

STR9-300-CM-15W-4000K-10x60-ELV

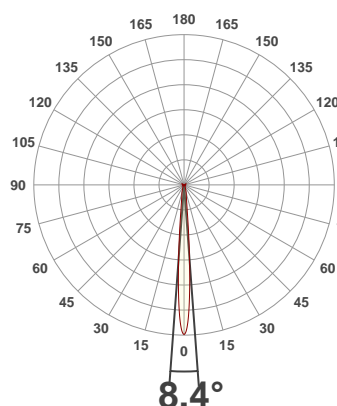
PRODUCT PHOTOMETRIC REPORT



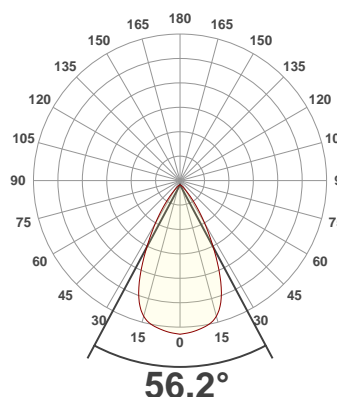
PRODUCT INFORMATION

SERIAL NUMBER:	LL-20190822-536-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



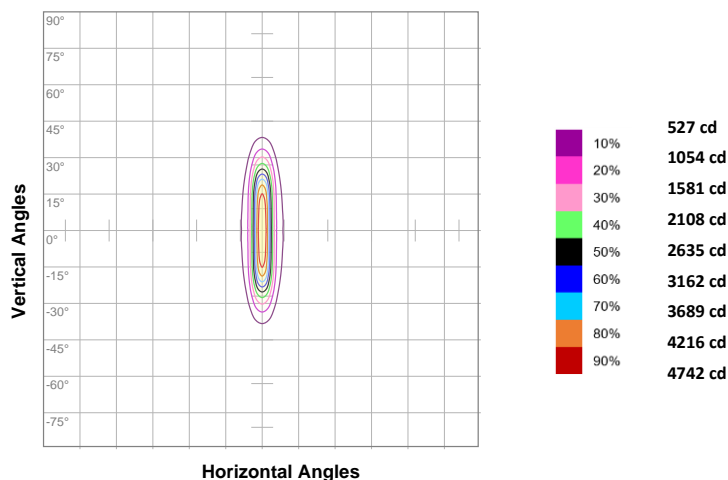
LIGHT OUTPUT DATA

TOTAL LUMEN OUTPUT:	1111 lm
EFFICACY:	73 lm/W
PEAK INTENSITY:	5281 cd
COLOR RENDERING INDEX (CRI):	83.7
COLOR TEMPERATURE (CCT):	3728K
FIDELITY INDEX (TM30Rf):	84.7
GAMUT INDEX (TM30Rg):	93.5

BEAM OUTPUT DATA

BEAM ANGLE (FWHM) C0/180:	8.4°
BEAM ANGLE (FWHM) C90/270:	56.2°
FIELD ANGLE (10%) C0/180:	19°
FIELD ANGLE (10%) C90/270:	85.1°
NUMBER OF PLANES MEASURED:	36

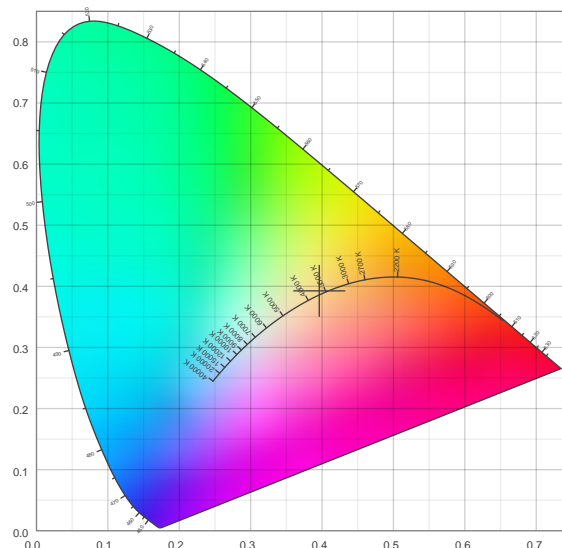
ISO CANDELA DIAGRAM



DATA

INPUT POWER:	15.2 W
POWER FACTOR:	1.0
OPTICAL POWER:	3.36 mW
PEAK WAVELENGTH:	598 nm
DOMINANT WAVELENGTH:	580 nm

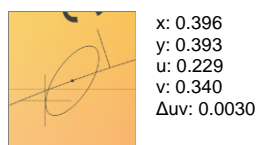
CIE 1931:



SPECTRA

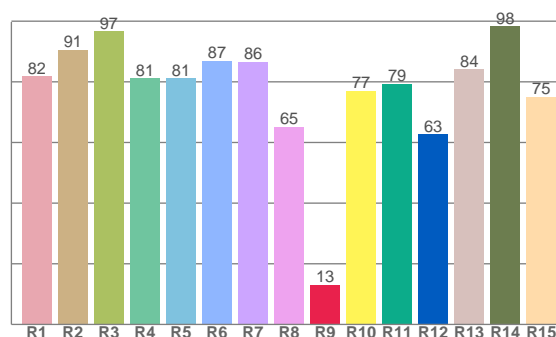
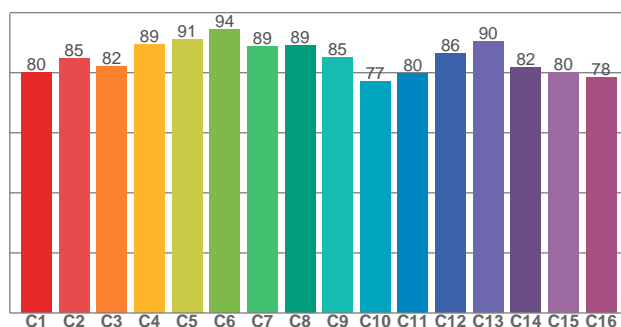


CIE 1931 ZOOM



ZONAL LUMEN SUMMARY

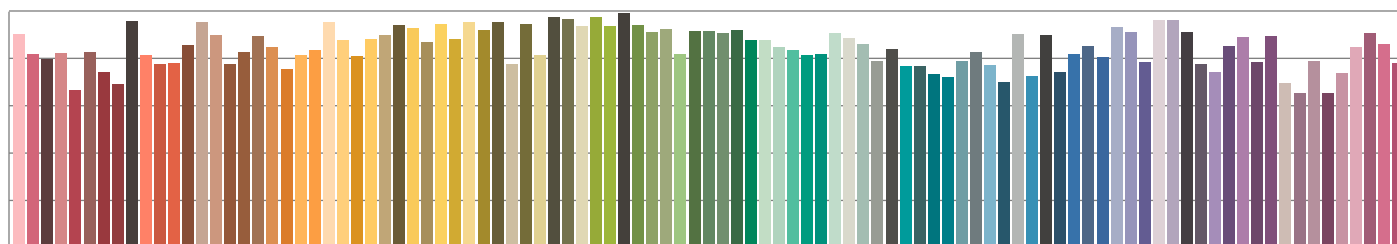
0°-10° 265 lm	10°-20° 335 lm	20°-30° 259 lm	30°-40° 139 lm	40°-50° 62.5 lm	50°-60° 28.7 lm	60°-70° 13.6 lm	70°-80° 5.87 lm	80°-90° 0.799 lm
90°-100° 0.007 lm	100°-110° 0.008 lm	110°-120° 0.019 lm	120°-130° 0.007 lm	130°-140° 0.002 lm	140°-150° 0.001 lm	150°-160° 0.001 lm	160°-170° 0.000 lm	170°-180° 0.031 lm

COLOR DETAILS
TM30: 84.7
CRI: 83.7 (R1-R8)

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

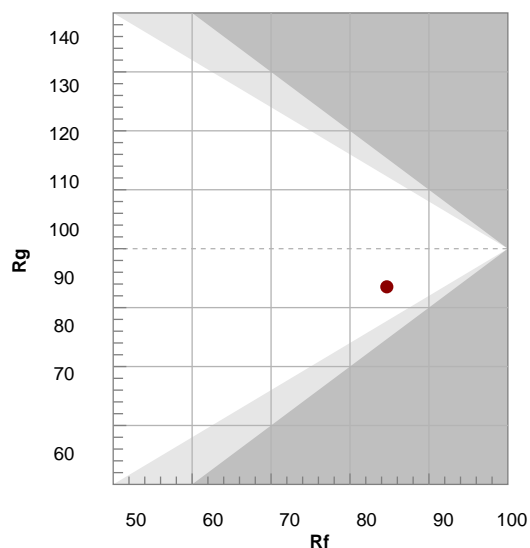
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80.1	84.6	82.1	89.4	91.2	94.3	88.8	89.1	85.2	77.1	79.7	86.2	90.3	81.8	80.1	78.3

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
81.8	90.6	96.6	81.1	81.2	86.8	86.4	65.1	13.1	77.0	79.2	62.7	84.1	98.2	75.0

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%

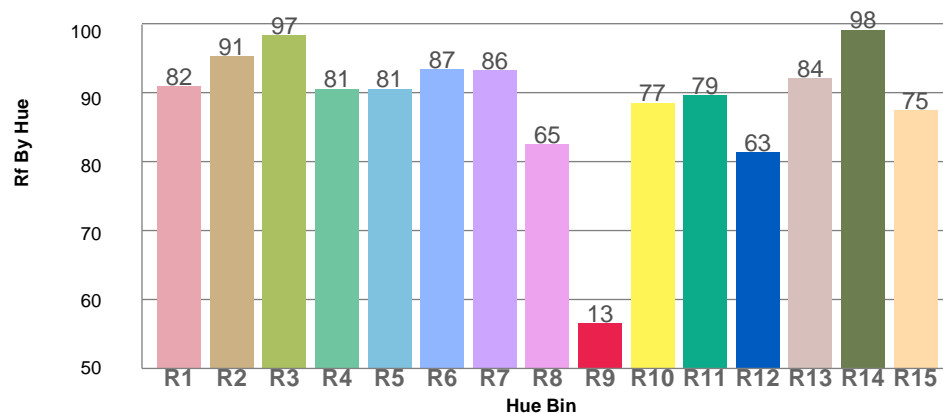


FIDELITY INDEX
 R_f 84.7

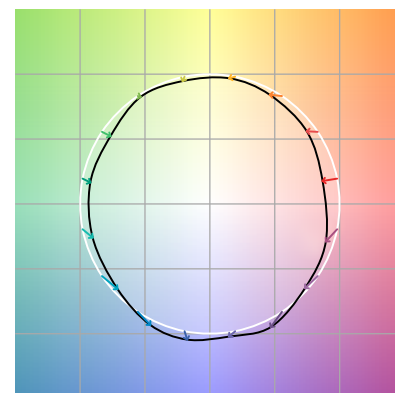
GAMUT INDEX
 R_g 93.5

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

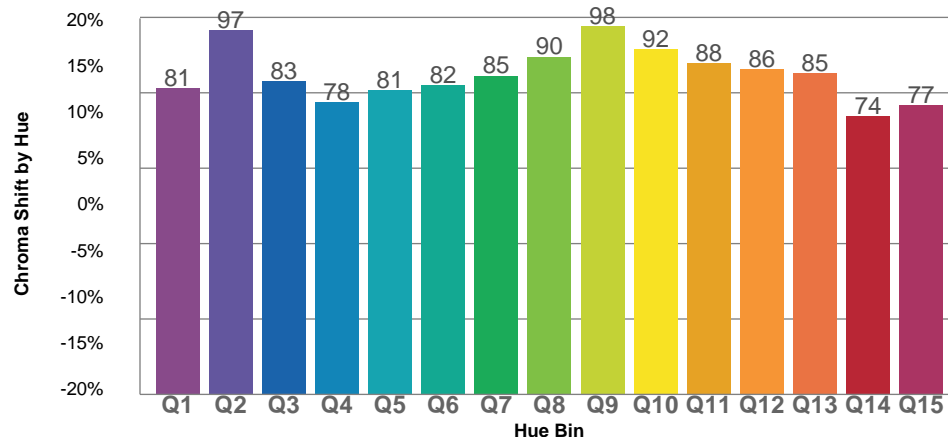
TM30 OVER 50



COLOR VECTOR GRAPHICS

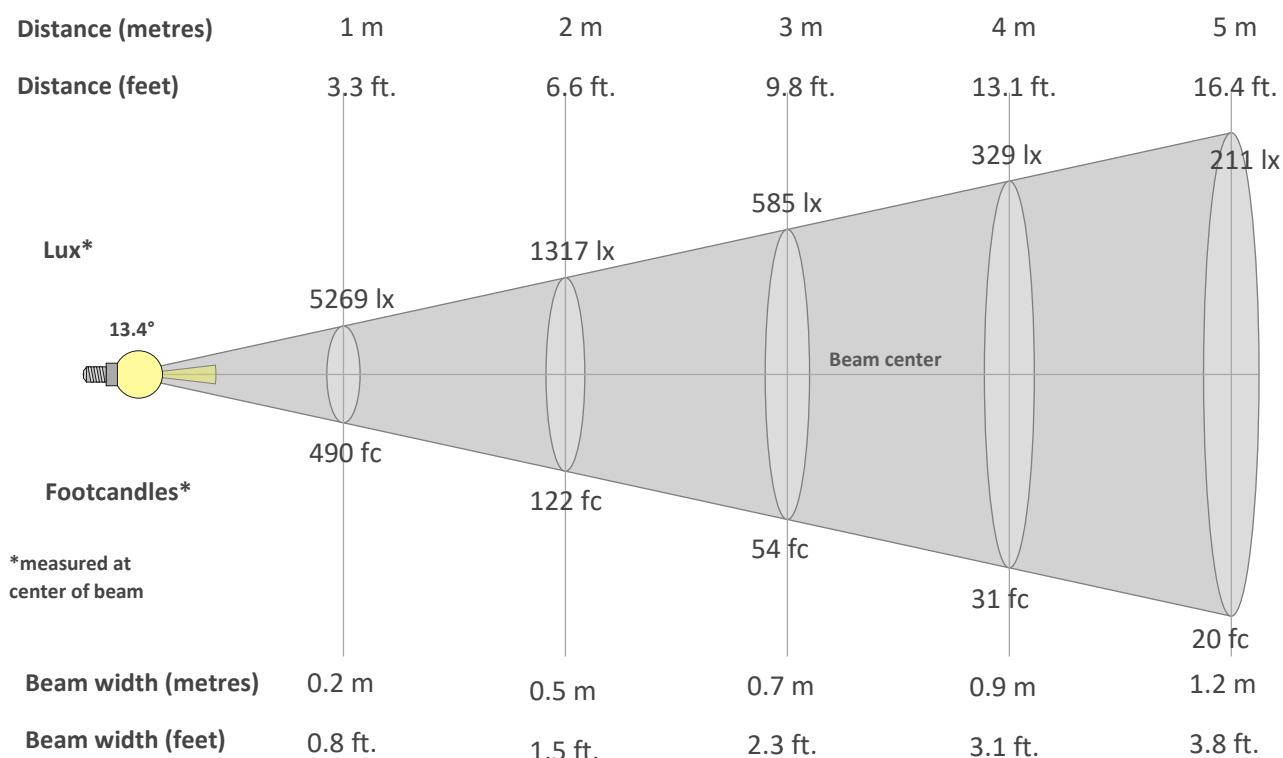


TM30 CHROMA SHIFT



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
5269lx	1317lx	585lx	329lx	211lx	146lx	108lx	82lx	65lx	53lx	44lx	37lx	31lx	27lx	23lx	21lx	18lx	16lx	15lx	13lx
489.5fc	122.4fc	54.4fc	30.6fc	19.6fc	13.6fc	10fc	7.6fc	6fc	4.9fc	4fc	3.4fc	2.9fc	2.5fc	2.2fc	1.9fc	1.7fc	1.5fc	1.4fc	1.2fc

Intensity in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
5269	5103	4578	3750	2813	1972	1334	930	707	576	489	428	381	344	313	283	255	228	203	181
100%	97%	87%	71%	53%	37%	25%	18%	13%	11%	9%	8%	7%	7%	6%	5%	5%	4%	4%	3%

Intensity in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
5269	5270	5258	5245	5232	5214	5195	5173	5150	5126	5100	5073	5038	5001	4946	4889	4807	4719	4608	4484
100%	100%	100%	100%	99%	99%	99%	98%	98%	97%	97%	96%	96%	95%	94%	93%	91%	90%	87%	85%

Intensity in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
5269	5103	4578	3750	2813	1972	1334	930	707	576	489	428	381	344	313	283	255	228	203	181
100%	97%	87%	71%	53%	37%	25%	18%	13%	11%	9%	8%	7%	7%	6%	5%	5%	4%	4%	3%

Intensity in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
5269	5270	5258	5245	5232	5214	5195	5173	5150	5126	5100	5073	5038	5001	4946	4889	4807	4719	4608	4484
100%	100%	100%	100%	99%	99%	99%	98%	98%	97%	97%	96%	96%	95%	94%	93%	91%	90%	87%	85%