

# FL200-RGBW40K-OM-10x40-ELV (WH)

## PRODUCT PHOTOMETRIC REPORT



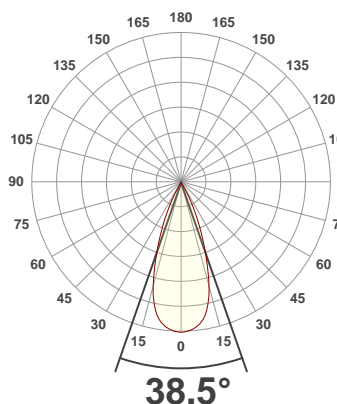
### PRODUCT INFORMATION

SERIAL NUMBER: LL-20191017-895

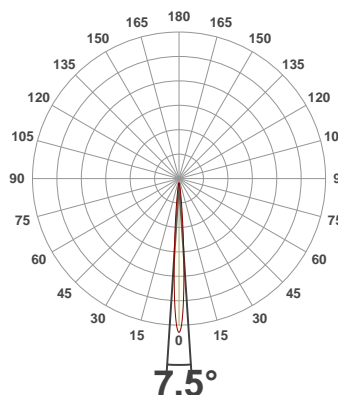
DATE OF MEASUREMENT: 2019-10-17

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

### ANGULAR DISTRIBUTION AT C0/180



### ANGULAR DISTRIBUTION AT C90/270



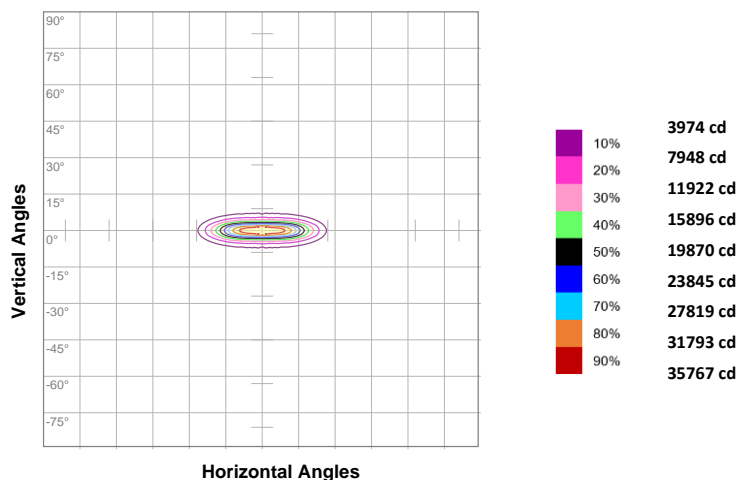
### LIGHT OUTPUT DATA

TOTAL LUMEN OUTPUT: 4426 lm  
 EFFICACY: 32 lm/W  
 PEAK INTENSITY: 39762 cd  
 COLOR RENDERING INDEX (CRI): 82.9  
 COLOR TEMPERATURE (CCT): 3930K  
 FIDELITY INDEX (TM30Rf): 84.3  
 GAMUT INDEX (TM30Rg): 96.5

### BEAM OUTPUT DATA

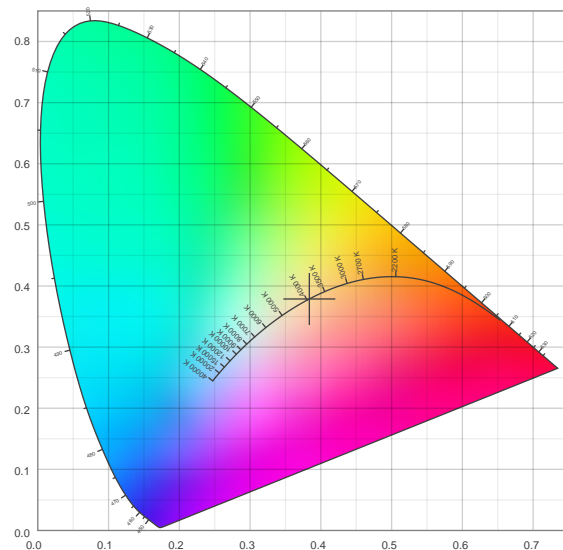
BEAM ANGLE (FWHM) | C0/180: 38.5°  
 BEAM ANGLE (FWHM) | C90/270: 7.5°  
 FIELD ANGLE (10%) | C0/180: 58.8°  
 FIELD ANGLE (10%) | C90/270: 15.9°  
 NUMBER OF PLANES MEASURED: 36

### ISOCANDELA DIAGRAM



INPUT POWER: 137.2 W  
 POWER FACTOR: 1.0  
 OPTICAL POWER: 13.3 mW  
 PEAK WAVELENGTH: 597 nm  
 DOMINANT WAVELENGTH: 582 nm

### CIE 1931



### SPECTRAL DISTRIBUTION

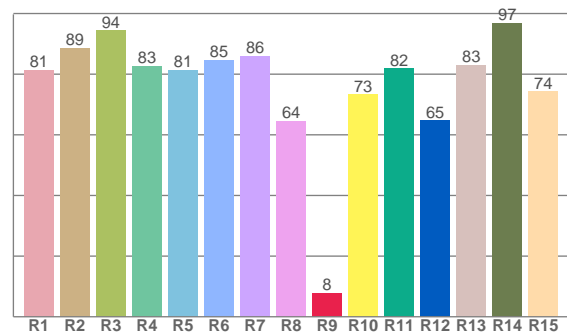
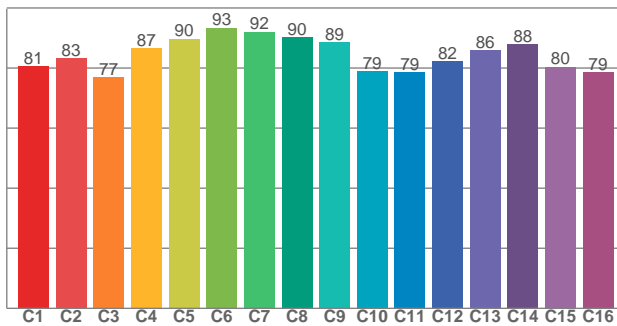


### CIE 1931 ZOOM



**ZONAL LUMEN SUMMARY**

0°-10° 1825 lm	10°-20° 1689 lm	20°-30° 683 lm	30°-40° 152 lm	40°-50° 48.9 lm	50°-60° 21.3 lm	60°-70° 5.97 lm	70°-80° 0.693 lm	80°-90° 0.023 lm
90°-100° 0.003 lm	100°-110° 0.003 lm	110°-120° 0.002 lm	120°-130° 0.002 lm	130°-140° 0.001 lm	140°-150° 0.001 lm	150°-160° 0.000 lm	160°-170° 0.000 lm	170°-180° 0.001 lm

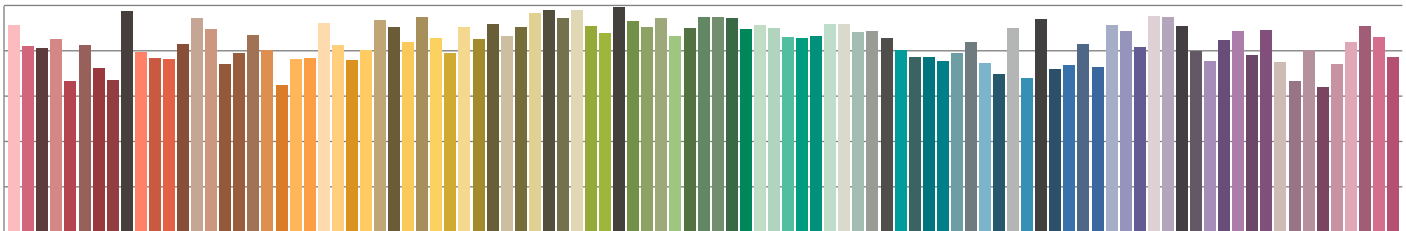
**COLOR DETAILS**
**TM30: 84.3**
**CRI: 82.9 (R1-R8)**


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

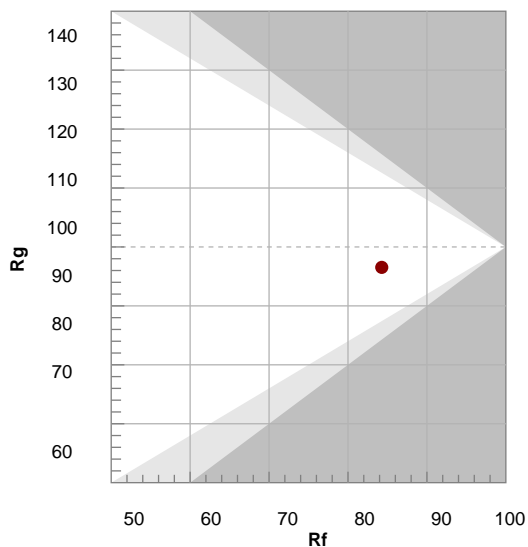
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80.5	83.1	76.8	86.7	89.7	93.4	92.1	90.2	88.5	79.0	78.6	82.2	85.9	87.8	80.4	78.6

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81.3	88.7	94.4	82.7	81.4	84.7	85.9	64.5	7.9	73.2	81.9	64.7	83.1	96.9	74.3

**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	80	0%	-14%
16	79	-5%	-13%



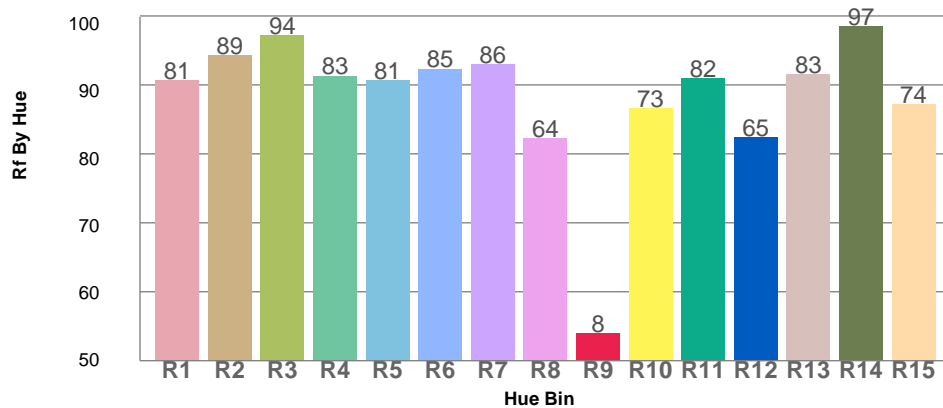
FIDELITY INDEX

**$R_f$  84.3**

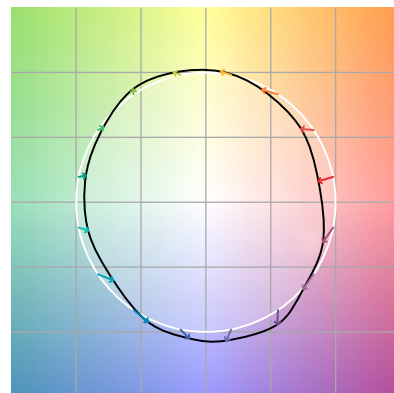
GAMUT INDEX

**$R_g$  96.5**

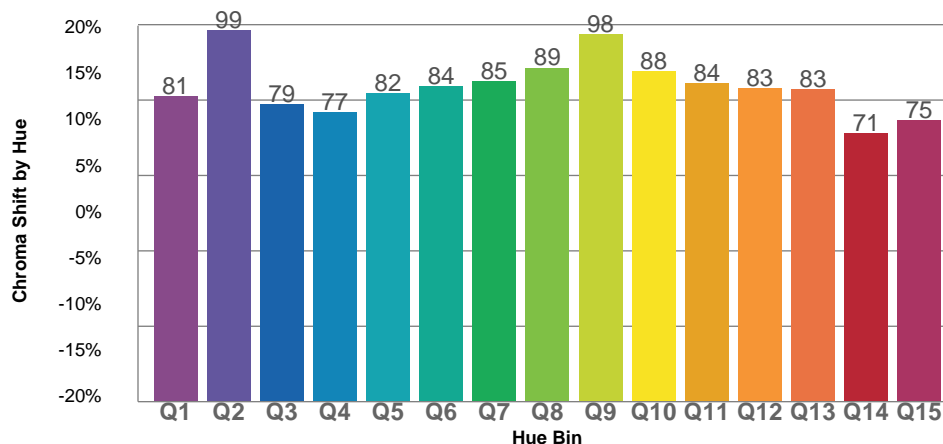
TM30 OVER 50



COLOR VECTOR GRAPHICS

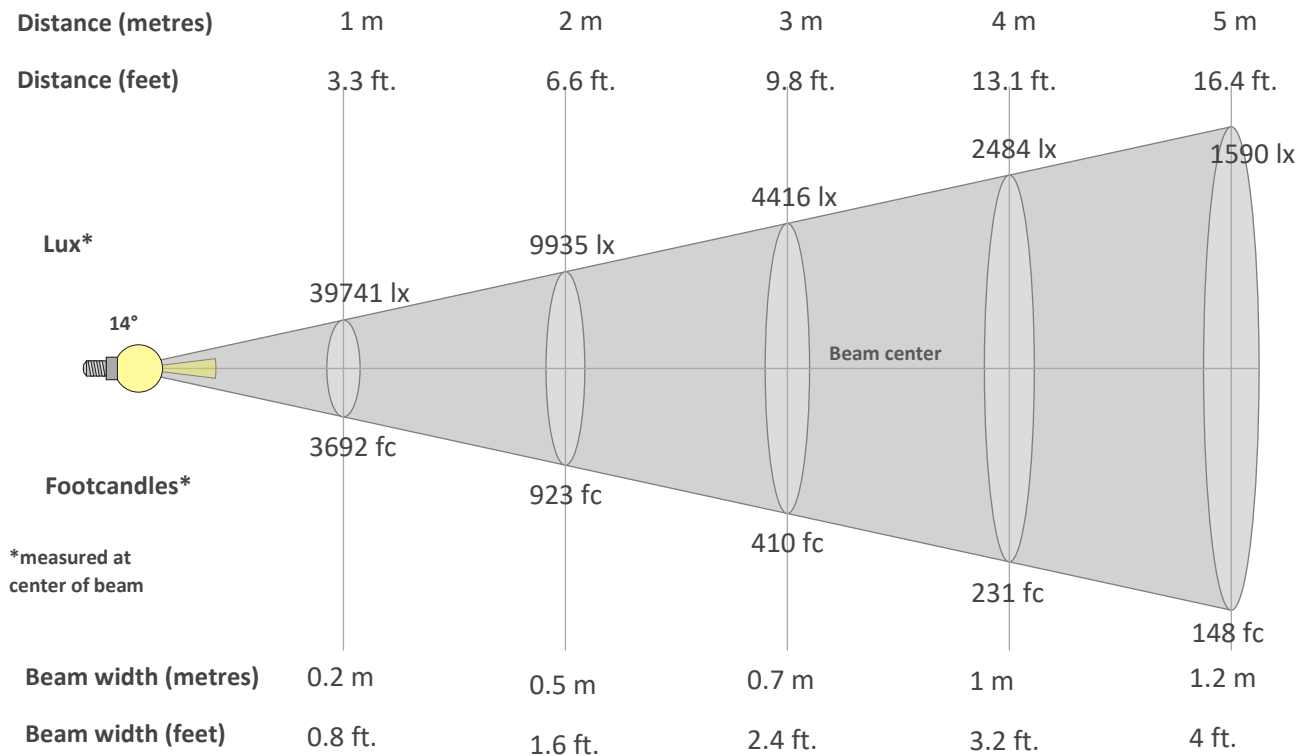


TM30 CHROMA SHIFT



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
39741lx	9935lx	4416lx	2484lx	1590lx	1104lx	811lx	621lx	491lx	397lx	328lx	276lx	235lx	203lx	177lx	155lx	138lx	123lx	110lx	99lx
3692.1fc	923fc	410.2fc	230.8fc	147.7fc	102.6fc	75.3fc	57.7fc	45.6fc	36.9fc	30.5fc	25.6fc	21.8fc	18.8fc	16.4fc	14.4fc	12.8fc	11.4fc	10.2fc	9.2fc

**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°
39.7K	39.7K	39.6K	39.4K	39.2K	38.9K	38.6K	38.1K	37.6K	36.9K	36.1K	35.1K	33.8K	32.4K	30.8K	28.8K	26.8K	24.6K	22.4K	20.3K
100%	100%	100%	99%	99%	98%	97%	96%	95%	93%	91%	88%	85%	81%	78%	73%	67%	62%	56%	51%

**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°
39.7K	37.9K	32.7K	25.4K	18.0K	12.2K	8.2K	5.6K	3.9K	2.8K	2.0K	1.5K	1.2K	0.9K	0.8K	0.6K	0.6K	0.5K	0.4K	0.4K
100%	95%	82%	64%	45%	31%	21%	14%	10%	7%	5%	4%	3%	2%	2%	2%	1%	1%	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°
39.7K	39.7K	39.6K	39.4K	39.2K	38.9K	38.6K	38.1K	37.6K	36.9K	36.1K	35.1K	33.8K	32.4K	30.8K	28.8K	26.8K	24.6K	22.4K	20.3K
100%	100%	100%	99%	99%	98%	97%	96%	95%	93%	91%	88%	85%	81%	78%	73%	67%	62%	56%	51%

**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°
39.7K	37.9K	32.7K	25.4K	18.0K	12.2K	8.2K	5.6K	3.9K	2.8K	2.0K	1.5K	1.2K	0.9K	0.8K	0.6K	0.6K	0.5K	0.4K	0.4K
100%	95%	82%	64%	45%	31%	21%	14%	10%	7%	5%	4%	3%	2%	2%	2%	1%	1%	1%	1%