

FL200-RGBW40K-OM-20-ELV (WH)

PRODUCT PHOTOMETRIC REPORT



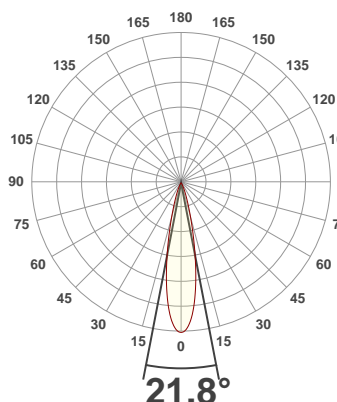
PRODUCT INFORMATION

SERIAL NUMBER: LL-20191015-861

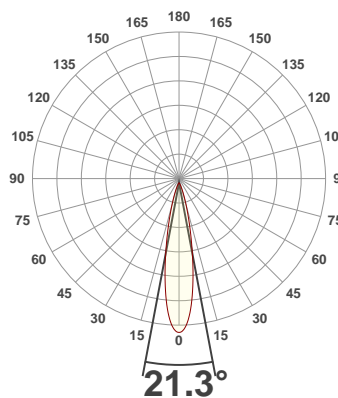
DATE OF MEASUREMENT: 2019-10-15

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

ANGULAR DISTRIBUTION AT C0/180



ANGULAR DISTRIBUTION AT C90/270



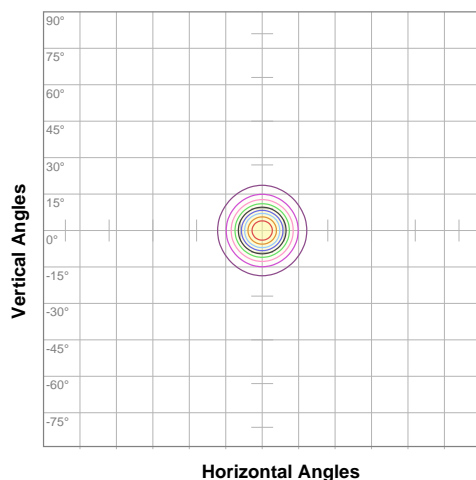
LIGHT OUTPUT DATA

TOTAL LUMEN OUTPUT: 4481 lm
 EFFICACY: 82 lm/W
 PEAK INTENSITY: 24632 cd
 COLOR RENDERING INDEX (CRI): 83.1
 COLOR TEMPERATURE (CCT): 3951K
 FIDELITY INDEX (TM30Rf): 84.3
 GAMUT INDEX (TM30Rg): 96.4

BEAM OUTPUT DATA

BEAM ANGLE (FWHM) | C0/180: 21.8°
 BEAM ANGLE (FWHM) | C90/270: 21.3°
 FIELD ANGLE (10%) | C0/180: 40.9°
 FIELD ANGLE (10%) | C90/270: 41.6°
 NUMBER OF PLANES MEASURED: 12

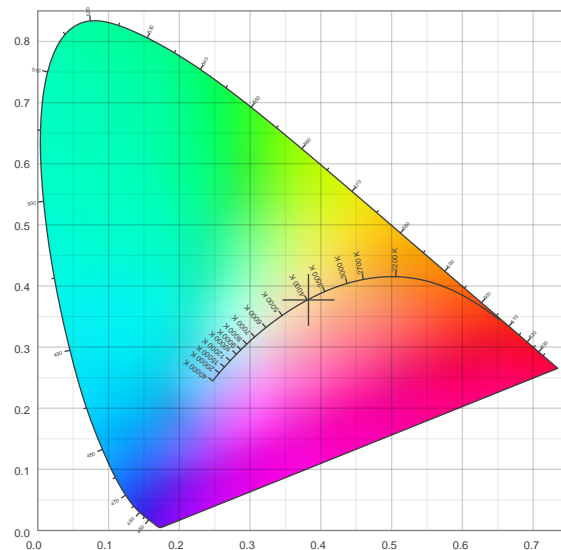
ISOCANDELA DIAGRAM



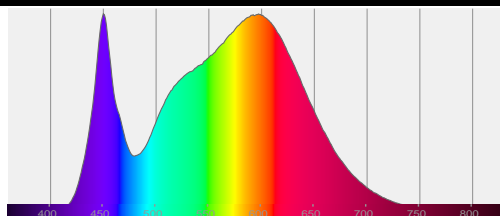
10% 2462 cd
 20% 4923 cd
 30% 7385 cd
 40% 9846 cd
 50% 12308 cd
 60% 14769 cd
 70% 17231 cd
 80% 19692 cd
 90% 22154 cd

INPUT POWER: 54.8 W
 POWER FACTOR: 1.0
 OPTICAL POWER: 13.6 mW
 PEAK WAVELENGTH: 450 nm
 DOMINANT WAVELENGTH: 582 nm

CIE 1931



SPECTRAL DISTRIBUTION



CIE 1931 ZOOM

x: 0.383
 y: 0.377
 u: 0.226
 v: 0.335
 $\Delta u v: -0.0004$

FL200-RGBW40K-OM-20-ELV (WH)

PRODUCT PHOTOMETRIC REPORT

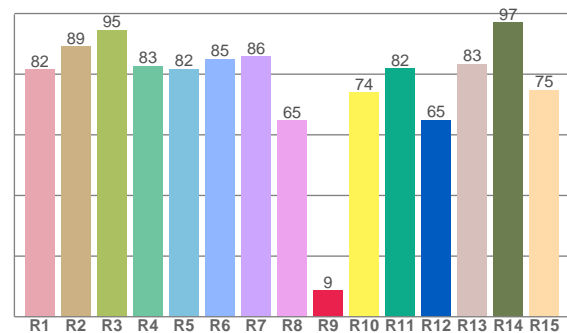
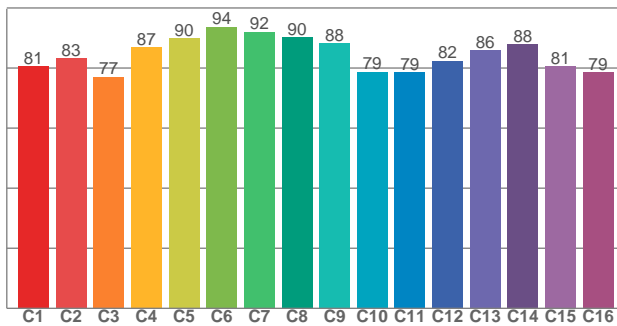
ZONAL LUMEN SUMMARY

0°-10° 1791 lm	10°-20° 1817 lm	20°-30° 558 lm	30°-40° 164 lm	40°-50° 76.0 lm	50°-60° 45.9 lm	60°-70° 24.3 lm	70°-80° 4.97 lm	80°-90° 0.076 lm
90°-100° 0.006 lm	100°-110° 0.006 lm	110°-120° 0.005 lm	120°-130° 0.004 lm	130°-140° 0.003 lm	140°-150° 0.002 lm	150°-160° 0.002 lm	160°-170° 0.001 lm	170°-180° 0.000 lm

COLOR DETAILS

TM30: 84.3

CRI: 83.1 (R1-R8)



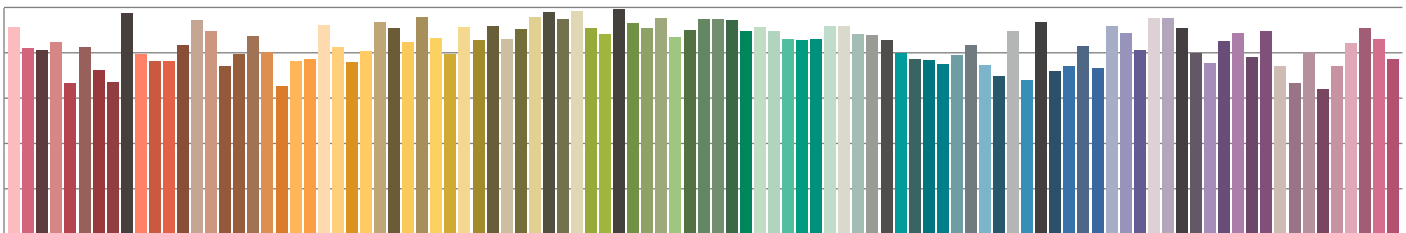
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80.5	83.2	77.1	87.0	89.9	93.7	92.1	90.2	88.3	78.8	78.6	82.4	85.9	87.8	80.5	78.6

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

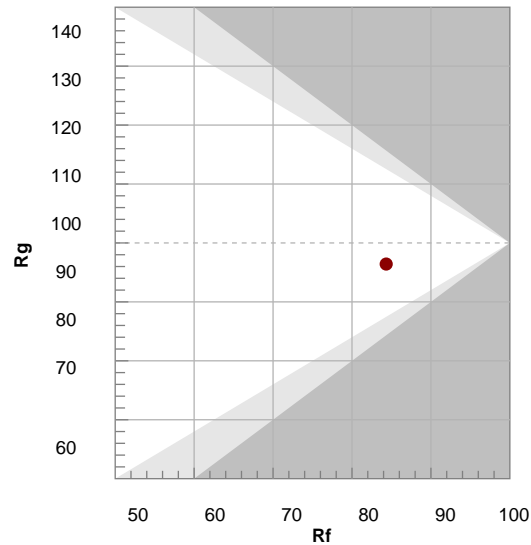
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81.6	89.1	94.6	82.7	81.7	85.0	85.9	64.6	8.6	74.0	81.8	64.9	83.4	97.1	74.7

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	2%	5%
6	94	3%	-2%
7	92	-3%	-4%
8	90	-5%	-2%
9	88	-7%	4%
10	79	-7%	11%
11	79	2%	14%
12	82	5%	8%
13	86	8%	-6%
14	88	9%	-7%
15	81	-1%	-14%
16	79	-6%	-12%



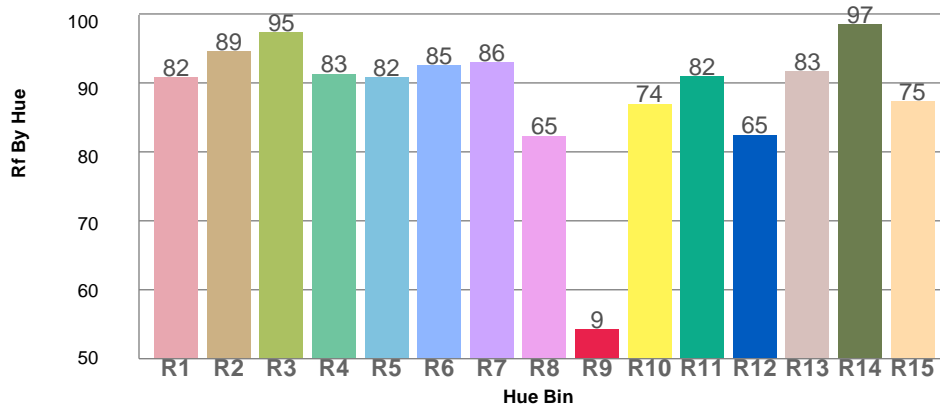
FIDELITY INDEX

R_f 84.3

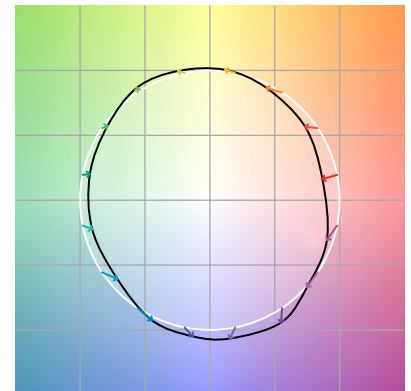
GAMUT INDEX

R_g 96.4

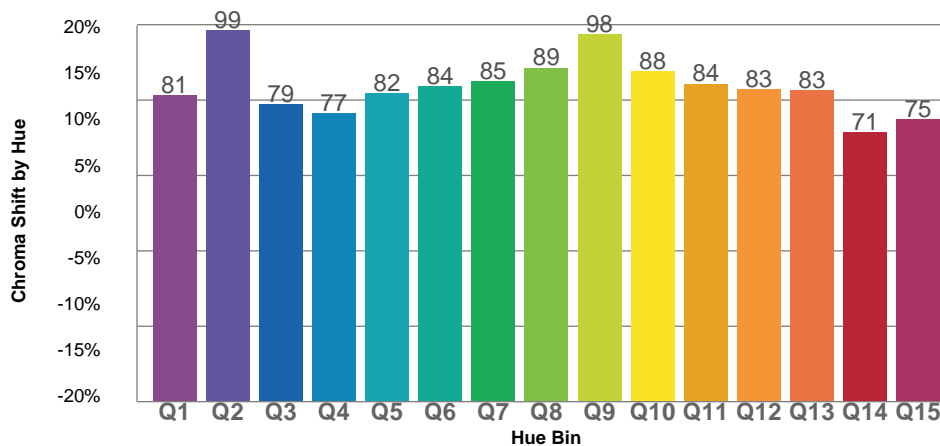
TM30 OVER 50



COLOR VECTOR GRAPHICS

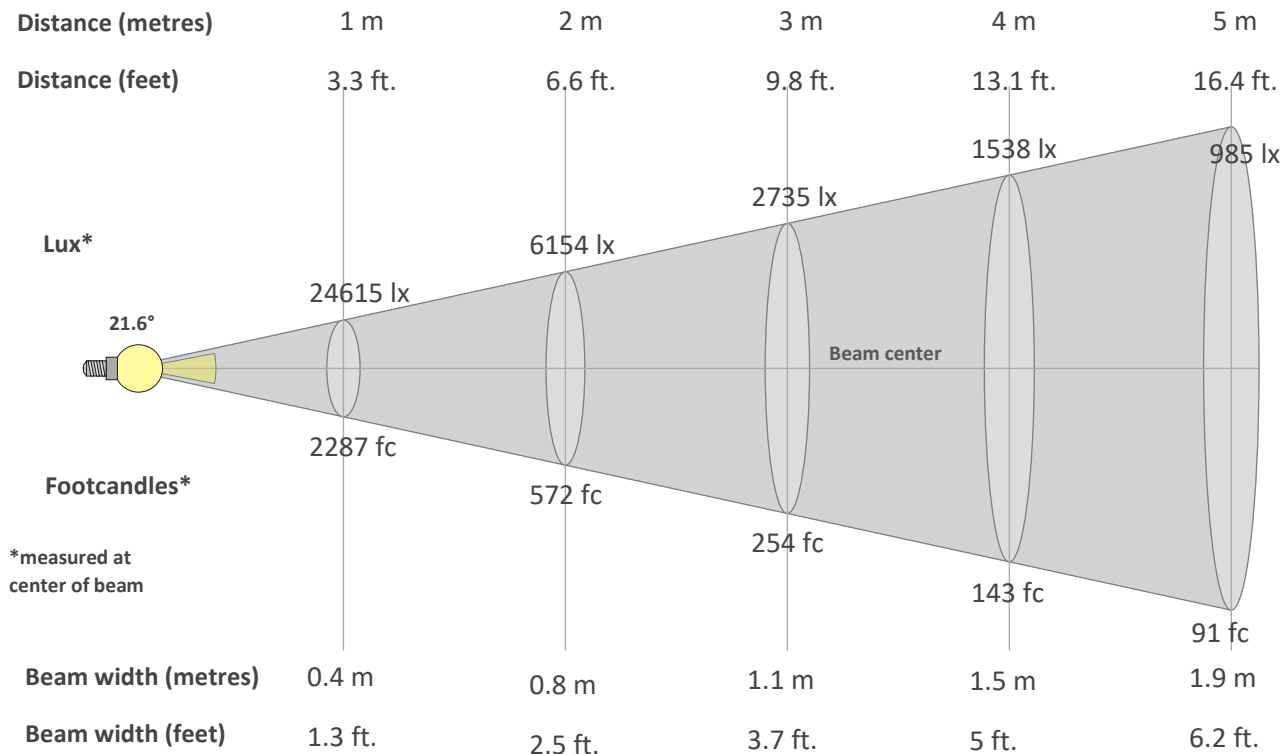


TM30 CHROMA SHIFT



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
24615lx	6154lx	2735lx	1538lx	985lx	684lx	502lx	385lx	304lx	246lx	203lx	171lx	146lx	126lx	109lx	96lx	85lx	76lx	68lx	62lx
2286.8fc	571.7fc	254.1fc	142.9fc	91.5fc	63.5fc	46.7fc	35.7fc	28.2fc	22.9fc	18.9fc	15.9fc	13.5fc	11.7fc	10.2fc	8.9fc	7.9fc	7.1fc	6.3fc	5.7fc

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°
24.6K	24.1K	22.7K	20.3K	17.3K	13.9K	10.5K	7.6K	5.4K	3.8K	2.7K	1.9K	1.4K	1.0K	0.7K	0.5K	0.4K	0.3K	0.2K	0.2K
100%	98%	92%	83%	70%	56%	43%	31%	22%	15%	11%	8%	6%	4%	3%	2%	2%	1%	1%	1%

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°
24.6K	24.1K	22.5K	20.0K	16.8K	13.4K	10.2K	7.6K	5.5K	3.9K	2.8K	2.0K	1.4K	1.0K	0.7K	0.5K	0.4K	0.3K	0.2K	0.2K
100%	98%	91%	81%	68%	54%	42%	31%	22%	16%	11%	8%	6%	4%	3%	2%	2%	1%	1%	1%

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°
24.6K	24.1K	22.7K	20.3K	17.3K	13.9K	10.5K	7.6K	5.4K	3.8K	2.7K	1.9K	1.4K	1.0K	0.7K	0.5K	0.4K	0.3K	0.2K	0.2K
100%	98%	92%	83%	70%	56%	43%	31%	22%	15%	11%	8%	6%	4%	3%	2%	2%	1%	1%	1%

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°
24.6K	24.1K	22.5K	20.0K	16.8K	13.4K	10.2K	7.6K	5.5K	3.9K	2.8K	2.0K	1.4K	1.0K	0.7K	0.5K	0.4K	0.3K	0.2K	0.2K
100%	98%	91%	81%	68%	54%	42%	31%	22%	16%	11%	8%	6%	4%	3%	2%	2%	1%	1%	1%