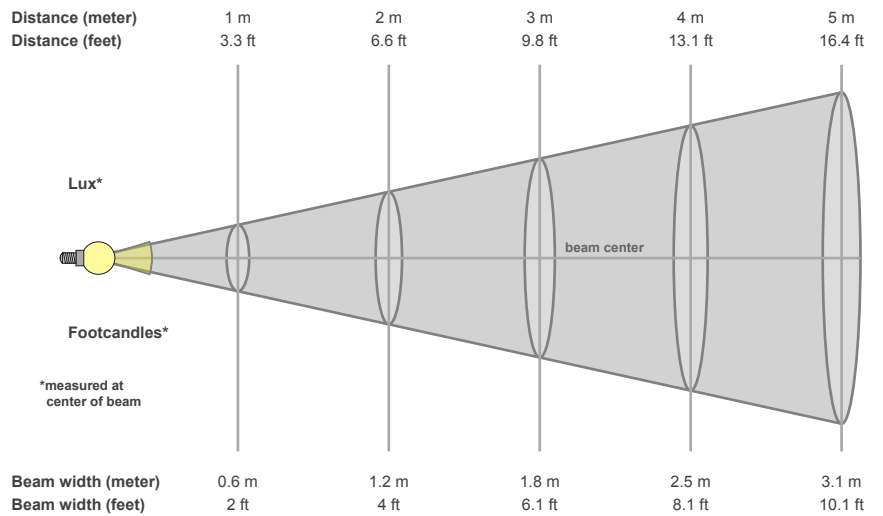
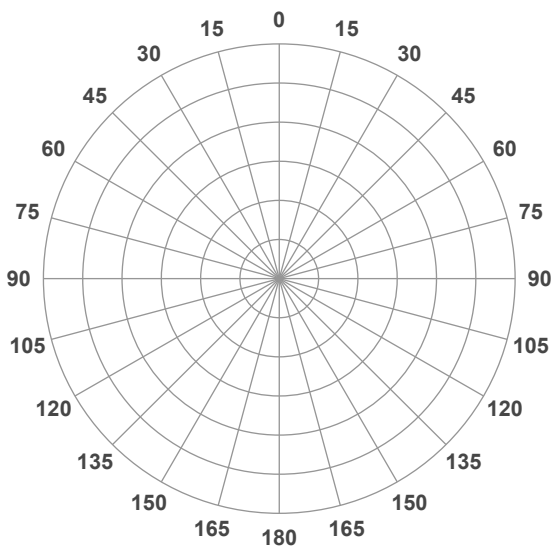
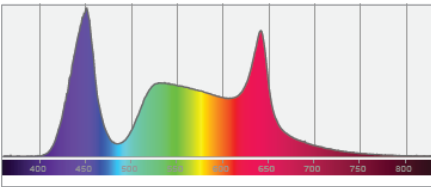
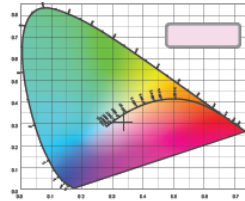




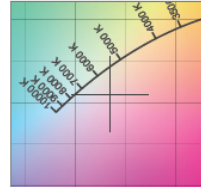
Spectral distribution



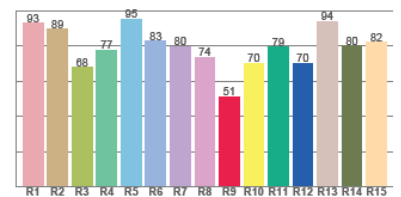
Color coordinates



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 QW100



Light Efficiency:

36 Lumen/Watt

Light Quality:

CRI: 70.4

Color Temperature:

6899 K

Output: 1092 lm

Peak: 3701 cd

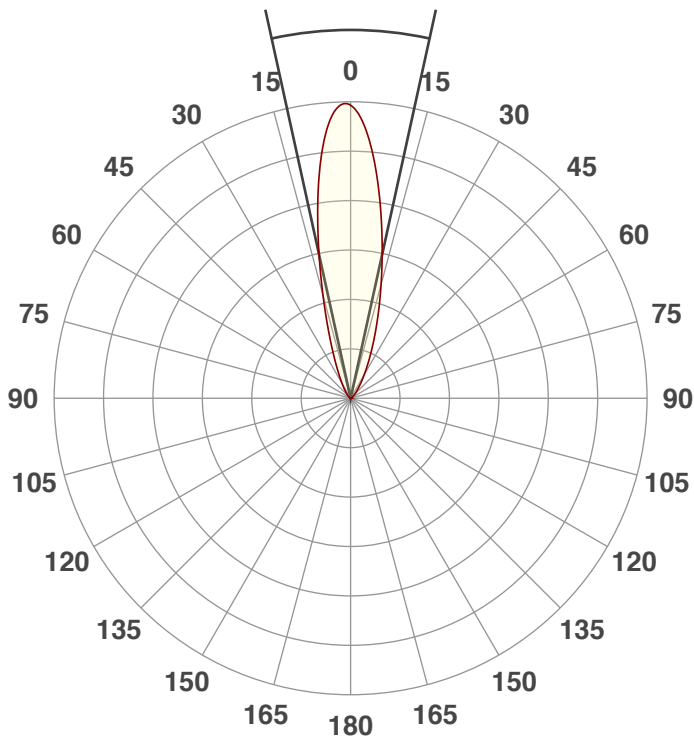
Power: 30.4 W

PF: 0.6



Beam Angle

24.8°



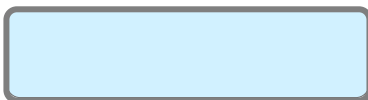
Test:

40Deg Full On

Date:

11/19/2018

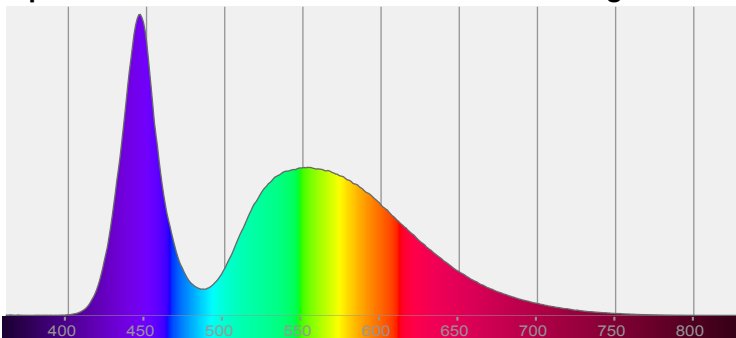
Note:



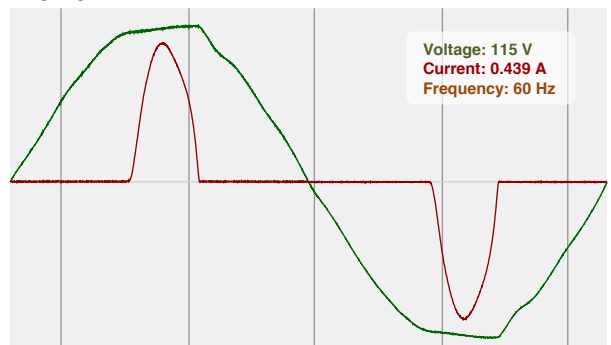
CIE 1931
x: 0.308
y: 0.315

Spectra

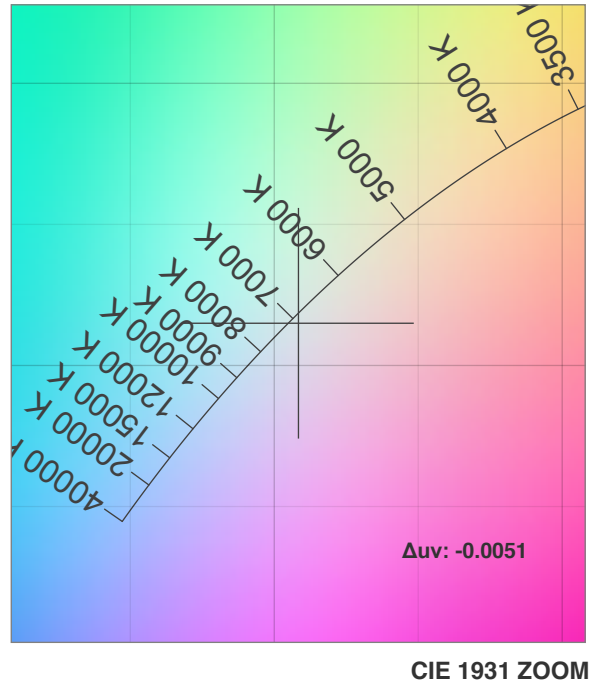
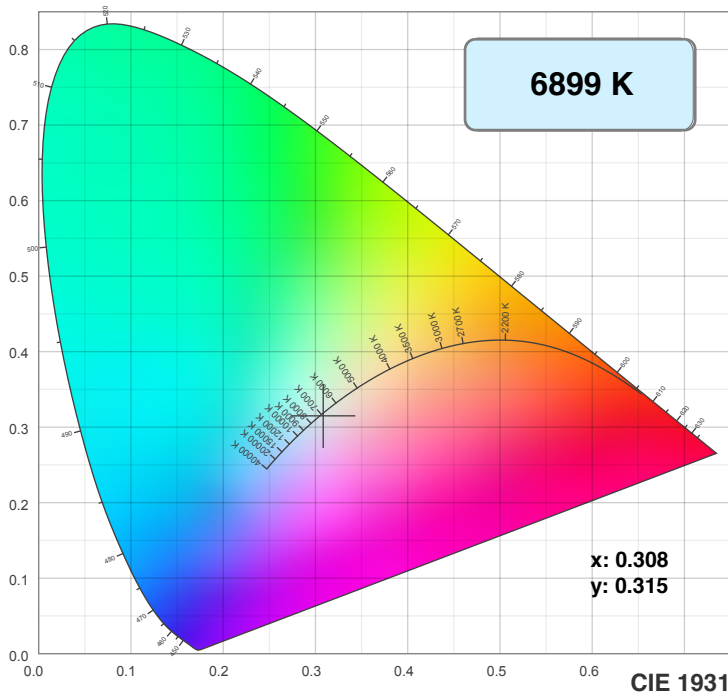
Dominant Wavelength: 360nm



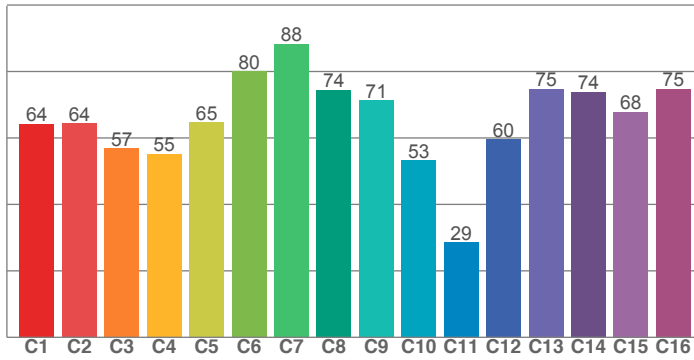
Power



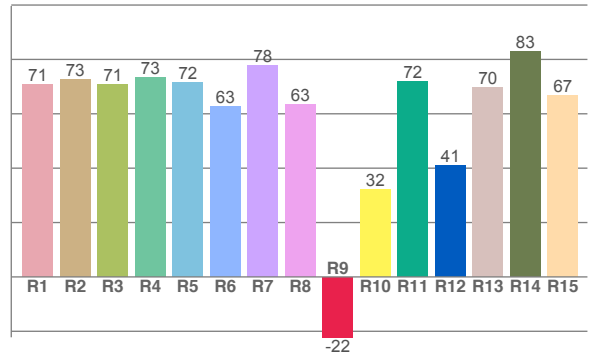
Color Details



TM30: 65.3



CRI: 70.4 (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
70.8	72.7	70.7	73.4	71.7	62.8	77.7	63.5	-22.2	32.1	71.7	40.9	69.8	83.1	66.7

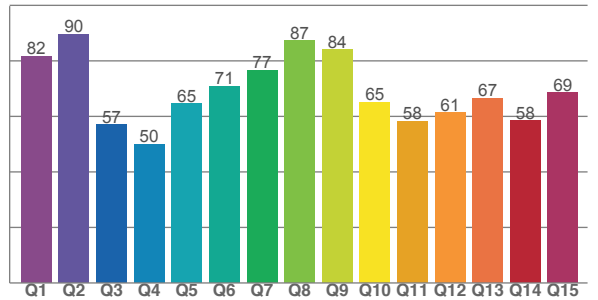
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
64.2	64.3	56.9	55.1	64.7	80.0	88.3	74.4	71.3	53.3	28.6	59.5	74.8	73.8	67.9	74.8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
81.7	89.6	57.1	49.9	64.5	70.9	76.6	87.2	84.0	65.1	58.3	61.3	66.5	58.4	68.6

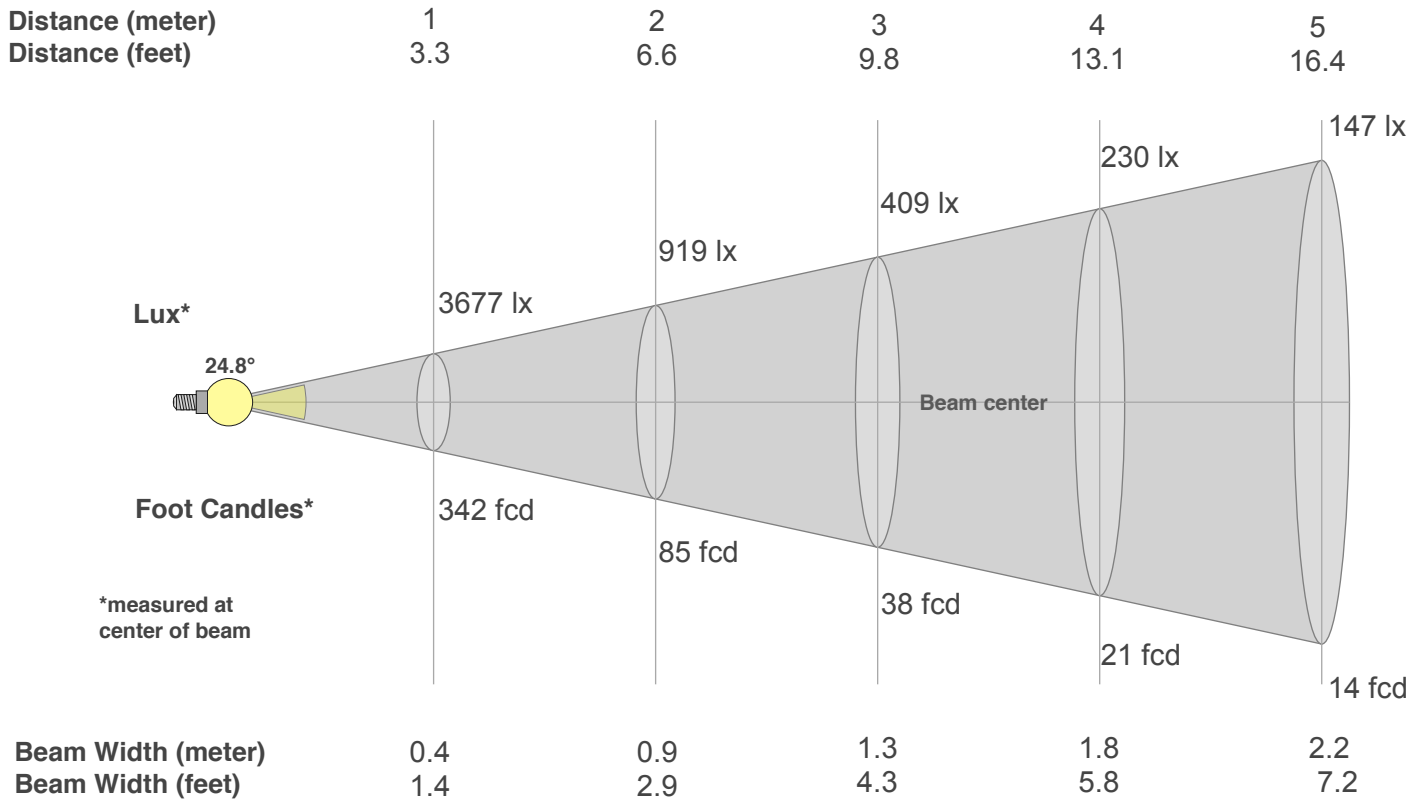
CQS: 67.2



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
6899 K	70.4	-22.2	65.3	95.0	67.2	0.308	0.315	0.200	0.307	-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	3677	919	409	230	147	102	75	57	45	37	30	26	22	19	16	14	13	11	10	9
fcd	341.6	85.4	38	21.4	13.7	9.5	7	5.3	4.2	3.4	2.8	2.4	2	1.7	1.5	1.3	1.2	1.1	0.9	0.9

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°
3677	3682	3528	3230	2833	2381	1932	1523	1181	907	700	542	424	335	266	214	173	141	115	95
100%	100%	96%	88%	77%	65%	53%	41%	32%	25%	19%	15%	12%	9%	7%	6%	5%	4%	3%	3%

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°
3677	3682	3528	3230	2833	2381	1932	1523	1181	907	700	542	424	335	266	214	173	141	115	95
100%	100%	96%	88%	77%	65%	53%	41%	32%	25%	19%	15%	12%	9%	7%	6%	5%	4%	3%	3%

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°
3677	3531	3269	2941	2585	2235	1908	1614	1355	1129	935	771	632	516	420	342	278	226	185	151
100%	96%	89%	80%	70%	61%	52%	44%	37%	31%	25%	21%	17%	14%	11%	9%	8%	6%	5%	4%

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°
3677	3531	3269	2941	2585	2235	1908	1614	1355	1129	935	771	632	516	420	342	278	226	185	151
100%	96%	89%	80%	70%	61%	52%	44%	37%	31%	25%	21%	17%	14%	11%	9%	8%	6%	5%	4%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
24.8°	54.4°	81.4°	98.8%	94.4%

MOD QW100



Light Efficiency:

16 Lumen/Watt

Dominant Wavelength:

627 nm

Output:

401 lm

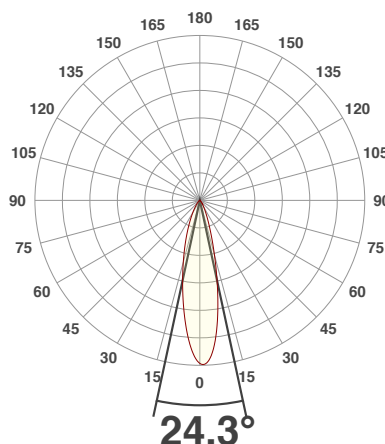
Power:

25.5 W

Peak:

1444 cd

Beam Angle



Test:

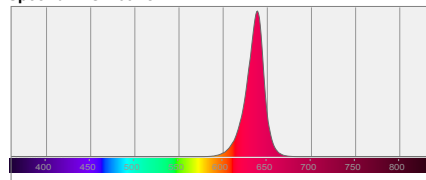
40Deg Red

Date:

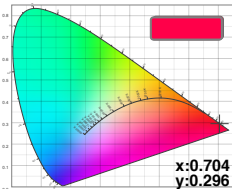
11/19/2018

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*

24.3°

Foot Candles*

*measured at
center of beam

1434 lx

133 fcd

0.4

1.4

159 lx

15 fcd

1.3

4.2

57 lx

5 fcd

2.2

7.1

90 lx

3 fcd

3

9.8

57 lx

1 fcd

4.3

14.1

Beam center

Beam Width (meter)

Beam Width (feet)

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
24.3°	52.7°	77.8°	99.1%	95.4%

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	1434	358	159	90	57	40	29	22	18	14	12	10	8	7	6	6	5	4	4	4
fcd	133.2	33.3	14.8	8.3	5.3	3.7	2.7	2.1	1.6	1.3	1.1	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3

MOD QW100



Light Efficiency:

29 Lumen/Watt

Dominant Wavelength:

527 nm

Output:

910 lm

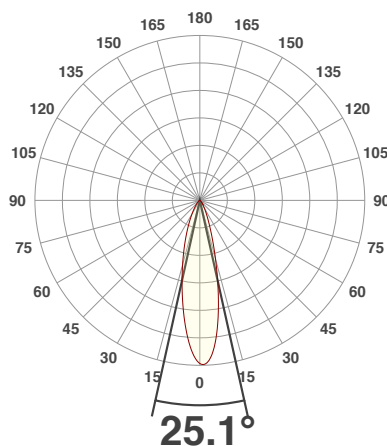
Power:

31.8 W

Peak:

3029 cd

Beam Angle



Test:

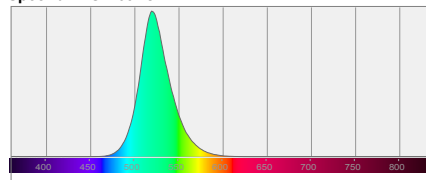
40Deg Green

Date:

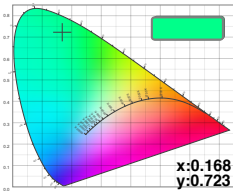
11/19/2018

Note:

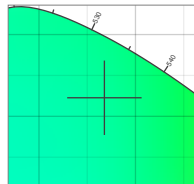
Spectral Distribution



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*

25.1°

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

4.4

14.6

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
25.1°	54.7°	81.9°	98.6%	94.1%

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	3009	752	334	188	120	84	61	47	37	30	25	21	18	15	13	12	10	9	8	8
fcd	279.6	69.9	31.1	17.5	11.2	7.8	5.7	4.4	3.5	2.8	2.3	1.9	1.7	1.4	1.2	1.1	1	0.9	0.8	0.7

MOD QW100



Light Efficiency:

6 Lumen/Watt

Dominant Wavelength:

455 nm

Output:

192 lm

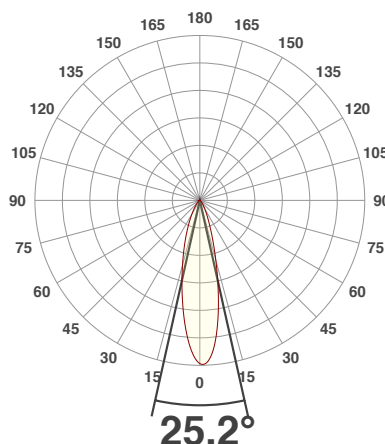
Power:

30.9 W

Peak:

620 cd

Beam Angle



Test:

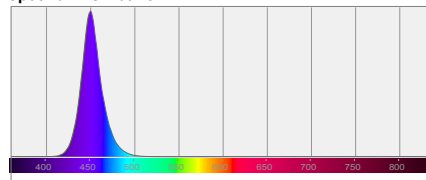
40Deg Blue

Date:

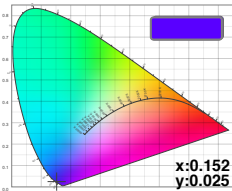
11/19/2018

Note:

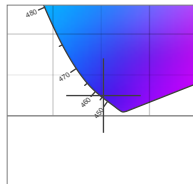
Spectral Distribution



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°

616 lx

68 lx

25 lx

39 lx

25 lx

Foot Candles*

57 fcd

6 fcd

2 fcd

1 fcd

1 fcd

*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°	55.4°	83.5°	98.0%	93.1%

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	616	154	68	39	25	17	13	10	8	6	5	4	4	3	3	2	2	2	2	2
fcd	57.2	14.3	6.4	3.6	2.3	1.6	1.2	0.9	0.7	0.6	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1

MOD QW100



Light Efficiency:

36 Lumen/Watt

Light Quality:

CRI: 70.4

Color Temperature:

6917 K

Output: 1093 lm

Peak: 3716 cd

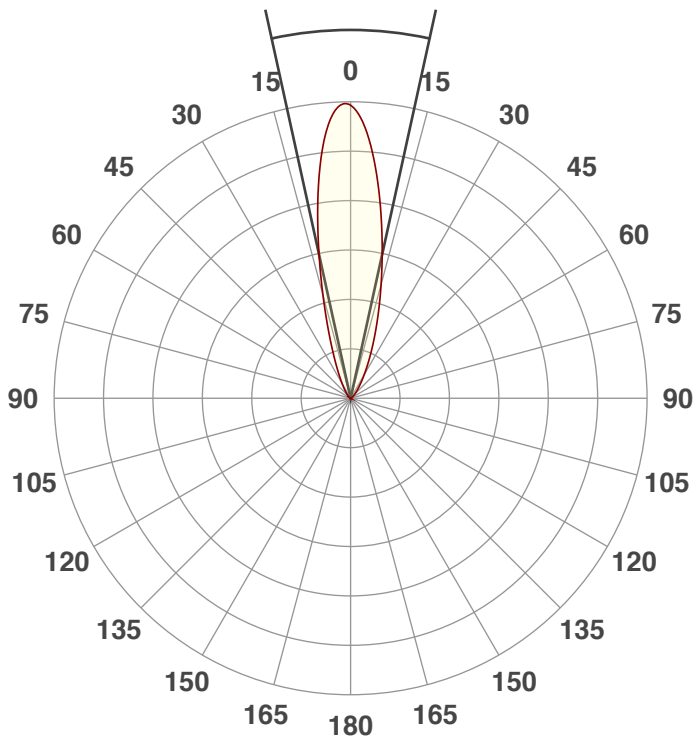
Power: 30.2 W

PF: 0.61



Beam Angle

24.8°



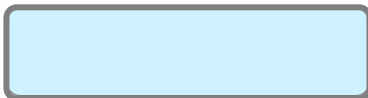
Test:

40Deg White

Date:

11/19/2018

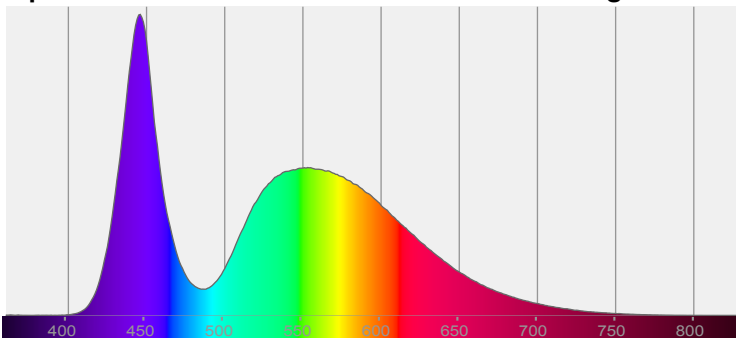
Note:



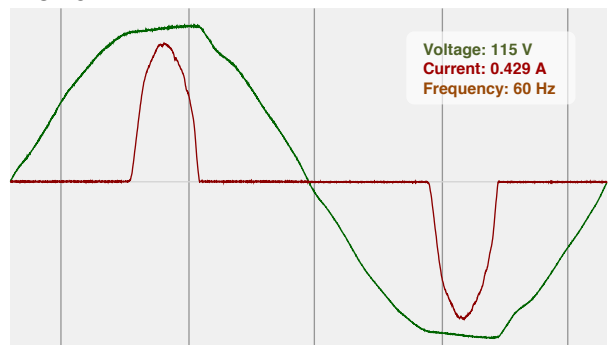
CIE 1931
x: 0.308
y: 0.315

Spectra

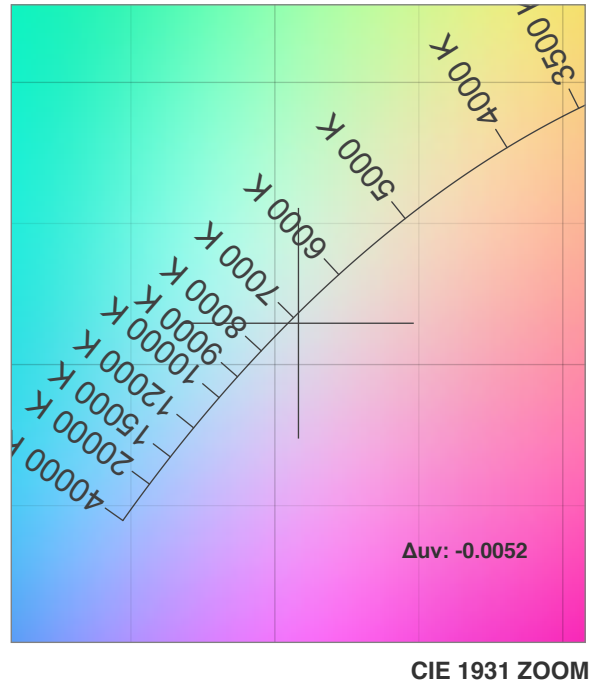
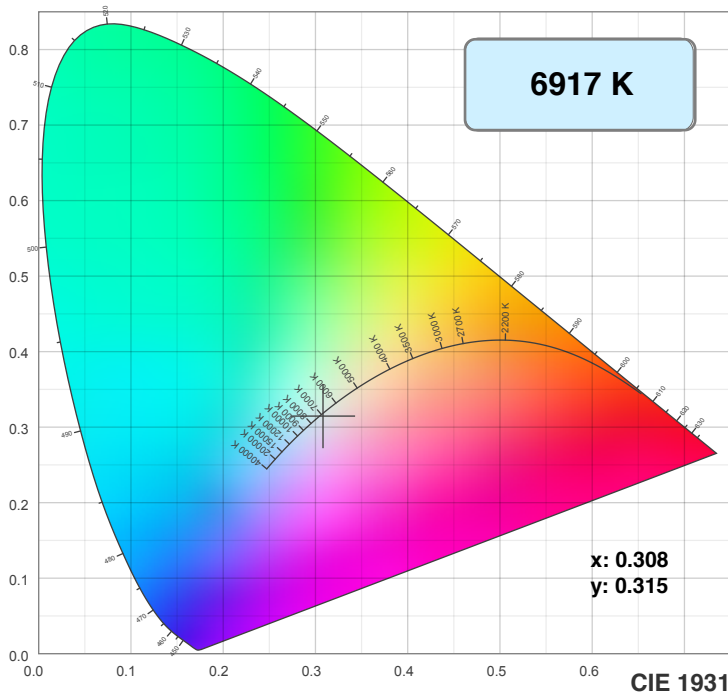
Dominant Wavelength: 360nm



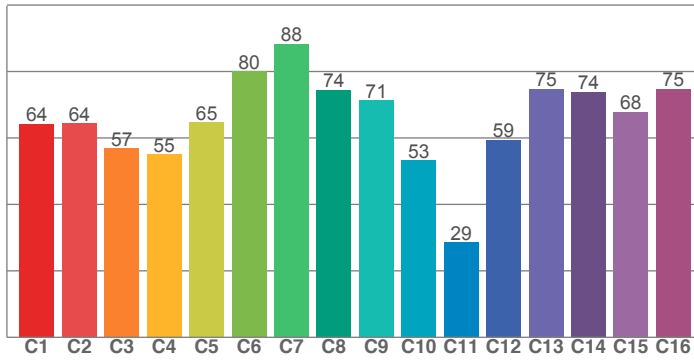
Power



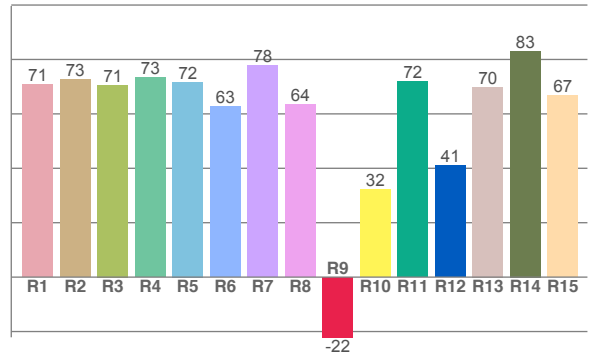
Color Details



TM30: 65.3



CRI: 70.4 (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
70.9	72.7	70.6	73.4	71.7	62.8	77.7	63.5	-22.1	32.1	71.8	40.9	69.9	83.1	66.7

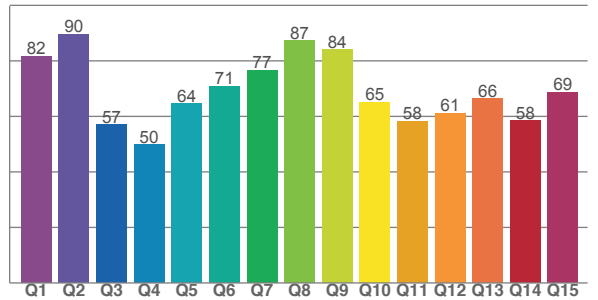
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
64.2	64.3	56.9	55.1	64.7	80.0	88.3	74.5	71.3	53.2	28.5	59.5	74.7	73.8	67.9	74.8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
81.7	89.6	57.1	49.9	64.5	70.9	76.6	87.2	84.0	65.1	58.3	61.2	66.5	58.4	68.7

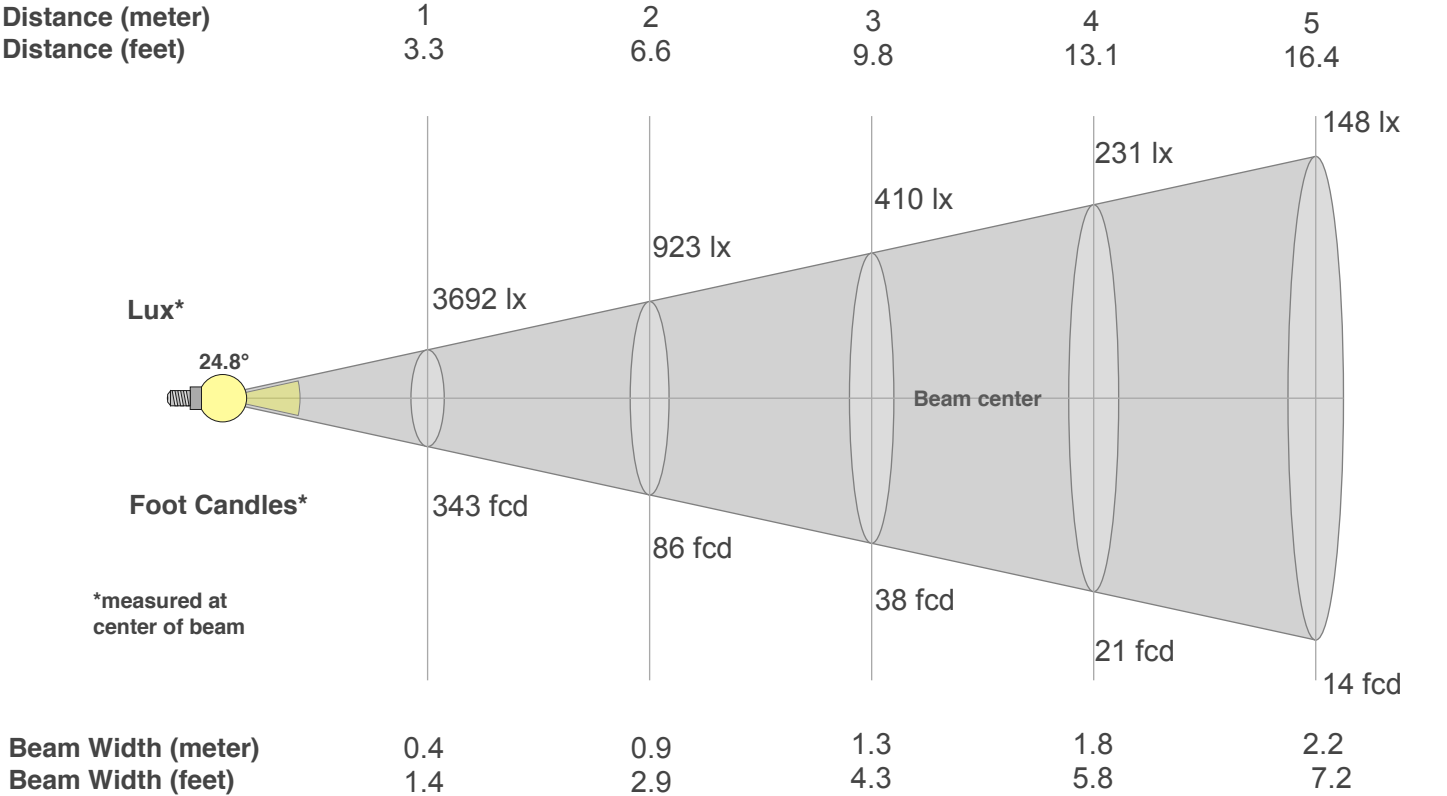
CQS: 67.2



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
6917 K	70.4	-22.1	65.3	95.0	67.2	0.308	0.315	0.200	0.307	-0.0052

Beam Details



Lux*

24.8°

Foot Candles*

*measured at center of beam

3692 lx

923 lx

410 lx

231 lx

148 lx

343 fcd

86 fcd

38 fcd

21 fcd

14 fcd

Beam center

Beam Width (meter)

Beam Width (feet)

0.4

1.4

0.9

2.9

1.3

4.3

1.8

5.8

2.2

7.2

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	3692	923	410	231	148	103	75	58	46	37	31	26	22	19	16	14	13	11	10	9
fcd	343	85.8	38.1	21.4	13.7	9.5	7	5.4	4.2	3.4	2.8	2.4	2	1.8	1.5	1.3	1.2	1.1	1	0.9

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°
3692	3694	3540	3242	2843	2392	1940	1530	1185	911	702	545	426	336	267	214	173	140	115	94
100%	100%	96%	88%	77%	65%	53%	41%	32%	25%	19%	15%	12%	9%	7%	6%	5%	4%	3%	3%

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°	
3692	3694	3540	3242	2843	2392	1940	1530	1185	911	702	545	426	336	267	214	173	140	115	94	
100%	100%	96%	88%	77%	65%	53%	41%	32%	25%	19%	15%	12%	9%	7%	6%	5%	4%	3%	3%	

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°	
3692	3544	3283	2952	2597	2245	1918	1622	1361	1134	939	773	634	518	421	343	279	226	185	151	
100%	96%	89%	80%	70%	61%	52%	44%	37%	31%	25%	21%	17%	14%	11%	9%	8%	6%	5%	4%	

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°
3692	3544	3283	2952	2597	2245	1918	1622	1361	1134	939	773	634	518	421	343	279	226	185	151
100%	96%	89%	80%	70%	61%	52%	44%	37%	31%	25%	21%	17%	14%	11%	9%	8%	6%	5%	4%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
24.8°	54.3°	81.2°	98.9%	94.7%