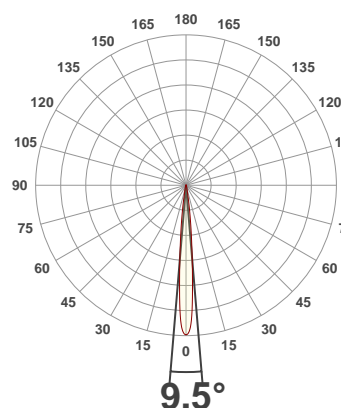
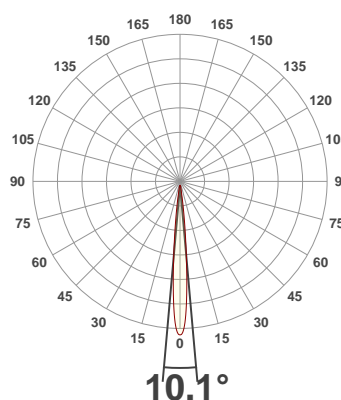



PRODUCT INFORMATION

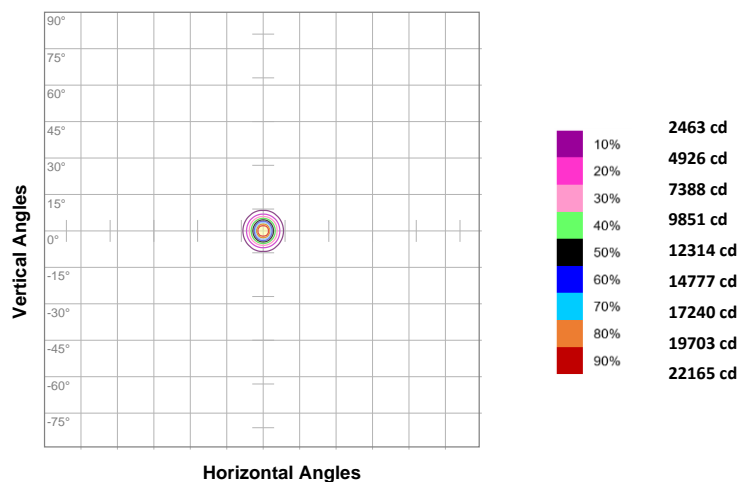
SERIAL NUMBER:	LL-20200109-0036
DATE OF MEASUREMENT:	09/01/2020
SIZE (mm): (L x W x H)	298 x 72 x 50

ANGULAR DISTRIBUTION AT C0/180

ANGULAR DISTRIBUTION AT C90/270

LIGHT OUTPUT DATA

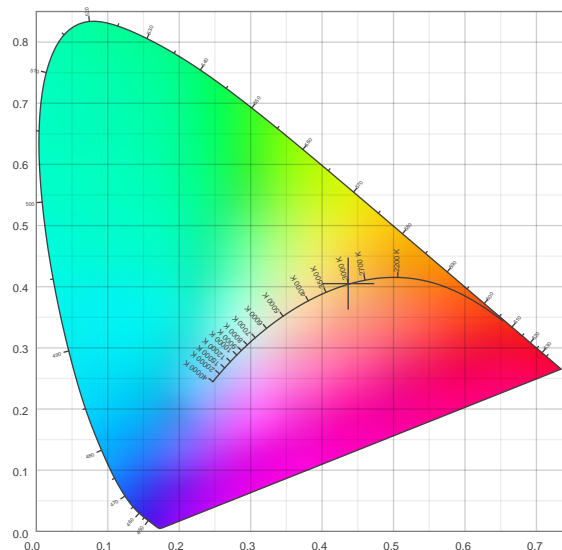
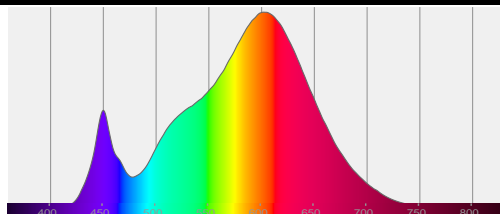
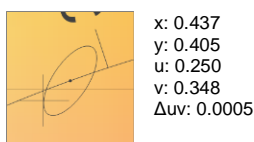
TOTAL LUMEN OUTPUT:	1151 lm
EFFICACY:	86 lm/W
PEAK INTENSITY:	24674 cd
COLOR RENDERING INDEX (CRI):	82.3
COLOR TEMPERATURE (CCT):	3018K
FIDELITY INDEX (TM30Rf):	84.7
GAMUT INDEX (TM30Rg):	96.4

BEAM OUTPUT DATA

BEAM ANGLE (FWHM) C0/180:	9.5°
BEAM ANGLE (FWHM) C90/270:	10.1°
FIELD ANGLE (10%) C0/180:	18.7°
FIELD ANGLE (10%) C90/270:	18.9°
NUMBER OF PLANES MEASURED:	18

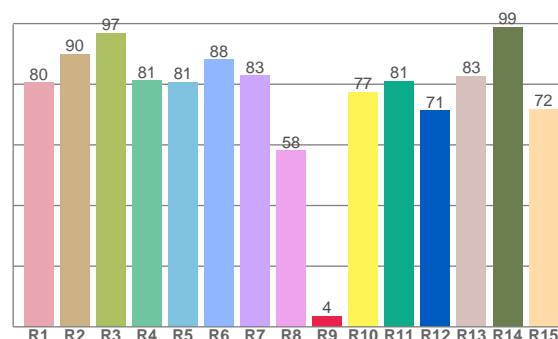
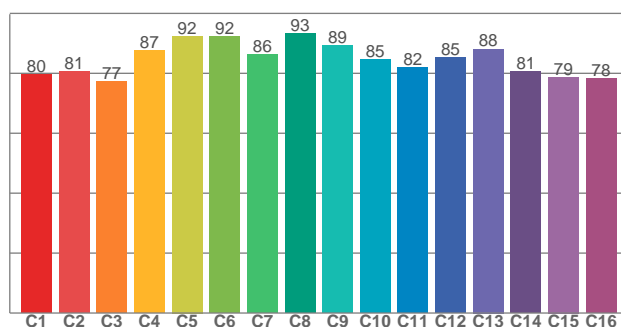
ISO CANDELA DIAGRAM

DATA

INPUT POWER:	13.3 W
POWER FACTOR:	1.0
OPTICAL POWER:	3.44 mW
PEAK WAVELENGTH:	601 nm
DOMINANT WAVELENGTH:	583 nm

CIE 1931:

SPECTRA

CIE 1931 ZOOM


ZONAL LUMEN SUMMARY

0°-10° 811 lm	10°-20° 194 lm	20°-30° 90.6 lm	30°-40° 38.2 lm	40°-50° 13.1 lm	50°-60° 3.76 lm	60°-70° 0.572 lm	70°-80° 0.031 lm	80°-90° 0.014 lm
90°-100° 0.005 lm	100°-110° 0.002 lm	110°-120° 0.001 lm	120°-130° 0.001 lm	130°-140° 0.001 lm	140°-150° 0.001 lm	150°-160° 0.001 lm	160°-170° 0.000 lm	170°-180° 0.000 lm

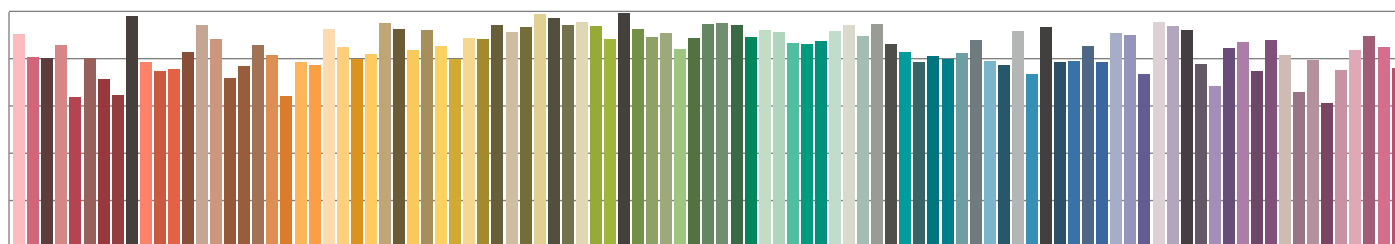
COLOR DETAILS
TM30: 84.7
CRI: 82.3 (R1-R8)


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

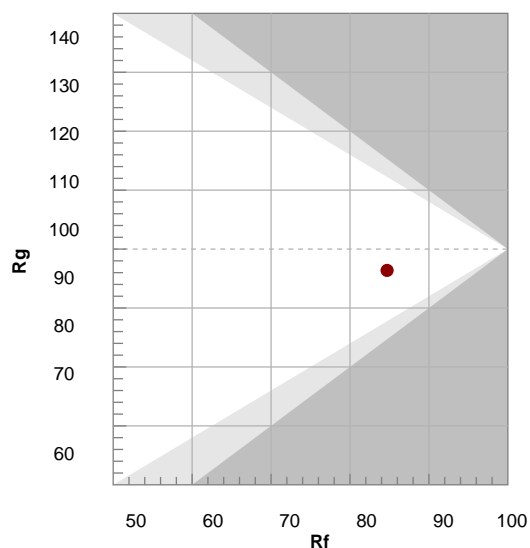
CRI R values, only R1-R8 are used to calculate final CRI value

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79.6	80.7	77.2	87.5	92.5	92.2	86.2	93.2	89.2	84.7	81.8	85.2	88.1	80.6	78.8	78.3

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
80.5	90.0	96.9	81.2	80.7	88.2	82.8	58.2	3.6	77.5	81.0	71.3	82.7	98.8	71.8

TM30 COLOR EVALUATION SAMPLE

TM30 DETAILS

Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	80	-12%	-1%
2	81	-9%	7%
3	77	-3%	12%
4	87	2%	8%
5	92	3%	4%
6	92	4%	-3%
7	86	-2%	-8%
8	93	-3%	-2%
9	89	-6%	2%
10	85	-5%	8%
11	82	-1%	13%
12	85	6%	4%
13	88	5%	-6%
14	81	5%	-15%
15	79	-2%	-14%
16	78	-8%	-15%

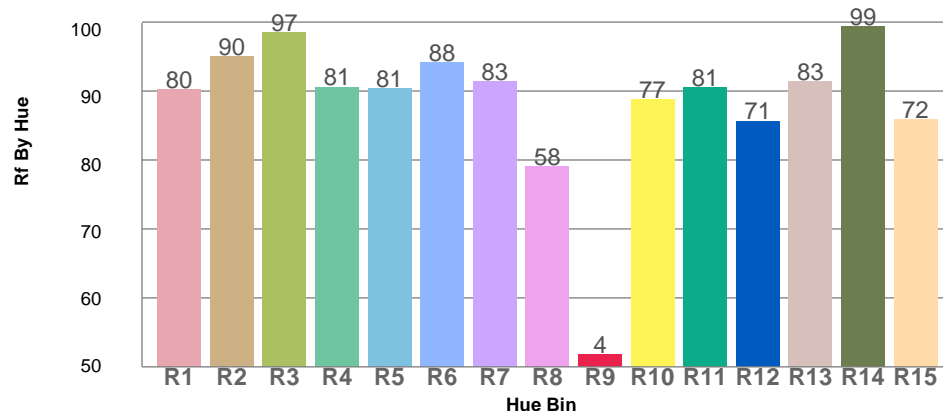


FIDELITY INDEX
 R_f 84.7

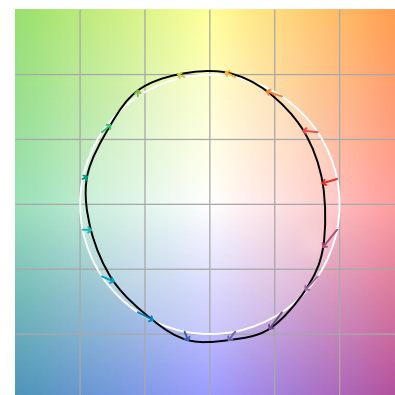
GAMUT INDEX
 R_g 96.4

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

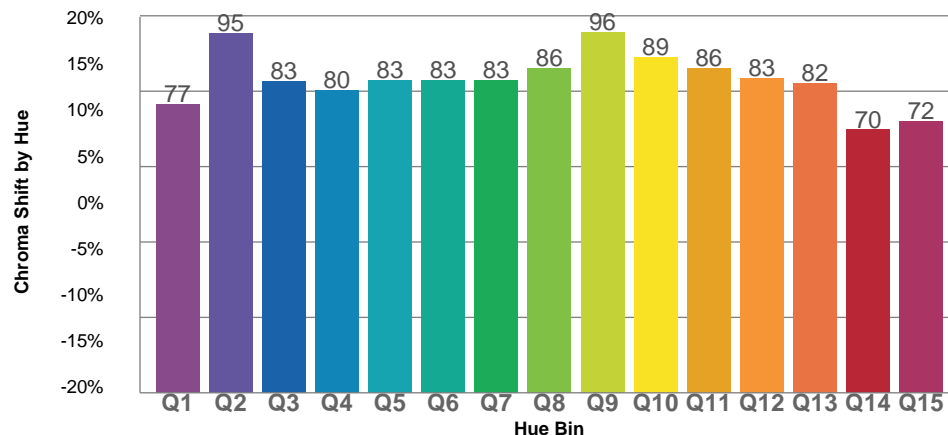
TM30 OVER 50



COLOR VECTOR GRAPHICS



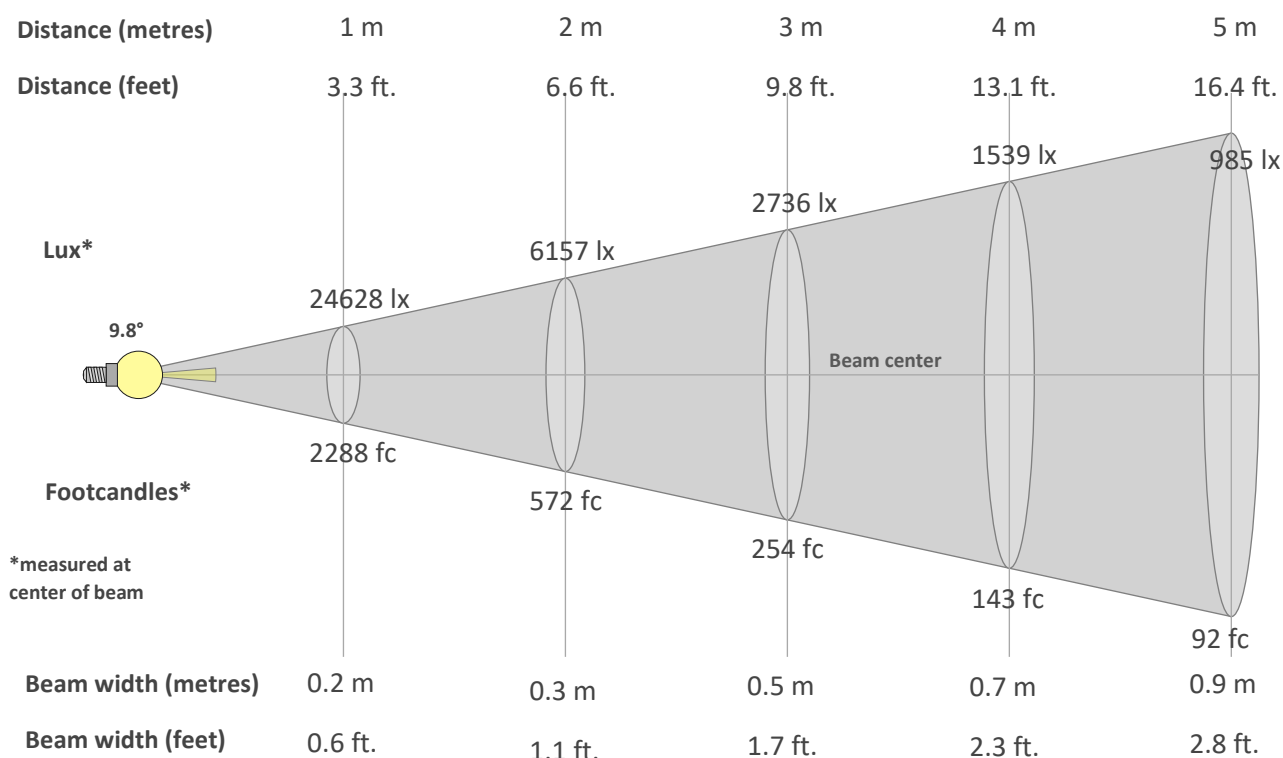
TM30 CHROMA SHIFT



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
24628lx	6157lx	2736lx	1539lx	985lx	684lx	503lx	385lx	304lx	246lx	204lx	171lx	146lx	126lx	109lx	96lx	85lx	76lx	68lx	62lx
2288fc	572fc	254.2fc	143fc	91.5fc	63.6fc	46.7fc	35.8fc	28.2fc	22.9fc	18.9fc	15.9fc	13.5fc	11.7fc	10.2fc	8.9fc	7.9fc	7.1fc	6.3fc	5.7fc

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°
24.6K	24.2K	22.9K	19.6K	15.2K	11.4K	8.5K	6.1K	4.3K	2.8K	1.9K	1.3K	0.9K	0.8K	0.7K	0.6K	0.5K	0.5K	0.4K	0.4K
100%	98%	93%	80%	62%	46%	34%	25%	17%	12%	8%	5%	4%	3%	3%	2%	2%	2%	2%	1%

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°
24.6K	24.2K	22.8K	20.0K	16.4K	12.5K	9.1K	6.4K	4.4K	2.9K	2.0K	1.4K	1.1K	0.9K	0.7K	0.6K	0.6K	0.5K	0.4K	0.4K
100%	98%	92%	81%	66%	51%	37%	26%	18%	12%	8%	6%	4%	3%	3%	3%	2%	2%	2%	2%

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°
24.6K	24.2K	22.9K	19.6K	15.2K	11.4K	8.5K	6.1K	4.3K	2.8K	1.9K	1.3K	0.9K	0.8K	0.7K	0.6K	0.5K	0.5K	0.4K	0.4K
100%	98%	93%	80%	62%	46%	34%	25%	17%	12%	8%	5%	4%	3%	3%	2%	2%	2%	2%	1%

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°
24.6K	24.2K	22.8K	20.0K	16.4K	12.5K	9.1K	6.4K	4.4K	2.9K	2.0K	1.4K	1.1K	0.9K	0.7K	0.6K	0.6K	0.5K	0.4K	0.4K
100%	98%	92%	81%	66%	51%	37%	26%	18%	12%	8%	6%	4%	3%	3%	3%	2%	2%	2%	2%