

STR9-300-CM-15W-4000K-100-ELV

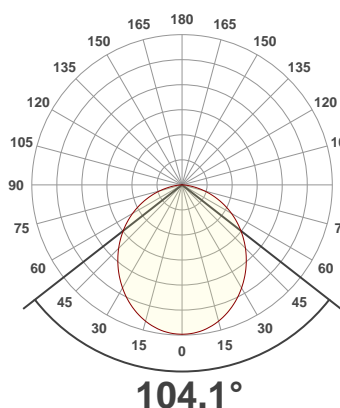
PRODUCT PHOTOMETRIC REPORT



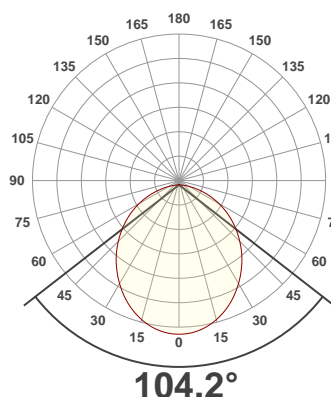
PRODUCT INFORMATION

SERIAL NUMBER:	LL-20190822-538-BMS
DATE OF MEASUREMENT:	2019-08-22
SIZE (mm): (L x W x H)	298 x 71 x 59.5

ANGULAR DISTRIBUTION AT C0/180



ANGULAR DISTRIBUTION AT C90/270



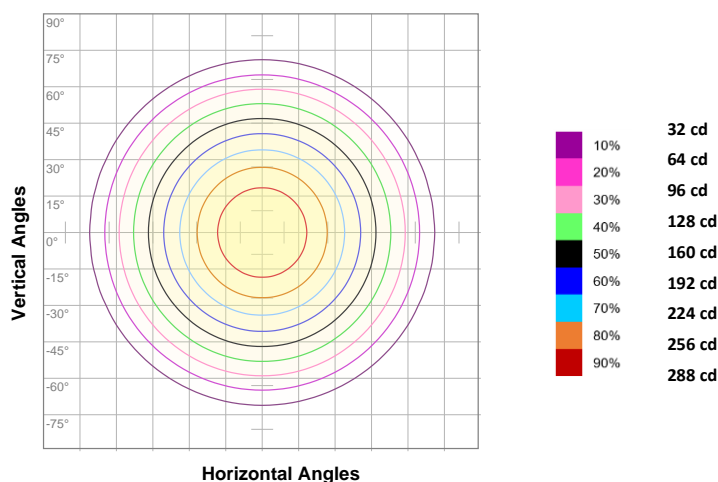
LIGHT OUTPUT DATA

TOTAL LUMEN OUTPUT:	830 lm
EFFICACY:	55 lm/W
PEAK INTENSITY:	320 cd
COLOR RENDERING INDEX (CRI):	83.9
COLOR TEMPERATURE (CCT):	3764K
FIDELITY INDEX (TM30Rf):	84.6
GAMUT INDEX (TM30Rg):	93.6

BEAM OUTPUT DATA

BEAM ANGLE (FWHM) C0/180:	104.1°
BEAM ANGLE (FWHM) C90/270:	104.2°
FIELD ANGLE (10%) C0/180:	157.8°
FIELD ANGLE (10%) C90/270:	158.1°
NUMBER OF PLANES MEASURED:	36

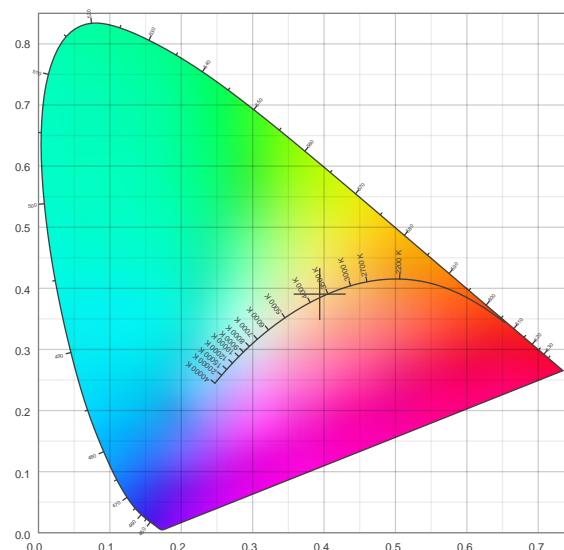
ISO CANDELA DIAGRAM



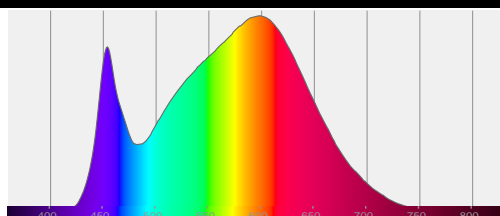
DATA

INPUT POWER:	15.2 W
POWER FACTOR:	1.0
OPTICAL POWER:	2.52 mW
PEAK WAVELENGTH:	599 nm
DOMINANT WAVELENGTH:	581 nm

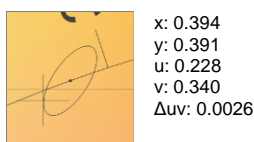
CIE 1931:



SPECTRA

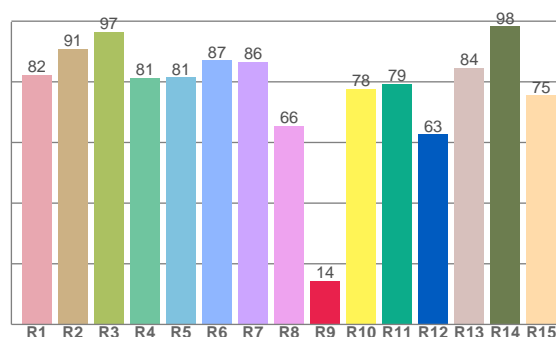
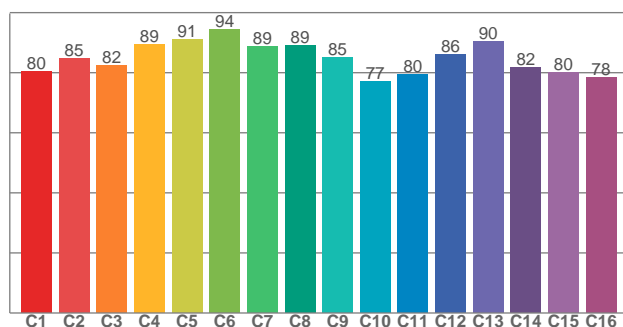


CIE 1931 ZOOM



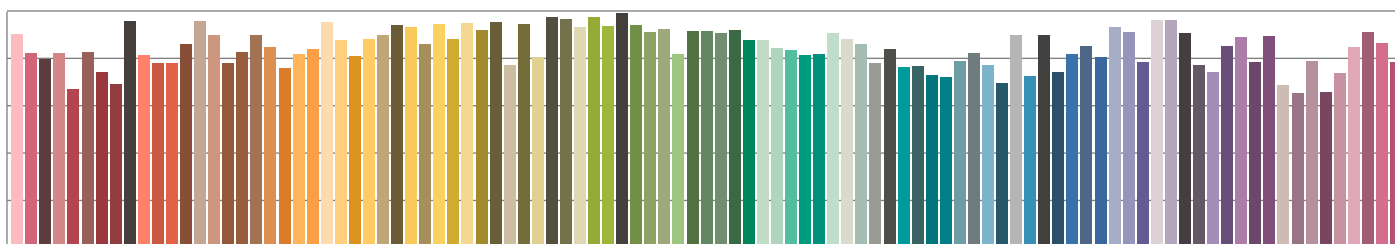
ZONAL LUMEN SUMMARY

0°-10° 30.2 lm	10°-20° 85.2 lm	20°-30° 126 lm	30°-40° 147 lm	40°-50° 148 lm	50°-60° 131 lm	60°-70° 97.3 lm	70°-80° 52.8 lm	80°-90° 12.0 lm
90°-100° 0.072 lm	100°-110° 0.068 lm	110°-120° 0.037 lm	120°-130° 0.028 lm	130°-140° 0.018 lm	140°-150° 0.012 lm	150°-160° 0.009 lm	160°-170° 0.005 lm	170°-180° 0.066 lm

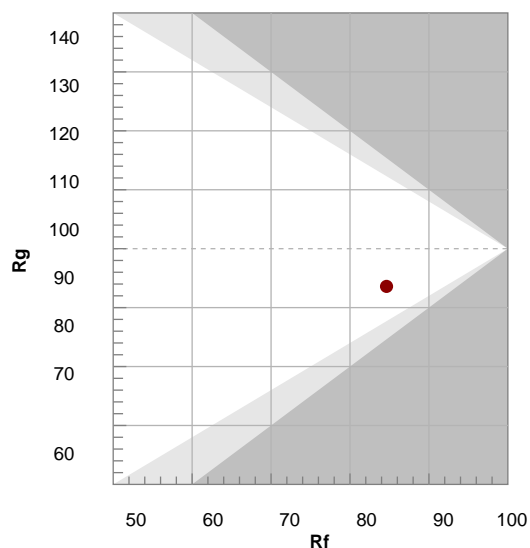
COLOR DETAILS
TM30: 84.6
CRI: 83.9 (R1-R8)

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
80.3	84.8	82.3	89.3	91.0	94.3	88.7	89.0	85.0	76.9	79.5	86.2	90.3	81.8	80.2	78.2

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82.2	90.9	96.6	81.2	81.5	87.1	86.5	65.6	14.2	77.6	79.4	62.7	84.5	98.3	75.5

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%	-6%
14	82	5%	-14%
15	80	-3%	-13%
16	78	-7%	-11%

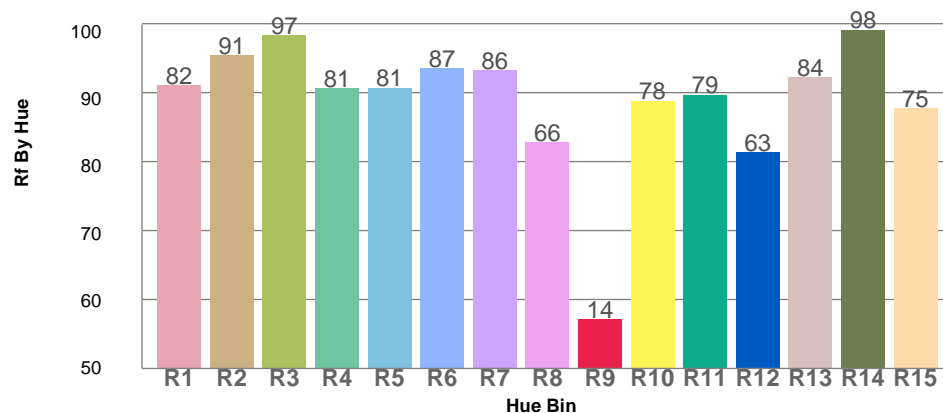


FIDELITY INDEX
 R_f 84.6

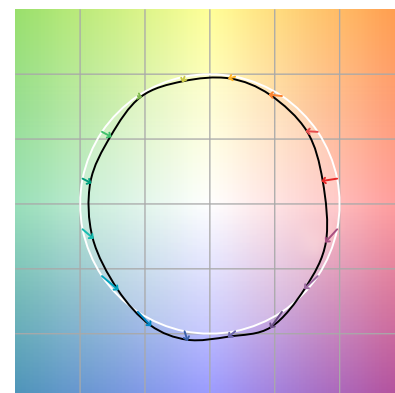
GAMUT INDEX
 R_g 93.6

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

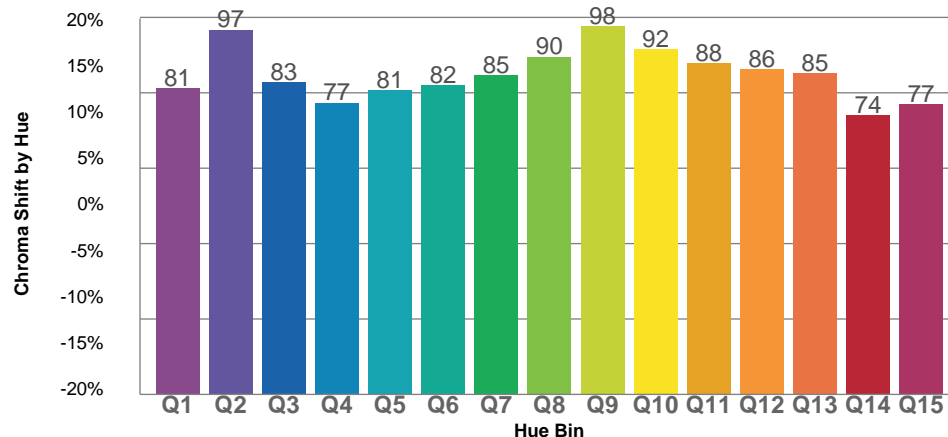
TM30 OVER 50



COLOR VECTOR GRAPHICS



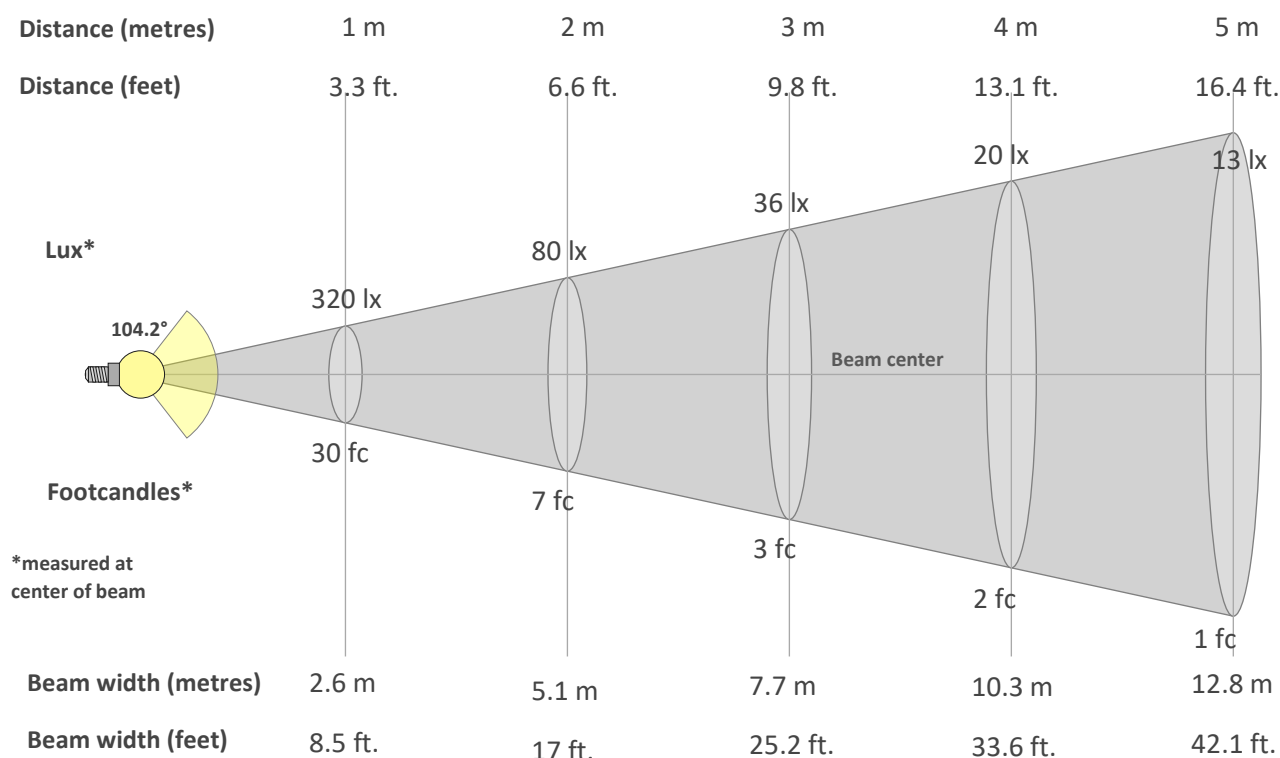
TM30 CHROMA SHIFT



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
320lx	80lx	36lx	20lx	13lx	9lx	7lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx
29.7fc	7.4fc	3.3fc	1.9fc	1.2fc	0.8fc	0.6fc	0.5fc	0.4fc	0.3fc	0.2fc	0.2fc	0.2fc	0.2fc	0.1fc	0.1fc	0.1fc	0.1fc	0.1fc	0.1fc

Intensity in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
320	318	312	302	289	273	255	235	214	192	169	146	122	98	74	50	28	11	0	0
100%	99%	98%	94%	90%	85%	80%	74%	67%	60%	53%	46%	38%	31%	23%	16%	9%	3%	0%	0%

Intensity in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
320	318	312	302	289	273	255	236	215	193	170	147	123	99	74	50	28	10	0	0
100%	99%	98%	94%	90%	85%	80%	74%	67%	60%	53%	46%	38%	31%	23%	16%	9%	3%	0%	0%

Intensity in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
320	318	312	302	289	273	255	235	214	192	169	146	122	98	74	50	28	11	0	0
100%	99%	98%	94%	90%	85%	80%	74%	67%	60%	53%	46%	38%	31%	23%	16%	9%	3%	0%	0%

Intensity in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
320	318	312	302	289	273	255	236	215	193	170	147	123	99	74	50	28	10	0	0
100%	99%	98%	94%	90%	85%	80%	74%	67%	60%	53%	46%	38%	31%	23%	16%	9%	3%	0%	0%