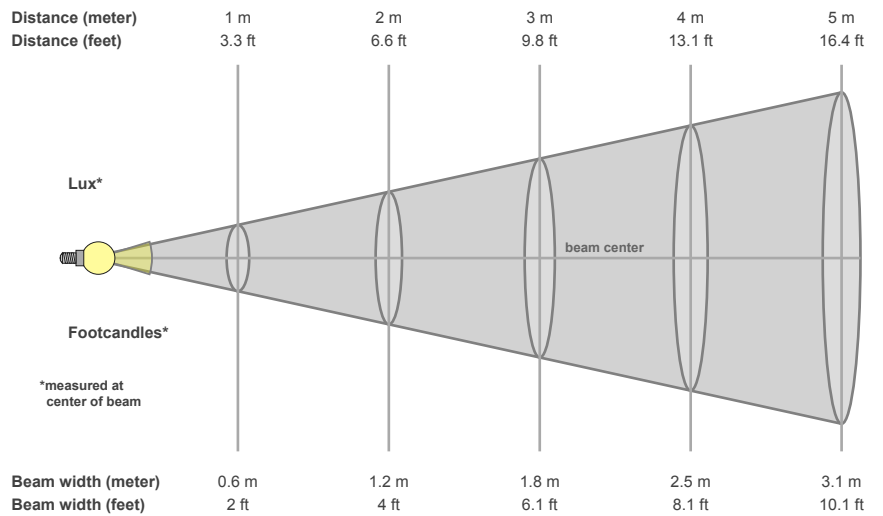
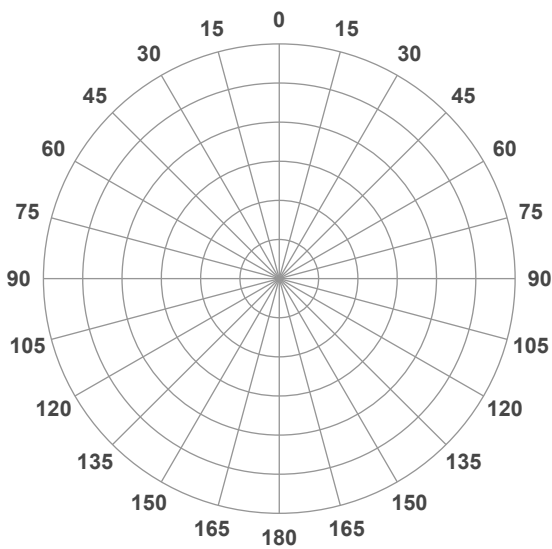
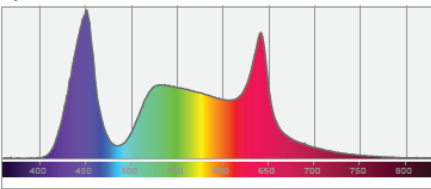
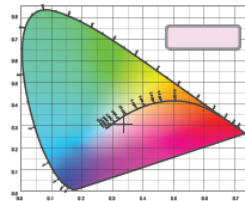




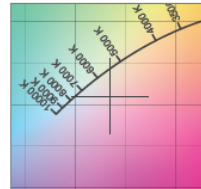
Spectral distribution



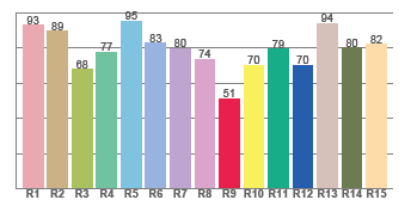
Color coordinates



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:

13 Lumen/Watt

Dominant Wavelength:

430 nm

Output:

833 lm

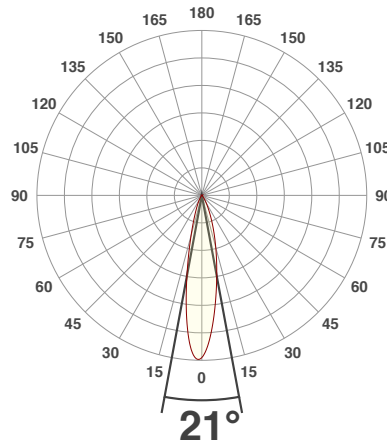
Power:

66.5 W

Peak:

3971 cd

Beam Angle



Test:

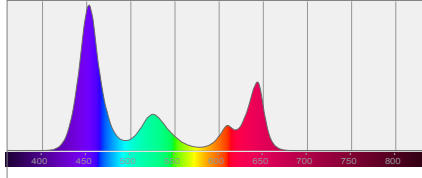
40Deg Full On

Date:

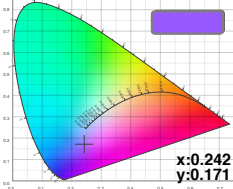
11/27/2018

Note:

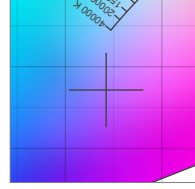
Spectral Distribution



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*

21°

Foot Candles*

*measured at
center of beam

Beam Width (meter)

Beam Width (feet)

0.4

1.2

1.1

3.6

1.8

6.1

2.6

8.5

3.7

12.1

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
21°	46.5°	67°	99.8%	98.6%

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	3929	982	437	246	157	109	80	61	49	39	32	27	23	20	17	15	14	12	11	10
fcd	365	91.3	40.6	22.8	14.6	10.1	7.4	5.7	4.5	3.7	3	2.5	2.2	1.9	1.6	1.4	1.3	1.1	1	0.9

MOD QA60



Light Efficiency:

15 Lumen/Watt

Dominant Wavelength:

625 nm

Output:

266 lm

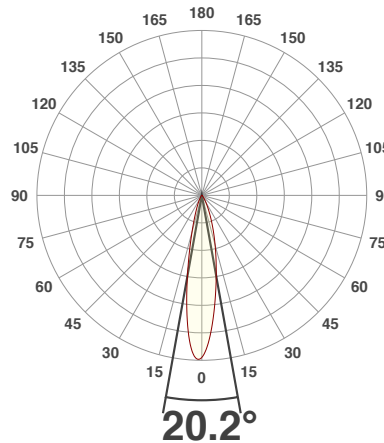
Power:

17.7 W

Peak:

1327 cd

Beam Angle



Test:

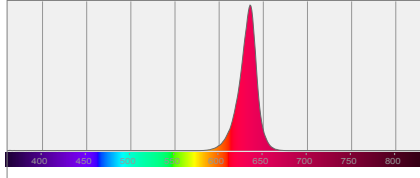
40Deg Red

Date:

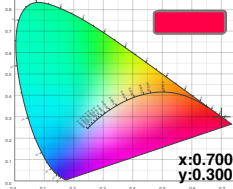
11/27/2018

Note:

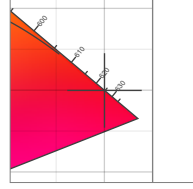
Spectral Distribution



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*

20.2°

Foot Candles*

*measured at
center of beam

Beam Width (meter)

Beam Width (feet)

0.4

1.2

1.1

3.5

1.8

5.9

2.5

8.2

3.6

11.7

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
20.2°	45.1°	66°	99.8%	98.0%

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	1310	327	146	82	52	36	27	20	16	13	11	9	8	7	6	5	5	4	4	3
fcd	121.7	30.4	13.5	7.6	4.9	3.4	2.5	1.9	1.5	1.2	1	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3	0.3

MOD QA60



Light Efficiency:

28 Lumen/Watt

Dominant Wavelength:

530 nm

Output:

570 lm

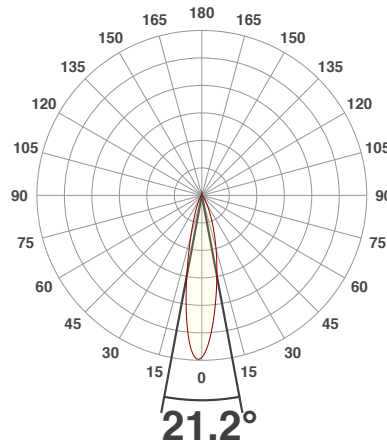
Power:

20.3 W

Peak:

2543 cd

Beam Angle



Test:

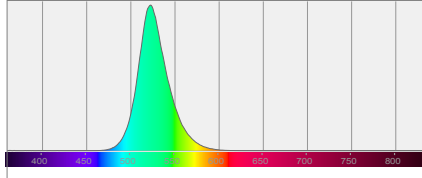
40Deg Green

Date:

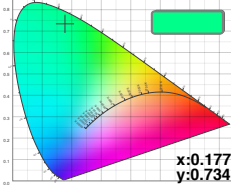
11/27/2018

Note:

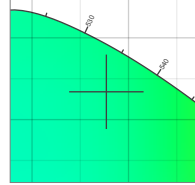
Spectral Distribution



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*

21.2°

2513 lx

279 lx

101 lx

157 lx

101 lx

Foot Candles*

234 fcd

26 fcd

9 fcd

5 fcd

2 fcd

*measured at
center of beam

Beam Width (meter)

0.4

1.1

1.9

2.6

3.7

Beam Width (feet)

1.2

3.7

6.1

8.6

12.2

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
21.2°	47.4°	70.7°	99.5%	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	2513	628	279	157	101	70	51	39	31	25	21	17	15	13	11	10	9	8	7	6
fcd	233.5	58.4	25.9	14.6	9.3	6.5	4.8	3.6	2.9	2.3	1.9	1.6	1.4	1.2	1	0.9	0.8	0.7	0.6	0.6

MOD QA60



Light Efficiency:

5 Lumen/Watt

Dominant Wavelength:

455 nm

Output:

116 lm

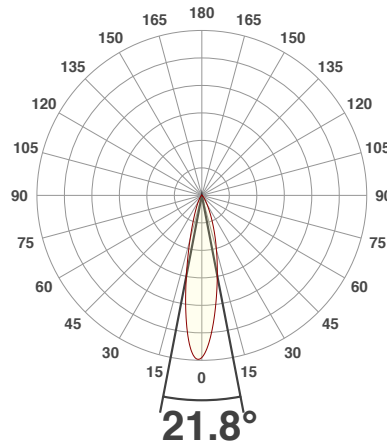
Power:

21.2 W

Peak:

485 cd

Beam Angle



Test:

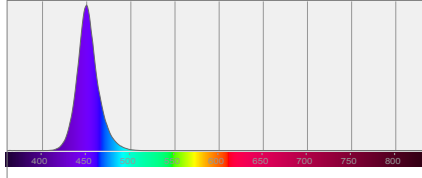
40Deg Blue

Date:

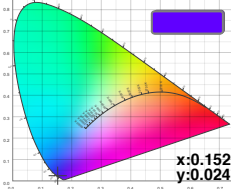
11/27/2018

Note:

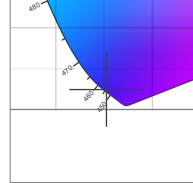
Spectral Distribution



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*

21.8°

Foot Candles*

*measured at
center of beam

Beam Width (meter)

Beam Width (feet)

0.4

1.3

1.2

3.8

1.9

6.3

2.7

8.8

3.8

12.6

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
21.8°	48.7°	73.2°	98.9%	95.3%

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	480	120	53	30	19	13	10	7	6	5	4	3	3	2	2	2	2	1	1	1
fcd	44.6	11.1	5	2.8	1.8	1.2	0.9	0.7	0.6	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1

MOD QA60



Light Efficiency:

14 Lumen/Watt

Light Quality:

CRI: -16.3

Color Temperature:

1338 K

Output: 256 lm

Peak: 1205 cd

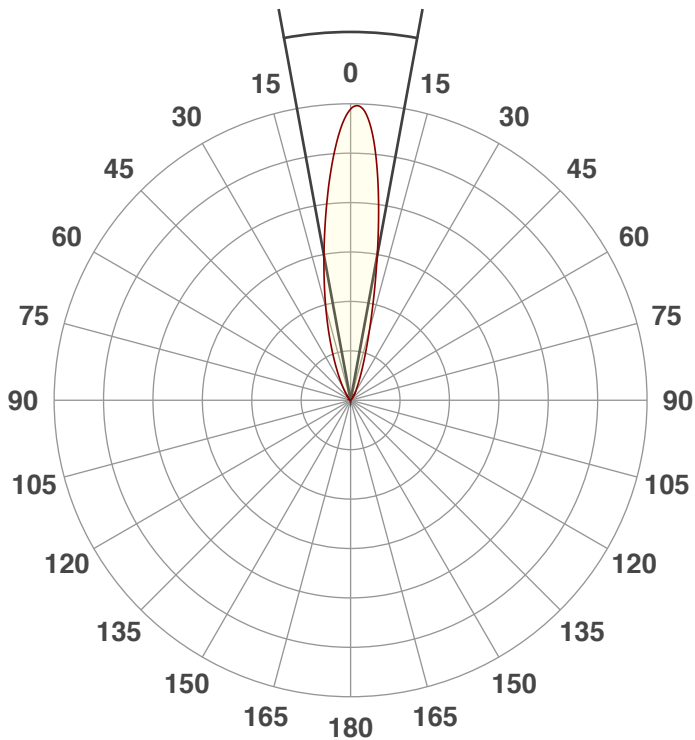
Power: 18.8 W

PF: 0.53



Beam Angle

20.8°



Test:

40Deg Amber

Date:

11/27/2018

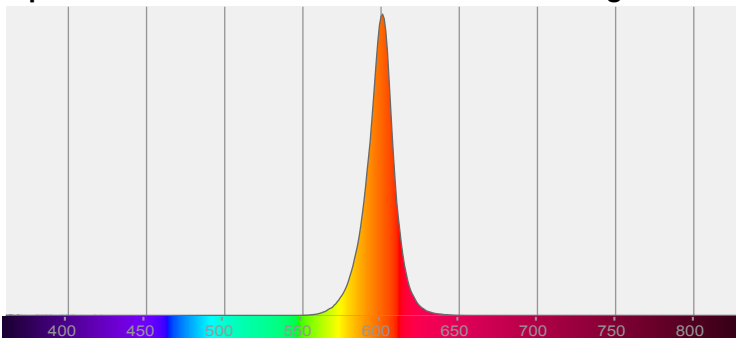
Note:



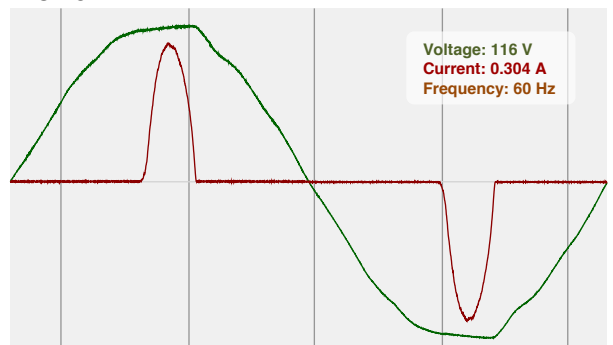
CIE 1931
x: 0.613
y: 0.387

Spectra

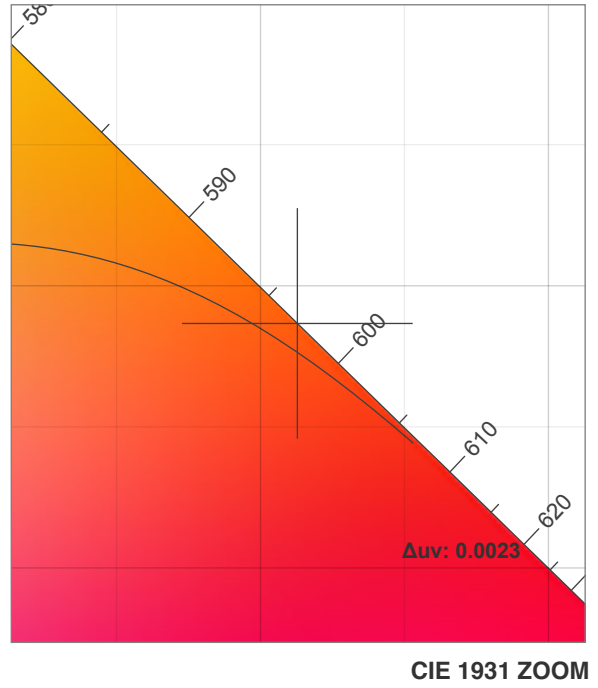
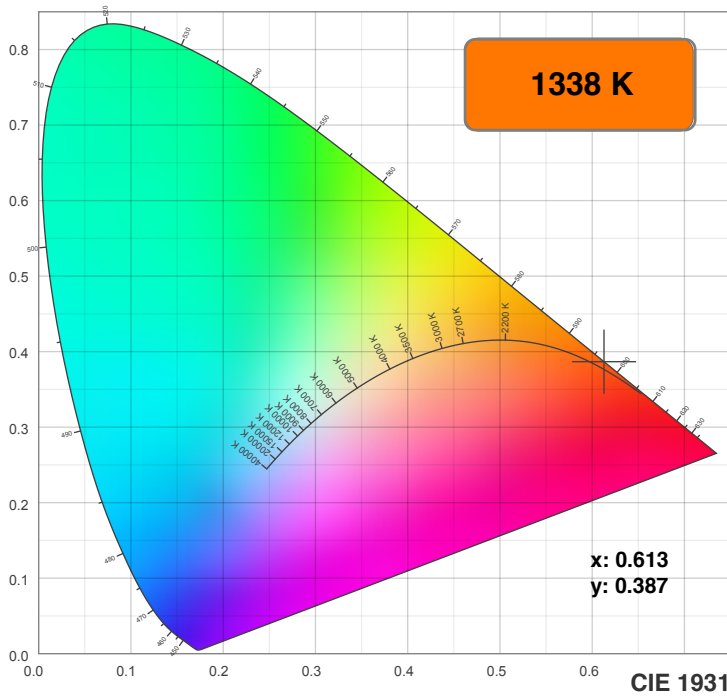
Dominant Wavelength: 597nm



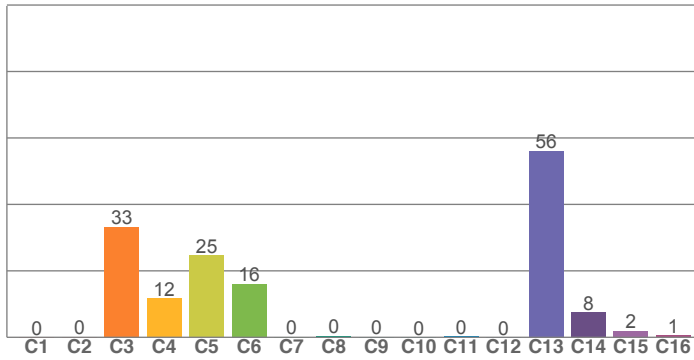
Power



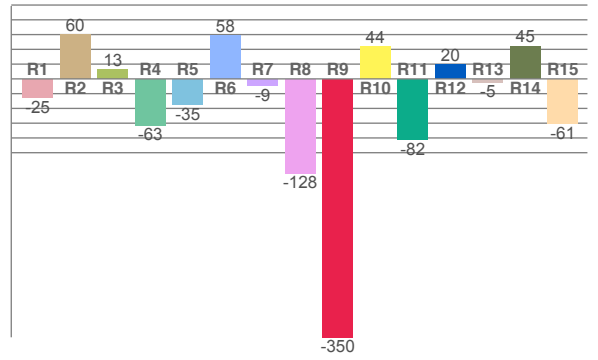
Color Details



TM30: 0.6



CRI: -16.3 (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
-25.3	59.8	12.5	-63.1	-35.1	58.3	-9.4	-127.8	-350.0	43.6	-82.3	20.0	-4.9	44.7	-60.8

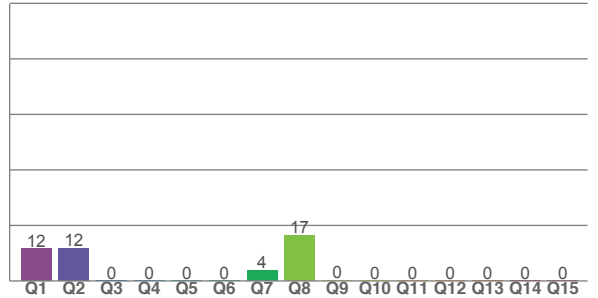
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0.0	0.1	33.2	11.6	24.6	16.0	0.1	0.5	0.1	0.0	0.2	0.0	56.1	7.5	1.9	0.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
11.7	11.8	0.0	0.0	0.0	0.2	3.9	16.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0

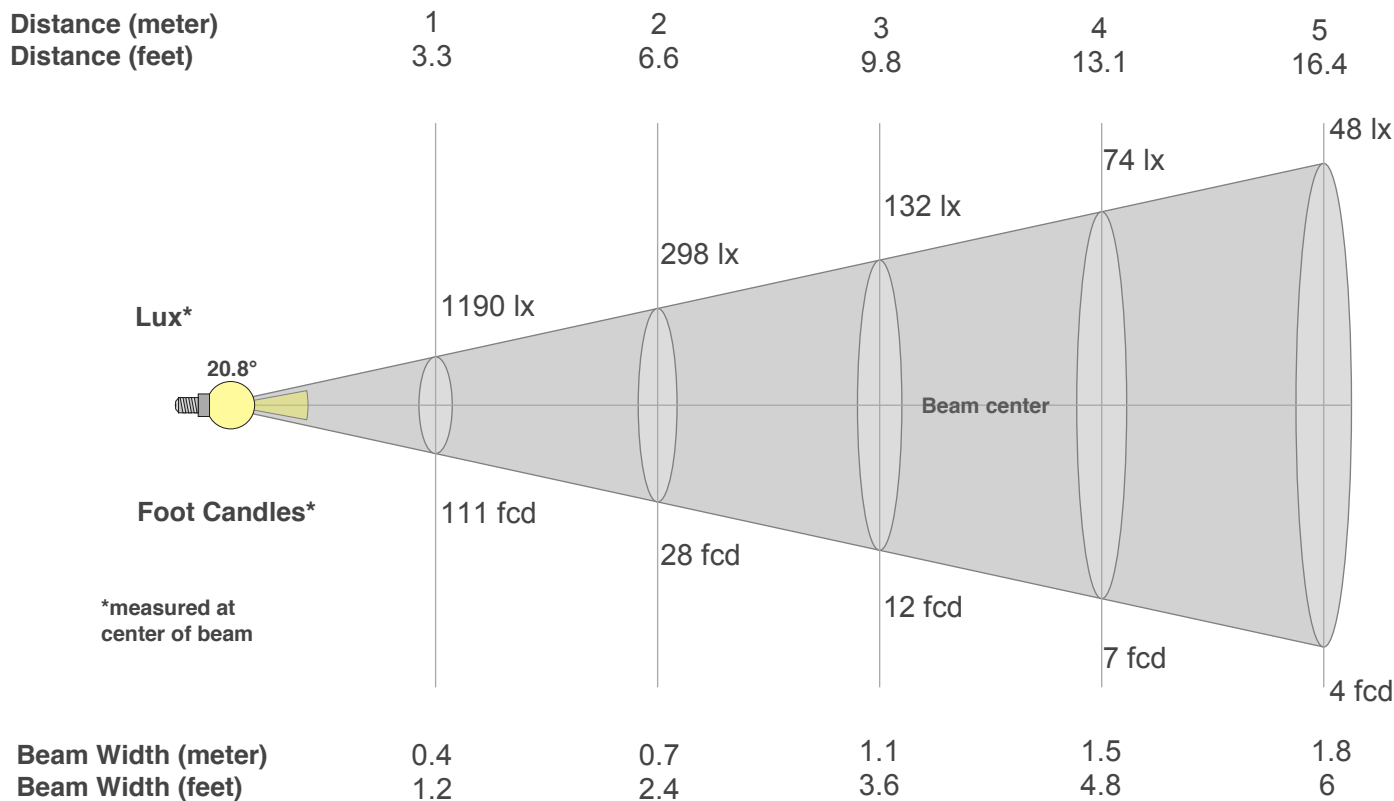
CQS: 0.0



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
1338 K	-16.3	-350.0	0.6	0.6	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	1190	298	132	74	48	33	24	19	15	12	10	8	7	6	5	5	4	4	3	3
fcd	110.6	27.6	12.3	6.9	4.4	3.1	2.3	1.7	1.4	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.3

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°
1190	1116	1001	871	742	625	522	432	354	286	228	180	141	110	85	66	51	40	31	25
100%	94%	84%	73%	62%	53%	44%	36%	30%	24%	19%	15%	12%	9%	7%	6%	4%	3%	3%	2%

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°
1190	1116	1001	871	742	625	522	432	354	286	228	180	141	110	85	66	51	40	31	25
100%	94%	84%	73%	62%	53%	44%	36%	30%	24%	19%	15%	12%	9%	7%	6%	4%	3%	3%	2%

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°
1190	1199	1132	997	821	639	478	350	256	188	141	106	81	63	49	38	30	24	19	15
100%	101%	95%	84%	69%	54%	40%	29%	21%	16%	12%	9%	7%	5%	4%	3%	3%	2%	2%	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°
1190	1199	1132	997	821	639	478	350	256	188	141	106	81	63	49	38	30	24	19	15
100%	101%	95%	84%	69%	54%	40%	29%	21%	16%	12%	9%	7%	5%	4%	3%	3%	2%	2%	1%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
20.8°	46.3°	68.3°	99.7%	97.5%