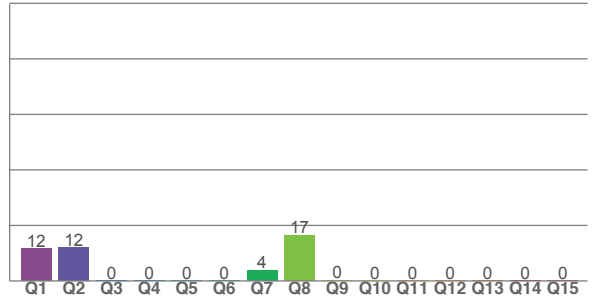
CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
11.6	12.0	0.0	0.0	0.0	0.2	3.8	16.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0

CRI: -16.6 (R1-R8)



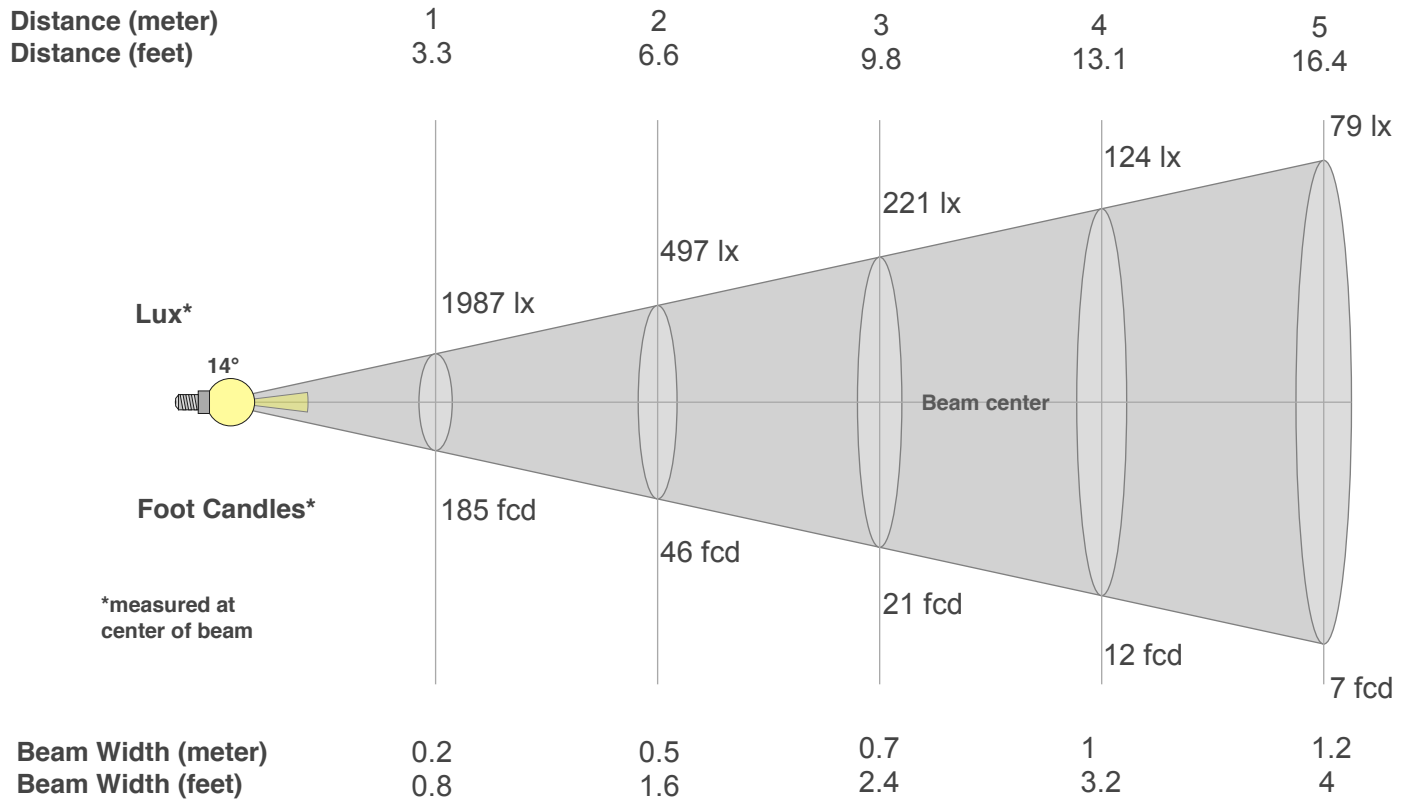
CQS: 0.0



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
1339 K	-16.6	-351.5	0.6	0.7	0.0	0.613	0.387	0.382	0.362	0.0023

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	1987	497	221	124	79	55	41	31	25	20	16	14	12	10	9	8	7	6	6	5
fcd	184.6	46.2	20.5	11.5	7.4	5.1	3.8	2.9	2.3	1.8	1.5	1.3	1.1	0.9	0.8	0.7	0.6	0.6	0.5	0.5

Intensities in 0° C-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
1987	1952	1855	1713	1542	1355	1167	992	836	701	588	494	417	354	300	256	219	188	162	139
100%	98%	93%	86%	78%	68%	59%	50%	42%	35%	30%	25%	21%	18%	15%	13%	11%	9%	8%	7%

Intensities in 90° C-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
1987	1952	1855	1713	1542	1355	1167	992	836	701	588	494	417	354	300	256	219	188	162	139
100%	98%	93%	86%	78%	68%	59%	50%	42%	35%	30%	25%	21%	18%	15%	13%	11%	9%	8%	7%

Intensities in 180° C-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
1987	1959	1870	1731	1559	1369	1175	992	833	697	584	491	414	352	299	255	218	187	161	138
100%	99%	94%	87%	78%	69%	59%	50%	42%	35%	29%	25%	21%	18%	15%	13%	11%	9%	8%	7%

Intensities in 270° C-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
1987	1959	1870	1731	1559	1369	1175	992	833	697	584	491	414	352	299	255	218	187	161	138
100%	99%	94%	87%	78%	69%	59%	50%	42%	35%	29%	25%	21%	18%	15%	13%	11%	9%	8%	7%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
14°	33.3°	53.2°	99.8%	97.8%