

FL200-RGBW40K-OM-90-ELV (WH)

PRODUCT PHOTOMETRIC REPORT



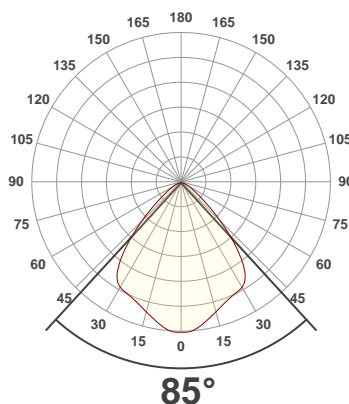
PRODUCT INFORMATION

SERIAL NUMBER: LL-20191015-874

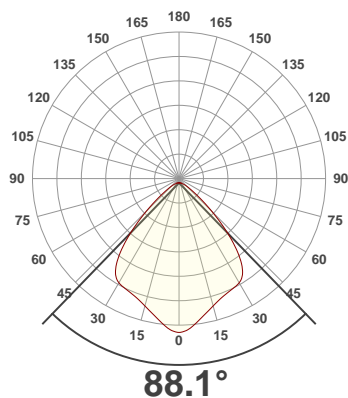
DATE OF MEASUREMENT: 2019-10-15

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

ANGULAR DISTRIBUTION AT C0/180



ANGULAR DISTRIBUTION AT C90/270



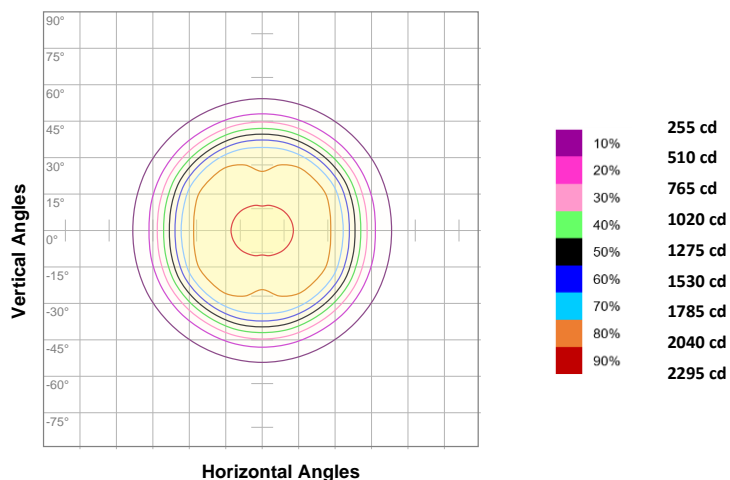
LIGHT OUTPUT DATA

TOTAL LUMEN OUTPUT: 4577 lm
 EFFICACY: 83 lm/W
 PEAK INTENSITY: 2554 cd
 COLOR RENDERING INDEX (CRI): 83.2
 COLOR TEMPERATURE (CCT): 3974K
 FIDELITY INDEX (TM30Rf): 84.4
 GAMUT INDEX (TM30Rg): 96.3

BEAM OUTPUT DATA

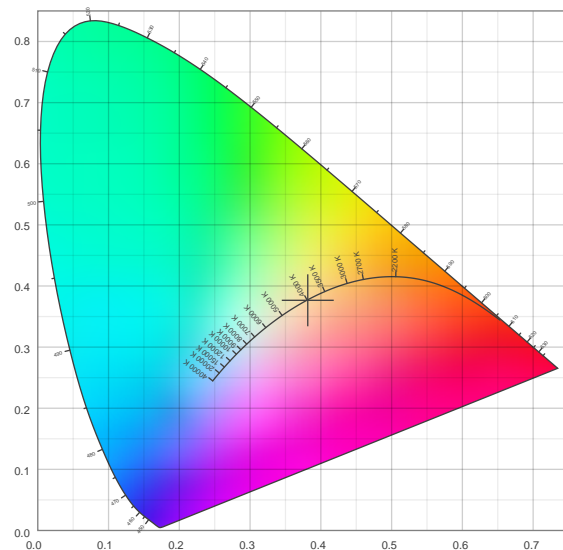
BEAM ANGLE (FWHM) | C0/180: 85°
 BEAM ANGLE (FWHM) | C90/270: 88.1°
 FIELD ANGLE (10%) | C0/180: 118.4°
 FIELD ANGLE (10%) | C90/270: 120.6°
 NUMBER OF PLANES MEASURED: 12

ISOCANDELA DIAGRAM

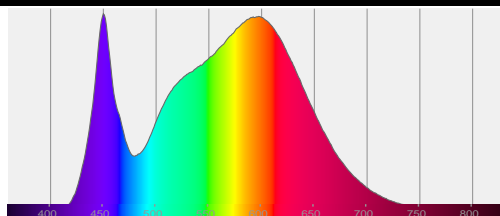


INPUT POWER: 54.8 W
 POWER FACTOR: 1.0
 OPTICAL POWER: 13.9 mW
 PEAK WAVELENGTH: 450 nm
 DOMINANT WAVELENGTH: 582 nm

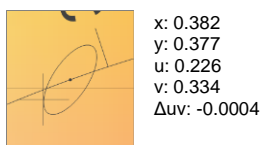
CIE 1931



SPECTRAL DISTRIBUTION

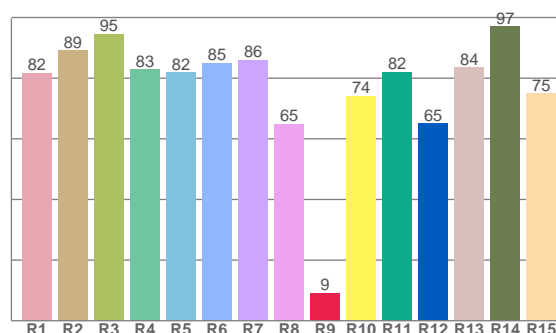
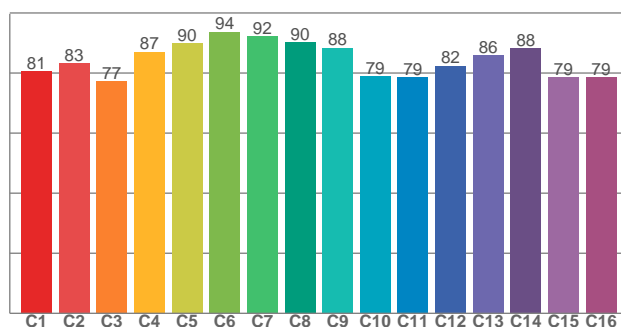


CIE 1931 ZOOM



ZONAL LUMEN SUMMARY

0°-10° 234 lm	10°-20° 635 lm	20°-30° 971 lm	30°-40° 1201 lm	40°-50° 884 lm	50°-60° 382 lm	60°-70° 171 lm	70°-80° 78.4 lm	80°-90° 17.1 lm
90°-100° 0.812 lm	100°-110° 0.787 lm	110°-120° 0.446 lm	120°-130° 0.338 lm	130°-140° 0.231 lm	140°-150° 0.142 lm	150°-160° 0.104 lm	160°-170° 0.064 lm	170°-180° 0.022 lm

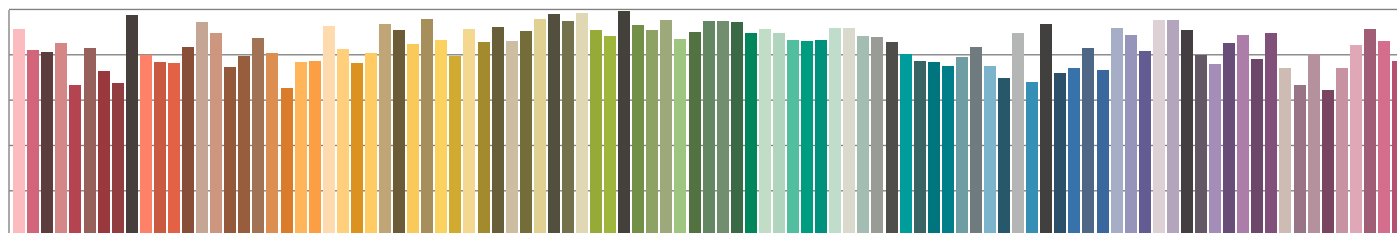
COLOR DETAILS
TM30: 84.4
CRI: 83.2 (R1-R8)


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

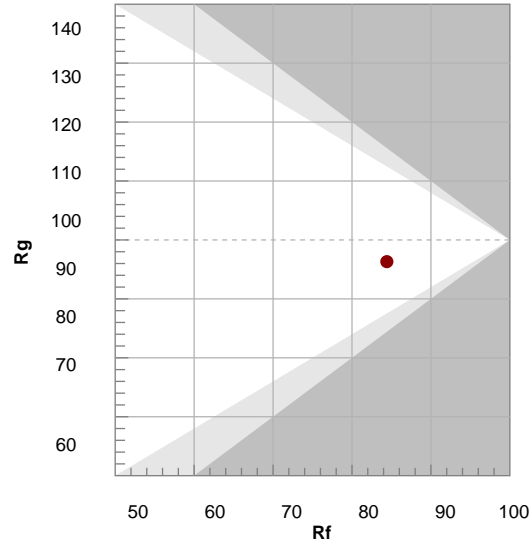
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80.7	83.3	77.2	87.1	89.9	93.7	92.2	90.3	88.4	78.9	78.6	82.4	86.0	88.1	78.6	78.7

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81.7	89.1	94.6	82.8	81.8	85.1	86.0	64.9	9.1	74.1	82.0	65.0	83.5	97.1	74.9

TM30 COLOR EVALUATION SAMPLE


TM30 DETAILS

Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	81	-12%	-1%
2	83	-7%	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%	-5%
14	88	6%	-6%
15	79	-1%	-16%
16	79	-5%	-12%



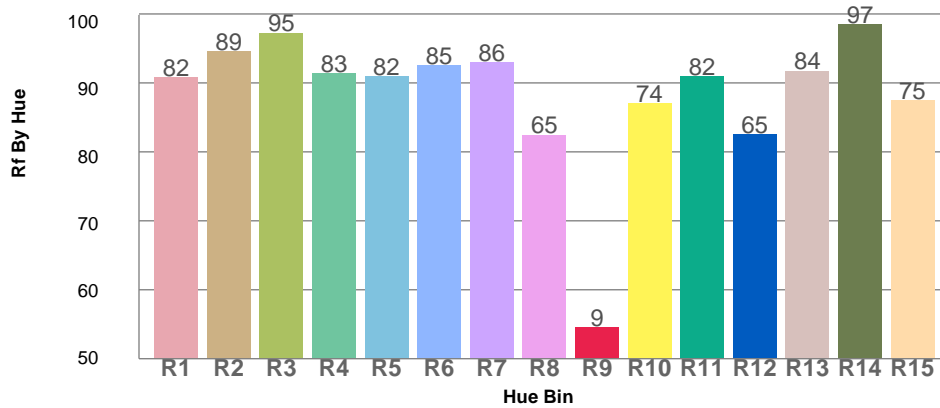
FIDELITY INDEX

R_f 84.4

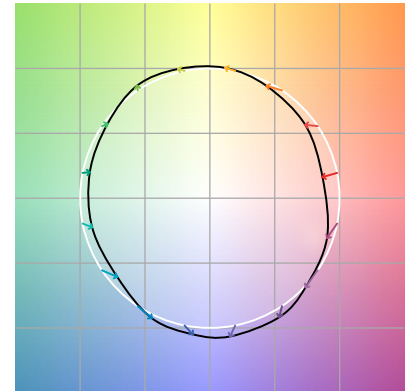
GAMUT INDEX

R_g 96.3

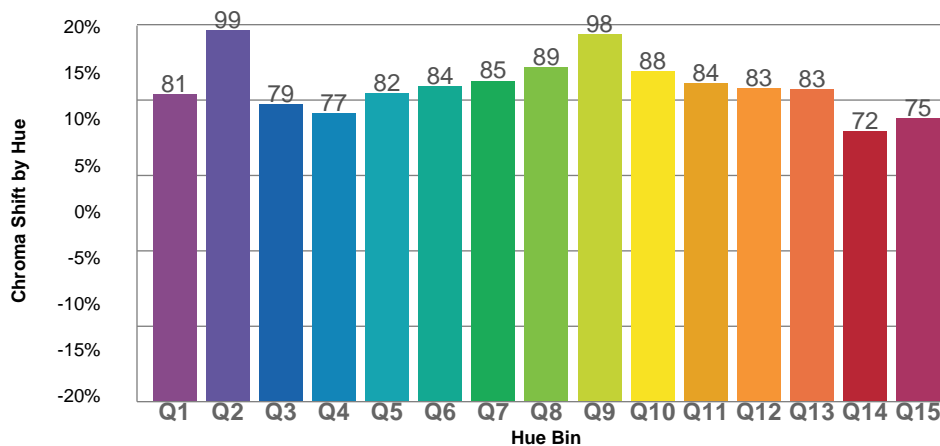
TM30 OVER 50



COLOR VECTOR GRAPHICS

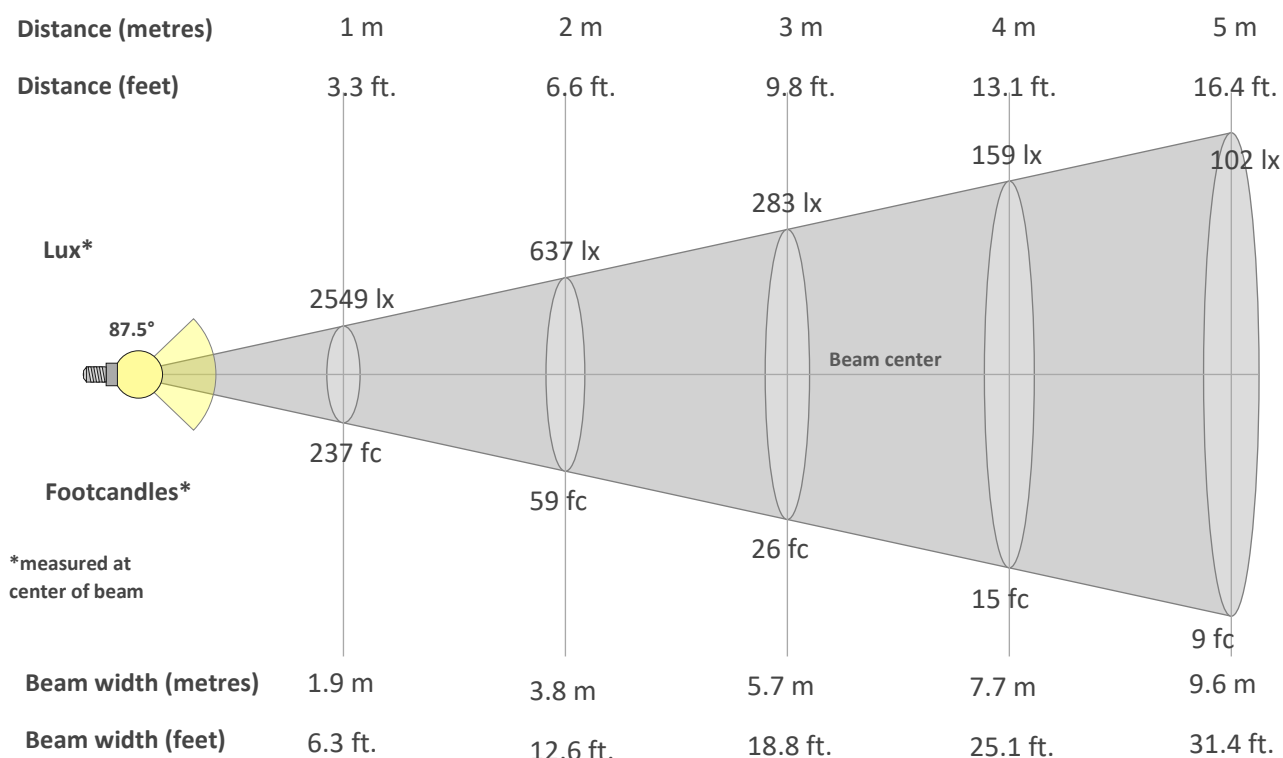


TM30 CHROMA SHIFT



COLOR DISTORTION GRAPHICS



BEAM DETAILS


*measured at center of beam

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
2549lx	637lx	283lx	159lx	102lx	71lx	52lx	40lx	31lx	25lx	21lx	18lx	15lx	13lx	11lx	10lx	9lx	8lx	7lx	6lx
236.9fc	59.2fc	26.3fc	14.8fc	9.5fc	6.6fc	4.8fc	3.7fc	2.9fc	2.4fc	2fc	1.6fc	1.4fc	1.2fc	1.1fc	0.9fc	0.8fc	0.7fc	0.7fc	0.6fc

Intensity in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
2549	2511	2398	2278	2177	2109	2061	1904	1516	1028	621	371	238	162	111	72	39	13	1	1
100%	98%	94%	89%	85%	83%	81%	75%	59%	40%	24%	15%	9%	6%	4%	3%	2%	1%	0%	0%

Intensity in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
2549	2473	2328	2204	2110	2055	2019	1926	1638	1183	737	431	262	172	115	74	40	13	1	1
100%	97%	91%	86%	83%	81%	79%	76%	64%	46%	29%	17%	10%	7%	5%	3%	2%	1%	0%	0%

Intensity in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
2549	2511	2398	2278	2177	2109	2061	1904	1516	1028	621	371	238	162	111	72	39	13	1	1
100%	98%	94%	89%	85%	83%	81%	75%	59%	40%	24%	15%	9%	6%	4%	3%	2%	1%	0%	0%

Intensity in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
2549	2473	2328	2204	2110	2055	2019	1926	1638	1183	737	431	262	172	115	74	40	13	1	1
100%	97%	91%	86%	83%	81%	79%	76%	64%	46%	29%	17%	10%	7%	5%	3%	2%	1%	0%	0%