

FL200-RGBW40K-OM-60x30-ELV (WH)

PRODUCT PHOTOMETRIC REPORT



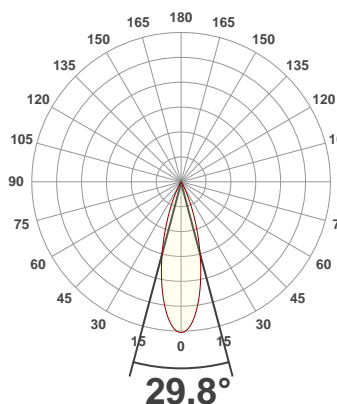
PRODUCT INFORMATION

SERIAL NUMBER: LL-20191016-890

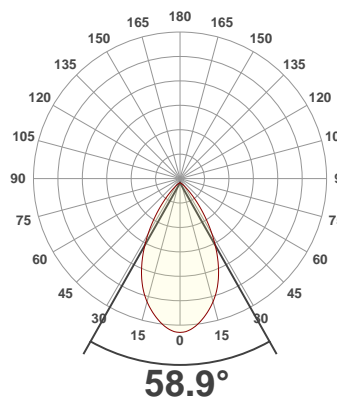
DATE OF MEASUREMENT: 2019-10-16

SIZE (dia. x h): 430 mm x 85 mm

ANGULAR DISTRIBUTION AT C0/180



ANGULAR DISTRIBUTION AT C90/270



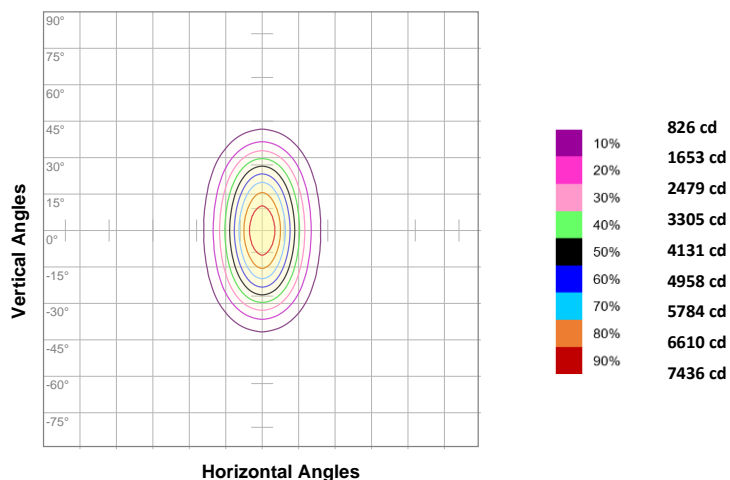
LIGHT OUTPUT DATA

TOTAL LUMEN OUTPUT: 4696 lm
 EFFICACY: 86 lm/W
 PEAK INTENSITY: 8271 cd
 COLOR RENDERING INDEX (CRI): 83.0
 COLOR TEMPERATURE (CCT): 3949K
 FIDELITY INDEX (TM30Rf): 84.3
 GAMUT INDEX (TM30Rg): 96.7

BEAM OUTPUT DATA

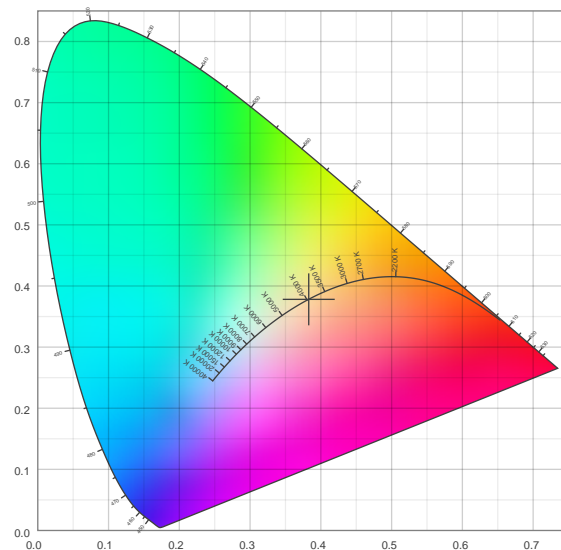
BEAM ANGLE (FWHM) | C0/180: 29.8°
 BEAM ANGLE (FWHM) | C90/270: 58.9°
 FIELD ANGLE (10%) | C0/180: 53.7°
 FIELD ANGLE (10%) | C90/270: 92.8°
 NUMBER OF PLANES MEASURED: 36

ISOCANDELA DIAGRAM



INPUT POWER: 54.8 W
 POWER FACTOR: 1.0
 OPTICAL POWER: 14.2 mW
 PEAK WAVELENGTH: 450 nm
 DOMINANT WAVELENGTH: 582 nm

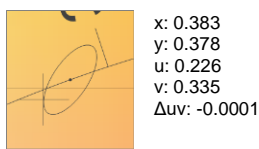
CIE 1931



SPECTRAL DISTRIBUTION

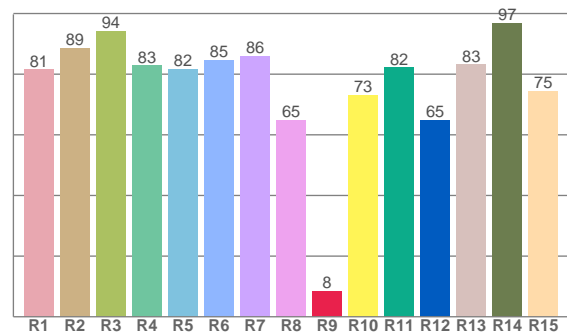
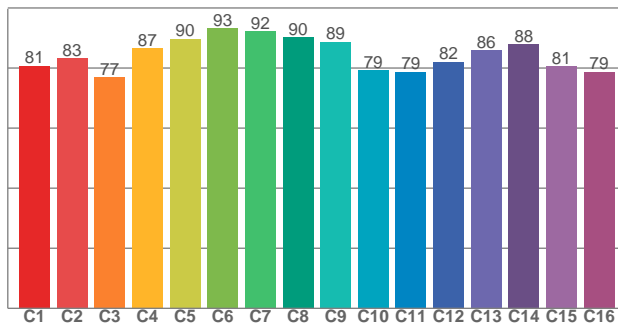


CIE 1931 ZOOM



ZONAL LUMEN SUMMARY

0°-10° 648 lm	10°-20° 1487 lm	20°-30° 1302 lm	30°-40° 680 lm	40°-50° 319 lm	50°-60° 139 lm	60°-70° 73.2 lm	70°-80° 38.2 lm	80°-90° 7.60 lm
90°-100° 0.071 lm	100°-110° 0.068 lm	110°-120° 0.325 lm	120°-130° 0.019 lm	130°-140° 0.061 lm	140°-150° 0.010 lm	150°-160° 0.008 lm	160°-170° 0.005 lm	170°-180° 0.183 lm

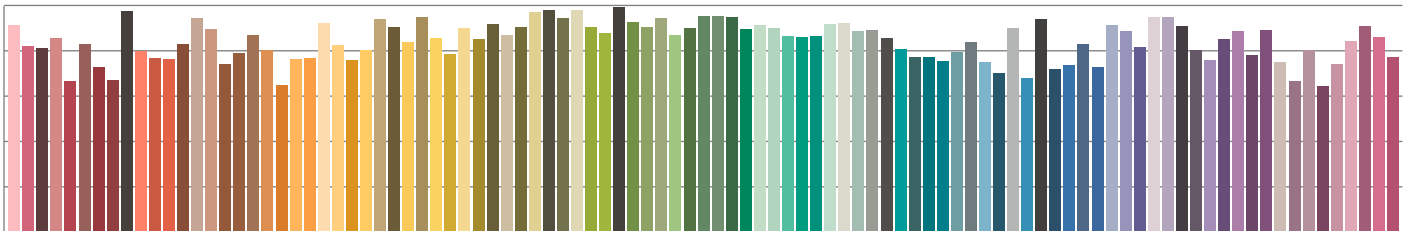
COLOR DETAILS
TM30: 84.3
CRI: 83.0 (R1-R8)


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

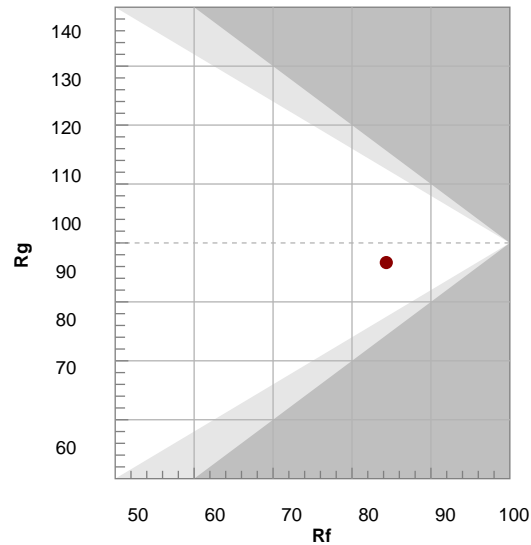
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80.7	83.2	76.9	86.6	89.7	93.2	92.2	90.3	88.7	79.2	78.7	82.1	86.0	87.8	80.6	78.7

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81.5	88.7	94.3	82.9	81.6	84.7	86.0	64.8	8.5	73.2	82.2	64.9	83.2	96.9	74.5

TM30 COLOR EVALUATION SAMPLE


TM30 DETAILS

Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	81	-12%	-1%
2	83	-8%	6%
3	77	-4%	12%
4	87	1%	8%
5	90	3%	5%
6	93	4%	-2%
7	92	-2%	-4%
8	90	-5%	-2%
9	89	-7%	4%
10	79	-7%	10%
11	79	1%	14%
12	82	5%	8%
13	86	8%	-5%
14	88	9%	-7%
15	81	0%	-14%
16	79	-5%	-13%



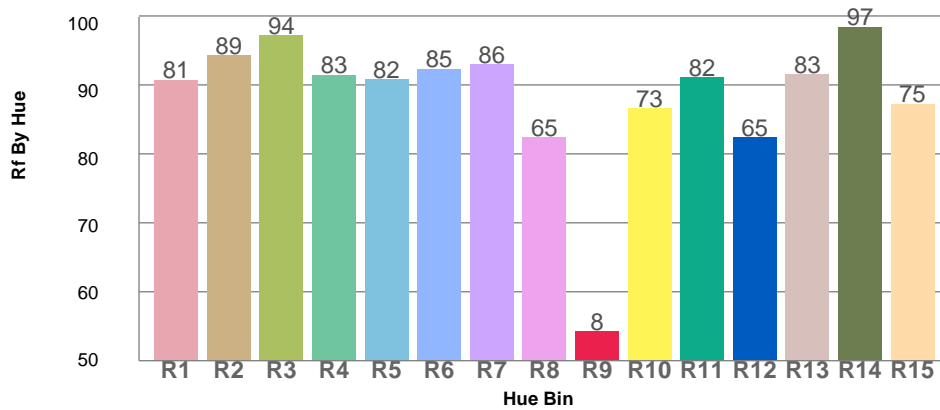
FIDELITY INDEX

R_f 84.3

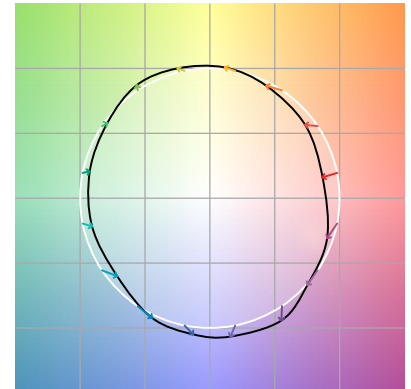
GAMUT INDEX

R_g 96.7

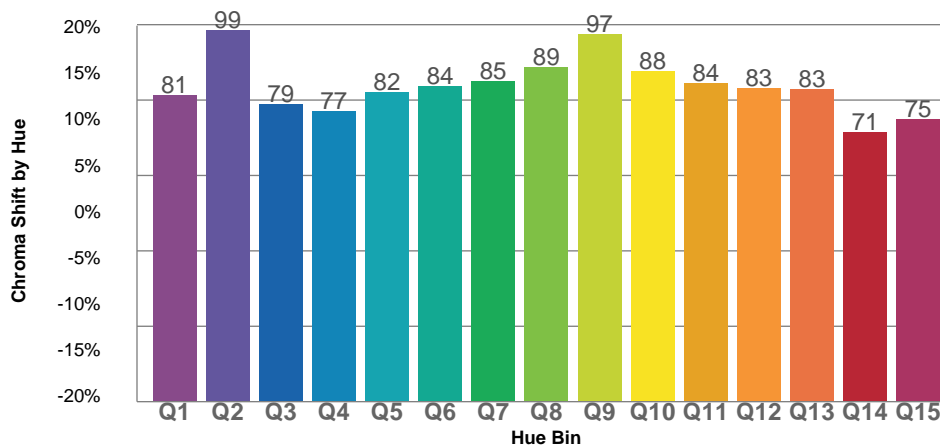
TM30 OVER 50



COLOR VECTOR GRAPHICS



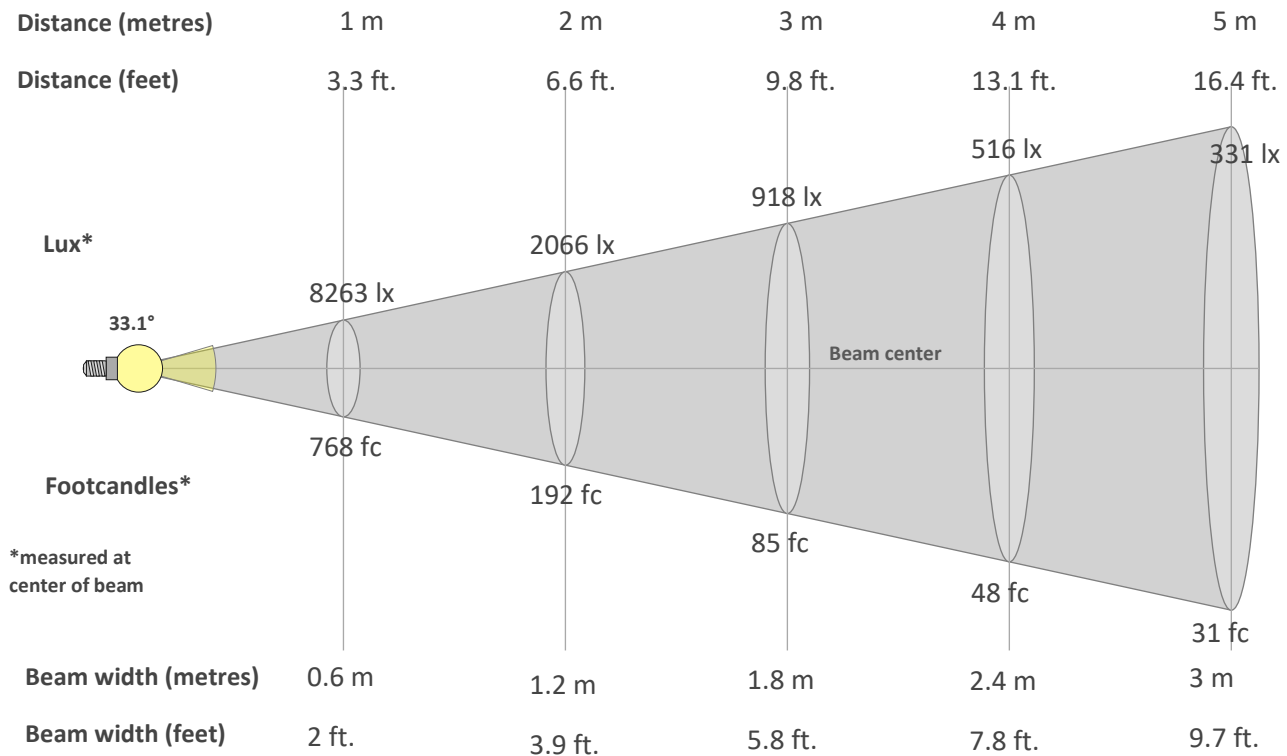
TM30 CHROMA SHIFT



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
8263lx	2066lx	918lx	516lx	331lx	230lx	169lx	129lx	102lx	83lx	68lx	57lx	49lx	42lx	37lx	32lx	29lx	26lx	23lx	21lx
767.6fc	191.9fc	85.3fc	48fc	30.7fc	21.3fc	15.7fc	12fc	9.5fc	7.7fc	6.3fc	5.3fc	4.5fc	3.9fc	3.4fc	3fc	2.7fc	2.4fc	2.1fc	1.9fc

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°
8263	8156	7849	7352	6729	6022	5250	4478	3708	2992	2339	1773	1312	950	684	503	376	294	242	207
100%	99%	95%	89%	81%	73%	64%	54%	45%	36%	28%	21%	16%	11%	8%	6%	5%	4%	3%	3%

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°
8263	8227	8135	7990	7804	7586	7347	7089	6810	6502	6160	5779	5365	4925	4465	3992	3515	3045	2589	2159
100%	100%	98%	97%	94%	92%	89%	86%	82%	79%	75%	70%	65%	60%	54%	48%	43%	37%	31%	26%

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°
8263	8156	7849	7352	6729	6022	5250	4478	3708	2992	2339	1773	1312	950	684	503	376	294	242	207
100%	99%	95%	89%	81%	73%	64%	54%	45%	36%	28%	21%	16%	11%	8%	6%	5%	4%	3%	3%

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°
8263	8227	8135	7990	7804	7586	7347	7089	6810	6502	6160	5779	5365	4925	4465	3992	3515	3045	2589	2159
100%	100%	98%	97%	94%	92%	89%	86%	82%	79%	75%	70%	65%	60%	54%	48%	43%	37%	31%	26%