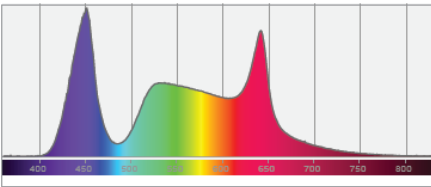
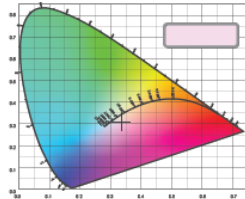


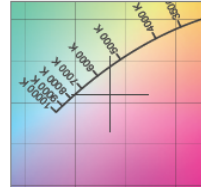
Spectral distribution



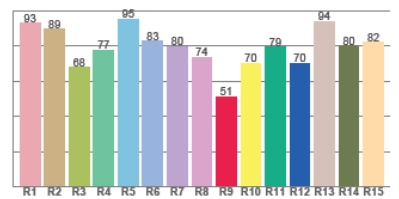
Color coordinates



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 TW100



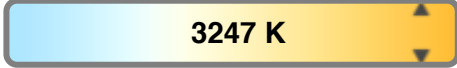
Light Efficiency:



Light Quality:



Color Temperature:



Output: 1831 lm

Peak: 8997 cd

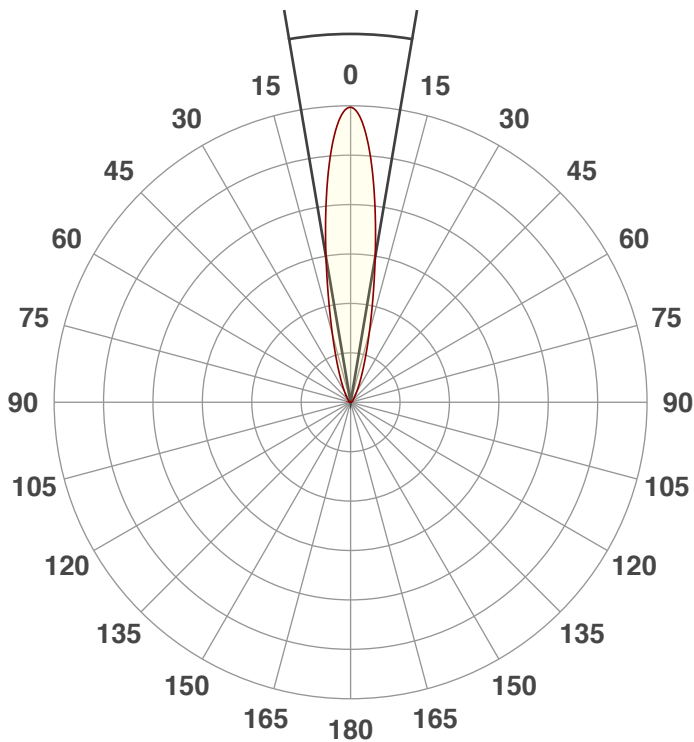
Power: 114 W

PF: 0.64



Beam Angle

19.2°



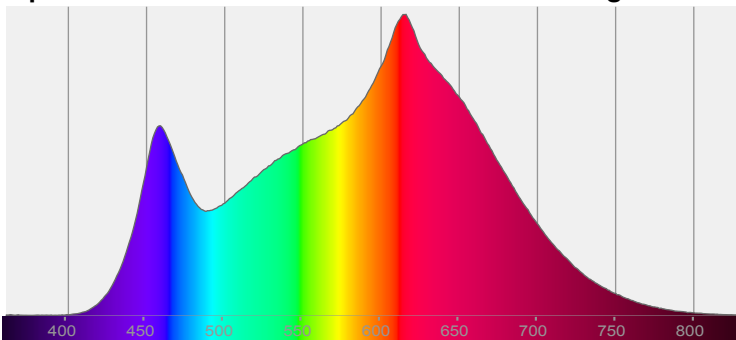
Test: 20Deg Full On
Date: 11/26/2018
Note:



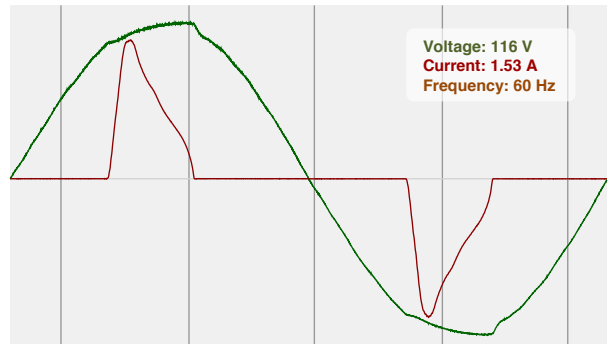
CIE 1931
x: 0.409
y: 0.370

Spectra

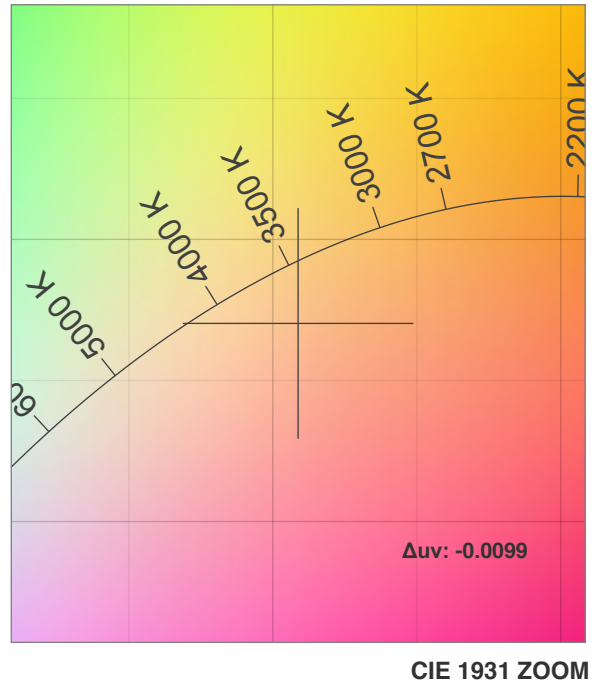
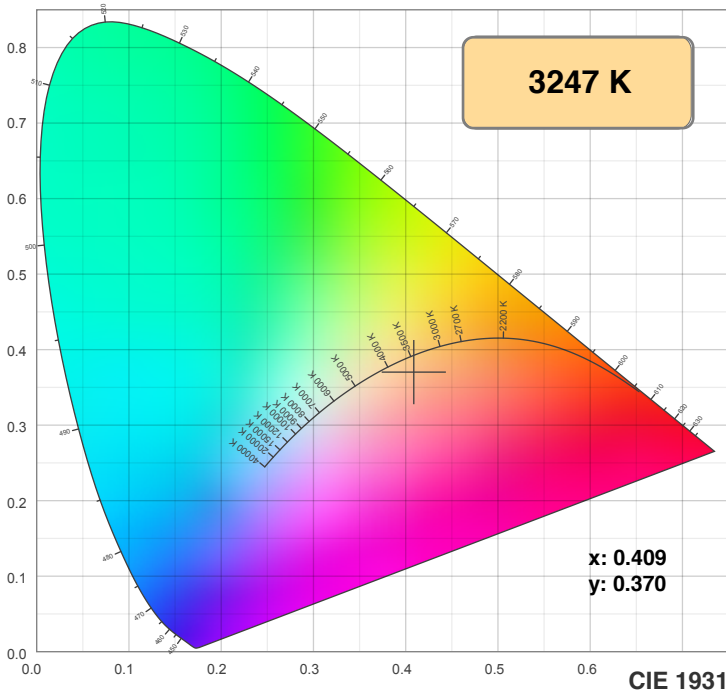
Dominant Wavelength: 588nm



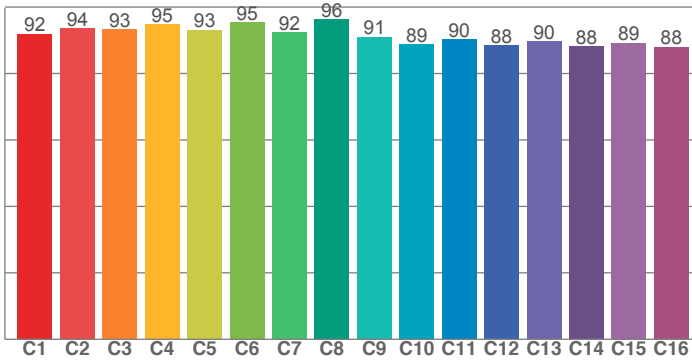
Power



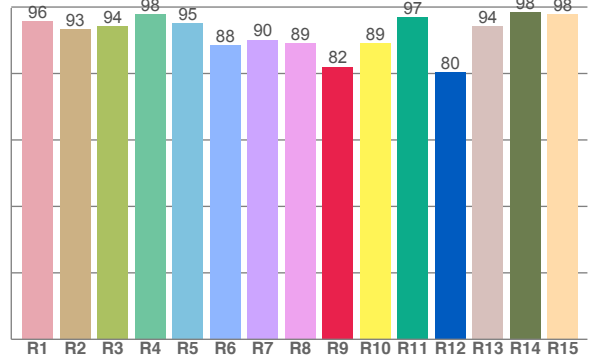
Color Details



TM30: 91.7



CRI: 93.0 (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
95.6	93.4	94.3	97.9	95.2	88.5	90.2	89.1	82.0	89.2	96.9	80.3	94.1	98.4	97.7

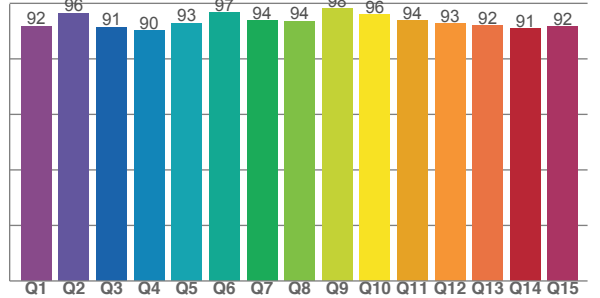
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91.9	93.6	93.3	94.8	93.1	95.4	92.4	96.3	91.0	88.8	90.2	88.4	89.6	88.2	89.2	88.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91.8	96.4	91.4	90.2	92.9	96.7	93.8	93.5	98.2	95.8	93.8	92.6	92.0	91.0	91.6

CQS: 93.0



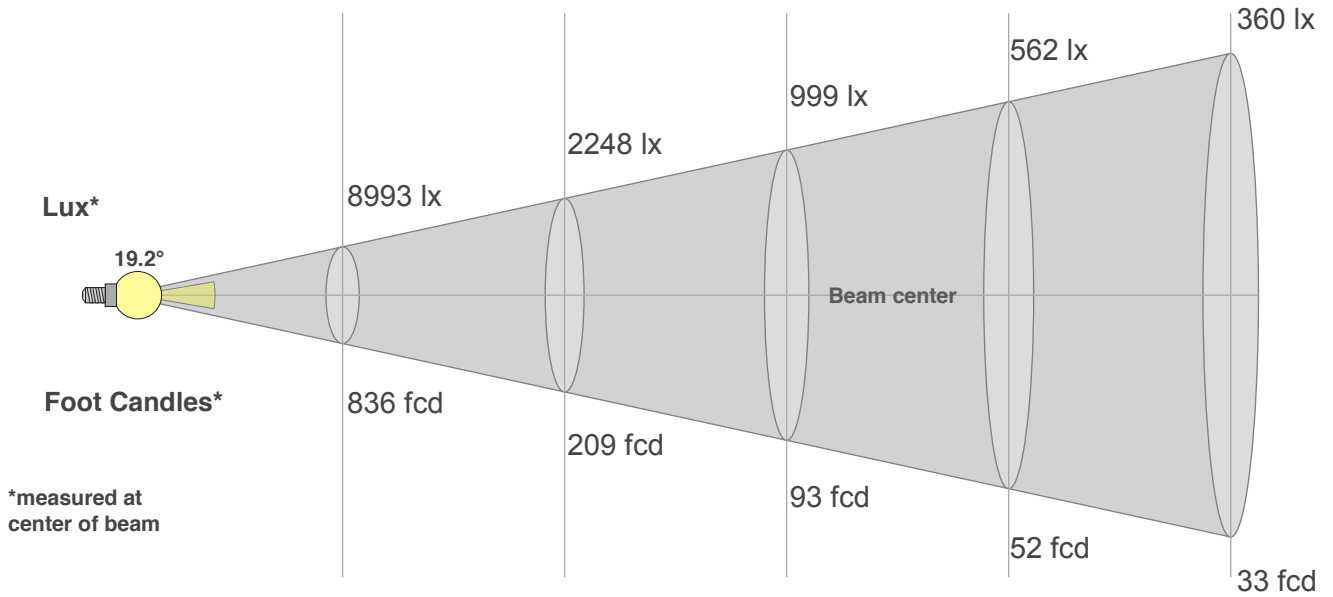
Color Parameters

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
3247 K	93.0	82.0	91.7	100.9	93.0	0.409	0.370	0.247	0.335	-0.0099

Beam Details

Distance (meter)
Distance (feet)

1 2 3 4 5
3.3 6.6 9.8 13.1 16.4



Beam Width (meter)
Beam Width (feet)

0.3 0.7 1 1.4 1.7
1.1 2.2 3.3 4.4 5.6

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	8993	2248	999	562	360	250	184	141	111	90	74	62	53	46	40	35	31	28	25	22
fcd	835.5	208.9	92.8	52.2	33.4	23.2	17.1	13.1	10.3	8.4	6.9	5.8	4.9	4.3	3.7	3.3	2.9	2.6	2.3	2.1

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°
8993	8723	7911	6769	5494	4275	3247	2455	1871	1437	1114	871	688	550	443	361	296	249	214	179
100%	97%	88%	75%	61%	48%	36%	27%	21%	16%	12%	10%	8%	6%	5%	4%	3%	3%	2%	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°
8993	8723	7911	6769	5494	4275	3247	2455	1871	1437	1114	871	688	550	443	361	296	249	214	179
100%	97%	88%	75%	61%	48%	36%	27%	21%	16%	12%	10%	8%	6%	5%	4%	3%	3%	2%	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°
8993	8680	7846	6709	5460	4284	3299	2522	1935	1495	1162	912	721	576	464	378	310	257	217	187
100%	97%	87%	75%	61%	48%	37%	28%	22%	17%	13%	10%	8%	6%	5%	4%	3%	3%	2%	2%

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°
8993	8680	7846	6709	5460	4284	3299	2522	1935	1495	1162	912	721	576	464	378	310	257	217	187
100%	97%	87%	75%	61%	48%	37%	28%	22%	17%	13%	10%	8%	6%	5%	4%	3%	3%	2%	2%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
19.2°	43.8°	71°	98.4%	93.6%

MOD TW100



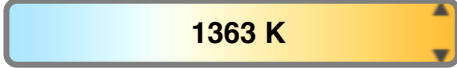
Light Efficiency:



Light Quality:



Color Temperature:



Output: 334 lm

Peak: 1870 cd

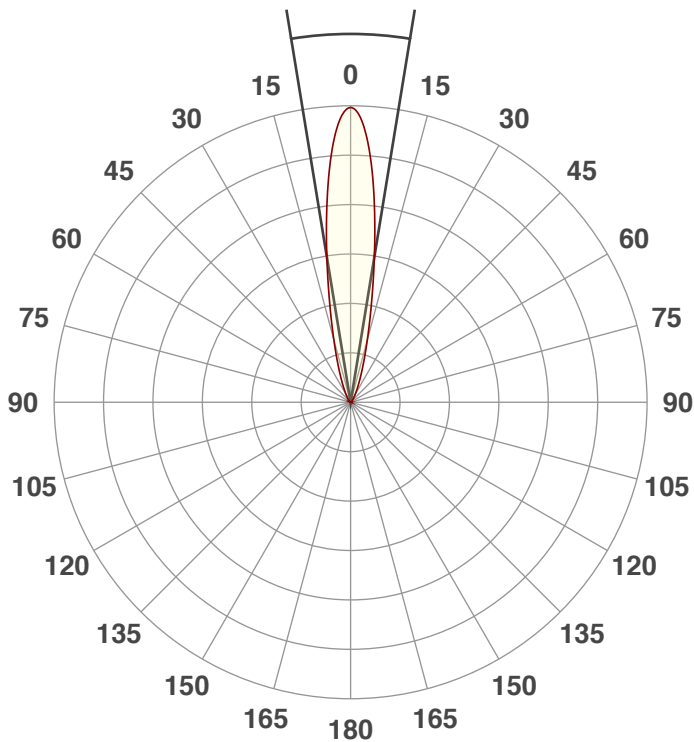
Power: 30.7 W

PF: 0.62



Beam Angle

18.6°



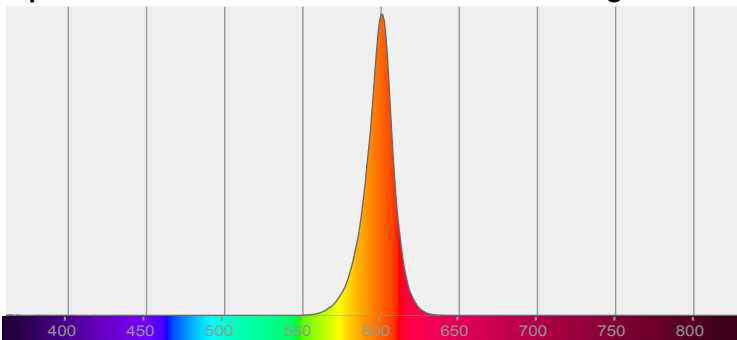
Test: 20Deg Amber
Date: 11/26/2018
Note:



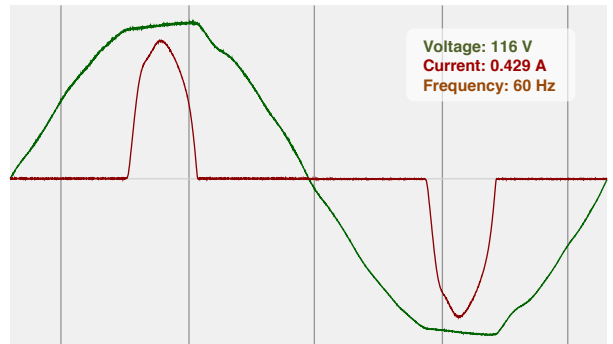
CIE 1931
x: 0.610
y: 0.389

Spectra

Dominant Wavelength: 596nm

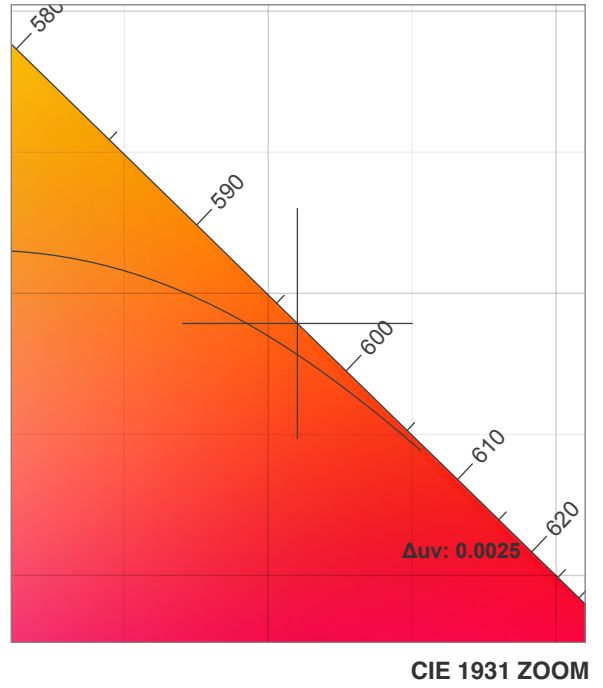
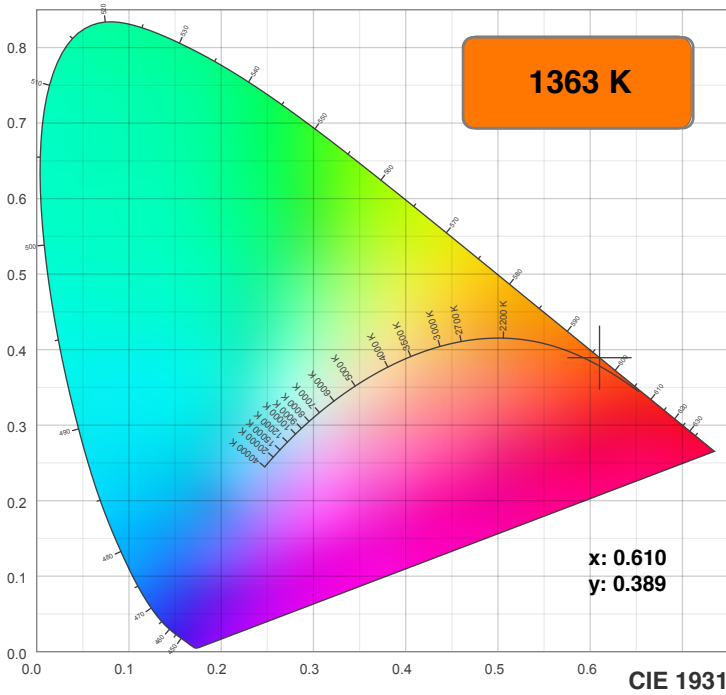


Power

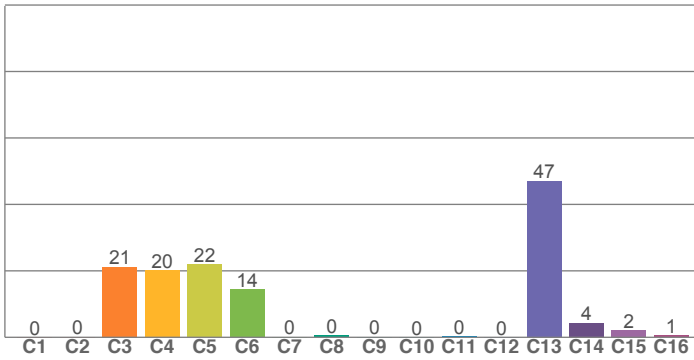


Voltage: 116 V
Current: 0.429 A
Frequency: 60 Hz

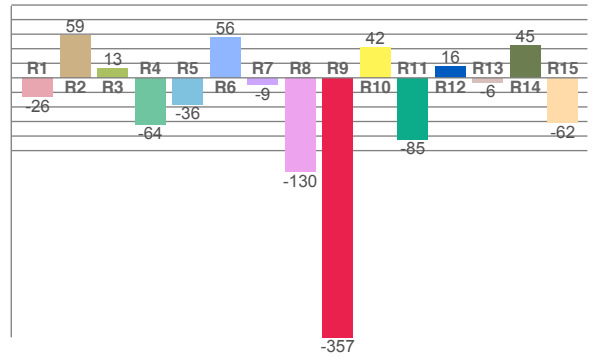
Color Details



TM30: 0.5



CRI: -17.2 (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
-26.5	58.8	13.0	-64.0	-36.3	56.1	-9.4	-129.6	-356.5	41.7	-84.6	15.8	-6.3	44.7	-61.6

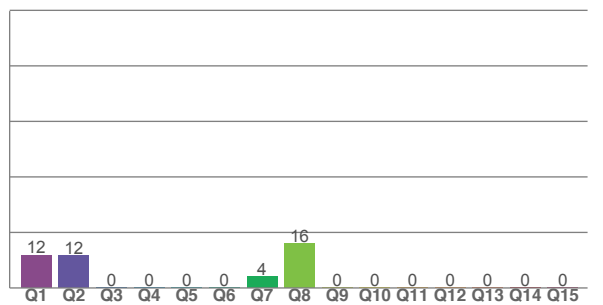
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0.0	0.1	21.2	20.2	21.9	14.4	0.1	0.5	0.1	0.0	0.2	0.0	47.0	4.3	2.1	0.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
11.8	11.6	0.0	0.0	0.0	0.2	4.1	16.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0

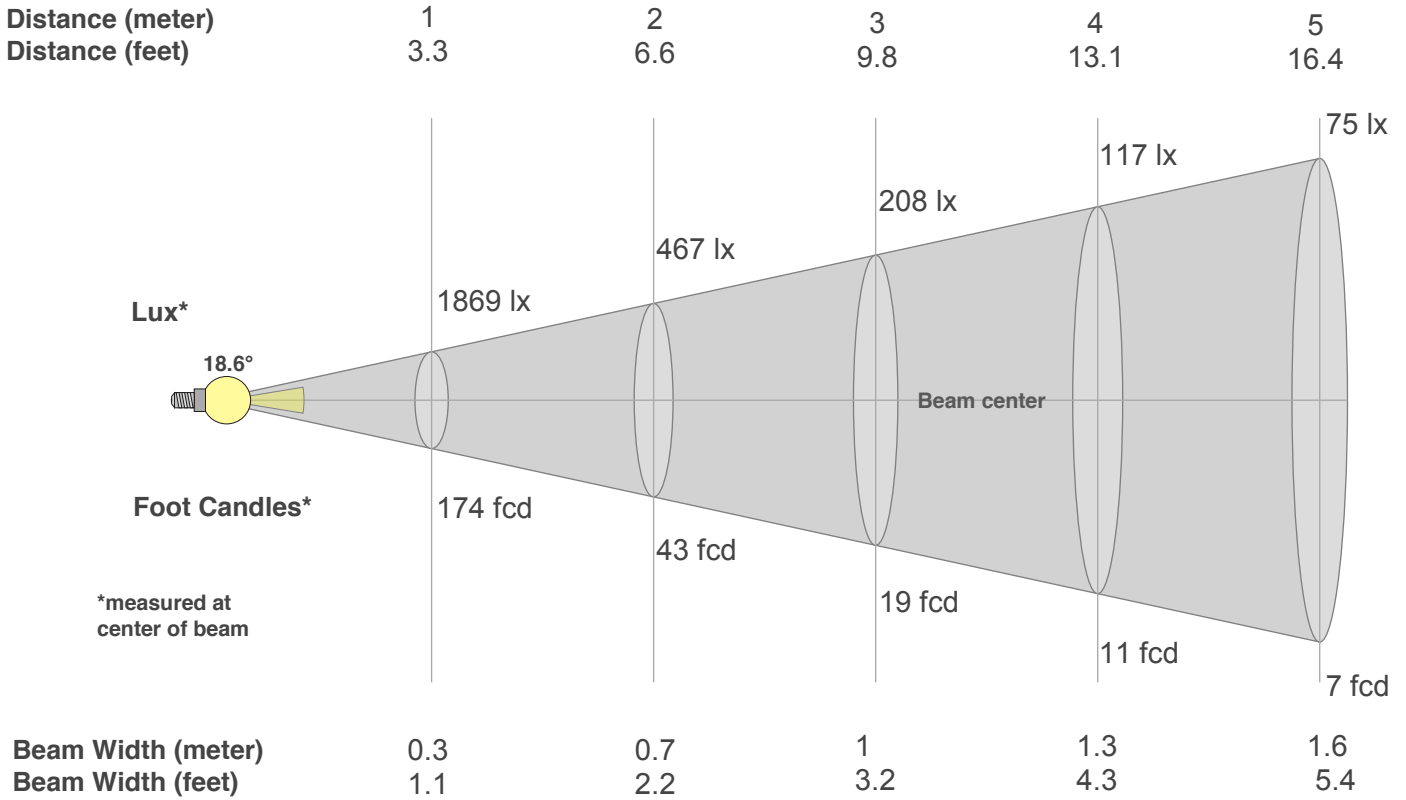
CQS: 0.0



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
1363 K	-17.2	-356.5	0.5	0.6	0.0	0.610	0.389	0.378	0.362	0.0025

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	1869	467	208	117	75	52	38	29	23	19	15	13	11	10	8	7	6	6	5	5
fcd	173.7	43.4	19.3	10.9	6.9	4.8	3.5	2.7	2.1	1.7	1.4	1.2	1	0.9	0.8	0.7	0.6	0.5	0.5	0.4

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°
1869	1805	1628	1377	1103	848	636	476	357	270	206	158	122	95	75	59	47	39	32	27
100%	97%	87%	74%	59%	45%	34%	25%	19%	14%	11%	8%	7%	5%	4%	3%	3%	2%	2%	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°
1869	1805	1628	1377	1103	848	636	476	357	270	206	158	122	95	75	59	47	39	32	27
100%	97%	87%	74%	59%	45%	34%	25%	19%	14%	11%	8%	7%	5%	4%	3%	3%	2%	2%	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°
1869	1804	1630	1382	1105	847	635	475	356	269	205	157	122	95	74	59	47	39	32	26
100%	97%	87%	74%	59%	45%	34%	25%	19%	14%	11%	8%	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°
1869	1804	1630	1382	1105	847	635	475	356	269	205	157	122	95	74	59	47	39	32	26
100%	97%	87%	74%	59%	45%	34%	25%	19%	14%	11%	8%	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
18.6°	41.4°	64.2°	99.1%	95.9%

MOD TW100



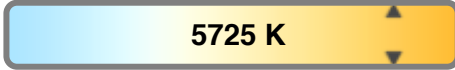
Light Efficiency:



Light Quality:



Color Temperature:



Output: 878 lm

Peak: 4557 cd

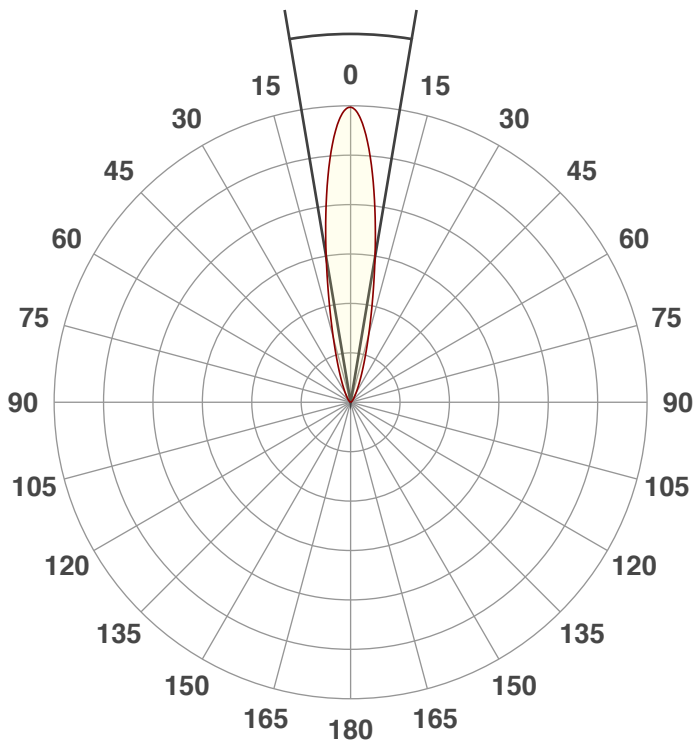
Power: 30.9 W

PF: 0.59



Beam Angle

19.1°



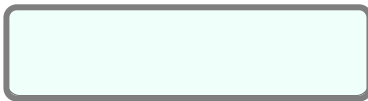
Test:

20Deg CW

Date:

11/26/2018

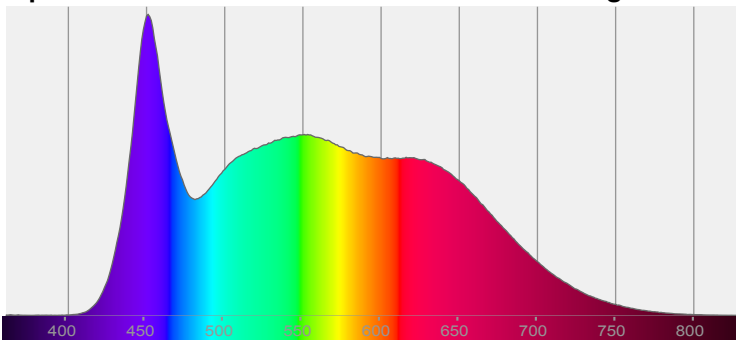
Note:



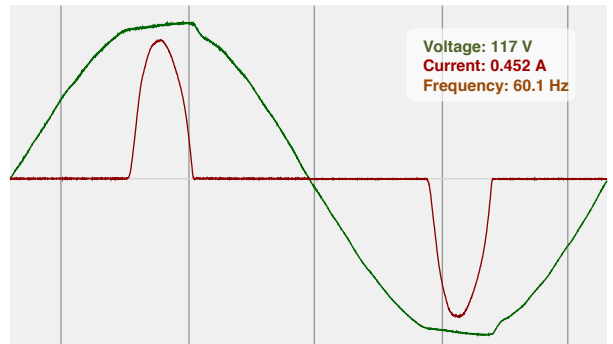
CIE 1931
x: 0.328
y: 0.339

Spectra

Dominant Wavelength: 583nm

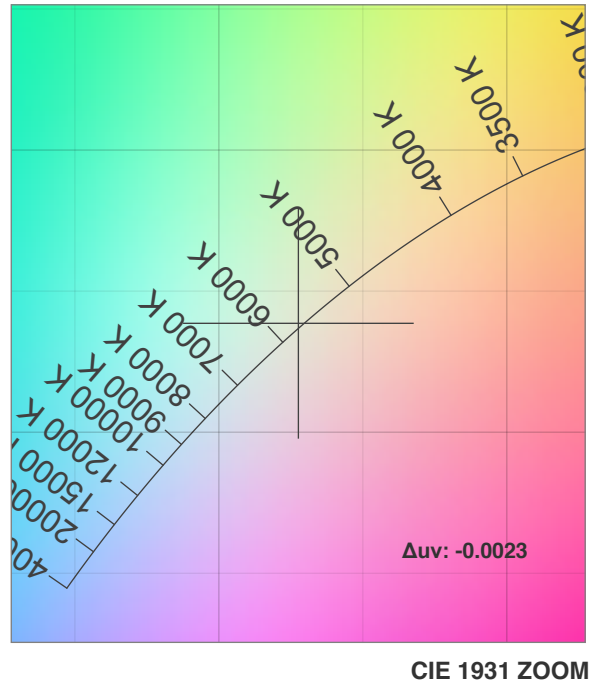
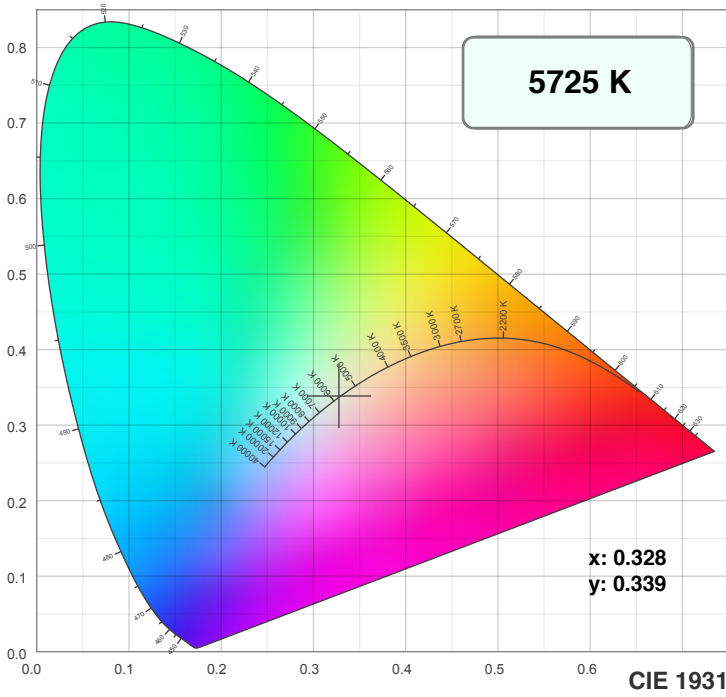


Power

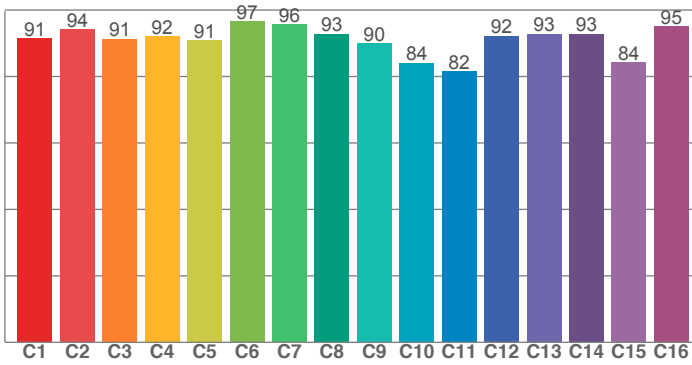


Voltage: 117 V
Current: 0.452 A
Frequency: 60.1 Hz

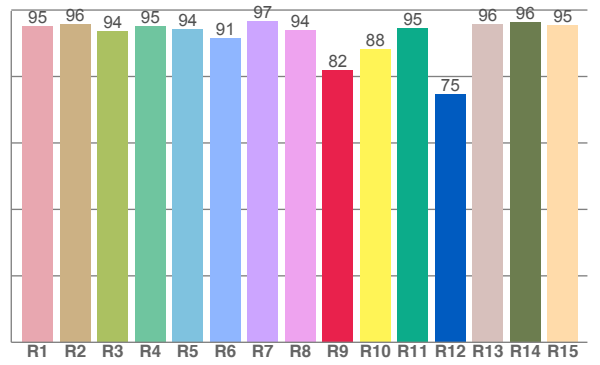
Color Details



TM30: 90.9



CRI: 94.5 (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
95.2	95.7	93.5	95.1	94.3	91.5	96.6	93.8	81.9	88.1	94.5	74.6	95.7	96.3	95.5

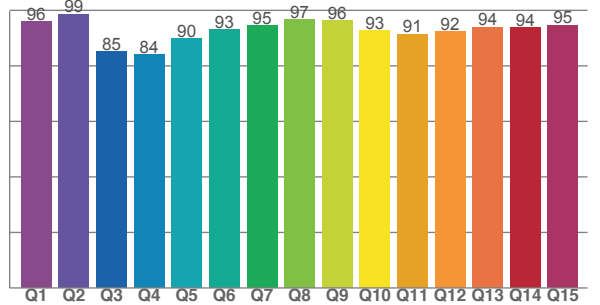
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91.4	94.2	91.3	92.0	90.8	96.6	95.7	92.8	90.0	84.0	81.6	92.2	92.9	92.8	84.3	95.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96.0	98.7	85.2	84.1	89.8	93.0	94.5	96.7	96.3	92.7	91.4	92.4	93.9	93.7	94.7

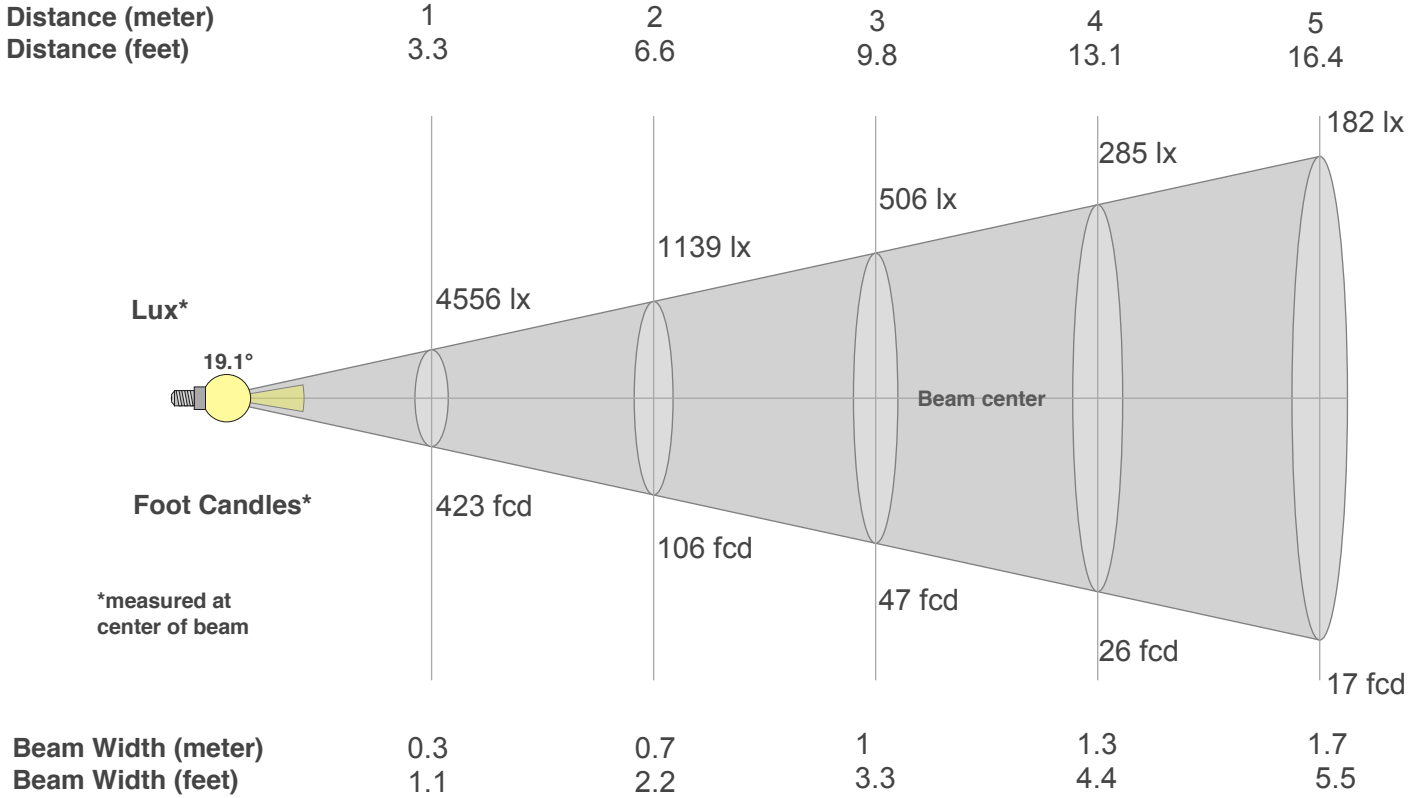
CQS: 91.9



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
5725 K	94.5	81.9	90.9	100.0	91.9	0.328	0.339	0.205	0.317	-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	4556	1139	506	285	182	127	93	71	56	46	38	32	27	23	20	18	16	14	13	11
fcd	423.3	105.8	47	26.5	16.9	11.8	8.6	6.6	5.2	4.2	3.5	2.9	2.5	2.2	1.9	1.7	1.5	1.3	1.2	1.1

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°
4556	4415	4008	3422	2770	2140	1604	1194	894	677	518	400	313	248	198	160	131	110	94	79
100%	97%	88%	75%	61%	47%	35%	26%	20%	15%	11%	9%	7%	5%	4%	4%	3%	2%	2%	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°
4556	4415	4008	3422	2770	2140	1604	1194	894	677	518	400	313	248	198	160	131	110	94	79
100%	97%	88%	75%	61%	47%	35%	26%	20%	15%	11%	9%	7%	5%	4%	4%	3%	2%	2%	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°
4556	4390	3959	3380	2747	2149	1643	1242	942	719	552	428	336	265	212	171	139	116	97	83
100%	96%	87%	74%	60%	47%	36%	27%	21%	16%	12%	9%	7%	6%	5%	4%	3%	3%	2%	2%

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°
4556	4390	3959	3380	2747	2149	1643	1242	942	719	552	428	336	265	212	171	139	116	97	83
100%	96%	87%	74%	60%	47%	36%	27%	21%	16%	12%	9%	7%	6%	5%	4%	3%	3%	2%	2%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
19.1°	42.5°	67.9°	98.6%	94.3%

MOD TW100



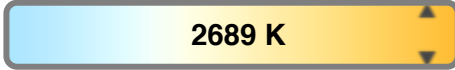
Light Efficiency:



Light Quality:



Color Temperature:



Output: 1286 lm

Peak: 6658 cd

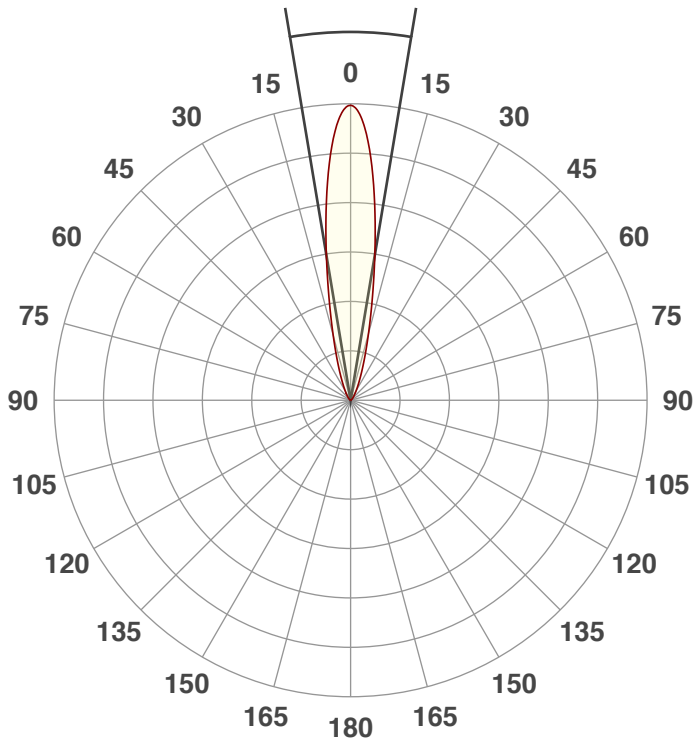
Power: 58.7 W

PF: 0.63



Beam Angle

18.9°



Test:

20Deg WW

Date:

11/26/2018

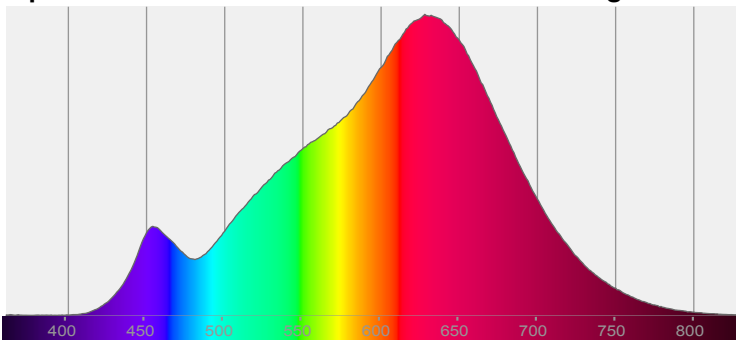
Note:



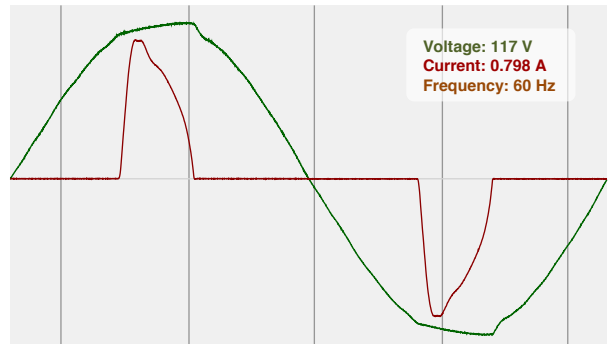
CIE 1931
x: 0.459
y: 0.408

Spectra

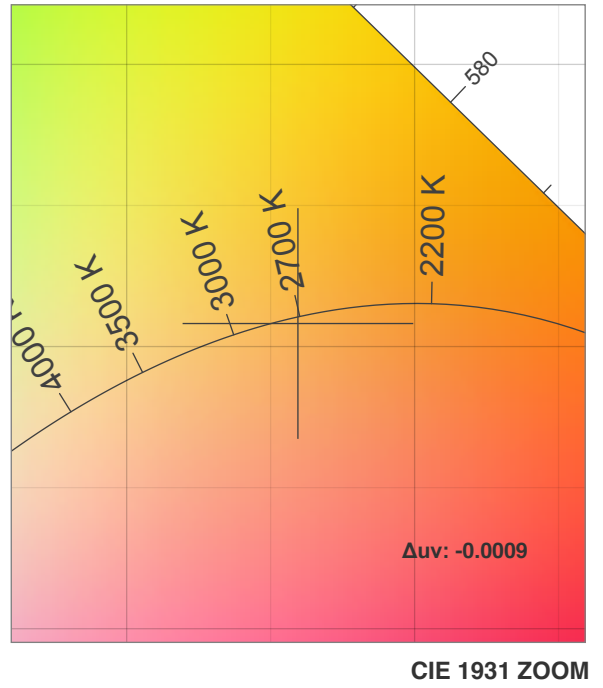
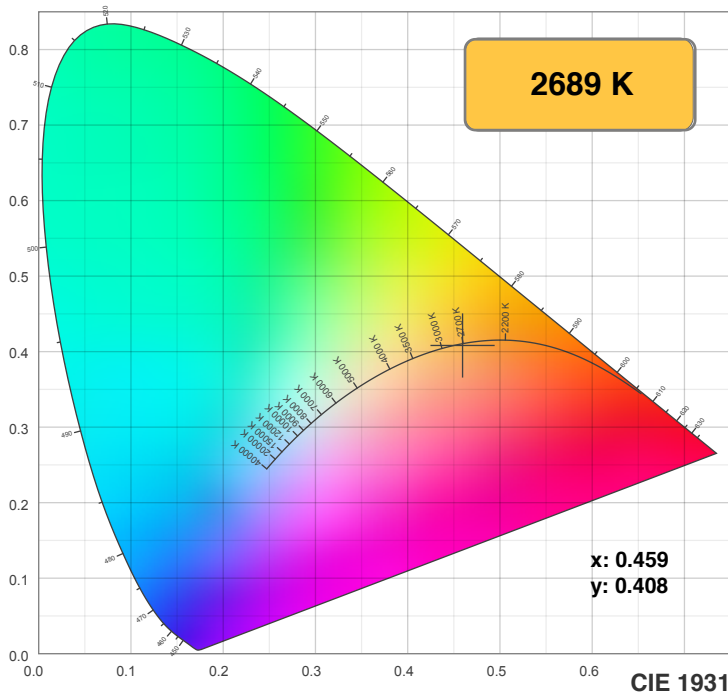
Dominant Wavelength: 585nm



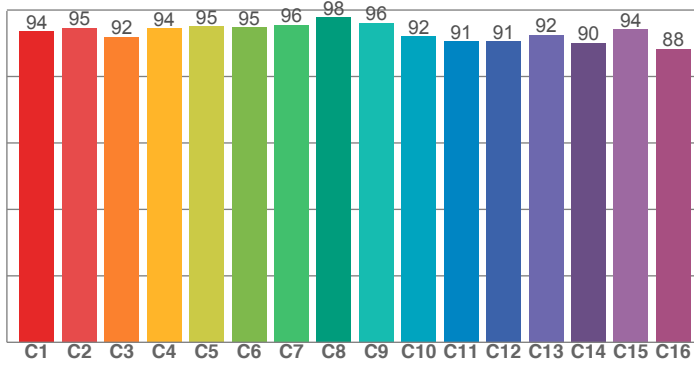
Power



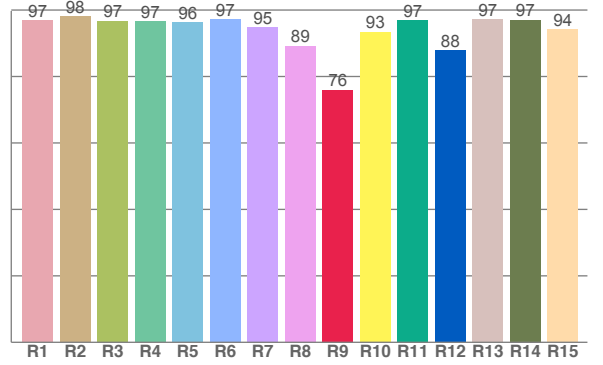
Color Details



TM30: 93.2



CRI: 95.7 (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
96.8	98.0	96.8	96.5	96.2	97.3	94.9	89.2	76.0	93.4	97.0	87.9	97.3	97.1	94.1

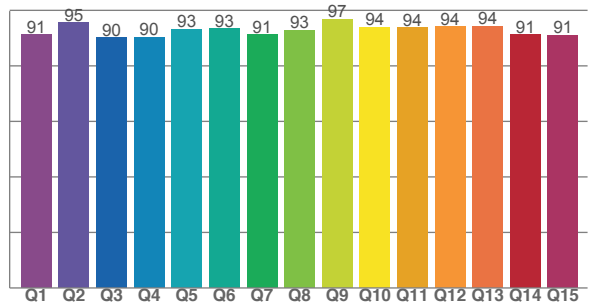
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93.5	94.7	91.9	94.4	95.1	94.8	95.5	97.8	96.2	92.1	90.5	90.6	92.4	90.1	94.2	88.3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91.3	95.5	90.2	90.4	93.2	93.4	91.1	92.9	96.9	93.9	93.8	94.0	94.4	91.2	91.0

CQS: 92.5



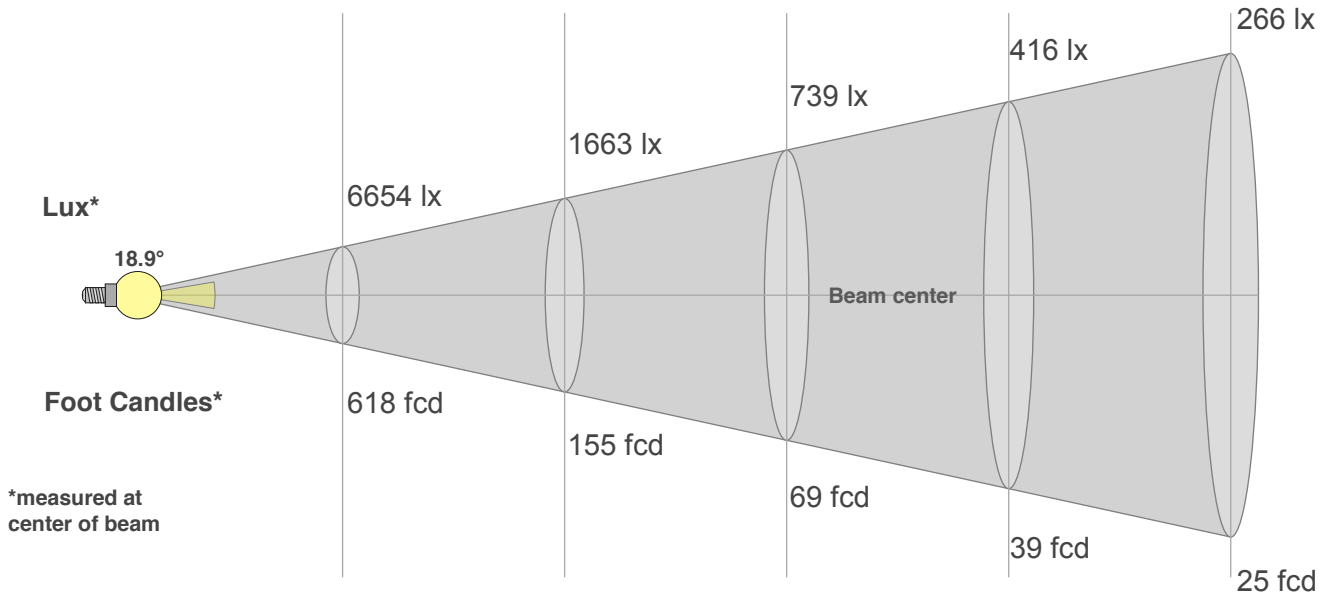
Color Parameters

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
2689 K	95.7	76.0	93.2	100.7	92.5	0.459	0.408	0.263	0.351	-0.0009

Beam Details

Distance (meter)
Distance (feet)

1 2 3 4 5
3.3 6.6 9.8 13.1 16.4



Beam Width (meter)
Beam Width (feet)

0.3 0.7 1 1.3 1.7
1.1 2.2 3.3 4.4 5.5

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	6654	1663	739	416	266	185	136	104	82	67	55	46	39	34	30	26	23	21	18	17
fcd	618.2	154.5	68.7	38.6	24.7	17.2	12.6	9.7	7.6	6.2	5.1	4.3	3.7	3.2	2.7	2.4	2.1	1.9	1.7	1.5

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°
6654	6439	5836	4973	4013	3101	2338	1754	1325	1011	778	603	473	375	300	242	196	168	141	116
100%	97%	88%	75%	60%	47%	35%	26%	20%	15%	12%	9%	7%	6%	5%	4%	3%	3%	2%	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°
6654	6439	5836	4973	4013	3101	2338	1754	1325	1011	778	603	473	375	300	242	196	168	141	116
100%	97%	88%	75%	60%	47%	35%	26%	20%	15%	12%	9%	7%	6%	5%	4%	3%	3%	2%	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°
6654	6426	5801	4935	3990	3107	2368	1797	1368	1048	807	630	494	392	313	253	205	172	143	122
100%	97%	87%	74%	60%	47%	36%	27%	21%	16%	12%	9%	7%	6%	5%	4%	3%	3%	2%	2%

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°
6654	6426	5801	4935	3990	3107	2368	1797	1368	1048	807	630	494	392	313	253	205	172	143	122
100%	97%	87%	74%	60%	47%	36%	27%	21%	16%	12%	9%	7%	6%	5%	4%	3%	3%	2%	2%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
18.9°	42.8°	68.5°	98.7%	94.5%