

# FL200-RGBW40K-OM-10x60-ELV (WH)

## PRODUCT PHOTOMETRIC REPORT



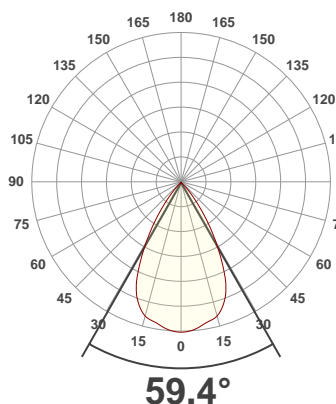
### PRODUCT INFORMATION

SERIAL NUMBER: LL-20191016-884

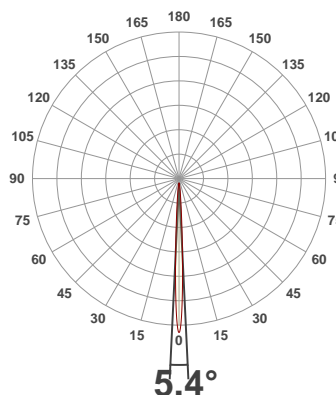
DATE OF MEASUREMENT: 2019-10-16

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

### ANGULAR DISTRIBUTION AT C0/180



### ANGULAR DISTRIBUTION AT C90/270



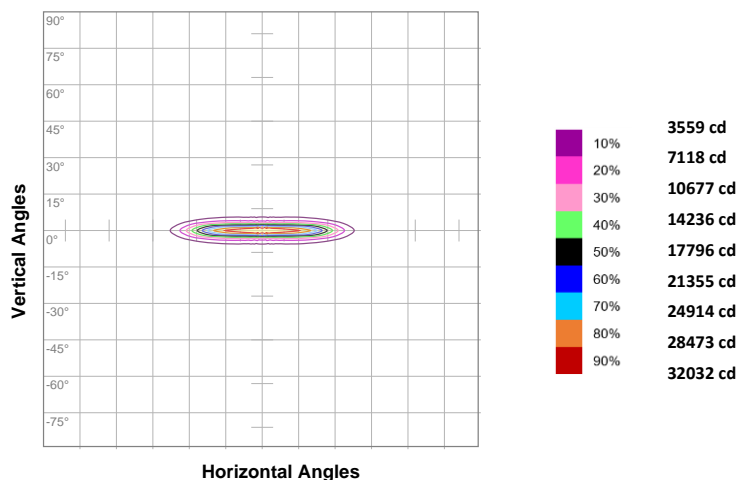
### LIGHT OUTPUT DATA

TOTAL LUMEN OUTPUT: 4609 lm  
EFFICACY: 144 lm/W  
PEAK INTENSITY: 35619 cd  
COLOR RENDERING INDEX (CRI): 0.0  
COLOR TEMPERATURE (CCT): 4000K  
FIDELITY INDEX (TM30Rf): 0.0  
GAMUT INDEX (TM30Rg): 0.0

### BEAM OUTPUT DATA

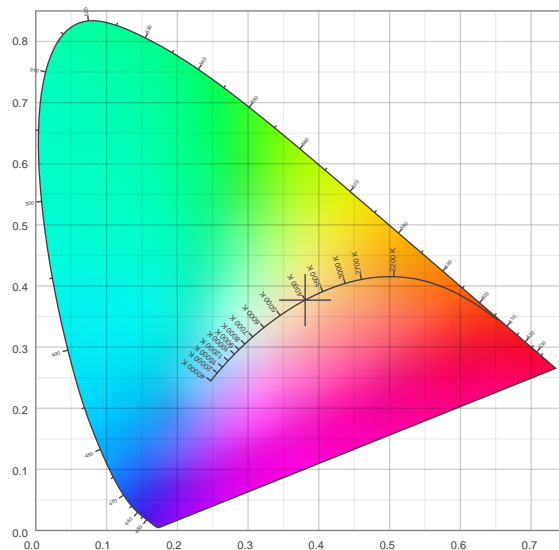
BEAM ANGLE (FWHM) | C0/180: 59.4°  
BEAM ANGLE (FWHM) | C90/270: 5.4°  
FIELD ANGLE (10%) | C0/180: 84.2°  
FIELD ANGLE (10%) | C90/270: 12.5°  
NUMBER OF PLANES MEASURED: 36

### ISOCANDELA DIAGRAM

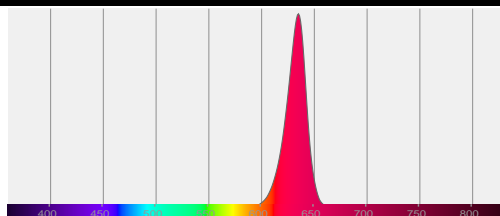


INPUT POWER: 32.1 W  
POWER FACTOR: 1.0  
OPTICAL POWER: 25.5 mW  
PEAK WAVELENGTH: 635 nm  
DOMINANT WAVELENGTH: 582 nm

### CIE 1931



### SPECTRAL DISTRIBUTION



### CIE 1931 ZOOM

x: 0.381  
y: 0.377  
u: 0.536  
v: 0.346  
 $\Delta u v$ : n/a

**ZONAL LUMEN SUMMARY**

0°-10° 1308 lm	10°-20° 1430 lm	20°-30° 1089 lm	30°-40° 527 lm	40°-50° 168 lm	50°-60° 58.2 lm	60°-70° 22.7 lm	70°-80° 5.10 lm	80°-90° 0.169 lm
90°-100° 0.015 lm	100°-110° 0.012 lm	110°-120° 0.009 lm	120°-130° 0.006 lm	130°-140° 0.005 lm	140°-150° 0.004 lm	150°-160° 0.003 lm	160°-170° 0.002 lm	170°-180° 0.001 lm

**COLOR DETAILS**
**TM30: 0.0**
**CRI: 0.0 (R1-R8)**

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15		

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

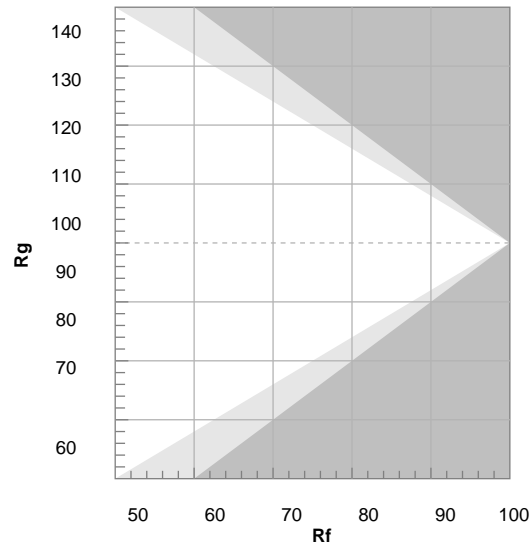
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**TM30 COLOR EVALUATION SAMPLE**


TM30 DETAILS

Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



FIDELITY INDEX

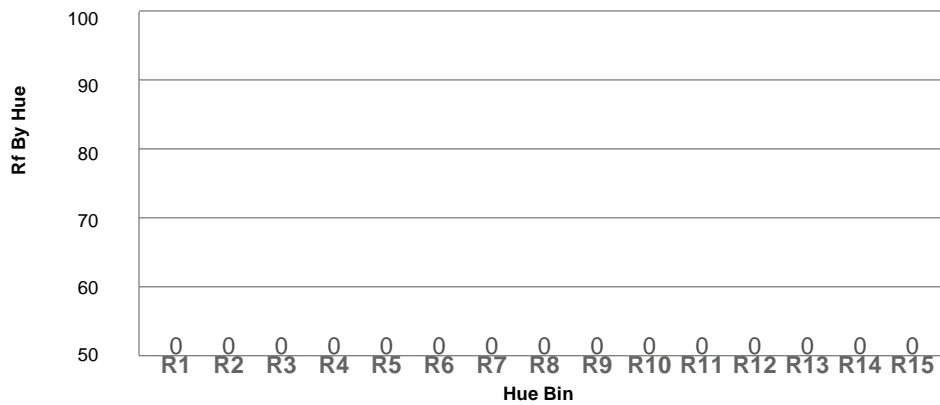
**$R_f$  0.0**

GAMUT INDEX

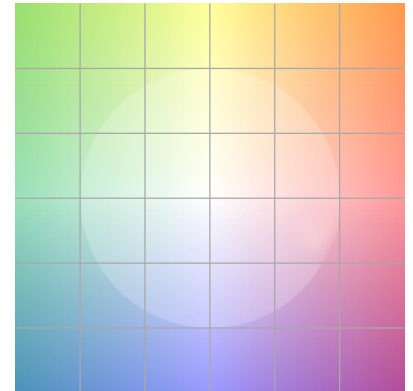
**$R_g$  0.0**

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

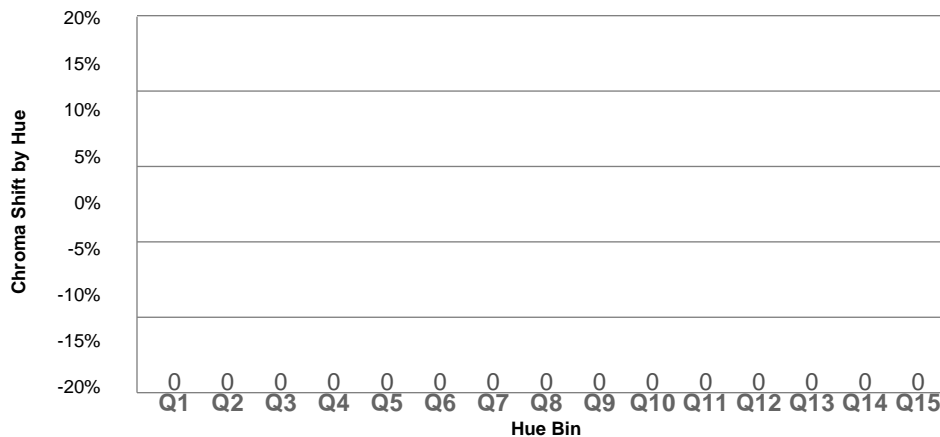
TM30 OVER 50



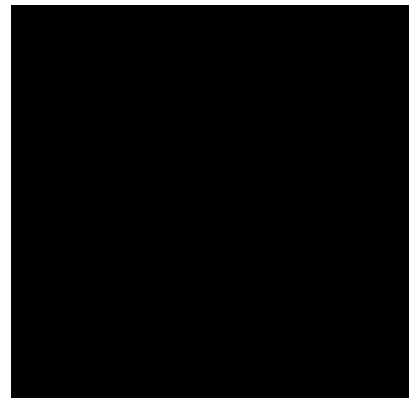
COLOR VECTOR GRAPHICS

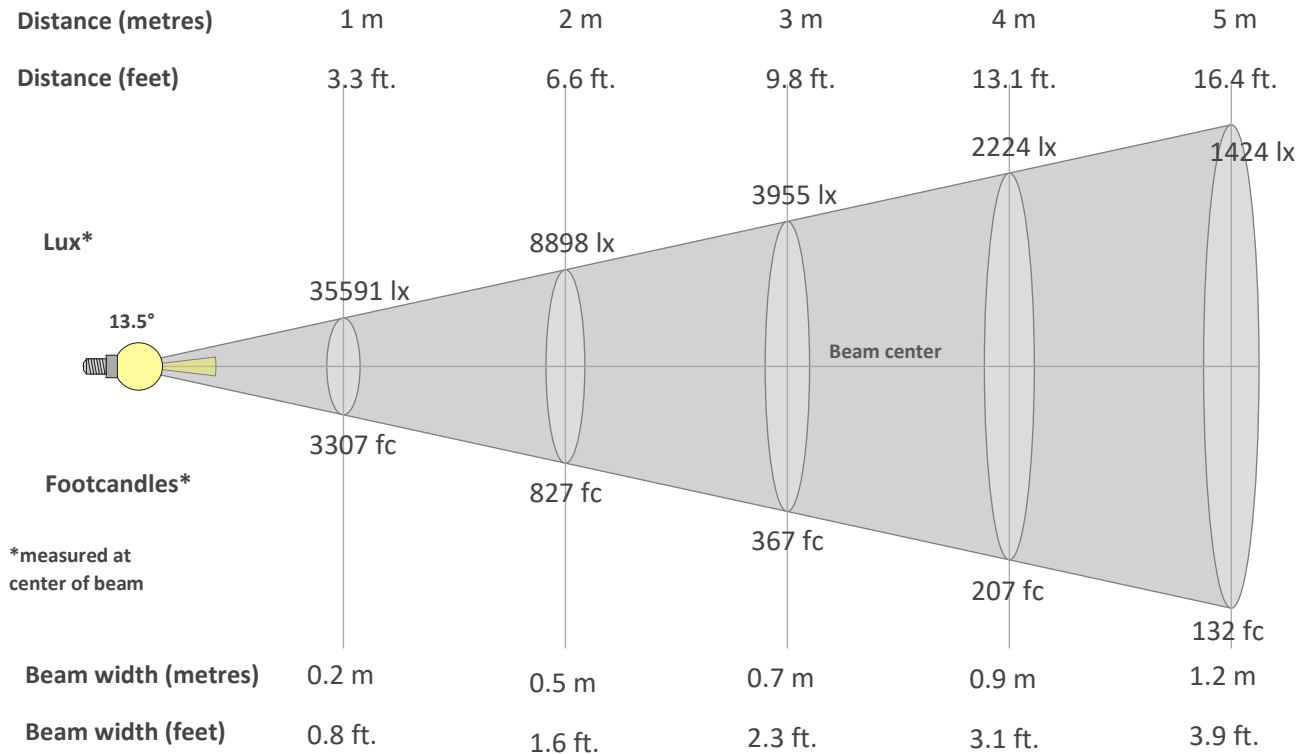


TM30 CHROMA SHIFT



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
35591lx	8898lx	3955lx	2224lx	1424lx	989lx	726lx	556lx	439lx	356lx	294lx	247lx	211lx	182lx	158lx	139lx	123lx	110lx	99lx	89lx
3306.5fc	826.6fc	367.4fc	206.7fc	132.3fc	91.8fc	67.5fc	51.7fc	40.8fc	33.1fc	27.3fc	23fc	19.6fc	16.9fc	14.7fc	12.9fc	11.4fc	10.2fc	9.2fc	8.3fc

**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°
35.6K	35.6K	35.5K	35.4K	35.3K	35.1K	34.9K	34.7K	34.4K	34.2K	33.9K	33.7K	33.6K	33.4K	33.2K	32.9K	32.5K	32.1K	31.5K	30.8K
100%	100%	100%	100%	99%	99%	98%	97%	97%	96%	95%	95%	94%	94%	93%	93%	91%	90%	88%	87%

**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°
35.6K	32.3K	24.2K	15.6K	9.5K	6.0K	3.9K	2.7K	2.0K	1.5K	1.1K	0.9K	0.7K	0.6K	0.5K	0.4K	0.4K	0.4K	0.3K	0.3K
100%	91%	68%	44%	27%	17%	11%	8%	5%	4%	3%	2%	2%	2%	1%	1%	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°
35.6K	35.6K	35.5K	35.4K	35.3K	35.1K	34.9K	34.7K	34.4K	34.2K	33.9K	33.7K	33.6K	33.4K	33.2K	32.9K	32.5K	32.1K	31.5K	30.8K
100%	100%	100%	100%	99%	99%	98%	97%	97%	96%	95%	95%	94%	94%	93%	93%	91%	90%	88%	87%

**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°
35.6K	32.3K	24.2K	15.6K	9.5K	6.0K	3.9K	2.7K	2.0K	1.5K	1.1K	0.9K	0.7K	0.6K	0.5K	0.4K	0.4K	0.4K	0.3K	0.3K
100%	91%	68%	44%	27%	17%	11%	8%	5%	4%	3%	2%	2%	2%	1%	1%	1%	1%	1%	1%