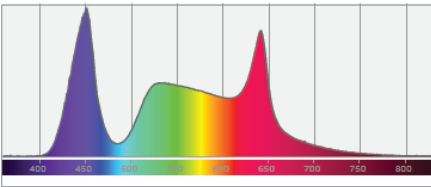
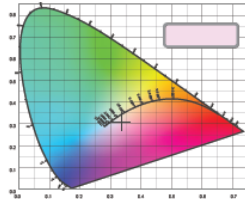


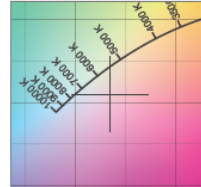
Spectral distribution



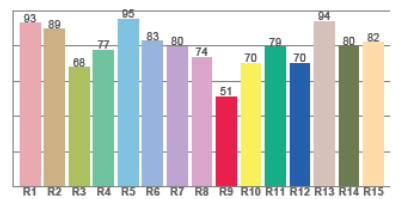
Color coordinates



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.

COB Cannon Wash ST DW



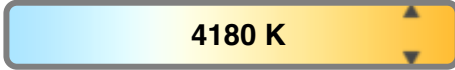
Light Efficiency:



Light Quality:



Color Temperature:



Output: 5583 lm

Peak: 6571 cd

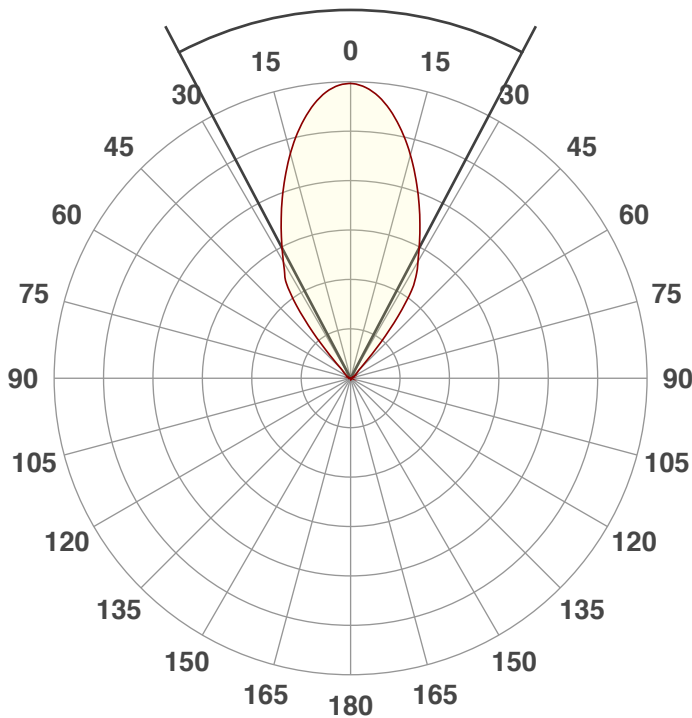
Power: 154 W

PF: 0.99



Beam Angle

55.5°



Test:

Full On

Date:

9/28/2018

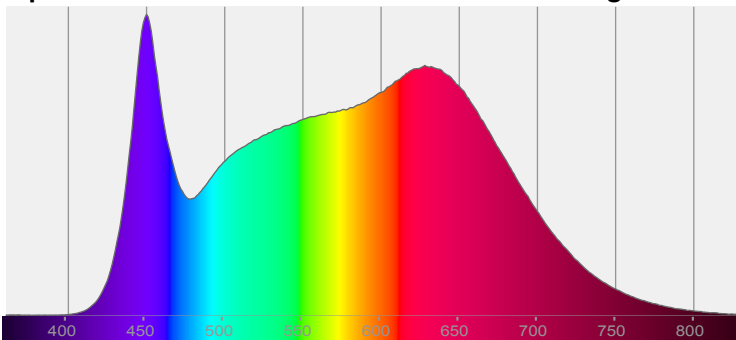
Note:



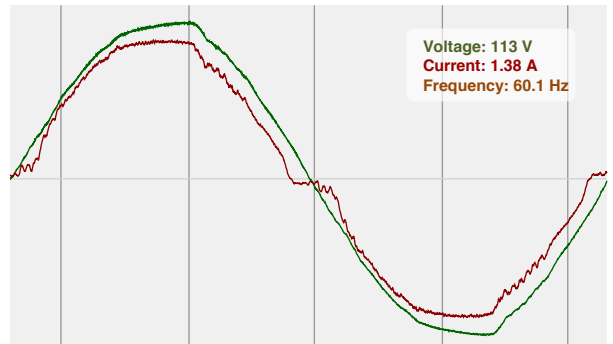
CIE 1931
x: 0.368
y: 0.350

Spectra

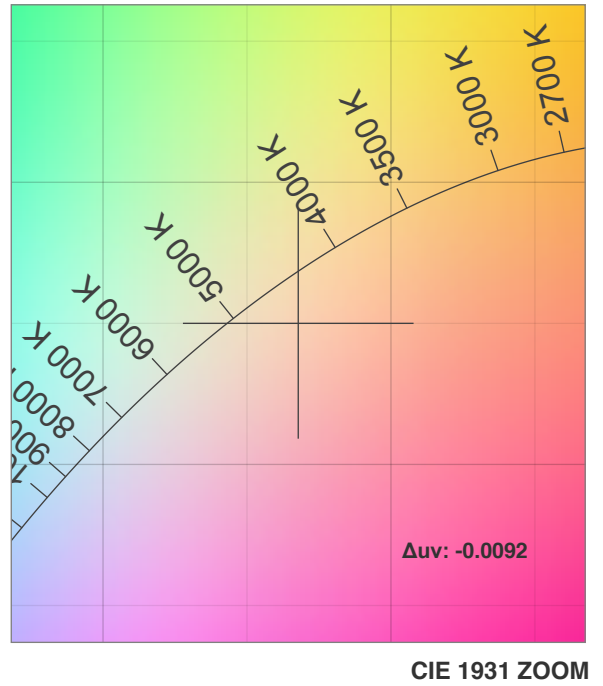
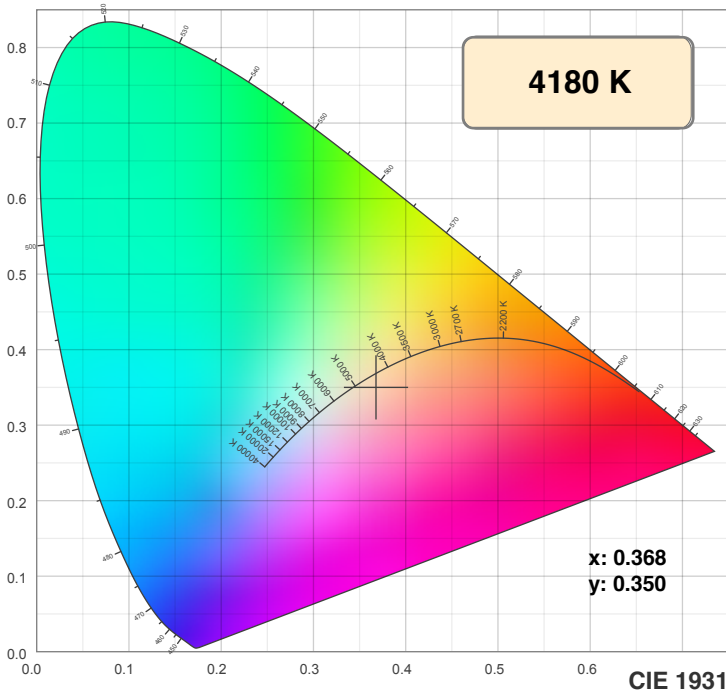
Dominant Wavelength: 589nm



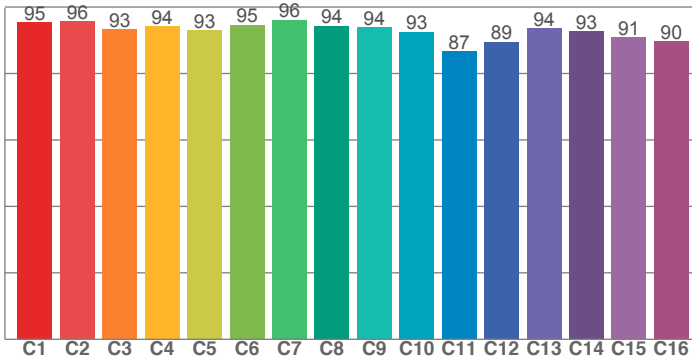
Power



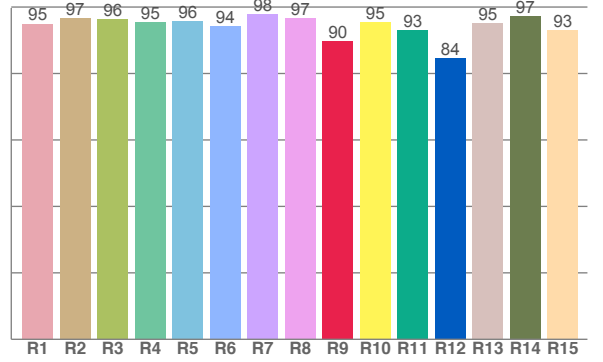
Color Details



TM30: 92.8



CRI: 95.9 (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
94.9	96.6	96.2	95.4	95.8	94.1	97.8	96.6	89.7	95.4	93.0	84.5	95.1	97.2	92.9

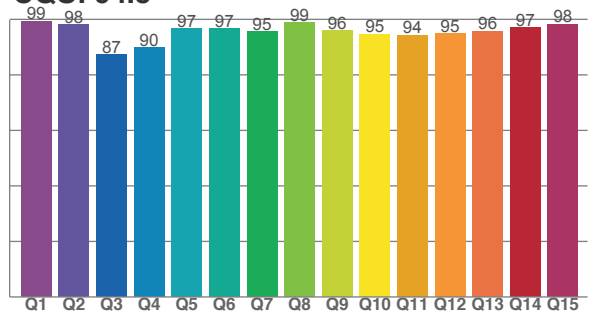
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95.4	95.6	93.3	94.2	92.9	94.6	96.2	94.3	93.8	92.5	86.6	89.5	93.6	92.7	90.9	89.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
99.4	98.0	87.3	89.7	96.7	96.7	95.5	98.8	96.0	94.7	94.3	94.8	95.7	96.9	98.3

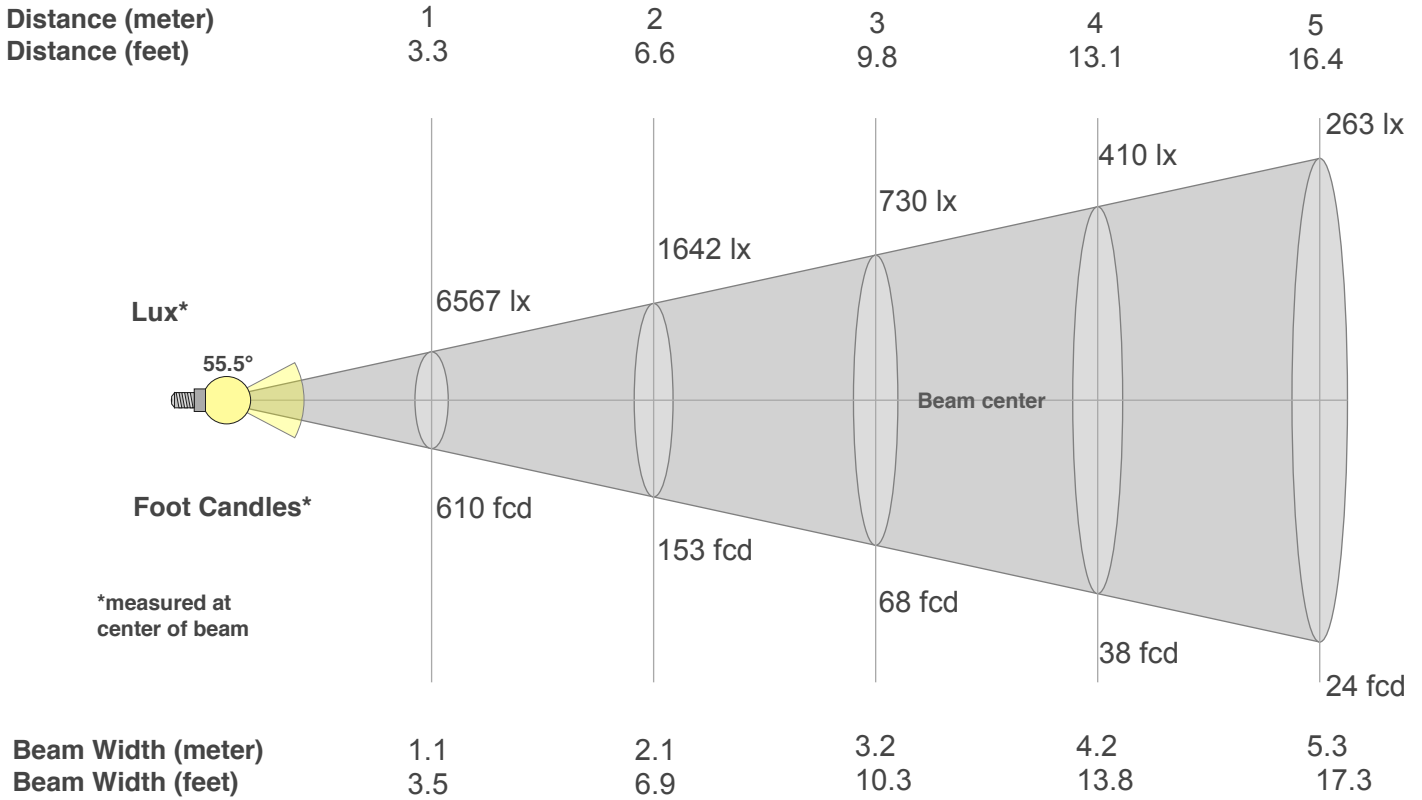
CQS: 94.5



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
4180 K	95.9	89.7	92.8	103.8	94.5	0.368	0.350	0.228	0.325	-0.0092

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	6567	1642	730	410	263	182	134	103	81	66	54	46	39	34	29	26	23	20	18	16
fcd	610.1	152.5	67.8	38.1	24.4	16.9	12.5	9.5	7.5	6.1	5	4.2	3.6	3.1	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°
6567	6543	6451	6309	6120	5887	5622	5337	5035	4722	4415	4109	3809	3522	3253	3003	2774	2567	2156	1675
100%	100%	98%	96%	93%	90%	86%	81%	77%	72%	67%	63%	58%	54%	50%	46%	42%	39%	33%	26%

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°
6567	6543	6451	6309	6120	5887	5622	5337	5035	4722	4415	4109	3809	3522	3253	3003	2774	2567	2156	1675
100%	100%	98%	96%	93%	90%	86%	81%	77%	72%	67%	63%	58%	54%	50%	46%	42%	39%	33%	26%

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°
6567	6522	6426	6283	6084	5844	5582	5303	5003	4697	4393	4094	3800	3520	3255	3006	2784	2498	2088	1593
100%	99%	98%	96%	93%	89%	85%	81%	76%	72%	67%	62%	58%	54%	50%	46%	42%	38%	32%	24%

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°
6567	6522	6426	6283	6084	5844	5582	5303	5003	4697	4393	4094	3800	3520	3255	3006	2784	2498	2088	1593
100%	99%	98%	96%	93%	89%	85%	81%	76%	72%	67%	62%	58%	54%	50%	46%	42%	38%	32%	24%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
55.5°	84.1°	103.4°	98.9%	95.2%

COB Cannon Wash ST DW



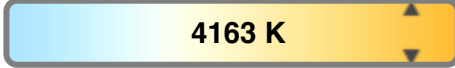
Light Efficiency:



Light Quality:



Color Temperature:



Output: 6101 lm

Peak: 7171 cd

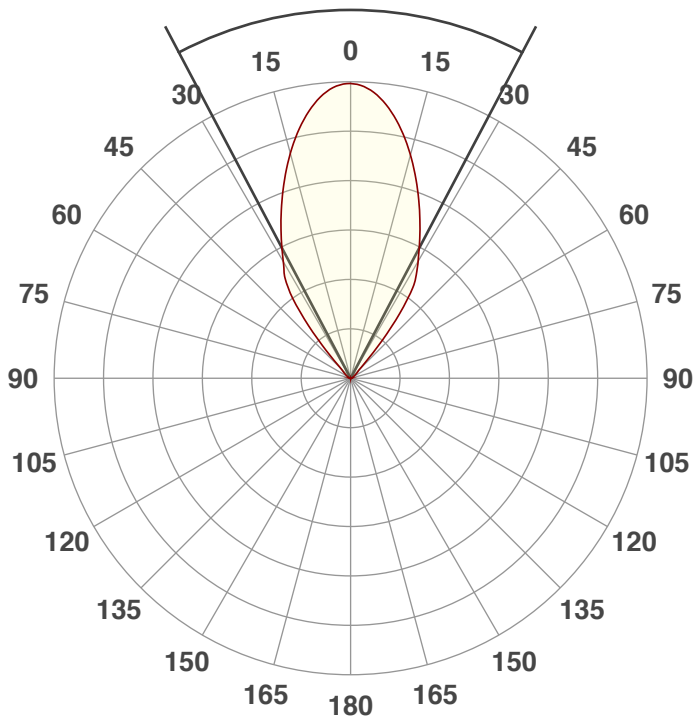
Power: 165 W

PF: 0.99



Beam Angle

55.6°



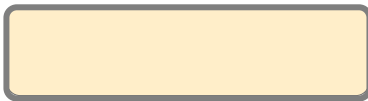
Test:

Full On

Date:

9/28/2018

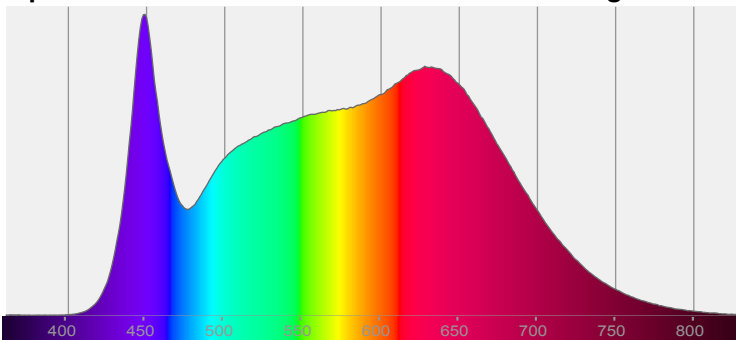
Note:



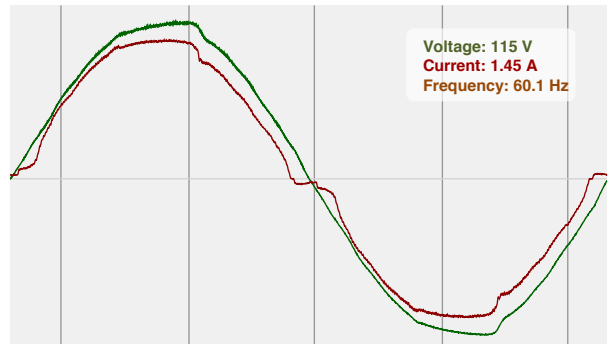
CIE 1931
x: 0.369
y: 0.354

Spectra

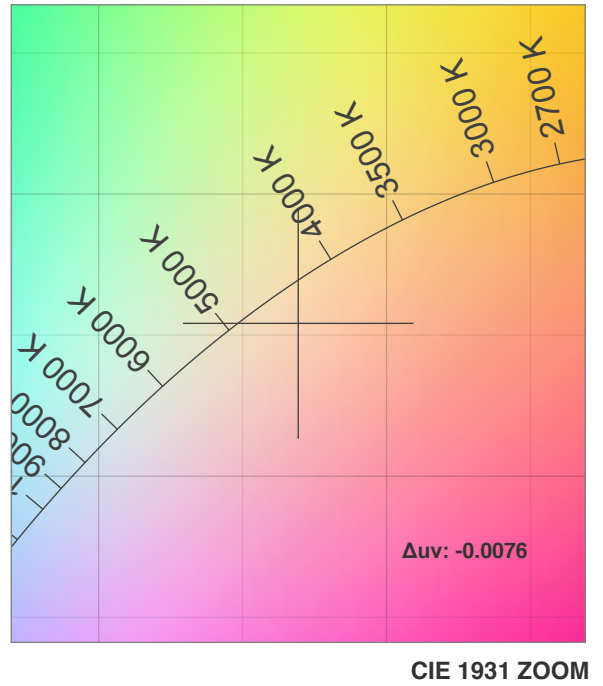
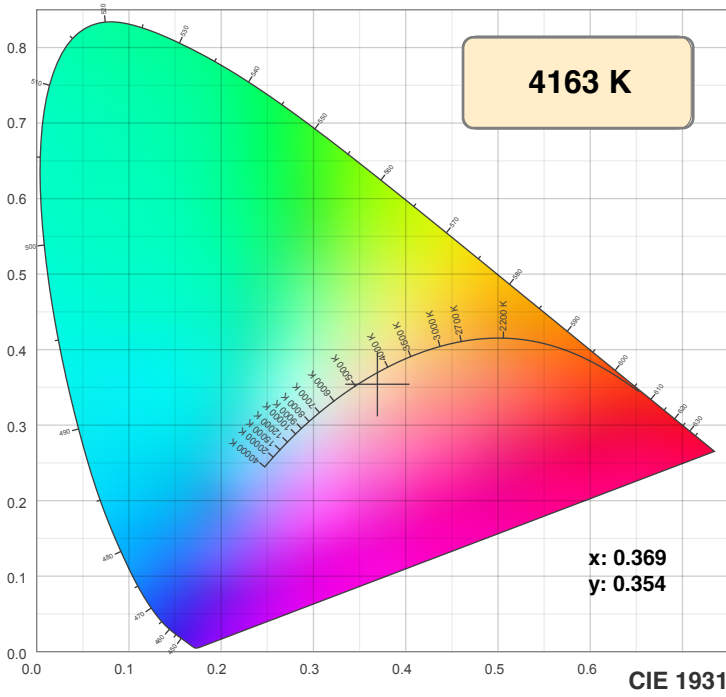
Dominant Wavelength: 588nm



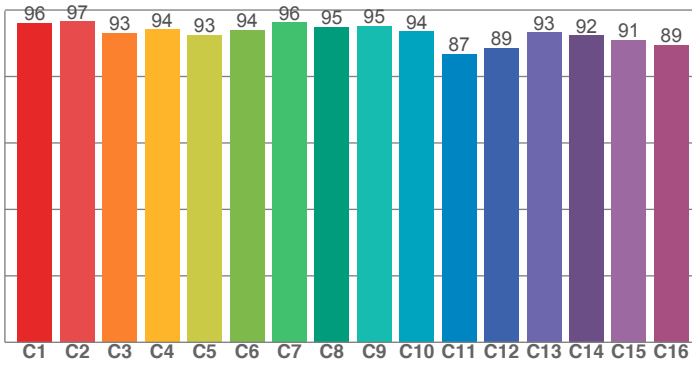
Power



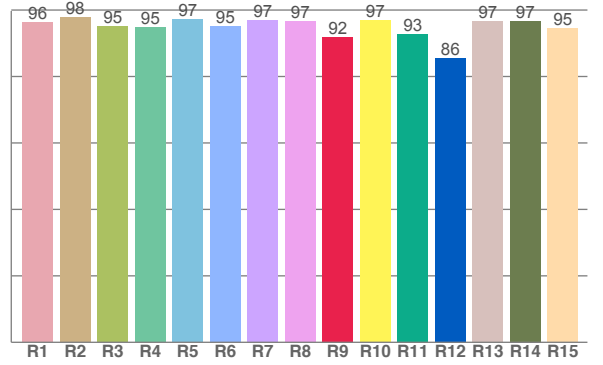
Color Details



TM30: 93.0



CRI: 96.2 (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
96.3	97.8	95.1	94.8	97.2	95.1	97.0	96.5	91.9	96.8	92.7	85.5	96.6	96.6	94.5

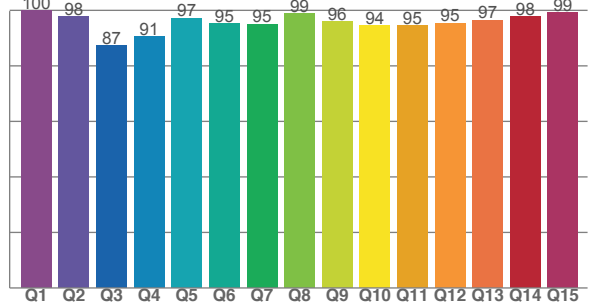
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96.1	96.6	93.2	94.2	92.5	94.0	96.3	94.9	95.2	93.5	86.8	88.6	93.2	92.4	91.0	89.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
99.9	97.7	87.3	90.6	97.2	95.3	95.0	98.9	96.0	94.5	94.5	95.4	96.5	97.7	99.2

CQS: 94.7



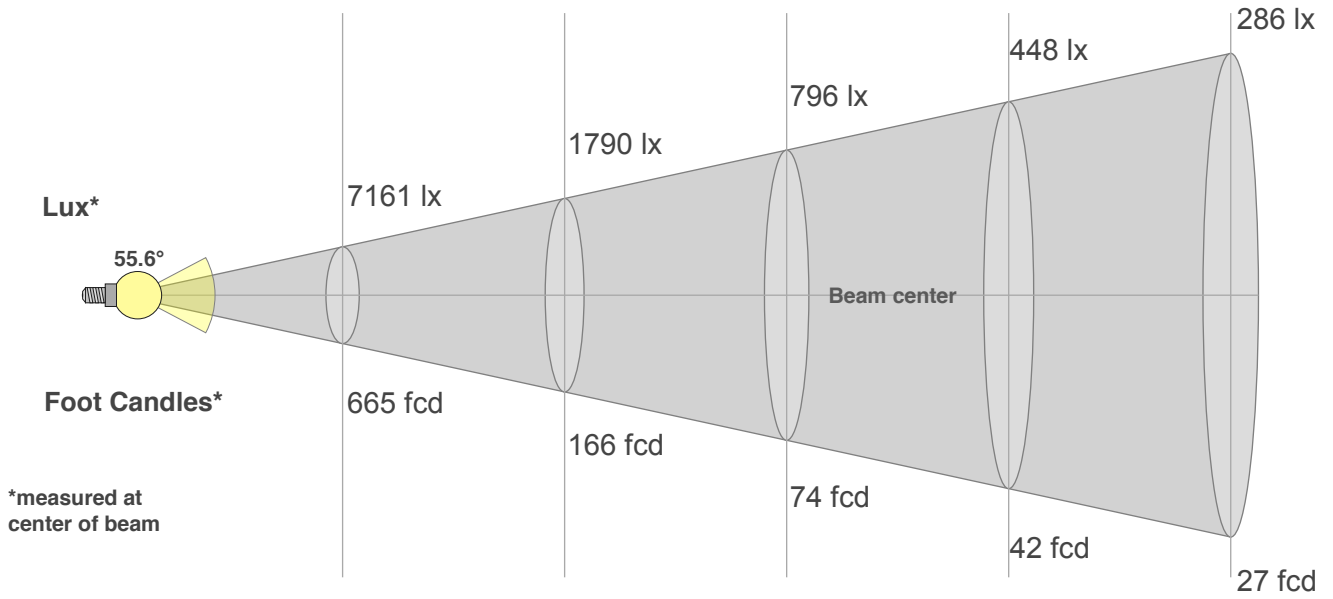
Color Parameters

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
4163 K	96.2	91.9	93.0	104.1	94.7	0.369	0.354	0.227	0.326	-0.0076

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)

1.1 2.1 3.2 4.2 5.3
3.5 7 10.3 13.8 17.3

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	7161	1790	796	448	286	199	146	112	88	72	59	50	42	37	32	28	25	22	20	18
fcd	665.2	166.3	73.9	41.6	26.6	18.5	13.6	10.4	8.2	6.7	5.5	4.6	3.9	3.4	3	2.6	2.3	2.1	1.8	1.7

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°
7161	7132	7046	6895	6676	6423	6141	5829	5499	5163	4824	4492	4169	3857	3556	3281	3046	2765	2383	1827
100%	100%	98%	96%	93%	90%	86%	81%	77%	72%	67%	63%	58%	54%	50%	46%	43%	39%	33%	26%

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°
7161	7132	7046	6895	6676	6423	6141	5829	5499	5163	4824	4492	4169	3857	3556	3281	3046	2765	2383	1827
100%	100%	98%	96%	93%	90%	86%	81%	77%	72%	67%	63%	58%	54%	50%	46%	43%	39%	33%	26%

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°
7161	7131	7016	6849	6638	6386	6095	5785	5461	5129	4797	4470	4150	3845	3556	3286	3029	2744	2281	1743
100%	100%	98%	96%	93%	89%	85%	81%	76%	72%	67%	62%	58%	54%	50%	46%	42%	38%	32%	24%

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°
7161	7131	7016	6849	6638	6386	6095	5785	5461	5129	4797	4470	4150	3845	3556	3286	3029	2744	2281	1743
100%	100%	98%	96%	93%	89%	85%	81%	76%	72%	67%	62%	58%	54%	50%	46%	42%	38%	32%	24%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
55.6°	84.2°	103.3°	98.9%	95.2%

COB Cannon Wash ST DW



Light Efficiency:



Light Quality:



Color Temperature:



Output: 3551 lm

Peak: 4175 cd

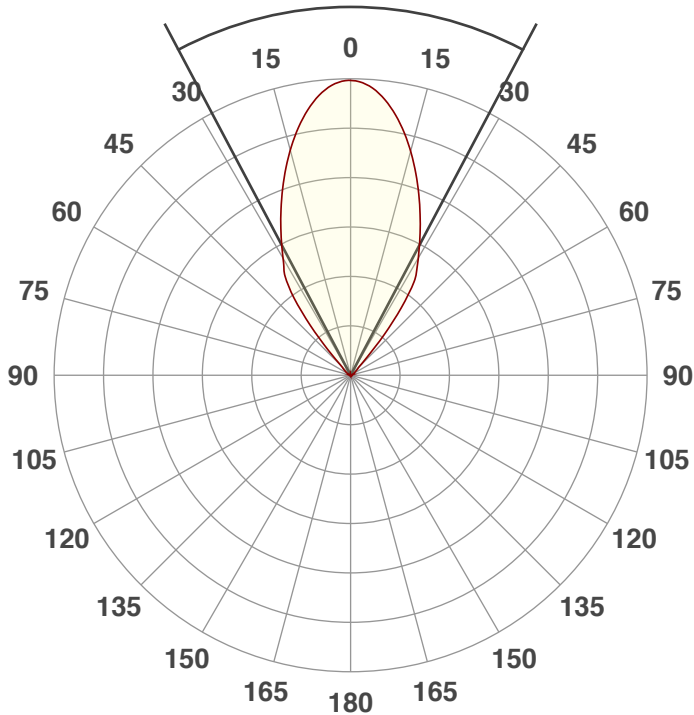
Power: 82.7 W

PF: 0.98



Beam Angle

55.8°



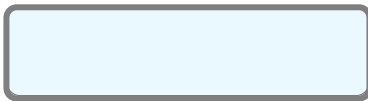
Test:

CW

Date:

9/28/2018

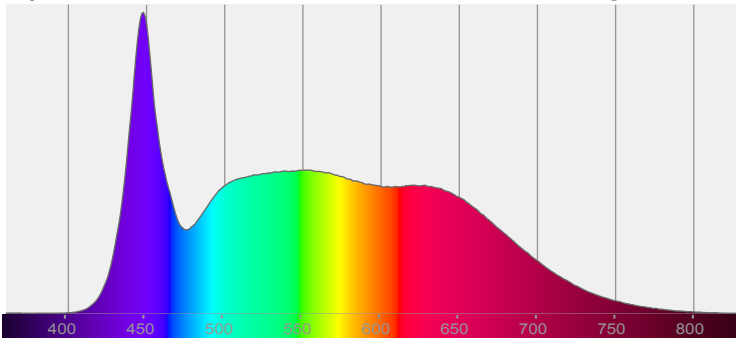
Note:



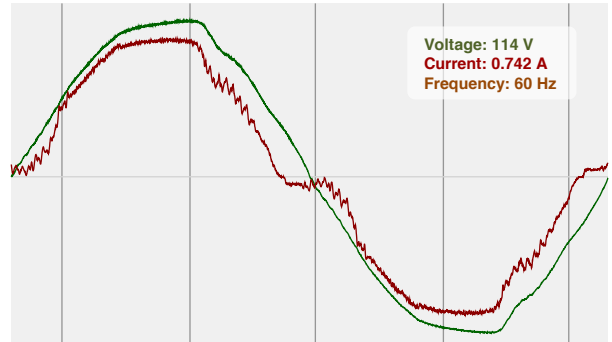
CIE 1931
x: 0.323
y: 0.327

Spectra

Dominant Wavelength: 829nm

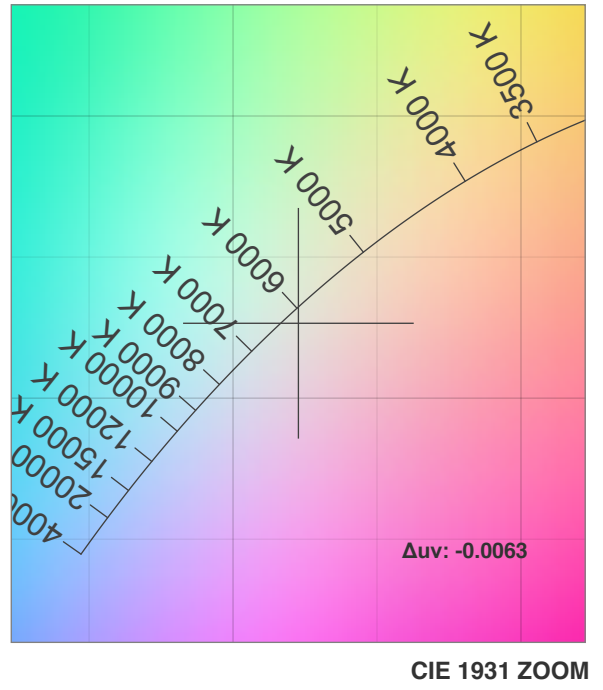
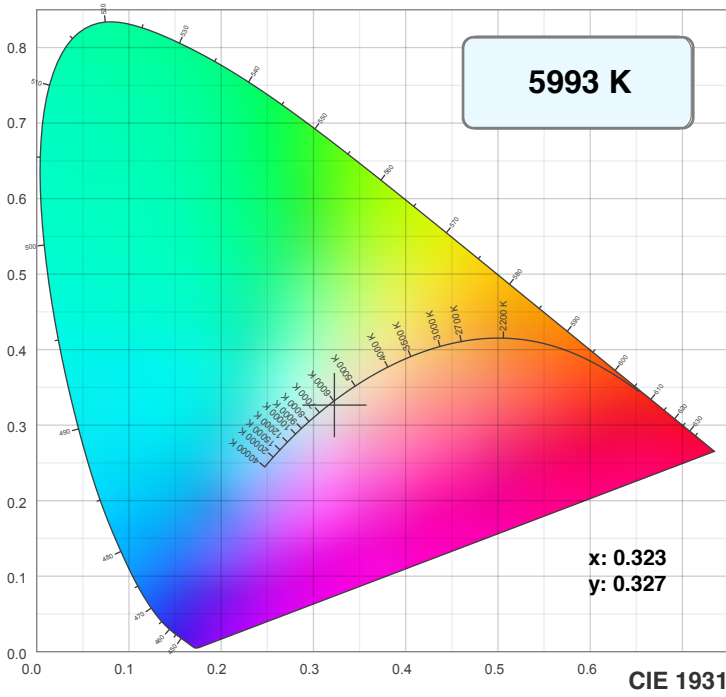


Power

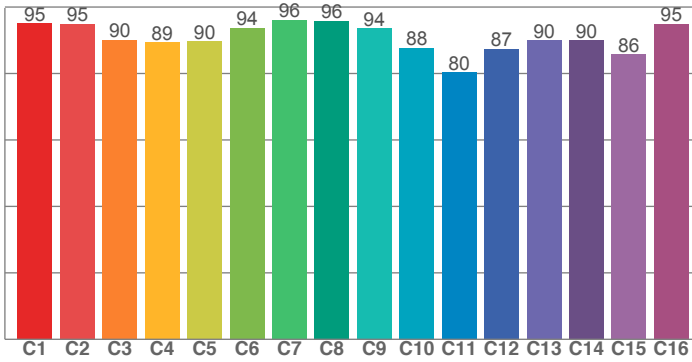


Voltage: 114 V
Current: 0.742 A
Frequency: 60 Hz

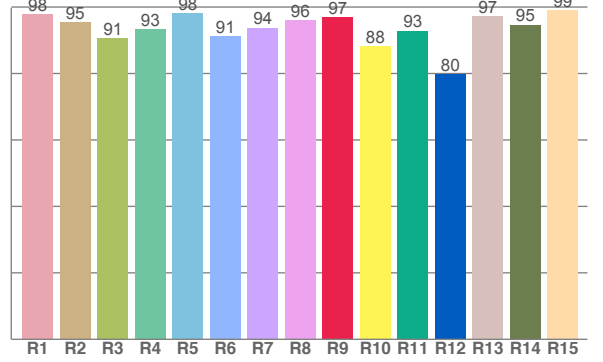
Color Details



TM30: 90.7



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
97.9	95.3	90.7	93.4	98.0	91.3	93.8	95.9	96.8	88.3	92.9	79.8	97.2	94.7	99.1

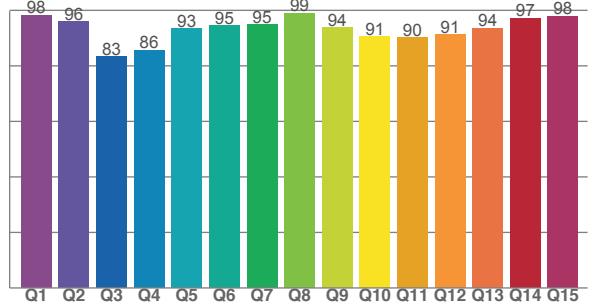
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95.1	94.9	90.2	89.4	89.6	93.7	96.1	95.8	93.6	87.7	80.2	87.4	90.0	90.0	85.7	95.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98.3	95.8	83.3	85.6	93.4	94.5	94.8	99.0	93.8	90.5	90.1	91.3	93.6	97.2	97.9

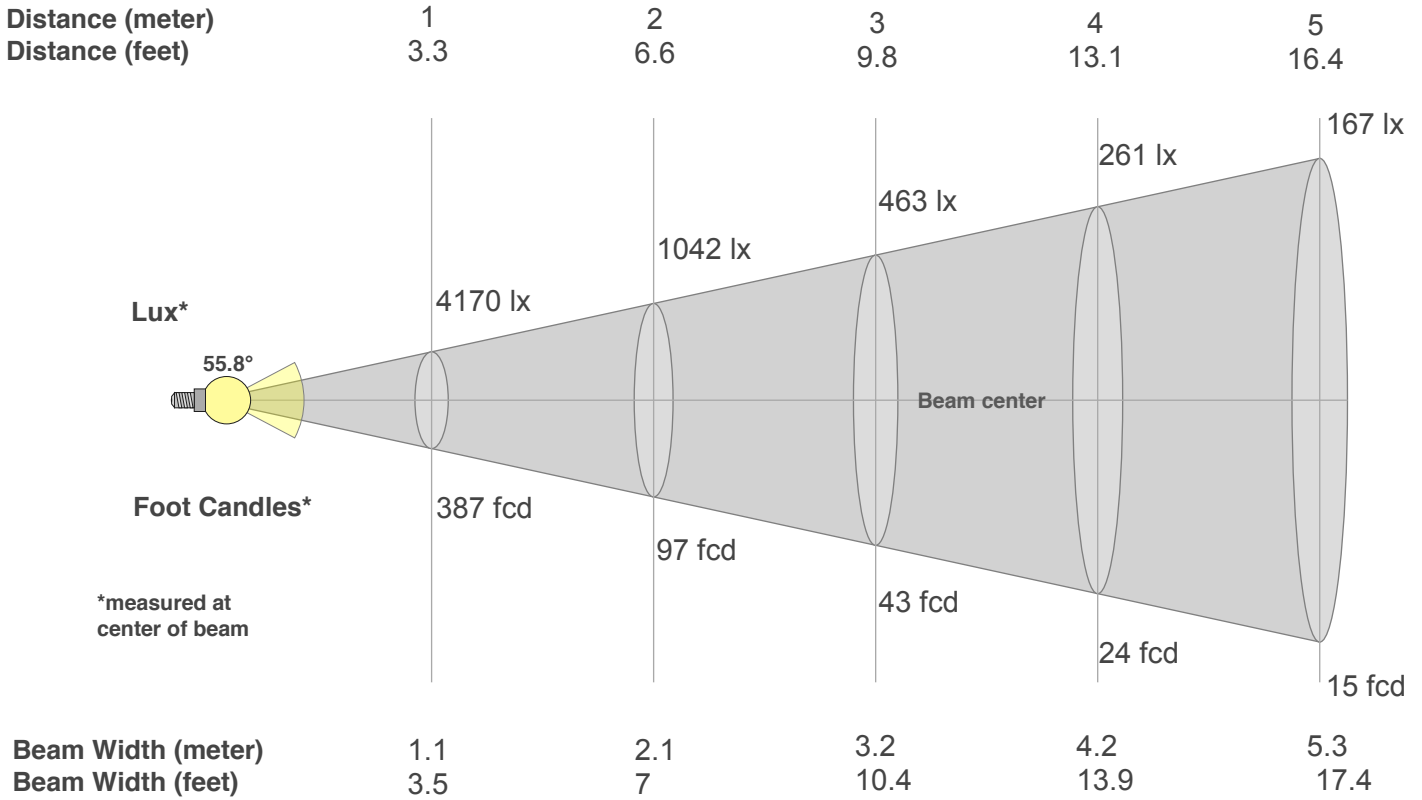
CQS: 92.0



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
5993 K	94.5	96.8	90.7	103.5	92.0	0.323	0.327	0.206	0.312	-0.0063

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	4170	1042	463	261	167	116	85	65	51	42	34	29	25	21	19	16	14	13	12	10
fcd	387.4	96.8	43	24.2	15.5	10.8	7.9	6.1	4.8	3.9	3.2	2.7	2.3	2	1.7	1.5	1.3	1.2	1.1	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°
4170	4154	4104	4012	3887	3741	3577	3395	3205	3011	2815	2622	2434	2252	2077	1918	1778	1623	1383	1064
100%	100%	98%	96%	93%	90%	86%	81%	77%	72%	68%	63%	58%	54%	50%	46%	43%	39%	33%	26%

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°
4170	4154	4104	4012	3887	3741	3577	3395	3205	3011	2815	2622	2434	2252	2077	1918	1778	1623	1383	1064
100%	100%	98%	96%	93%	90%	86%	81%	77%	72%	68%	63%	58%	54%	50%	46%	43%	39%	33%	26%

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°
4170	4152	4092	3994	3870	3726	3559	3378	3190	2997	2803	2612	2425	2247	2078	1920	1768	1614	1332	1016
100%	100%	98%	96%	93%	89%	85%	81%	77%	72%	67%	63%	58%	54%	50%	46%	42%	39%	32%	24%

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°
4170	4152	4092	3994	3870	3726	3559	3378	3190	2997	2803	2612	2425	2247	2078	1920	1768	1614	1332	1016
100%	100%	98%	96%	93%	89%	85%	81%	77%	72%	67%	63%	58%	54%	50%	46%	42%	39%	32%	24%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
55.8°	84.1°	102.8°	99.1%	95.4%

COB Cannon Wash ST DW



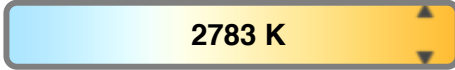
Light Efficiency:



Light Quality:



Color Temperature:



Output: 2525 lm

Peak: 2992 cd

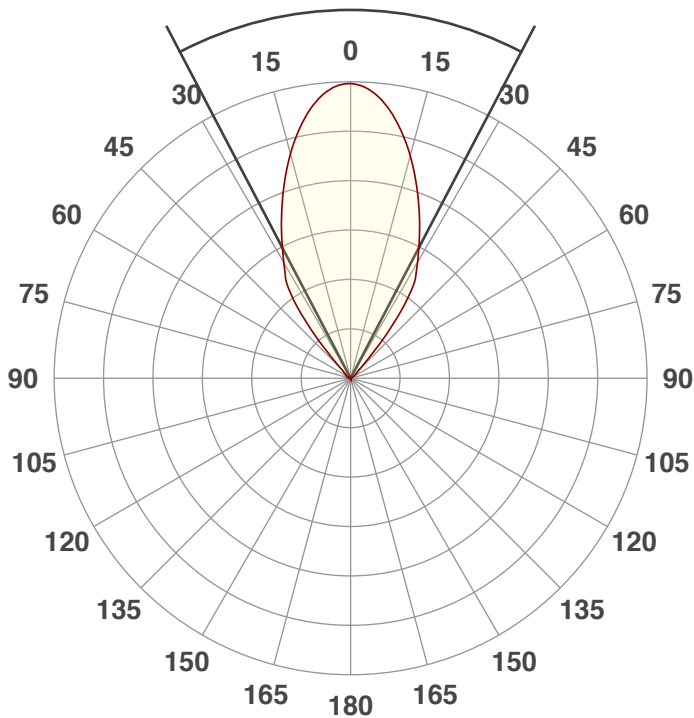
Power: 81.8 W

PF: 0.98



Beam Angle

55.2°



Test:

WW

Date:

9/28/2018

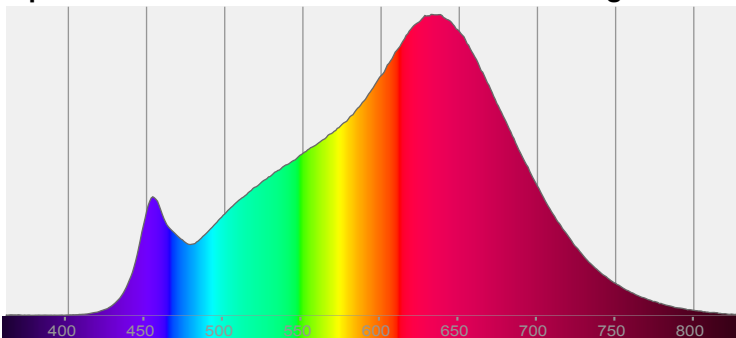
Note:



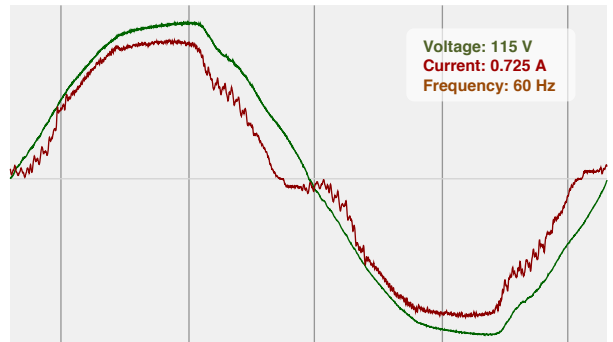
CIE 1931
x: 0.449
y: 0.402

Spectra

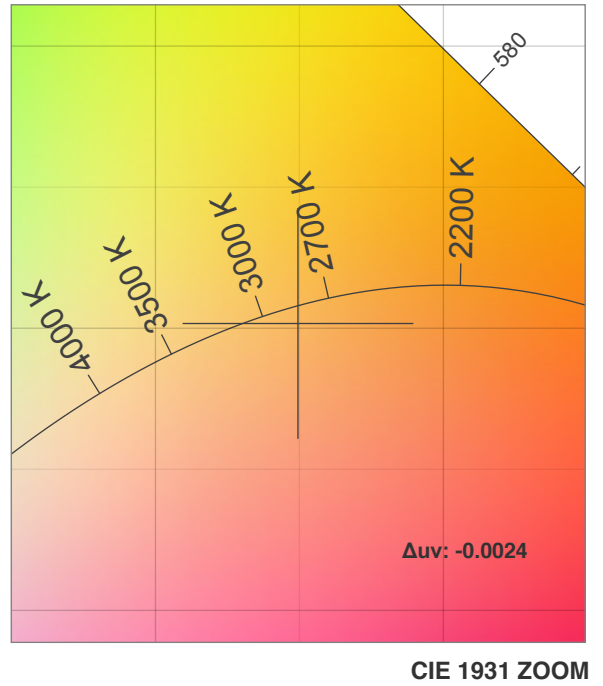
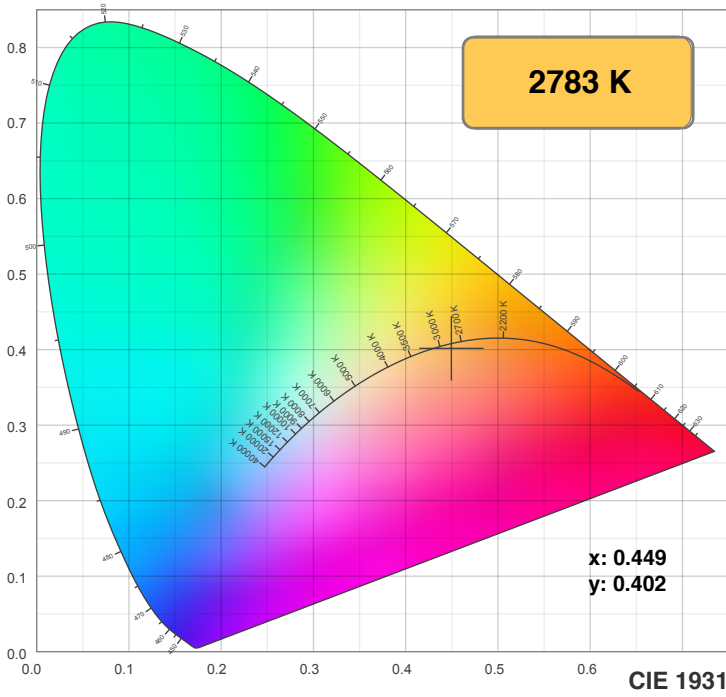
Dominant Wavelength: 585nm



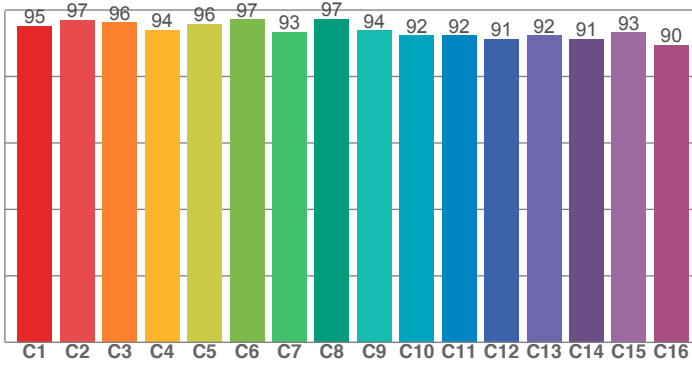
Power



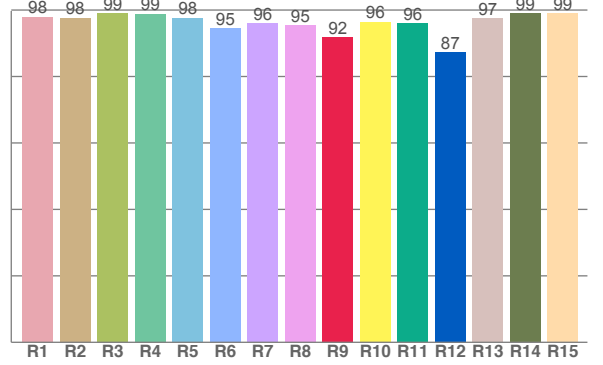
Color Details



TM30: 94.1



CRI: 97.2 (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
97.9	97.7	99.1	98.9	97.6	94.5	96.0	95.5	91.8	96.5	95.9	87.4	97.5	99.0	99.0

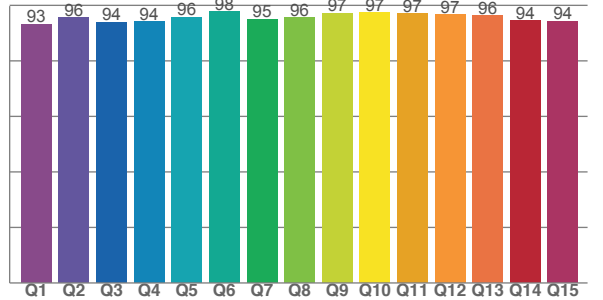
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95.3	97.0	96.3	94.0	95.9	97.1	93.4	97.4	93.9	92.4	92.3	91.2	92.3	91.3	93.3	89.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93.3	95.6	94.0	94.1	95.8	97.7	95.1	95.5	97.3	97.3	97.1	96.7	96.2	94.4	94.3

CQS: 95.3



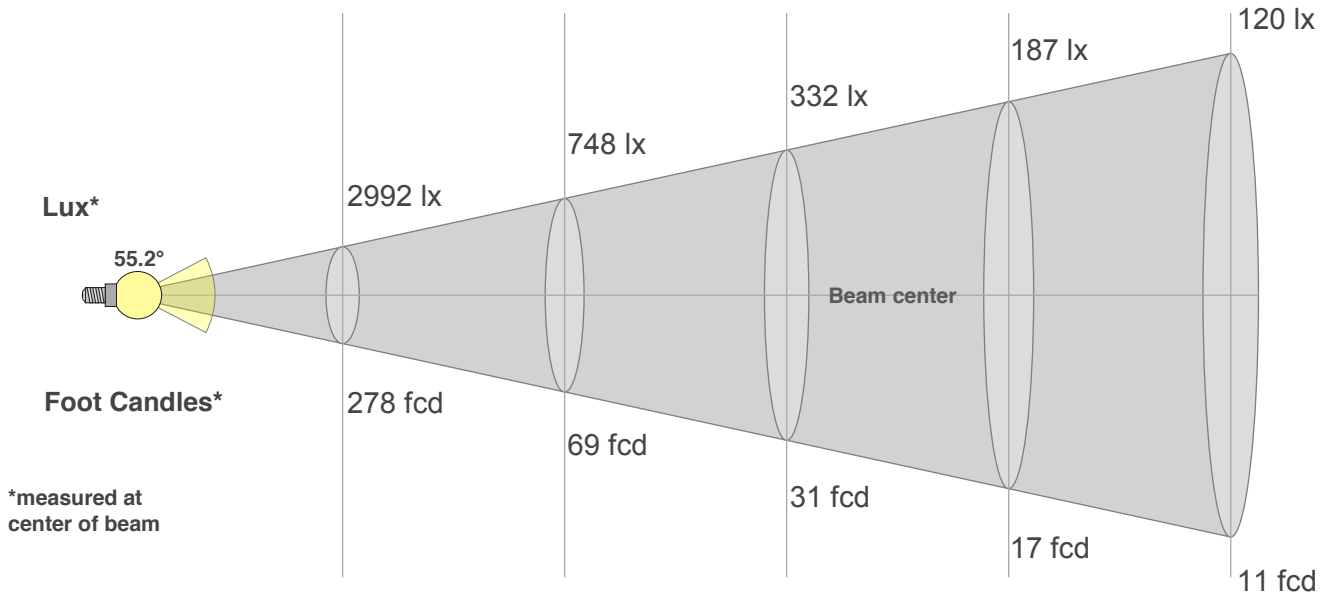
Color Parameters

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
2783 K	97.2	91.8	94.1	100.7	95.3	0.449	0.402	0.260	0.348	-0.0024

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)

1 2.1 3.1 4.2 5.2
3.5 6.9 10.3 13.7 17.2

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	2992	748	332	187	120	83	61	47	37	30	25	21	18	15	13	12	10	9	8	7
fcd	277.9	69.5	30.9	17.4	11.1	7.7	5.7	4.3	3.4	2.8	2.3	1.9	1.6	1.4	1.2	1.1	1	0.9	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°
2992	2976	2937	2876	2787	2679	2559	2428	2289	2147	2004	1864	1728	1597	1472	1359	1254	1155	977	765
100%	99%	98%	96%	93%	90%	86%	81%	77%	72%	67%	62%	58%	53%	49%	45%	42%	39%	33%	26%

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°
2992	2976	2937	2876	2787	2679	2559	2428	2289	2147	2004	1864	1728	1597	1472	1359	1254	1155	977	765
100%	99%	98%	96%	93%	90%	86%	81%	77%	72%	67%	62%	58%	53%	49%	45%	42%	39%	33%	26%

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°
2992	2968	2922	2856	2764	2654	2534	2407	2270	2131	1992	1856	1724	1595	1472	1361	1251	1140	942	719
100%	99%	98%	95%	92%	89%	85%	80%	76%	71%	67%	62%	58%	53%	49%	45%	42%	38%	31%	24%

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°
2992	2968	2922	2856	2764	2654	2534	2407	2270	2131	1992	1856	1724	1595	1472	1361	1251	1140	942	719
100%	99%	98%	95%	92%	89%	85%	80%	76%	71%	67%	62%	58%	53%	49%	45%	42%	38%	31%	24%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
55.2°	84.1°	102.4°	99.1%	95.5%