

FL200-RGBW40K-OM-80-ELV (WH)

PRODUCT PHOTOMETRIC REPORT



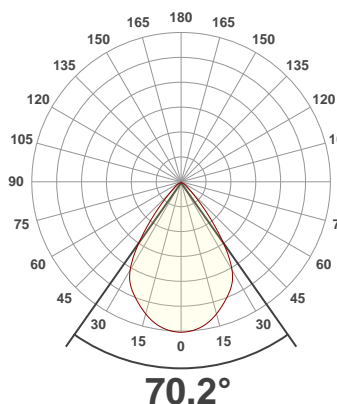
PRODUCT INFORMATION

SERIAL NUMBER: LL-20191015-871

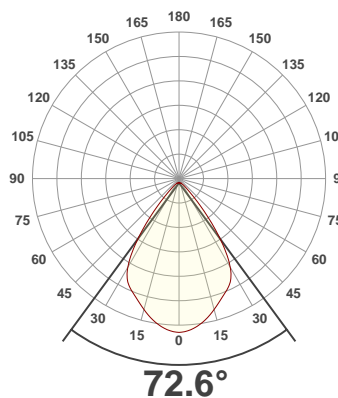
DATE OF MEASUREMENT: 2019-10-15

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

ANGULAR DISTRIBUTION AT C0/180



ANGULAR DISTRIBUTION AT C90/270



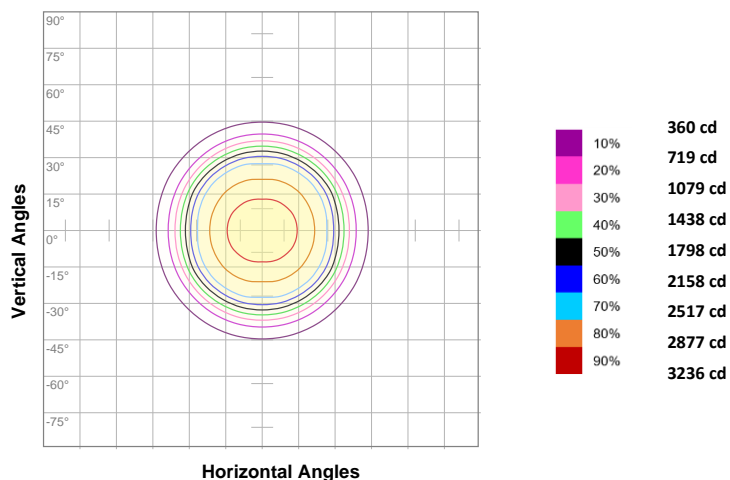
LIGHT OUTPUT DATA

TOTAL LUMEN OUTPUT: 4632 lm
EFFICACY: 84 lm/W
PEAK INTENSITY: 3597 cd
COLOR RENDERING INDEX (CRI): 83.1
COLOR TEMPERATURE (CCT): 3964K
FIDELITY INDEX (TM30Rf): 84.4
GAMUT INDEX (TM30Rg): 96.5

BEAM OUTPUT DATA

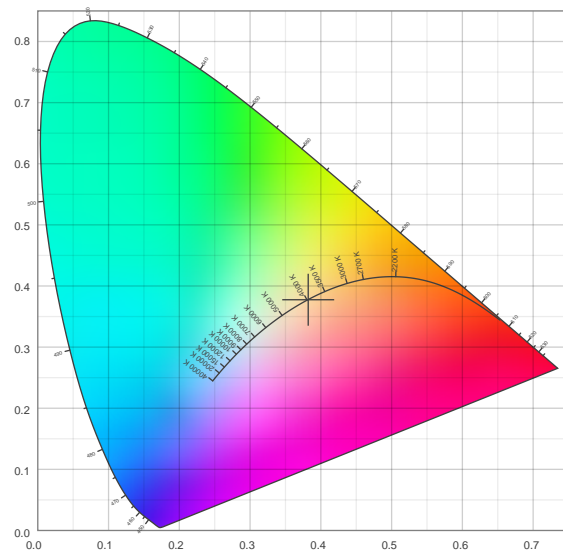
BEAM ANGLE (FWHM) | C0/180: 70.2°
BEAM ANGLE (FWHM) | C90/270: 72.6°
FIELD ANGLE (10%) | C0/180: 97.2°
FIELD ANGLE (10%) | C90/270: 99.4°
NUMBER OF PLANES MEASURED: 12

ISOCANDELA DIAGRAM

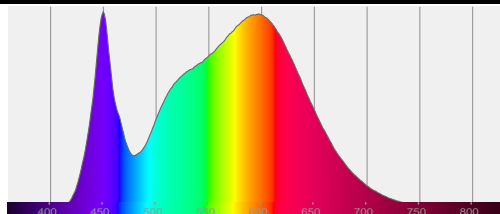


INPUT POWER: 55.2 W
POWER FACTOR: 1.0
OPTICAL POWER: 14.0 mW
PEAK WAVELENGTH: 450 nm
DOMINANT WAVELENGTH: 582 nm

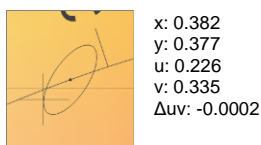
CIE 1931



SPECTRAL DISTRIBUTION

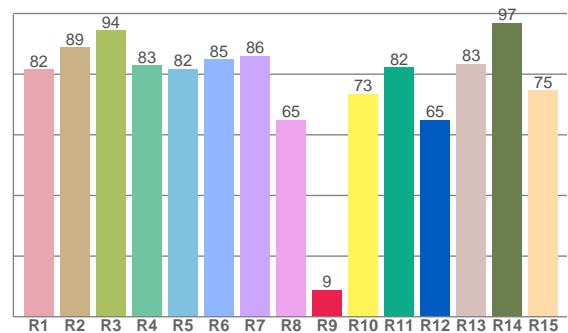
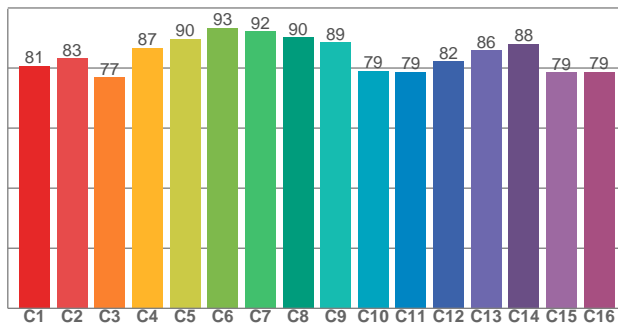


CIE 1931 ZOOM



ZONAL LUMEN SUMMARY

0°-10° 335 lm	10°-20° 914 lm	20°-30° 1302 lm	30°-40° 1190 lm	40°-50° 499 lm	50°-60° 197 lm	60°-70° 115 lm	70°-80° 60.2 lm	80°-90° 14.3 lm
90°-100° 1.09 lm	100°-110° 1.05 lm	110°-120° 0.721 lm	120°-130° 0.592 lm	130°-140° 0.439 lm	140°-150° 0.302 lm	150°-160° 0.223 lm	160°-170° 0.136 lm	170°-180° 0.046 lm

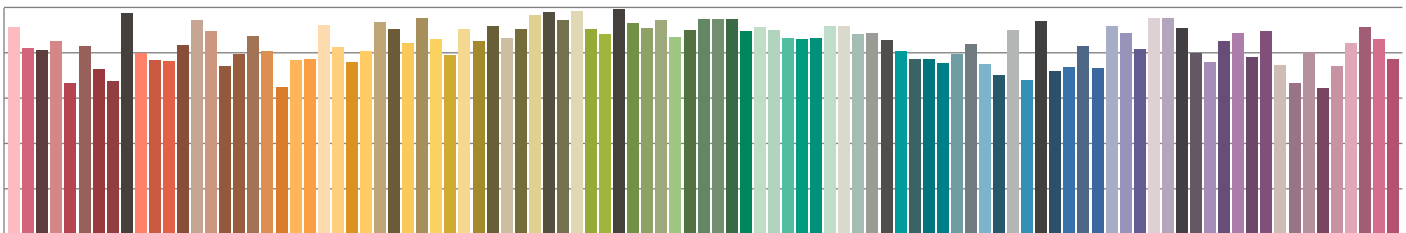
COLOR DETAILS
TM30: 84.4
CRI: 83.1 (R1-R8)


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	83.3	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

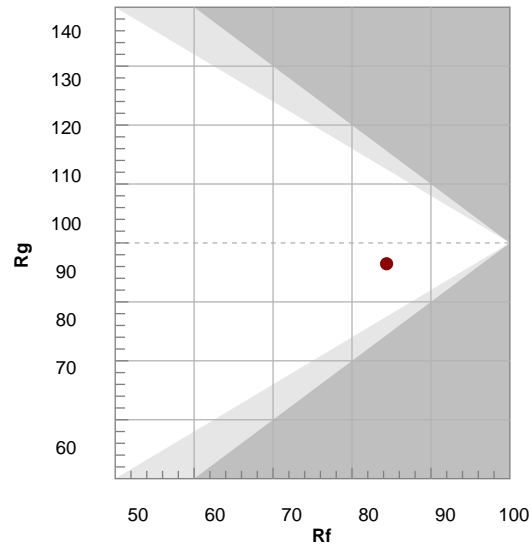
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81.5	88.8	94.3	82.9	81.7	84.8	86.0	64.9	8.7	73.5	82.2	64.9	83.3	96.9	74.7

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%



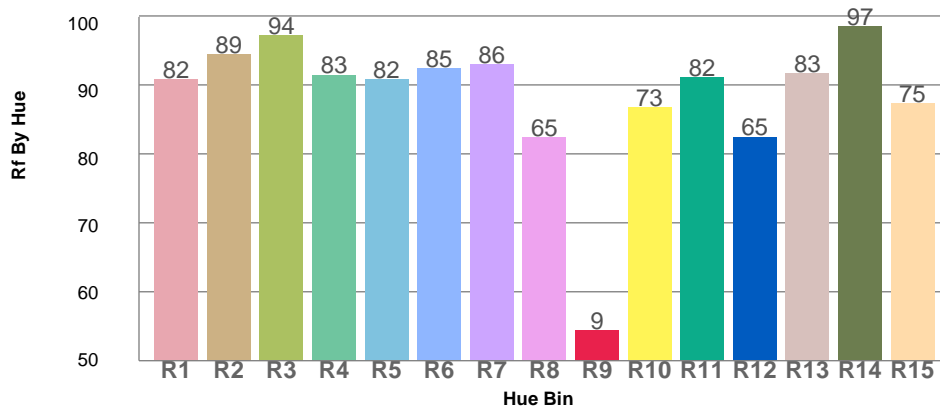
FIDELITY INDEX

R_f 84.4

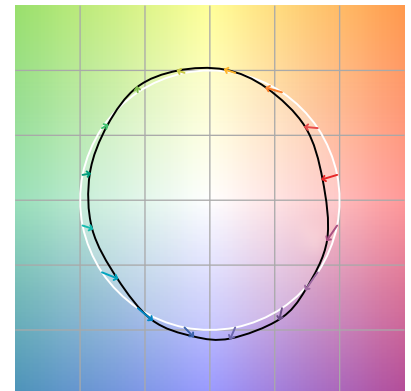
GAMUT INDEX

R_g 96.5

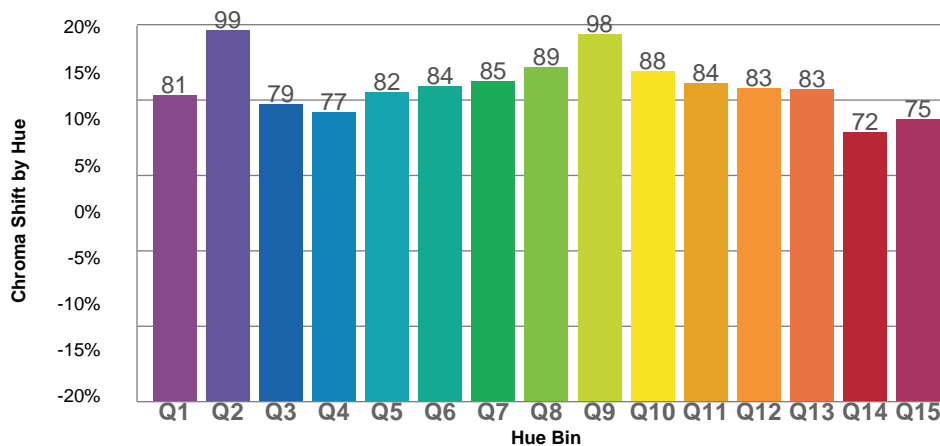
TM30 OVER 50



COLOR VECTOR GRAPHICS



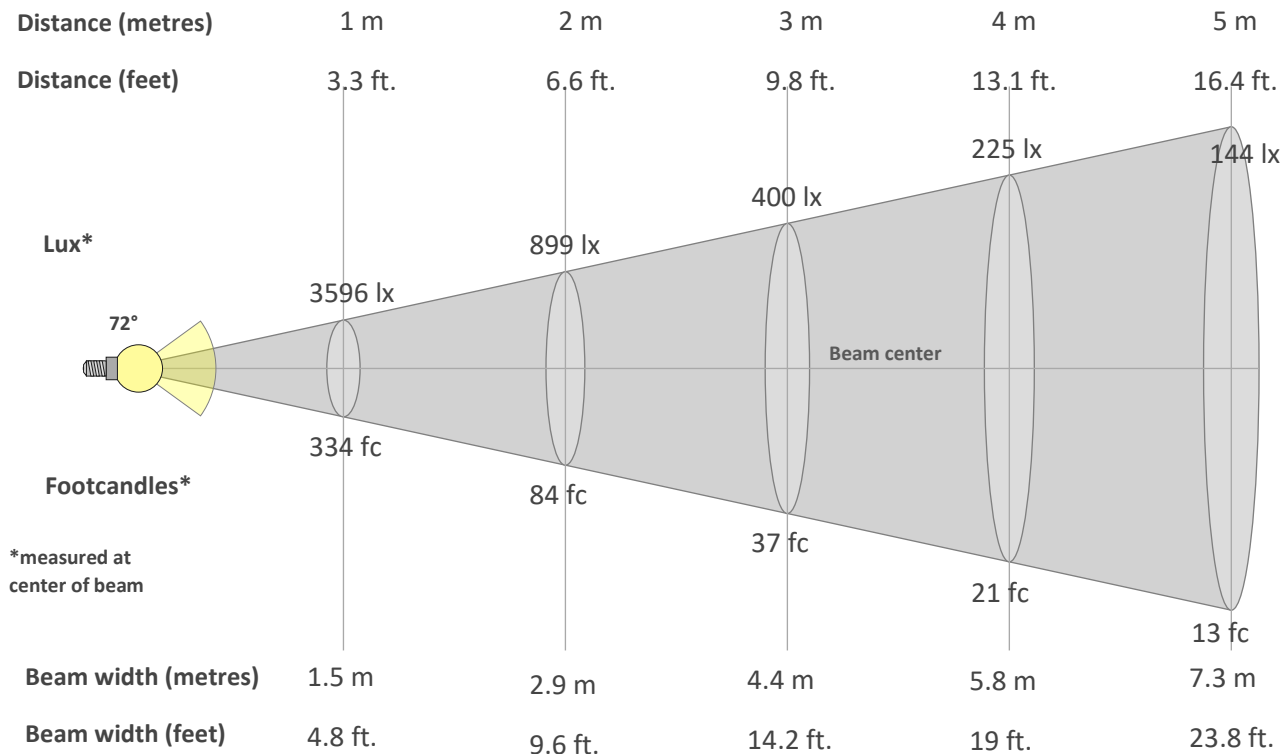
TM30 CHROMA SHIFT



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
3596lx	899lx	400lx	225lx	144lx	100lx	73lx	56lx	44lx	36lx	30lx	25lx	21lx	18lx	16lx	14lx	12lx	11lx	10lx	9lx
334.1fc	83.5fc	37.1fc	20.9fc	13.4fc	9.3fc	6.8fc	5.2fc	4.1fc	3.3fc	2.8fc	2.3fc	2fc	1.7fc	1.5fc	1.3fc	1.2fc	1fc	0.9fc	0.8fc

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°
3596	3589	3571	3544	3505	3453	3390	3316	3236	3149	3060	2969	2874	2773	2649	2473	2245	1970	1662	1348
100%	100%	99%	99%	97%	96%	94%	92%	90%	88%	85%	83%	80%	77%	74%	69%	62%	55%	46%	37%

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°
3596	3587	3560	3520	3465	3401	3329	3249	3165	3081	3000	2926	2856	2786	2693	2557	2371	2132	1844	1530
100%	100%	99%	98%	96%	95%	93%	90%	88%	86%	83%	81%	79%	77%	75%	71%	66%	59%	51%	43%

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°
3596	3589	3571	3544	3505	3453	3390	3316	3236	3149	3060	2969	2874	2773	2649	2473	2245	1970	1662	1348
100%	100%	99%	99%	97%	96%	94%	92%	90%	88%	85%	83%	80%	77%	74%	69%	62%	55%	46%	37%

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°
3596	3587	3560	3520	3465	3401	3329	3249	3165	3081	3000	2926	2856	2786	2693	2557	2371	2132	1844	1530
100%	100%	99%	98%	96%	95%	93%	90%	88%	86%	83%	81%	79%	77%	75%	71%	66%	59%	51%	43%