

STR9-300-CM-15W-4000K-30-ELV

PRODUCT PHOTOMETRIC REPORT



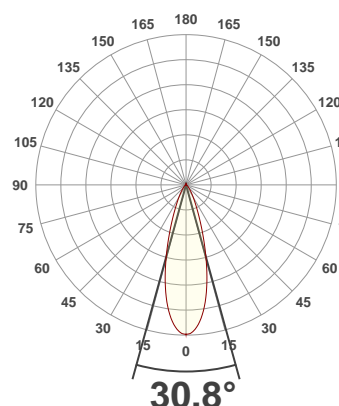
PRODUCT INFORMATION

SERIAL NUMBER: LL-20190710-310-BMS

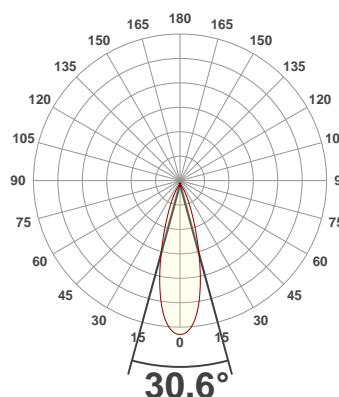
DATE OF MEASUREMENT: 2019-07-10

SIZE (mm): (L x W x H) 298 x 71 x 59.5

ANGULAR DISTRIBUTION AT C0/180



ANGULAR DISTRIBUTION AT C90/270



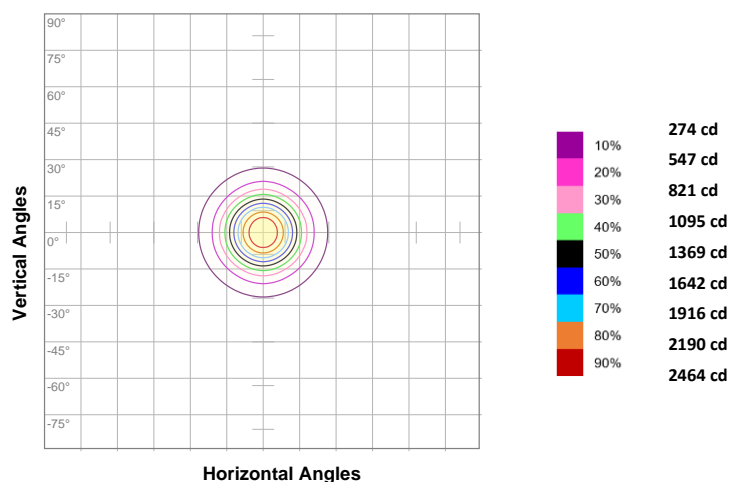
LIGHT OUTPUT DATA

TOTAL LUMEN OUTPUT: 1031 lm
EFFICACY: 81 lm/W
PEAK INTENSITY: 2739 cd
COLOR RENDERING INDEX (CRI): 84.0
COLOR TEMPERATURE (CCT): 3772K
FIDELITY INDEX (TM30Rf): 84.7
GAMUT INDEX (TM30Rg): 93.7

BEAM OUTPUT DATA

BEAM ANGLE (FWHM) | C0/180: 30.8°
BEAM ANGLE (FWHM) | C90/270: 30.6°
FIELD ANGLE (10%) | C0/180: 59.3°
FIELD ANGLE (10%) | C90/270: 59.2°
NUMBER OF PLANES MEASURED: 12

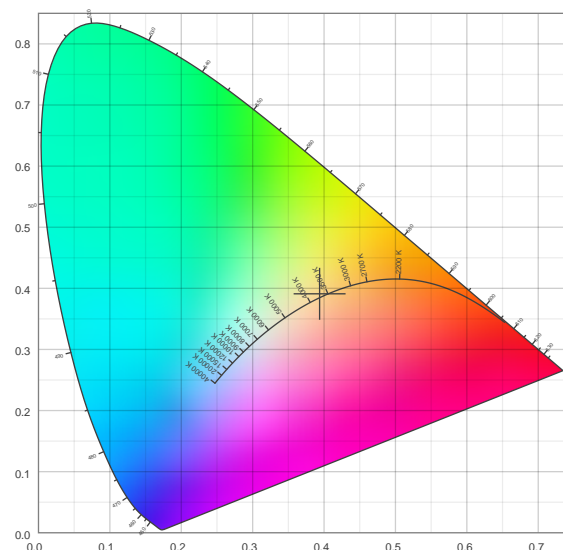
ISO CANDELA DIAGRAM



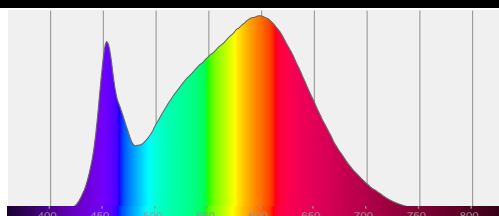
DATA

INPUT POWER: 12.7 W
POWER FACTOR: 1.0
OPTICAL POWER: 3.12 mW
PEAK WAVELENGTH: 598 nm
DOMINANT WAVELENGTH: 580 nm

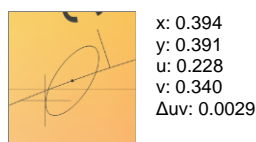
CIE 1931:



SPECTRA

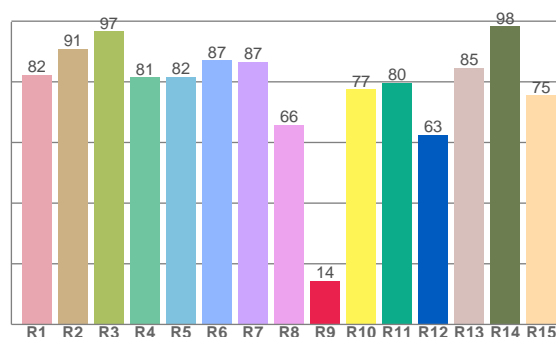
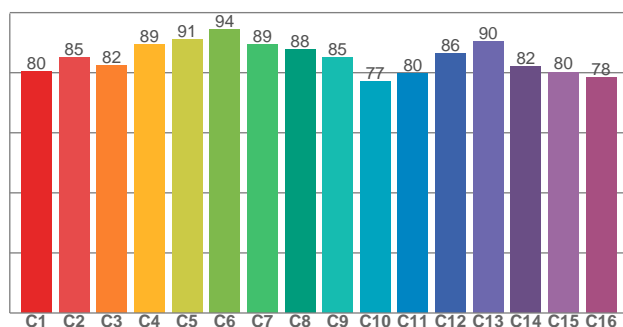


CIE 1931 ZOOM



ZONAL LUMEN SUMMARY

0°-10° 230 lm	10°-20° 383 lm	20°-30° 214 lm	30°-40° 100 lm	40°-50° 48.2 lm	50°-60° 27.8 lm	60°-70° 16.3 lm	70°-80° 6.98 lm	80°-90° 1.06 lm
90°-100° 0.182 lm	100°-110° 0.189 lm	110°-120° 0.216 lm	120°-130° 0.300 lm	130°-140° 0.398 lm	140°-150° 0.409 lm	150°-160° 0.406 lm	160°-170° 0.291 lm	170°-180° 0.103 lm

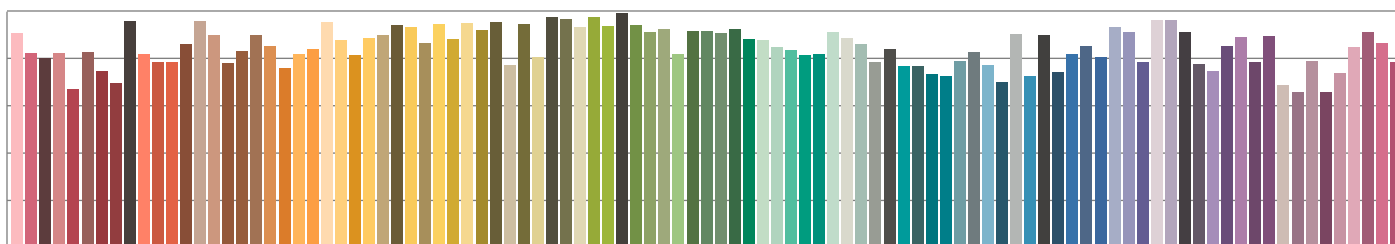
COLOR DETAILS
TM30: 84.7
CRI: 84.0 (R1-R8)


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

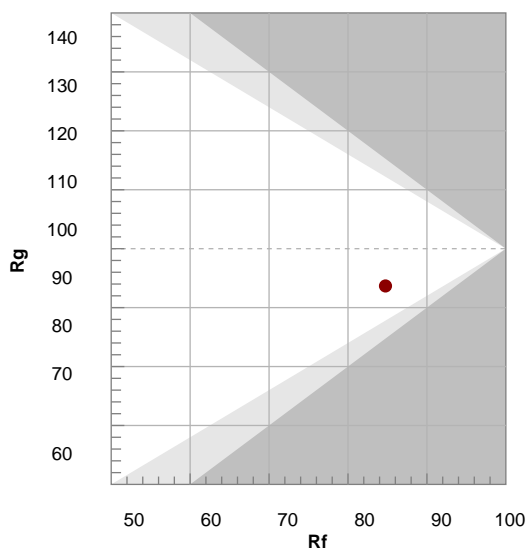
CRI R values, only R1-R8 are used to calculate final CRI value

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80.4	84.9	82.4	89.4	91.1	94.3	89.5	87.8	85.2	77.1	79.7	86.3	90.3	81.9	80.2	78.3

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82.2	90.8	96.6	81.5	81.6	87.1	86.6	65.7	14.3	77.5	79.7	62.6	84.5	98.2	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%	-1%
7	89	-7%	-1%
8	88	-7%	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%

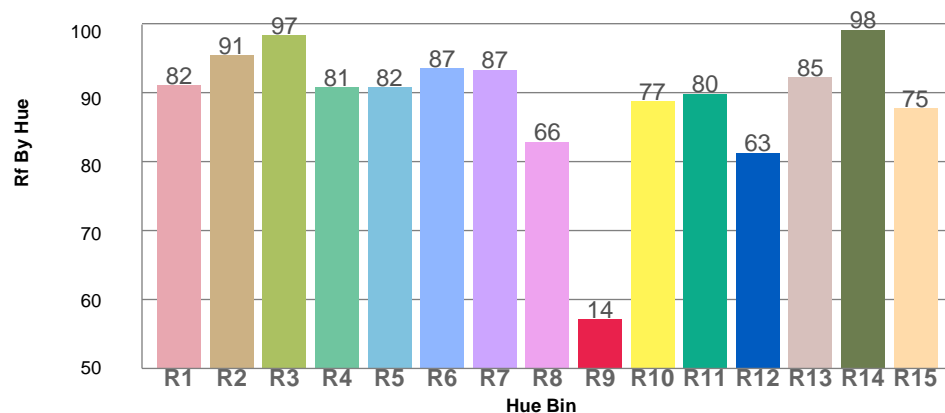


FIDELITY INDEX
 R_f 84.7

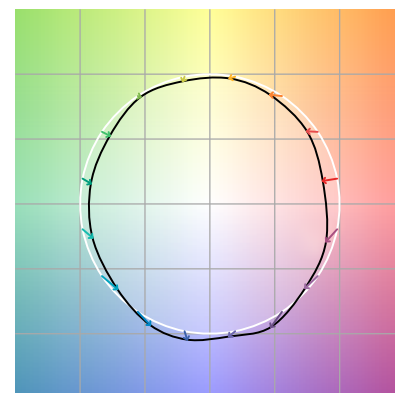
GAMUT INDEX
 R_g 93.7

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

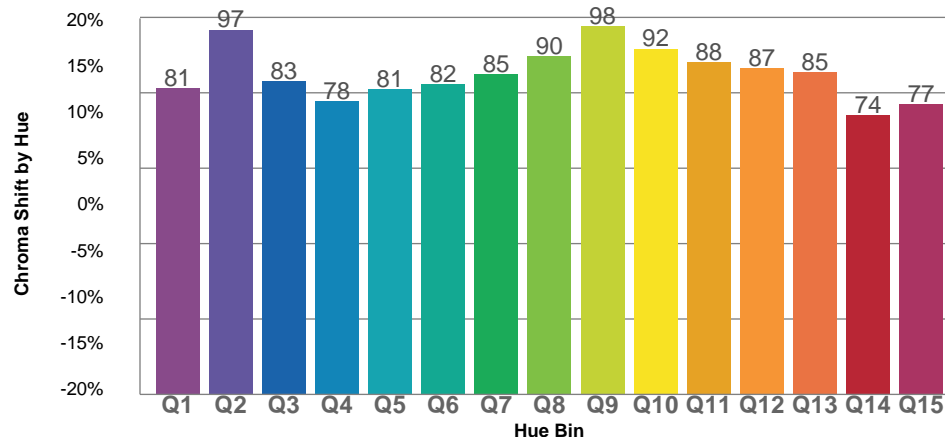
TM30 OVER 50



COLOR VECTOR GRAPHICS



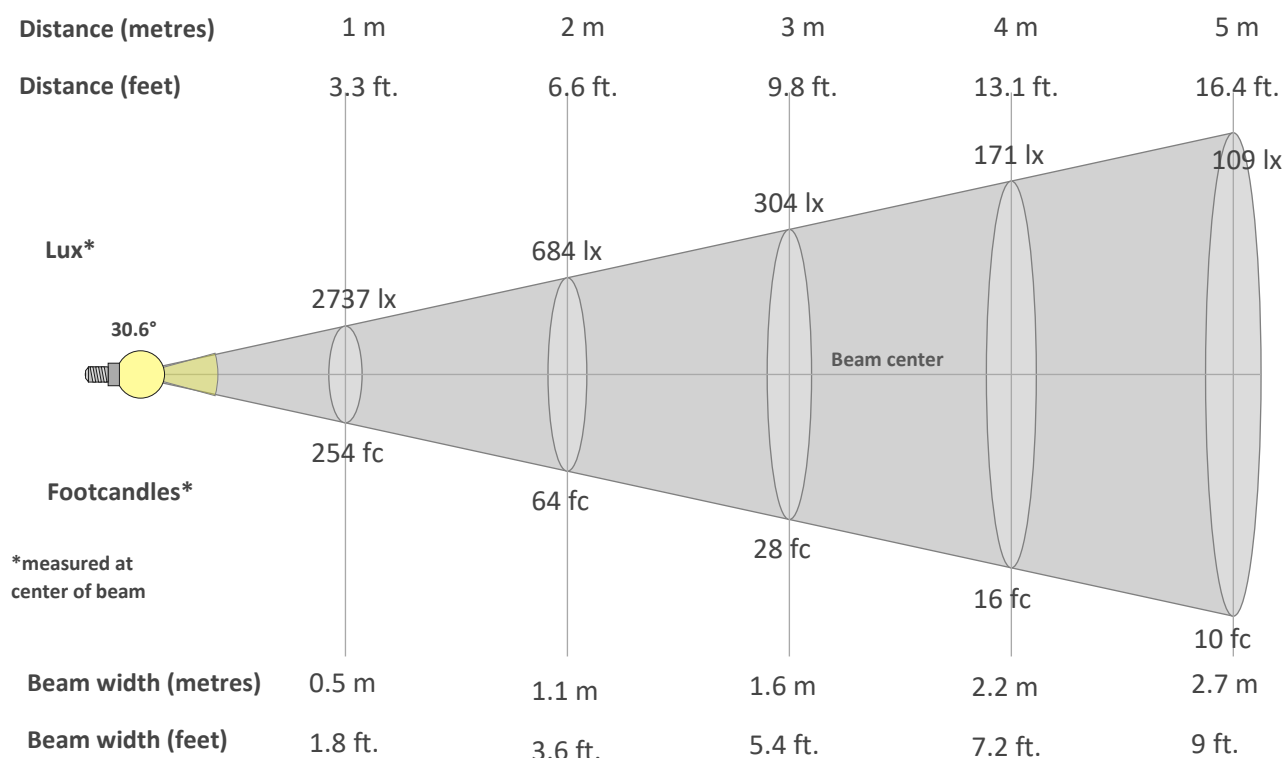
TM30 CHROMA SHIFT



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
2737lx	684lx	304lx	171lx	109lx	76lx	56lx	43lx	34lx	27lx	23lx	19lx	16lx	14lx	12lx	11lx	9lx	8lx	8lx	7lx
254.3fc	63.6fc	28.3fc	15.9fc	10.2fc	7.1fc	5.2fc	4fc	3.1fc	2.5fc	2.1fc	1.8fc	1.5fc	1.3fc	1.1fc	1fc	0.9fc	0.8fc	0.7fc	0.6fc

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°
2737	2706	2622	2488	2307	2087	1831	1558	1288	1039	822	647	509	404	325	262	215	175	144	118
100%	99%	96%	91%	84%	76%	67%	57%	47%	38%	30%	24%	19%	15%	12%	10%	8%	6%	5%	4%

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°
2737	2713	2641	2512	2332	2098	1831	1549	1276	1027	819	649	514	410	327	262	211	170	138	112
100%	99%	96%	92%	85%	77%	67%	57%	47%	38%	30%	24%	19%	15%	12%	10%	8%	6%	5%	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°
2737	2706	2622	2488	2307	2087	1831	1558	1288	1039	822	647	509	404	325	262	215	175	144	118
100%	99%	96%	91%	84%	76%	67%	57%	47%	38%	30%	24%	19%	15%	12%	10%	8%	6%	5%	4%

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°
2737	2713	2641	2512	2332	2098	1831	1549	1276	1027	819	649	514	410	327	262	211	170	138	112
100%	99%	96%	92%	85%	77%	67%	57%	47%	38%	30%	24%	19%	15%	12%	10%	8%	6%	5%	4%