

# FL200-RGBW40K-OM-10-ELV (WH)

## PRODUCT PHOTOMETRIC REPORT



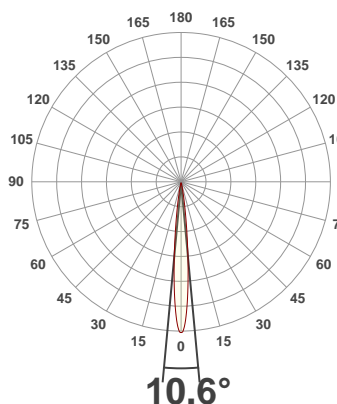
### PRODUCT INFORMATION

SERIAL NUMBER: LL-20191011-855

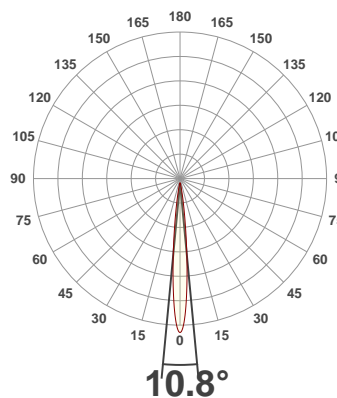
DATE OF MEASUREMENT: 2019-10-11

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

### ANGULAR DISTRIBUTION AT C0/180



### ANGULAR DISTRIBUTION AT C90/270



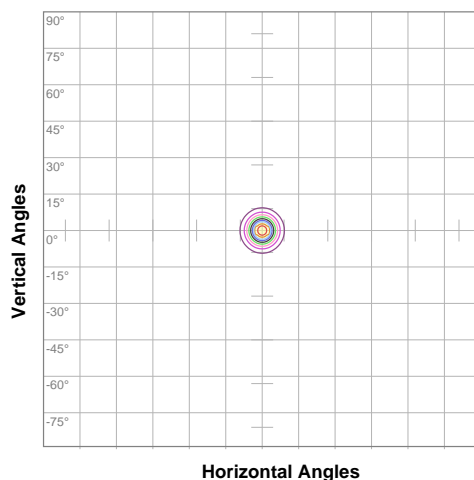
### LIGHT OUTPUT DATA

TOTAL LUMEN OUTPUT: 4400 lm  
 EFFICACY: 80 lm/W  
 PEAK INTENSITY: 93197 cd  
 COLOR RENDERING INDEX (CRI): 83.1  
 COLOR TEMPERATURE (CCT): 3936K  
 FIDELITY INDEX (TM30Rf): 84.4  
 GAMUT INDEX (TM30Rg): 96.5

### BEAM OUTPUT DATA

BEAM ANGLE (FWHM) | C0/180: 10.6°  
 BEAM ANGLE (FWHM) | C90/270: 10.8°  
 FIELD ANGLE (10%) | C0/180: 20.4°  
 FIELD ANGLE (10%) | C90/270: 21°  
 NUMBER OF PLANES MEASURED: 12

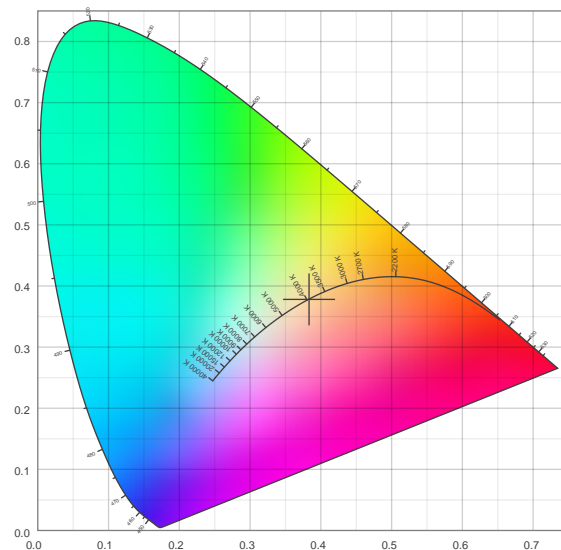
### ISOCANDELA DIAGRAM



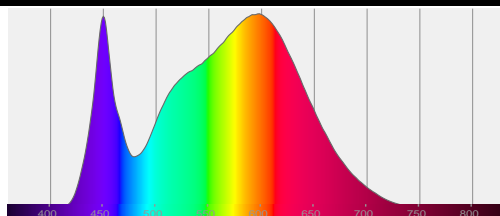
10% 9303 cd  
 20% 18607 cd  
 30% 27910 cd  
 40% 37213 cd  
 50% 46517 cd  
 60% 55820 cd  
 70% 65123 cd  
 80% 74427 cd  
 90% 83730 cd

INPUT POWER: 54.8 W  
 POWER FACTOR: 1.0  
 OPTICAL POWER: 13.3 mW  
 PEAK WAVELENGTH: 597 nm  
 DOMINANT WAVELENGTH: 582 nm

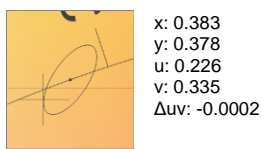
### CIE 1931



### SPECTRAL DISTRIBUTION

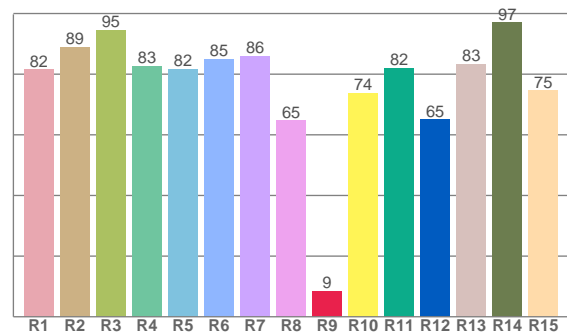
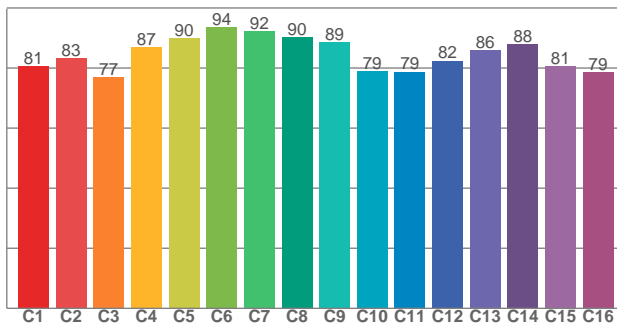


### CIE 1931 ZOOM



**ZONAL LUMEN SUMMARY**

0°-10° 3405 lm	10°-20° 754 lm	20°-30° 159 lm	30°-40° 64.0 lm	40°-50° 14.7 lm	50°-60° 3.08 lm	60°-70° 0.355 lm	70°-80° 0.092 lm	80°-90° 0.016 lm
90°-100° 0.004 lm	100°-110° 0.004 lm	110°-120° 0.003 lm	120°-130° 0.002 lm	130°-140° 0.002 lm	140°-150° 0.001 lm	150°-160° 0.001 lm	160°-170° 0.000 lm	170°-180° 0.000 lm

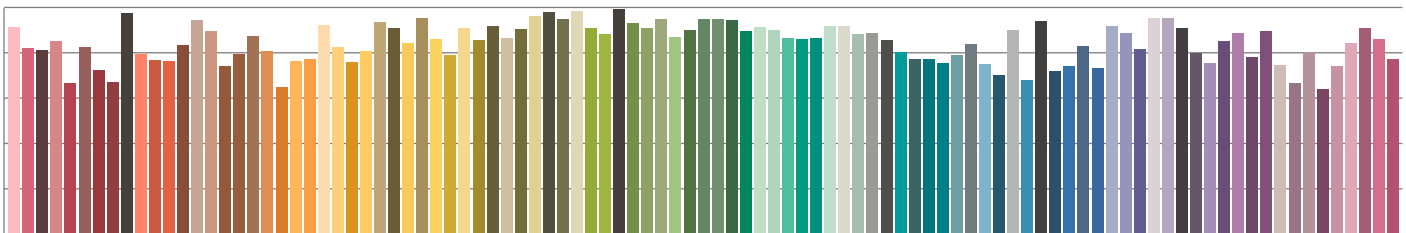
**COLOR DETAILS**
**TM30: 84.4**
**CRI: 83.1 (R1-R8)**


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
80.6	83.2	77.0	86.9	89.8	93.5	92.1	90.3	88.5	79.0	78.7	82.3	85.9	87.8	80.5	78.7

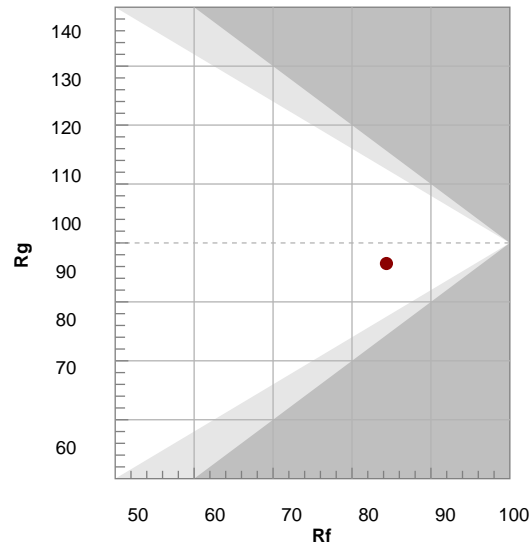
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81.5	88.9	94.5	82.7	81.6	84.9	85.9	64.6	8.5	73.7	81.9	65.0	83.3	97.0	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	94	3%	-2%
7	92	-2%	-4%
8	90	-5%	-2%
9	89	-7%	4%
10	79	-7%	11%
11	79	2%	14%
12	82	5%	8%
13	86	8%	-5%
14	88	9%	-7%
15	81	-1%	-14%
16	79	-6%	-12%



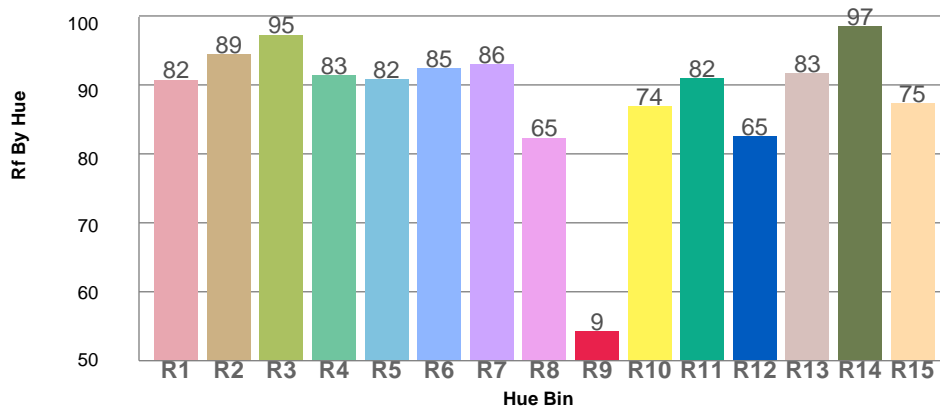
FIDELITY INDEX

**$R_f$  84.4**

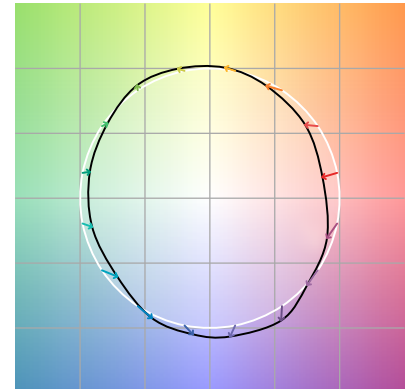
GAMUT INDEX

**$R_g$  96.5**

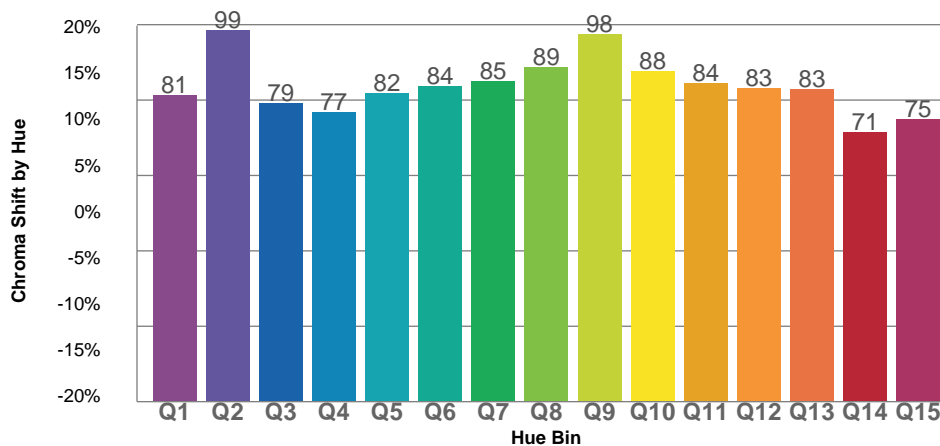
TM30 OVER 50



COLOR VECTOR GRAPHICS



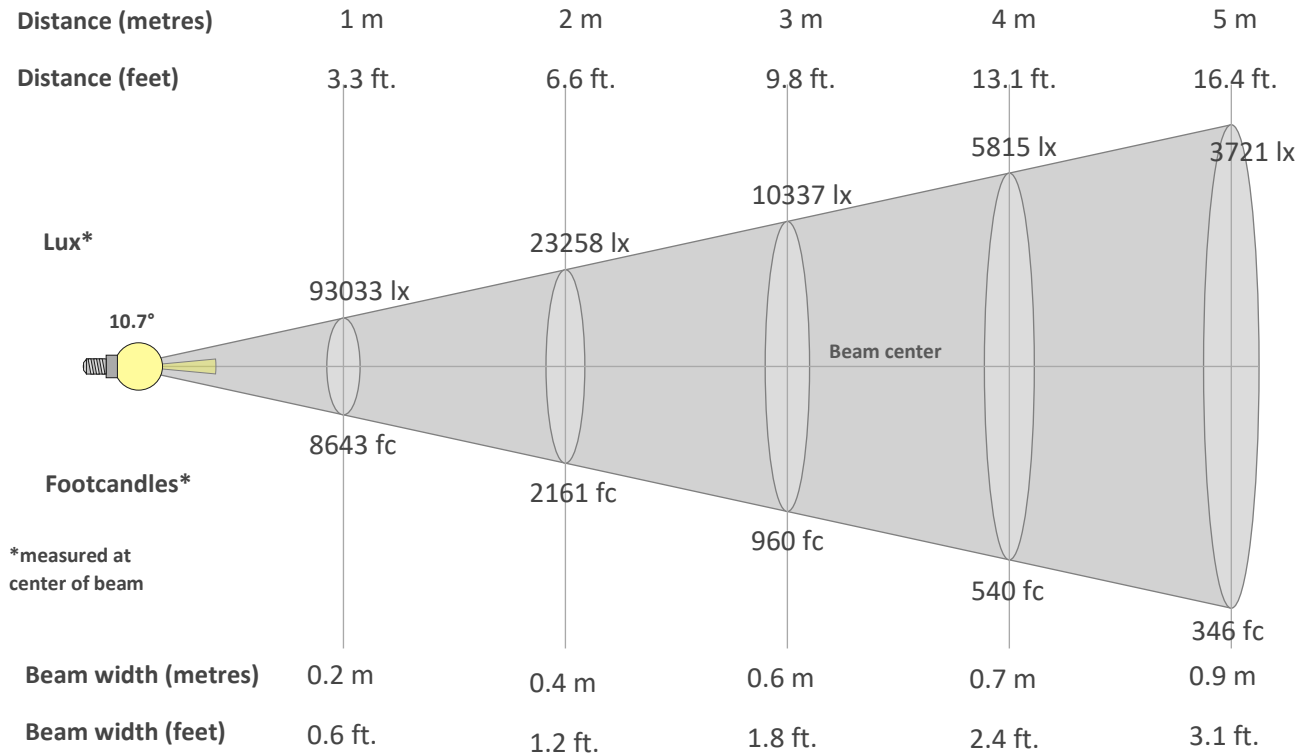
TM30 CHROMA SHIFT



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
93033lx	23258lx	10337lx	5815lx	3721lx	2584lx	1899lx	1454lx	1149lx	930lx	769lx	646lx	550lx	475lx	413lx	363lx	322lx	287lx	258lx	233lx
8643.1fc	2160.8fc	960.3fc	540.2fc	345.7fc	240.1fc	176.4fc	135fc	106.7fc	86.4fc	71.4fc	60fc	51.1fc	44.1fc	38.4fc	33.8fc	29.9fc	26.7fc	23.9fc	21.6fc

**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°
93.0K	90.8K	83.9K	73.9K	62.0K	49.7K	38.1K	28.2K	20.3K	14.3K	10.0K	6.9K	4.9K	3.5K	2.6K	1.9K	1.5K	1.2K	1.0K	0.8K
100%	98%	90%	79%	67%	53%	41%	30%	22%	15%	11%	7%	5%	4%	3%	2%	2%	1%	1%	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°
93.0K	90.9K	84.5K	74.7K	63.1K	51.2K	39.7K	29.8K	21.7K	15.6K	11.1K	7.9K	5.7K	4.1K	3.1K	2.3K	1.8K	1.5K	1.2K	1.0K
100%	98%	91%	80%	68%	55%	43%	32%	23%	17%	12%	8%	6%	4%	3%	3%	2%	2%	1%	1%

**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°
93.0K	90.8K	83.9K	73.9K	62.0K	49.7K	38.1K	28.2K	20.3K	14.3K	10.0K	6.9K	4.9K	3.5K	2.6K	1.9K	1.5K	1.2K	1.0K	0.8K
100%	98%	90%	79%	67%	53%	41%	30%	22%	15%	11%	7%	5%	4%	3%	2%	2%	1%	1%	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°
93.0K	90.9K	84.5K	74.7K	63.1K	51.2K	39.7K	29.8K	21.7K	15.6K	11.1K	7.9K	5.7K	4.1K	3.1K	2.3K	1.8K	1.5K	1.2K	1.0K
100%	98%	91%	80%	68%	55%	43%	32%	23%	17%	12%	8%	6%	4%	3%	3%	2%	2%	1%	1%