

FL200-RGBW40K-OM-40-ELV (WH)

PRODUCT PHOTOMETRIC REPORT



PRODUCT INFORMATION

SERIAL NUMBER: LL-20191015-862

DATE OF MEASUREMENT: 2019-10-15

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

ANGULAR DISTRIBUTION AT C0/180

ANGULAR DISTRIBUTION AT C90/270

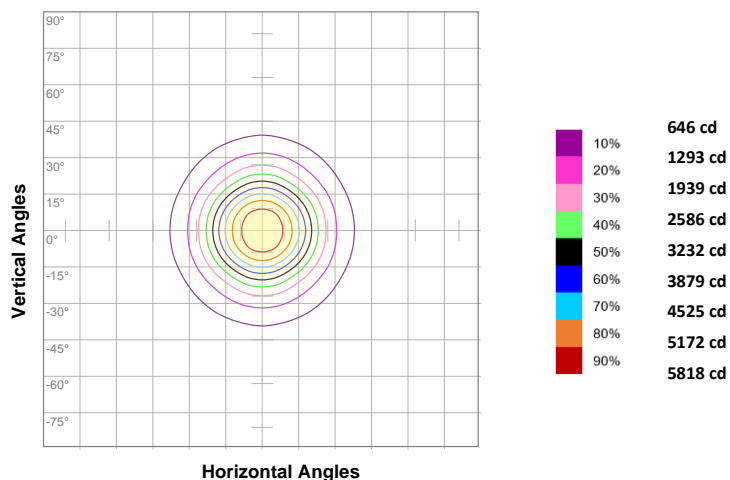
LIGHT OUTPUT DATA

TOTAL LUMEN OUTPUT:	4674 lm
EFFICACY:	85 lm/W
PEAK INTENSITY:	6472 cd
COLOR RENDERING INDEX (CRI):	83.1
COLOR TEMPERATURE (CCT):	3957K
FIDELITY INDEX (TM30Rf):	84.4
GAMUT INDEX (TM30Rg):	96.4

BEAM OUTPUT DATA

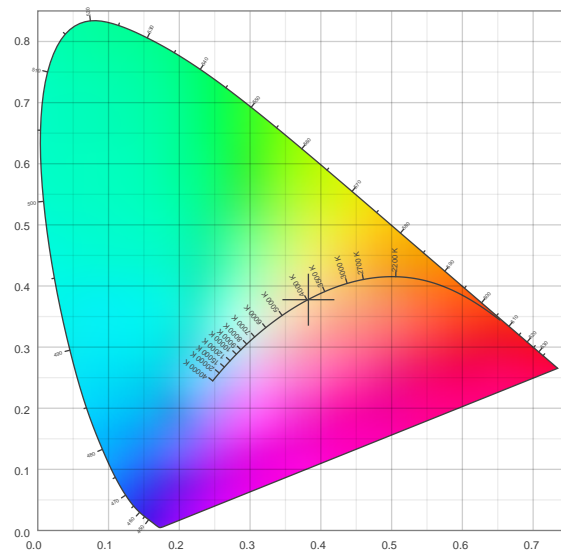
BEAM ANGLE (FWHM) C0/180:	45.3°
BEAM ANGLE (FWHM) C90/270:	45.1°
FIELD ANGLE (10%) C0/180:	84.4°
FIELD ANGLE (10%) C90/270:	87.4°
NUMBER OF PLANES MEASURED:	12

ISOCANDELA DIAGRAM



INPUT POWER:	54.8 W
POWER FACTOR:	1.0
OPTICAL POWER:	14.1 mW
PEAK WAVELENGTH:	450 nm
DOMINANT WAVELENGTH:	582 nm

CIE 1931



SPECTRAL DISTRIBUTION

CIE 1931 ZOOM



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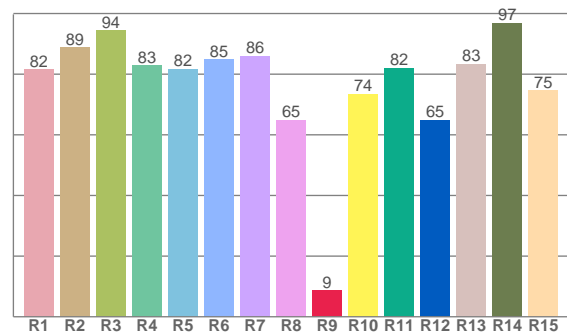
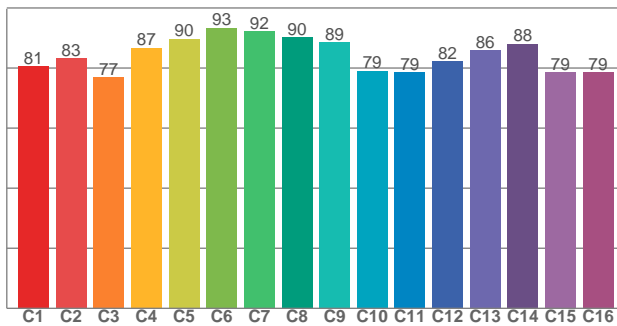
ZONAL LUMEN SUMMARY

0°-10° 584 lm	10°-20° 1347 lm	20°-30° 1235 lm	30°-40° 786 lm	40°-50° 405 lm	50°-60° 175 lm	60°-70° 89.2 lm	70°-80° 43.3 lm	80°-90° 8.58 lm
90°-100° 0.301 lm	100°-110° 0.291 lm	110°-120° 0.154 lm	120°-130° 0.111 lm	130°-140° 0.075 lm	140°-150° 0.046 lm	150°-160° 0.034 lm	160°-170° 0.021 lm	170°-180° 0.007 lm

COLOR DETAILS

TM30: 84.4

CRI: 83.1 (R1-R8)



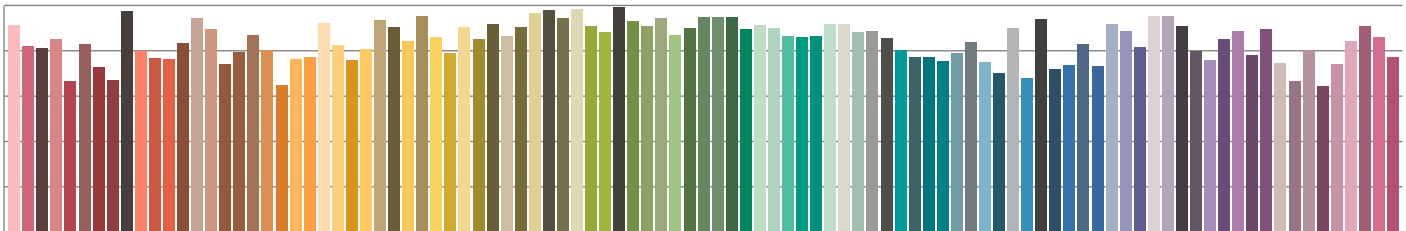
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80.7	83.2	77.0	86.8	89.8	93.4	92.2	90.3	88.6	79.1	78.7	82.2	86.0	88.1	78.6	78.7

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

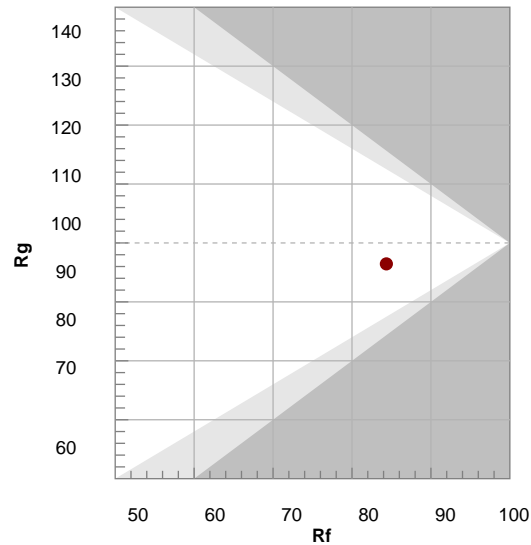
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81.5	88.8	94.4	82.8	81.7	84.8	86.0	64.8	8.6	73.5	82.1	64.9	83.3	96.9	74.6

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	2%	14%
12	82	5%	8%
13	86	8%	-5%
14	88	6%	-6%
15	79	0%	-16%
16	79	-5%	-13%



FIDELITY INDEX

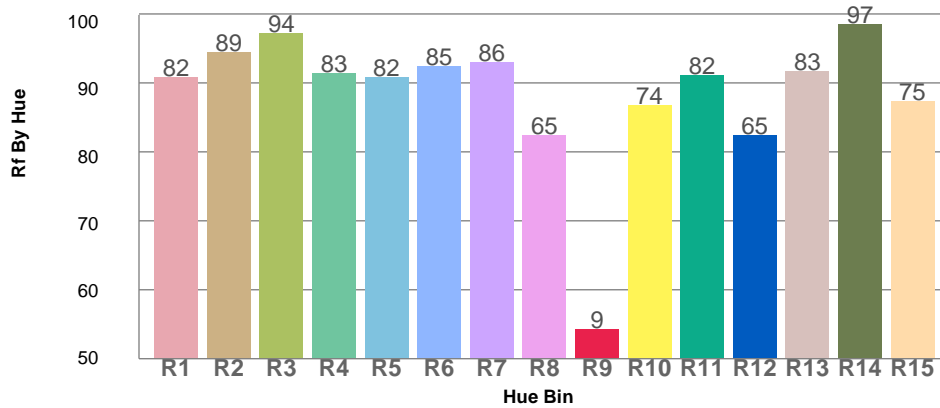
R_f 84.4

GAMUT INDEX

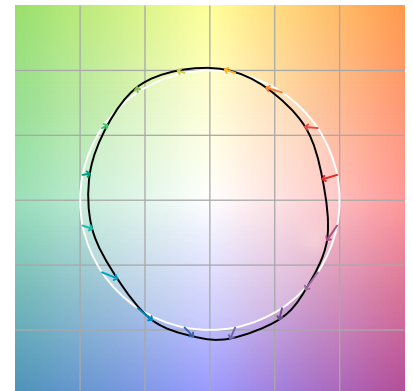
R_g 96.4

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

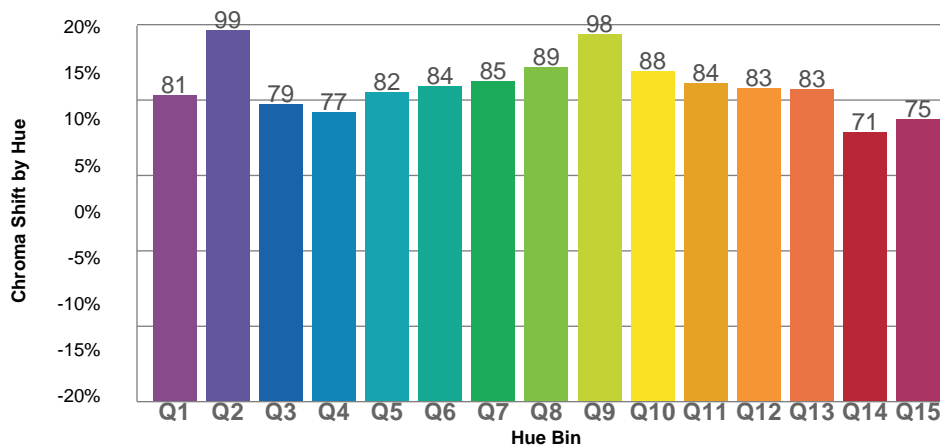
TM30 OVER 50



COLOR VECTOR GRAPHICS



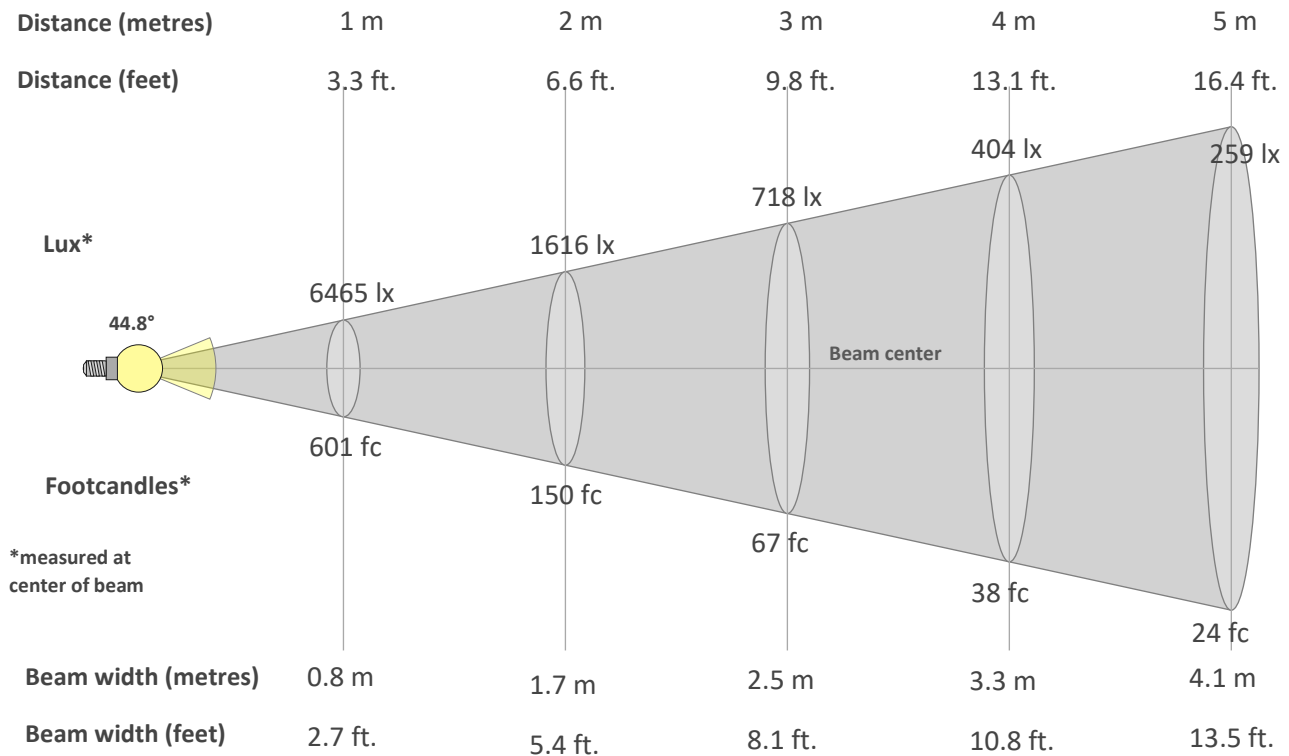
TM30 CHROMA SHIFT



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
6465lx	1616lx	718lx	404lx	259lx	180lx	132lx	101lx	80lx	65lx	53lx	45lx	38lx	33lx	29lx	25lx	22lx	20lx	18lx	16lx
600.6fc	150.1fc	66.7fc	37.5fc	24fc	16.7fc	12.3fc	9.4fc	7.4fc	6fc	5fc	4.2fc	3.6fc	3.1fc	2.7fc	2.3fc	2.1fc	1.9fc	1.7fc	1.5fc

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°
6465	6428	6330	6176	5974	5727	5437	5100	4718	4293	3841	3377	2929	2512	2138	1810	1534	1303	1109	941
100%	99%	98%	96%	92%	89%	84%	79%	73%	66%	59%	52%	45%	39%	33%	28%	24%	20%	17%	15%

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°
6465	6433	6343	6202	6010	5763	5460	5097	4687	4246	3796	3356	2942	2562	2224	1928	1670	1443	1241	1062
100%	100%	98%	96%	93%	89%	84%	79%	72%	66%	59%	52%	46%	40%	34%	30%	26%	22%	19%	16%

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°
6465	6428	6330	6176	5974	5727	5437	5100	4718	4293	3841	3377	2929	2512	2138	1810	1534	1303	1109	941
100%	99%	98%	96%	92%	89%	84%	79%	73%	66%	59%	52%	45%	39%	33%	28%	24%	20%	17%	15%

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°
6465	6433	6343	6202	6010	5763	5460	5097	4687	4246	3796	3356	2942	2562	2224	1928	1670	1443	1241	1062
100%	100%	98%	96%	93%	89%	84%	79%	72%	66%	59%	52%	46%	40%	34%	30%	26%	22%	19%	16%