

STR9-300-CM-15W-4000K-60x30-ELV

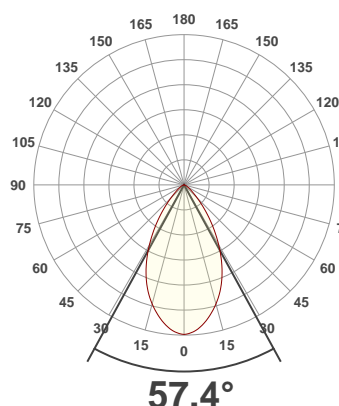
PRODUCT PHOTOMETRIC REPORT



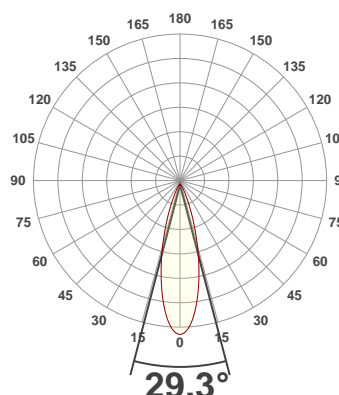
PRODUCT INFORMATION

SERIAL NUMBER:	LL-20190821-533-BMS
DATE OF MEASUREMENT:	2019-08-21
SIZE (mm): (L x W x H)	298 x 71 x 59.5

ANGULAR DISTRIBUTION AT C0/180



ANGULAR DISTRIBUTION AT C90/270



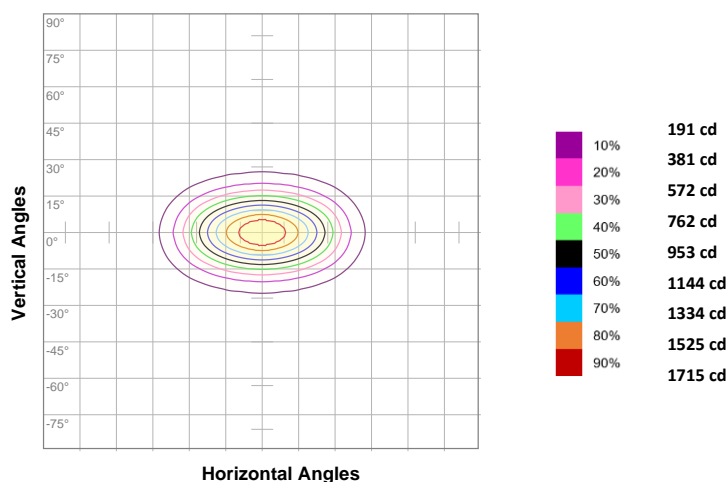
LIGHT OUTPUT DATA

TOTAL LUMEN OUTPUT:	1110 lm
EFFICACY:	73 lm/W
PEAK INTENSITY:	1909 cd
COLOR RENDERING INDEX (CRI):	83.8
COLOR TEMPERATURE (CCT):	3746K
FIDELITY INDEX (TM30Rf):	84.6
GAMUT INDEX (TM30Rg):	93.6

BEAM OUTPUT DATA

BEAM ANGLE (FWHM) C0/180:	57.4°
BEAM ANGLE (FWHM) C90/270:	29.3°
FIELD ANGLE (10%) C0/180:	94.3°
FIELD ANGLE (10%) C90/270:	55.6°
NUMBER OF PLANES MEASURED:	36

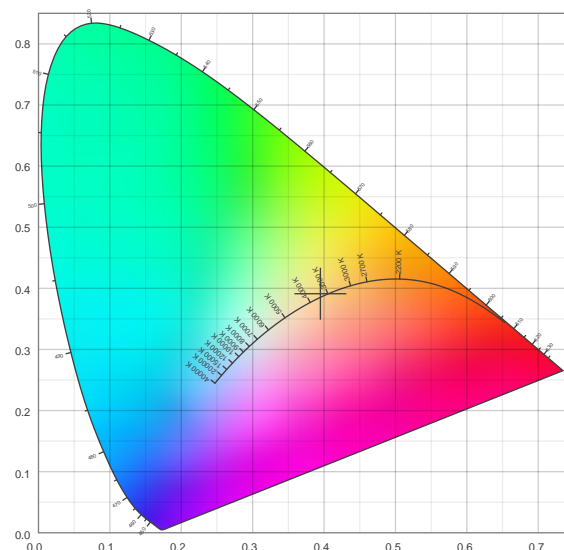
ISO CANDELA DIAGRAM



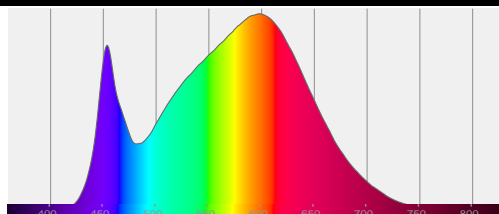
DATA

INPUT POWER:	15.2 W
POWER FACTOR:	1.0
OPTICAL POWER:	3.36 mW
PEAK WAVELENGTH:	598 nm
DOMINANT WAVELENGTH:	581 nm

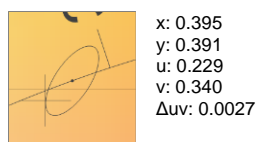
CIE 1931:



SPECTRA

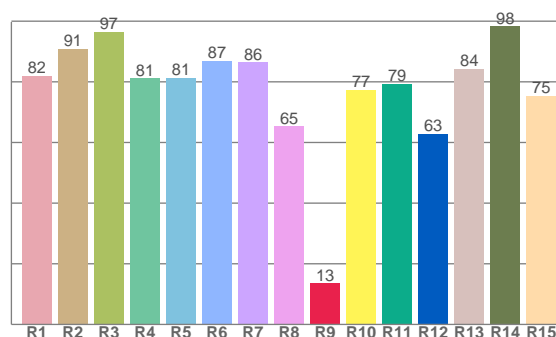
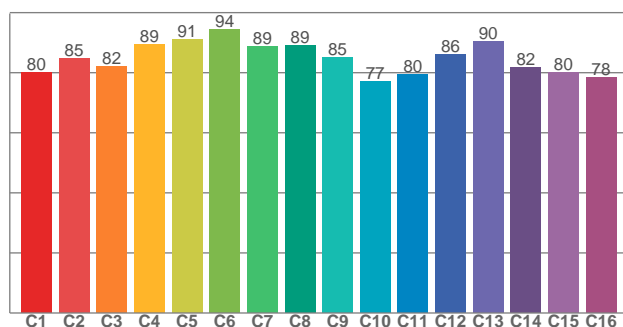


CIE 1931 ZOOM



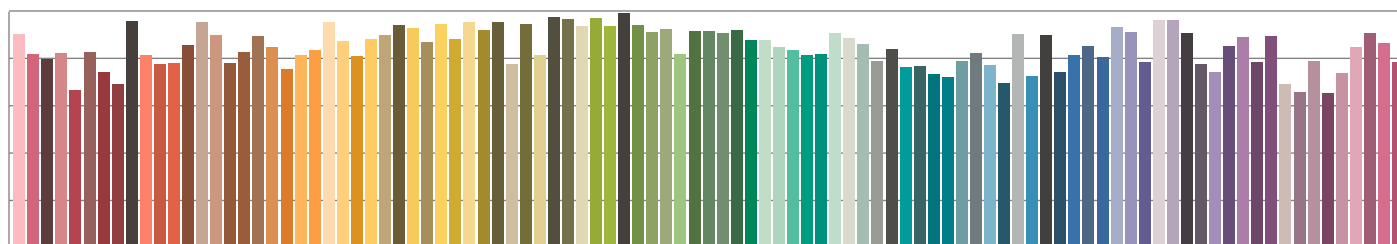
ZONAL LUMEN SUMMARY

0°-10° 164 lm	10°-20° 336 lm	20°-30° 286 lm	30°-40° 168 lm	40°-50° 82.4 lm	50°-60° 41.5 lm	60°-70° 22.2 lm	70°-80° 9.27 lm	80°-90° 1.16 lm
90°-100° 0.073 lm	100°-110° 0.065 lm	110°-120° 0.036 lm	120°-130° 0.026 lm	130°-140° 0.019 lm	140°-150° 0.012 lm	150°-160° 0.009 lm	160°-170° 0.005 lm	170°-180° 0.002 lm

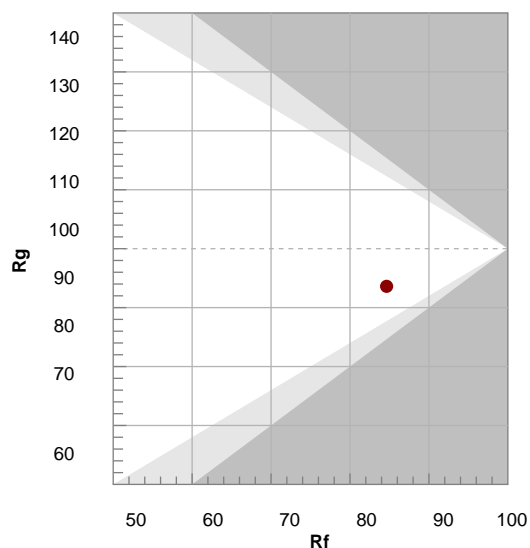
COLOR DETAILS
TM30: 84.6
CRI: 83.8 (R1-R8)

TM30 C values, 16 binned values out of total of 99 C values
CRI R values, only R1-R8 are used to calculate final CRI value

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80.2	84.6	82.0	89.3	91.1	94.3	88.8	89.1	85.1	77.0	79.5	86.1	90.3	81.9	80.1	78.3

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82.0	90.7	96.5	81.1	81.3	86.9	86.4	65.3	13.5	77.3	79.2	62.8	84.3	98.2	75.2

TM30 COLOR EVALUATION SAMPLE

TM30 DETAILS

Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	80	-11%	0%
2	85	-7%	5%
3	82	-4%	8%
4	89	-2%	4%
5	91	-3%	2%
6	94	-2%	-2%
7	89	-7%	-1%
8	89	-6%	2%
9	85	-6%	8%
10	77	-4%	15%
11	80	3%	14%
12	86	6%	3%
13	90	3%	-5%
14	82	5%	-14%
15	80	-3%	-13%
16	78	-7%	-11%

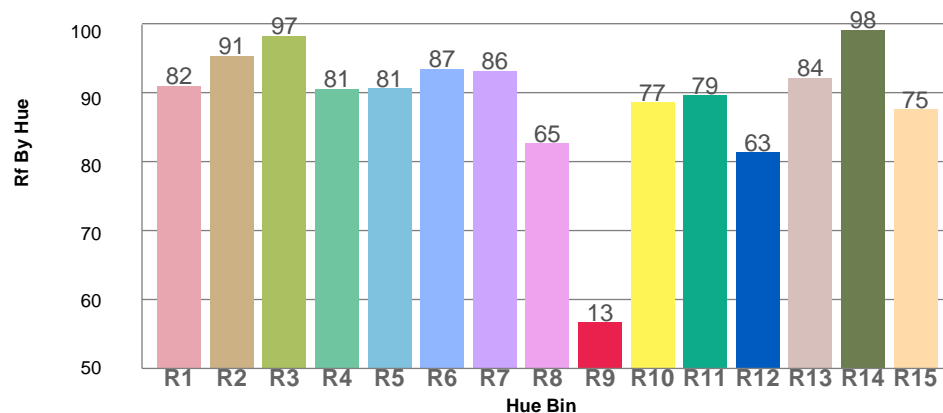


FIDELITY INDEX
Rf 84.6

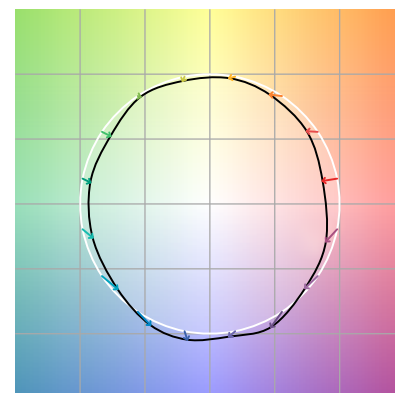
GAMUT INDEX
Rg 93.6

Approx. limits for sources on the Planckian locus.
Approx. limits for practical light sources.

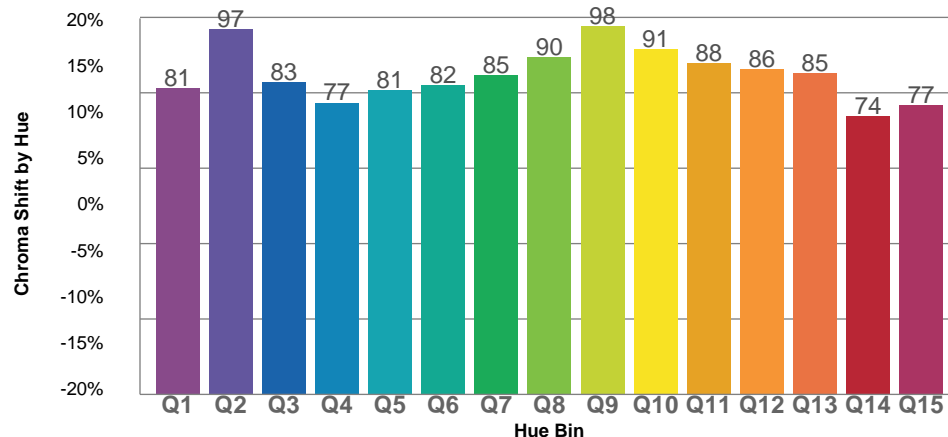
TM30 OVER 50



COLOR VECTOR GRAPHICS

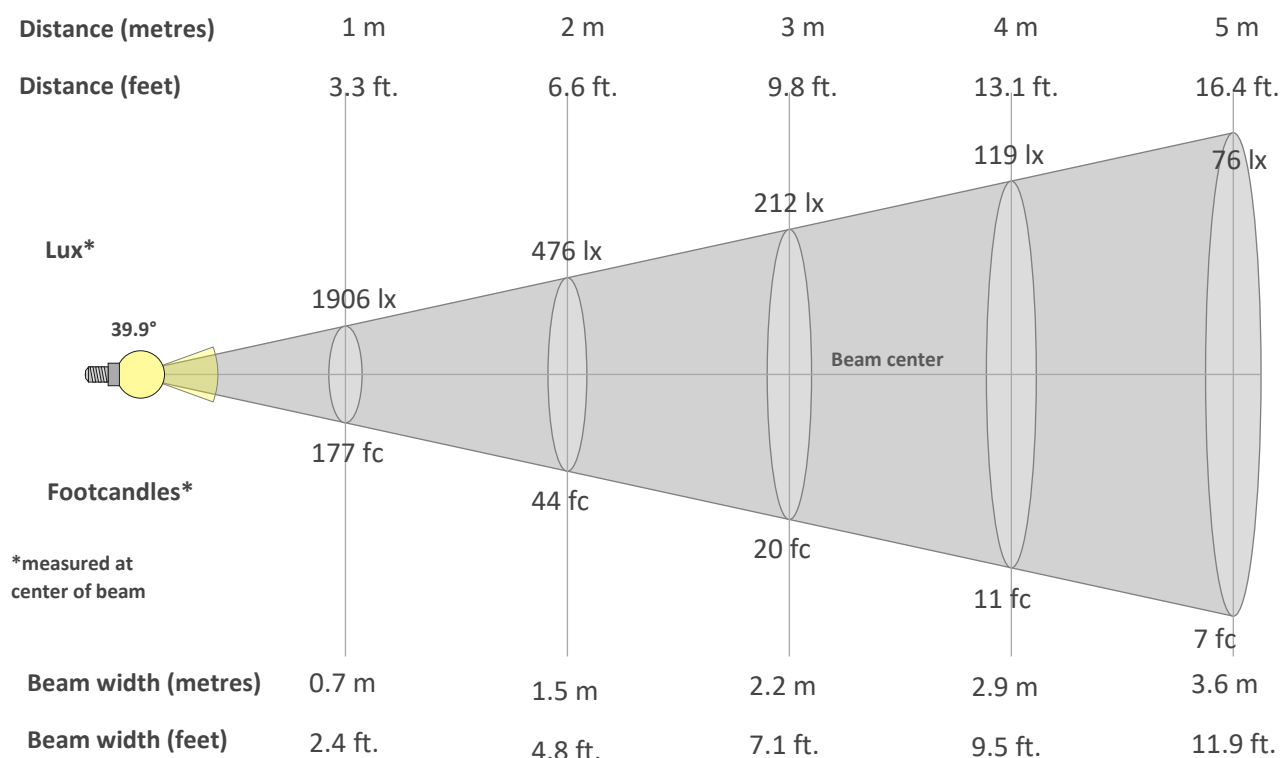


TM30 CHROMA SHIFT



COLOR DISTORTION GRAPHICS



BEAM DETAILS

Beam intensity from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
1906lx	476lx	212lx	119lx	76lx	53lx	39lx	30lx	24lx	19lx	16lx	13lx	11lx	10lx	8lx	7lx	7lx	6lx	5lx	5lx
177.1fc	44.3fc	19.7fc	11.1fc	7.1fc	4.9fc	3.6fc	2.8fc	2.2fc	1.8fc	1.5fc	1.2fc	1fc	0.9fc	0.8fc	0.7fc	0.6fc	0.5fc	0.5fc	0.4fc

Intensity in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1906	1897	1874	1837	1790	1735	1674	1609	1538	1462	1379	1289	1193	1093	989	885	781	681	584	493
100%	100%	98%	96%	94%	91%	88%	84%	81%	77%	72%	68%	63%	57%	52%	46%	41%	36%	31%	26%

Intensity in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1906	1881	1803	1686	1538	1368	1189	1009	836	674	533	413	315	242	186	147	118	98	83	71
100%	99%	95%	88%	81%	72%	62%	53%	44%	35%	28%	22%	17%	13%	10%	8%	6%	5%	4%	4%

Intensity in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1906	1897	1874	1837	1790	1735	1674	1609	1538	1462	1379	1289	1193	1093	989	885	781	681	584	493
100%	100%	98%	96%	94%	91%	88%	84%	81%	77%	72%	68%	63%	57%	52%	46%	41%	36%	31%	26%

Intensity in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1906	1881	1803	1686	1538	1368	1189	1009	836	674	533	413	315	242	186	147	118	98	83	71
100%	99%	95%	88%	81%	72%	62%	53%	44%	35%	28%	22%	17%	13%	10%	8%	6%	5%	4%	4%