

FL200-RGBW40K-OM-30x60-ELV (WH)

PRODUCT PHOTOMETRIC REPORT



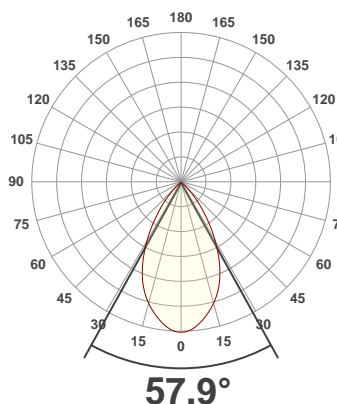
PRODUCT INFORMATION

SERIAL NUMBER: LL-20191017-894

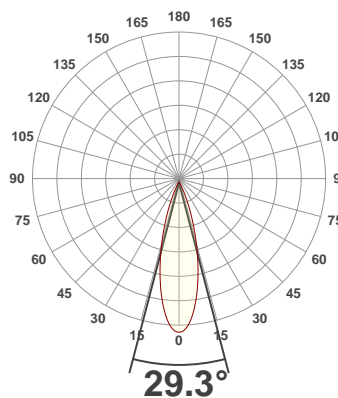
DATE OF MEASUREMENT: 2019-10-17

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

ANGULAR DISTRIBUTION AT C0/180



ANGULAR DISTRIBUTION AT C90/270



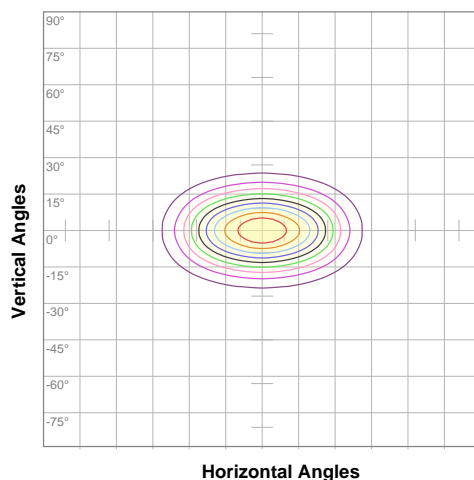
LIGHT OUTPUT DATA

TOTAL LUMEN OUTPUT: 4688 lm
EFFICACY: 85 lm/W
PEAK INTENSITY: 8508 cd
COLOR RENDERING INDEX (CRI): 83.0
COLOR TEMPERATURE (CCT): 3951K
FIDELITY INDEX (TM30Rf): 84.3
GAMUT INDEX (TM30Rg): 96.7

BEAM OUTPUT DATA

BEAM ANGLE (FWHM) | C0/180: 57.9°
BEAM ANGLE (FWHM) | C90/270: 29.3°
FIELD ANGLE (10%) | C0/180: 91.8°
FIELD ANGLE (10%) | C90/270: 52.7°
NUMBER OF PLANES MEASURED: 36

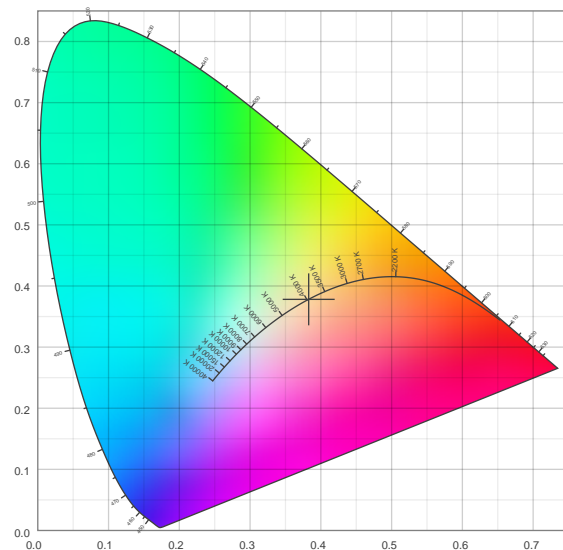
ISOCANDELA DIAGRAM



10% 850 cd
20% 1700 cd
30% 2551 cd
40% 3401 cd
50% 4251 cd
60% 5101 cd
70% 5952 cd
80% 6802 cd
90% 7652 cd

INPUT POWER: 54.8 W
POWER FACTOR: 1.0
OPTICAL POWER: 14.2 mW
PEAK WAVELENGTH: 450 nm
DOMINANT WAVELENGTH: 582 nm

CIE 1931



SPECTRAL DISTRIBUTION



CIE 1931 ZOOM

x: 0.383
y: 0.378
u: 0.226
v: 0.335
 $\Delta uv: -0.0001$

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PRODUCT PHOTOMETRIC REPORT

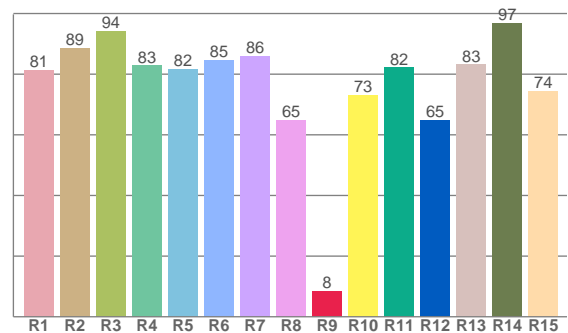
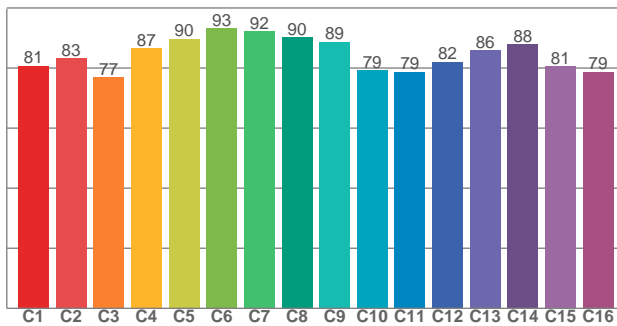
ZONAL LUMEN SUMMARY

0°-10° 732 lm	10°-20° 1509 lm	20°-30° 1252 lm	30°-40° 669 lm	40°-50° 284 lm	50°-60° 127 lm	60°-70° 71.8 lm	70°-80° 34.7 lm	80°-90° 5.85 lm
90°-100° 0.138 lm	100°-110° 0.115 lm	110°-120° 0.058 lm	120°-130° 0.041 lm	130°-140° 0.031 lm	140°-150° 0.023 lm	150°-160° 0.017 lm	160°-170° 0.010 lm	170°-180° 0.003 lm

COLOR DETAILS

TM30: 84.3

CRI: 83.0 (R1-R8)



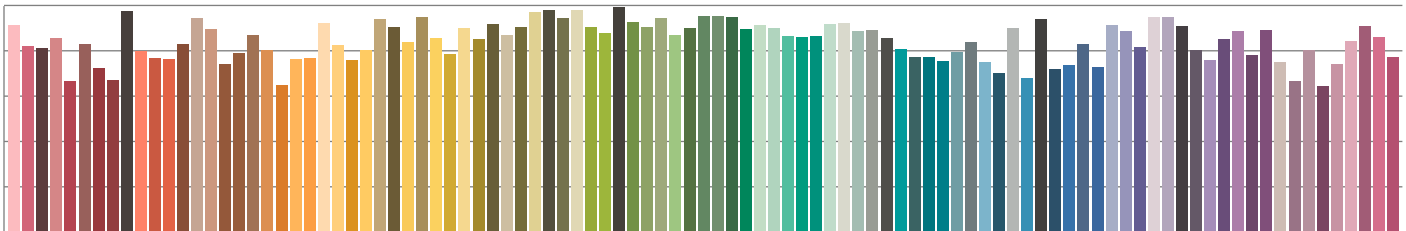
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80.7	83.2	76.9	86.6	89.7	93.2	92.2	90.3	88.7	79.2	78.7	82.1	86.0	87.8	80.6	78.7

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

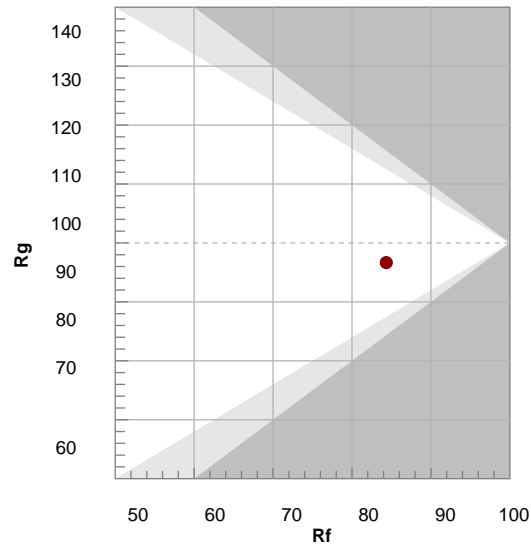
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81.5	88.7	94.3	82.9	81.6	84.7	86.0	64.8	8.4	73.2	82.2	64.9	83.2	96.9	74.5

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	81	0%	-14%
16	79	-5%	-13%



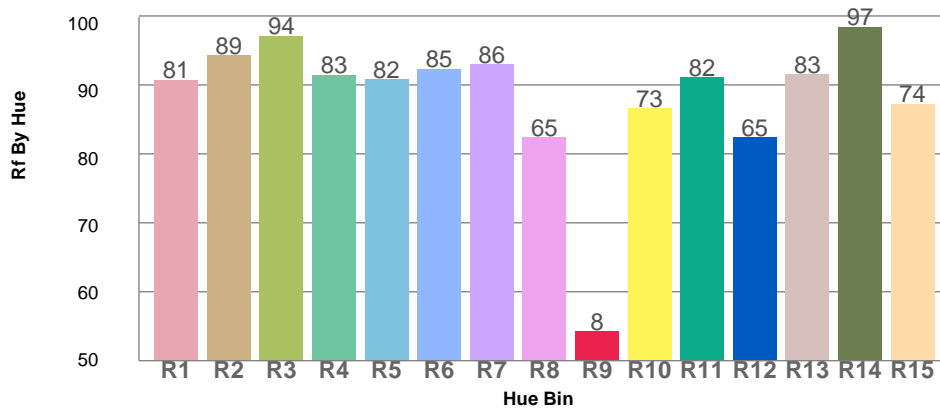
FIDELITY INDEX

R_f 84.3

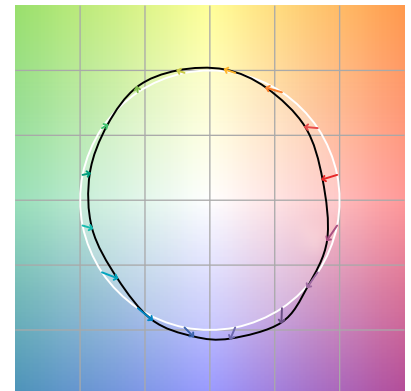
GAMUT INDEX

R_g 96.7

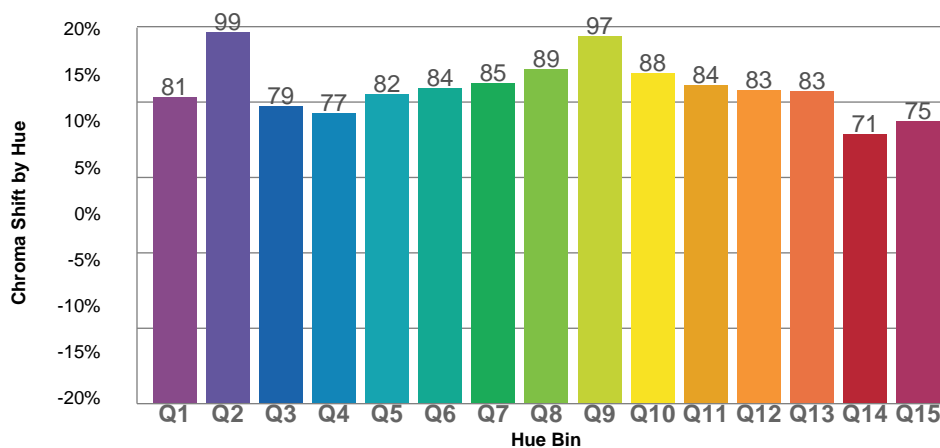
TM30 OVER 50



COLOR VECTOR GRAPHICS



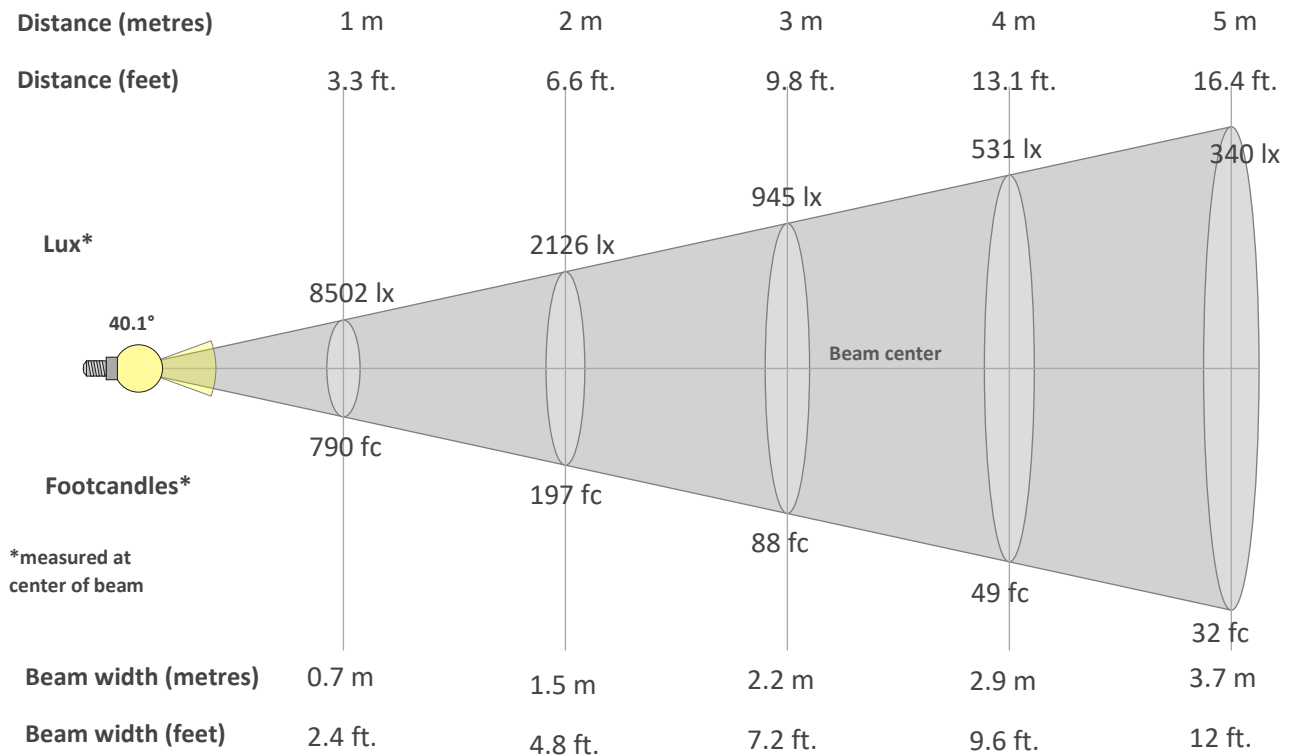
TM30 CHROMA SHIFT



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
8502lx	2126lx	945lx	531lx	340lx	236lx	174lx	133lx	105lx	85lx	70lx	59lx	50lx	43lx	38lx	33lx	29lx	26lx	24lx	21lx
789.9fc	197.5fc	87.8fc	49.4fc	31.6fc	21.9fc	16.1fc	12.3fc	9.8fc	7.9fc	6.5fc	5.5fc	4.7fc	4fc	3.5fc	3.1fc	2.7fc	2.4fc	2.2fc	2fc

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°
8502	8462	8362	8206	8004	7775	7527	7261	6970	6652	6292	5896	5457	4987	4490	3985	3484	2993	2523	2093
100%	100%	98%	97%	94%	91%	89%	85%	82%	78%	74%	69%	64%	59%	53%	47%	41%	35%	30%	25%

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°
8502	8380	8047	7541	6876	6125	5322	4507	3705	2955	2285	1719	1249	899	644	465	352	278	230	198
100%	99%	95%	89%	81%	72%	63%	53%	44%	35%	27%	20%	15%	11%	8%	5%	4%	3%	3%	2%

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°
8502	8462	8362	8206	8004	7775	7527	7261	6970	6652	6292	5896	5457	4987	4490	3985	3484	2993	2523	2093
100%	100%	98%	97%	94%	91%	89%	85%	82%	78%	74%	69%	64%	59%	53%	47%	41%	35%	30%	25%

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°
8502	8380	8047	7541	6876	6125	5322	4507	3705	2955	2285	1719	1249	899	644	465	352	278	230	198
100%	99%	95%	89%	81%	72%	63%	53%	44%	35%	27%	20%	15%	11%	8%	5%	4%	3%	3%	2%