

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

## PRODUCT PHOTOMETRIC REPORT



### PRODUCT INFORMATION

SERIAL NUMBER: LL-20191015-881

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

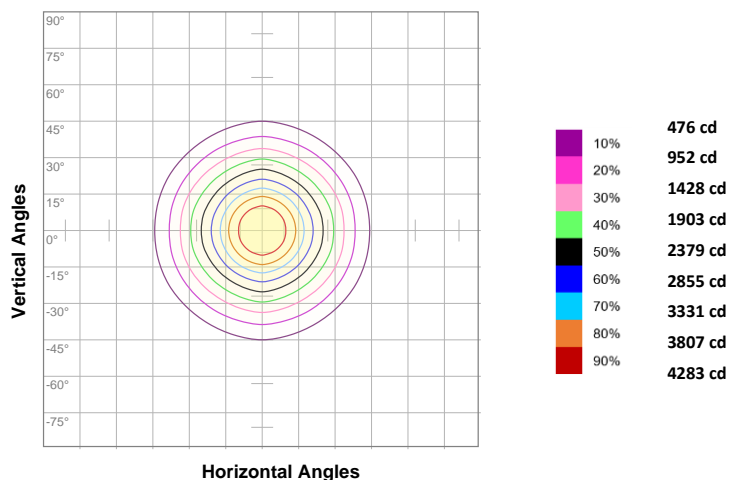
### LIGHT OUTPUT DATA

TOTAL LUMEN OUTPUT:	4716 lm
EFFICACY:	86 lm/W
PEAK INTENSITY:	4764 cd
COLOR RENDERING INDEX (CRI):	83.1
COLOR TEMPERATURE (CCT):	3960K
FIDELITY INDEX (TM30Rf):	84.4
GAMUT INDEX (TM30Rg):	96.5

### BEAM OUTPUT DATA

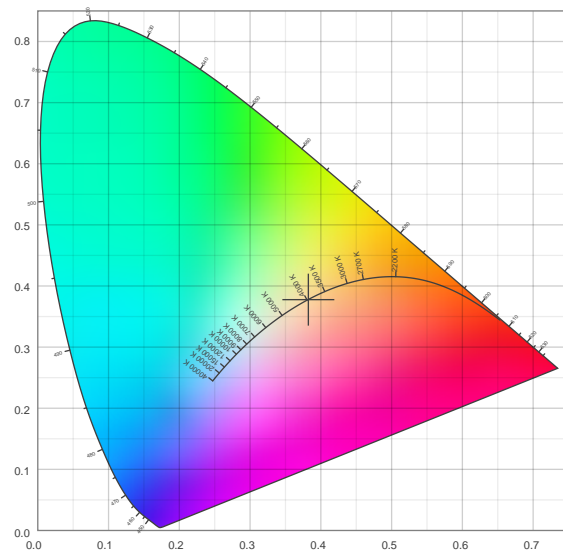
BEAM ANGLE (FWHM)   C0/180:	55.9°
BEAM ANGLE (FWHM)   C90/270:	56°
FIELD ANGLE (10%)   C0/180:	98.3°
FIELD ANGLE (10%)   C90/270:	99.9°
NUMBER OF PLANES MEASURED:	12

### ISOCANDELA DIAGRAM

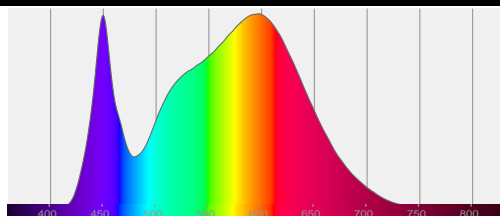


INPUT POWER:	54.8 W
POWER FACTOR:	1.0
OPTICAL POWER:	14.3 mW
PEAK WAVELENGTH:	450 nm
DOMINANT WAVELENGTH:	582 nm

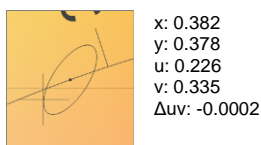
### CIE 1931



### SPECTRAL DISTRIBUTION

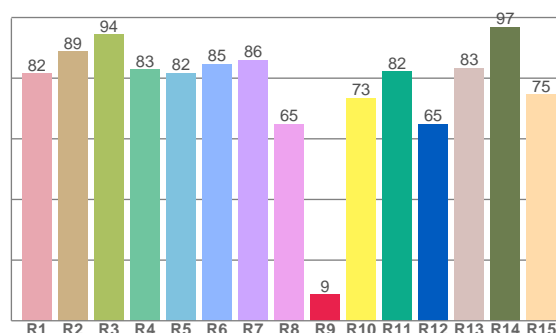
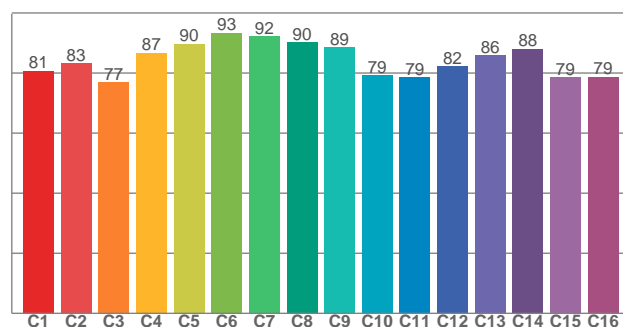


### CIE 1931 ZOOM



**ZONAL LUMEN SUMMARY**

0°-10° 436 lm	10°-20° 1067 lm	20°-30° 1211 lm	30°-40° 1017 lm	40°-50° 593 lm	50°-60° 229 lm	60°-70° 102 lm	70°-80° 48.1 lm	80°-90° 10.1 lm
90°-100° 0.673 lm	100°-110° 0.652 lm	110°-120° 0.334 lm	120°-130° 0.242 lm	130°-140° 0.188 lm	140°-150° 0.138 lm	150°-160° 0.101 lm	160°-170° 0.062 lm	170°-180° 0.021 lm

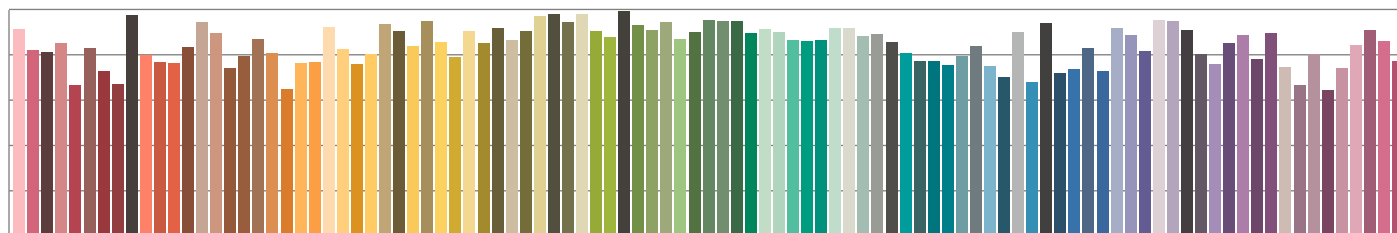
**COLOR DETAILS**
**TM30: 84.4**
**CRI: 83.1 (R1-R8)**


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

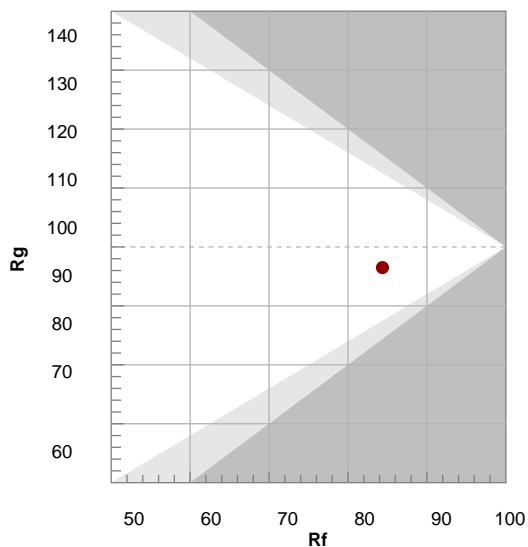
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80.7	83.3	77.0	86.7	89.7	93.3	92.2	90.3	88.6	79.1	78.7	82.2	86.0	88.1	78.6	78.7

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	84.7	86.0	64.9	8.6	73.4	82.2	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	1%	14%
12	82	5%	8%
13	86	8%	-5%
14	88	6%	-6%
15	79	0%	-16%
16	79	-5%	-13%



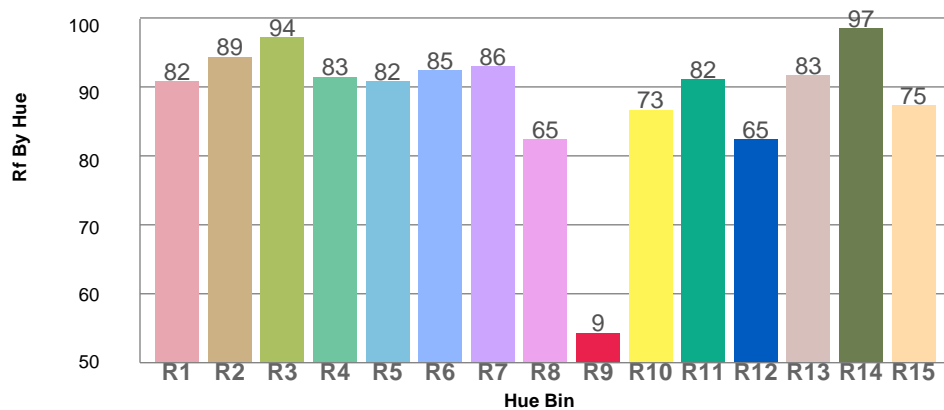
FIDELITY INDEX

**$R_f$  84.4**

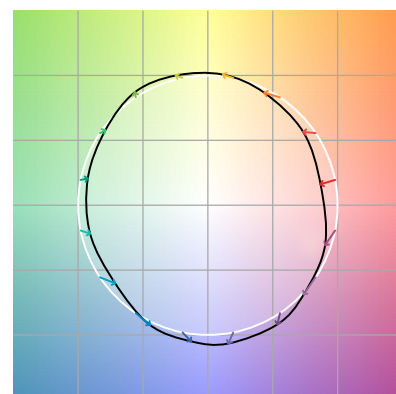
GAMUT INDEX

**$R_g$  96.5**

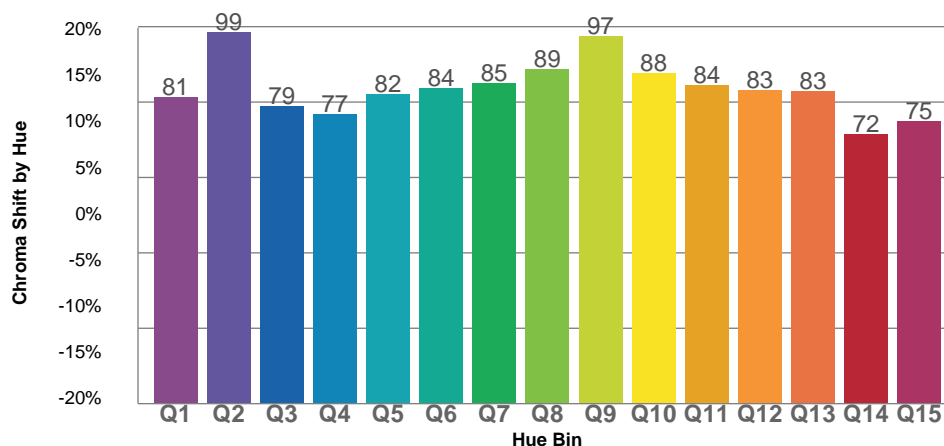
### TM30 OVER 50



### COLOR VECTOR GRAPHICS



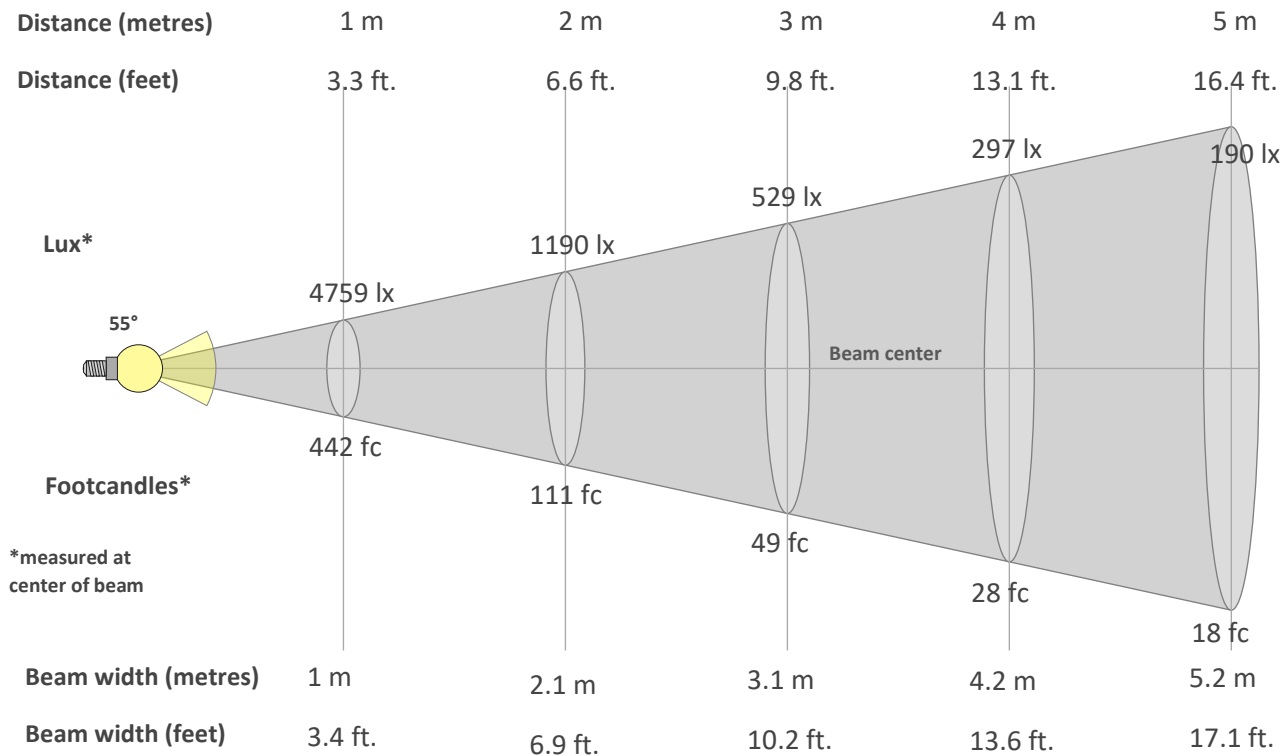
### TM30 CHROMA SHIFT



### 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
4759lx	1190lx	529lx	297lx	190lx	132lx	97lx	74lx	59lx	48lx	39lx	33lx	28lx	24lx	21lx	19lx	16lx	15lx	13lx	12lx
442.1fc	110.5fc	49.1fc	27.6fc	17.7fc	12.3fc	9fc	6.9fc	5.5fc	4.4fc	3.7fc	3.1fc	2.6fc	2.3fc	2fc	1.7fc	1.5fc	1.4fc	1.2fc	1.1fc

**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°
4759	4743	4689	4601	4487	4345	4172	3962	3725	3477	3231	2998	2778	2570	2368	2170	1971	1771	1570	1372
100%	100%	99%	97%	94%	91%	88%	83%	78%	73%	68%	63%	58%	54%	50%	46%	41%	37%	33%	29%

**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°
4759	4745	4703	4635	4538	4391	4208	3992	3752	3499	3254	3021	2799	2587	2383	2179	1974	1771	1571	1377
100%	100%	99%	97%	95%	92%	88%	84%	79%	74%	68%	63%	59%	54%	50%	46%	41%	37%	33%	29%

**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°
4759	4743	4689	4601	4487	4345	4172	3962	3725	3477	3231	2998	2778	2570	2368	2170	1971	1771	1570	1372
100%	100%	99%	97%	94%	91%	88%	83%	78%	73%	68%	63%	58%	54%	50%	46%	41%	37%	33%	29%

**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°
4759	4745	4703	4635	4538	4391	4208	3992	3752	3499	3254	3021	2799	2587	2383	2179	1974	1771	1571	1377
100%	100%	99%	97%	95%	92%	88%	84%	79%	74%	68%	63%	59%	54%	50%	46%	41%	37%	33%	29%