

FL200-RGBW40K-OM-7-ELV (WH)

PRODUCT PHOTOMETRIC REPORT



PRODUCT INFORMATION

SERIAL NUMBER: LL-20190927-766

DATE OF MEASUREMENT: 2019-09-27

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

ANGULAR DISTRIBUTION AT C0/180

ANGULAR DISTRIBUTION AT C90/270

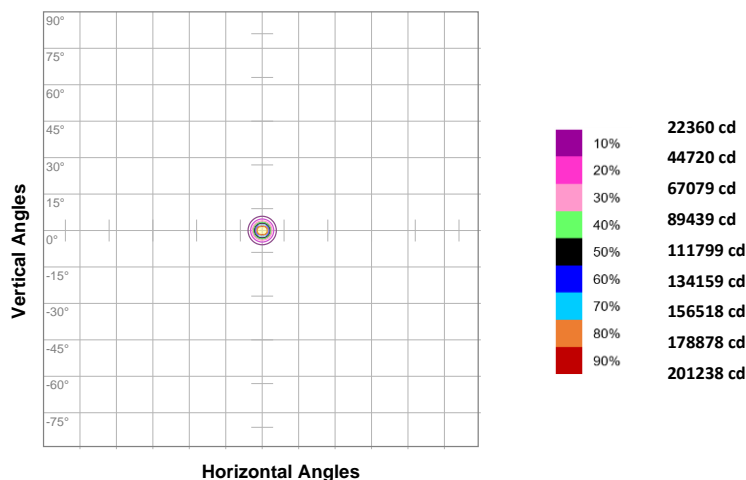
LIGHT OUTPUT DATA

TOTAL LUMEN OUTPUT: 4579 lm
 EFFICACY: 83 lm/W
 PEAK INTENSITY: 223828 cd
 COLOR RENDERING INDEX (CRI): 83.1
 COLOR TEMPERATURE (CCT): 3951K
 FIDELITY INDEX (TM30Rf): 84.3
 GAMUT INDEX (TM30Rg): 96.7

BEAM OUTPUT DATA

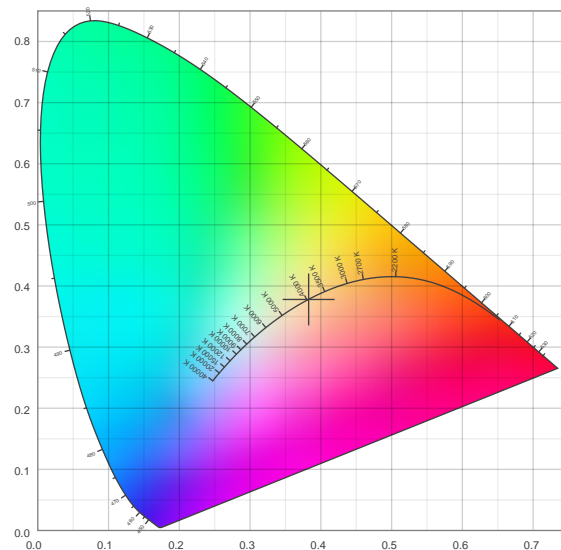
BEAM ANGLE (FWHM) | C0/180: 7.1°
 BEAM ANGLE (FWHM) | C90/270: 6.8°
 FIELD ANGLE (10%) | C0/180: 13.5°
 FIELD ANGLE (10%) | C90/270: 13.6°
 NUMBER OF PLANES MEASURED: 12

ISOCANDELA DIAGRAM

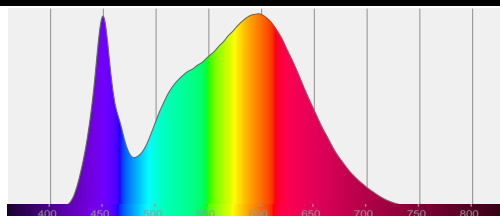


INPUT POWER: 55.3 W
 POWER FACTOR: 1.0
 OPTICAL POWER: 13.8 mW
 PEAK WAVELENGTH: 450 nm
 DOMINANT WAVELENGTH: 582 nm

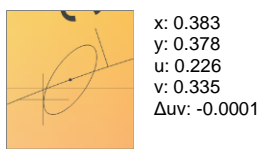
CIE 1931



SPECTRAL DISTRIBUTION

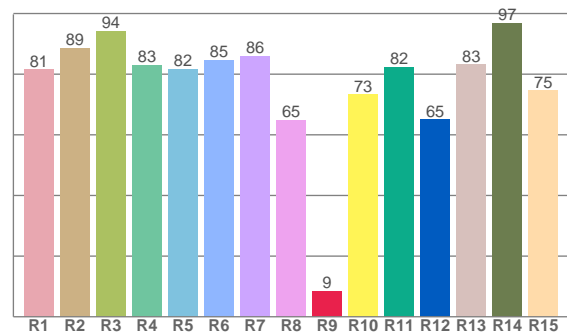
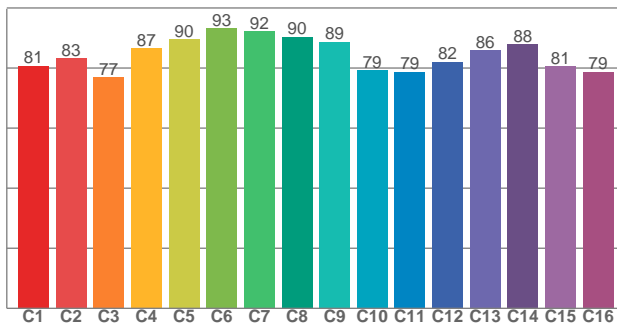


CIE 1931 ZOOM



ZONAL LUMEN SUMMARY

0°-10° 4137 lm	10°-20° 388 lm	20°-30° 48.0 lm	30°-40° 6.55 lm	40°-50° 0.135 lm	50°-60° 0.117 lm	60°-70° 0.072 lm	70°-80° 0.024 lm	80°-90° 0.019 lm
90°-100° 0.010 lm	100°-110° 0.010 lm	110°-120° 0.004 lm	120°-130° 0.003 lm	130°-140° 0.002 lm	140°-150° 0.001 lm	150°-160° 0.001 lm	160°-170° 0.001 lm	170°-180° 0.000 lm

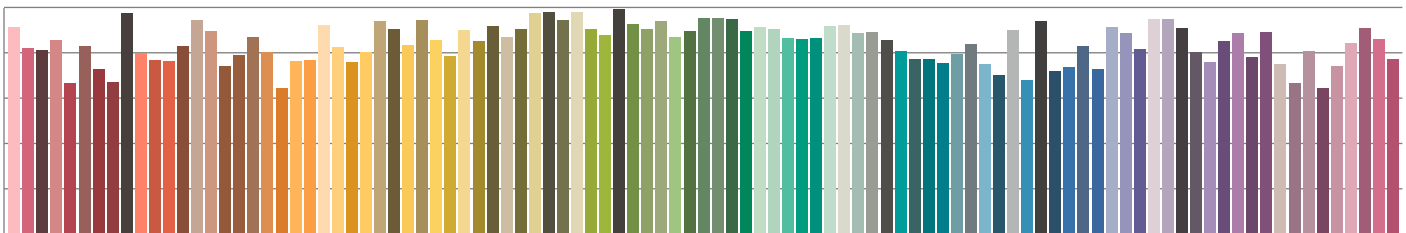
COLOR DETAILS
TM30: 84.3
CRI: 83.1 (R1-R8)


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

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

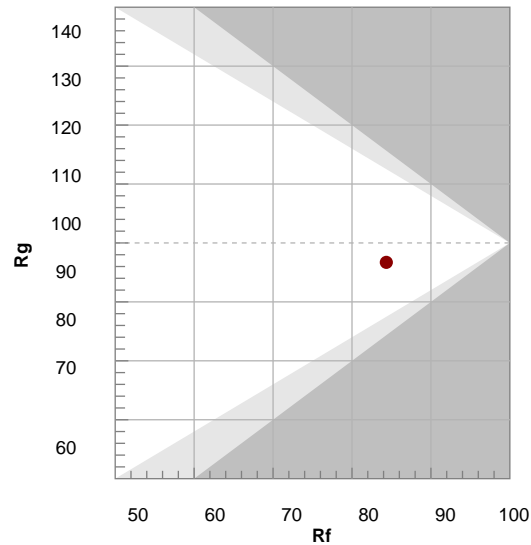
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80.7	83.2	76.8	86.5	89.7	93.2	92.2	90.3	88.8	79.2	78.7	82.1	86.0	87.9	80.6	78.7

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81.5	88.7	94.3	82.9	81.7	84.7	86.0	64.8	8.6	73.2	82.3	65.0	83.2	96.8	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%	-6%
15	81	0%	-14%
16	79	-5%	-13%



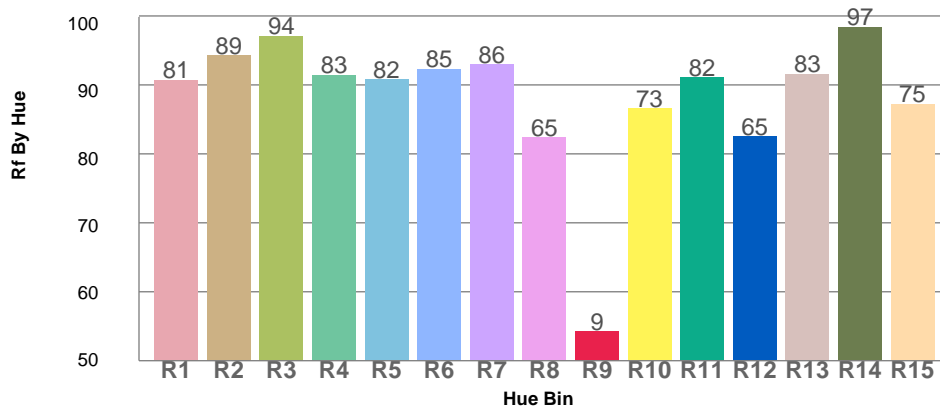
FIDELITY INDEX

R_f 84.3

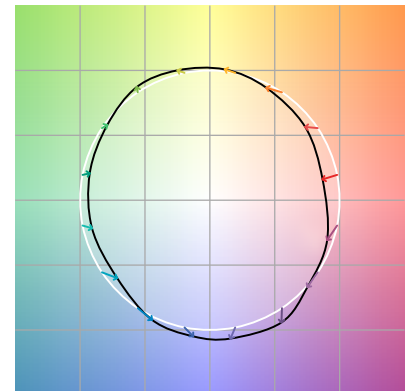
GAMUT INDEX

R_g 96.7

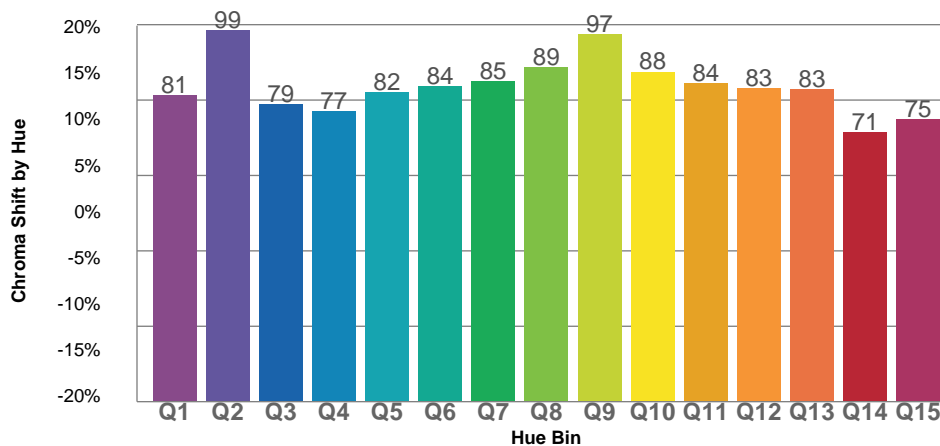
TM30 OVER 50



COLOR VECTOR GRAPHICS



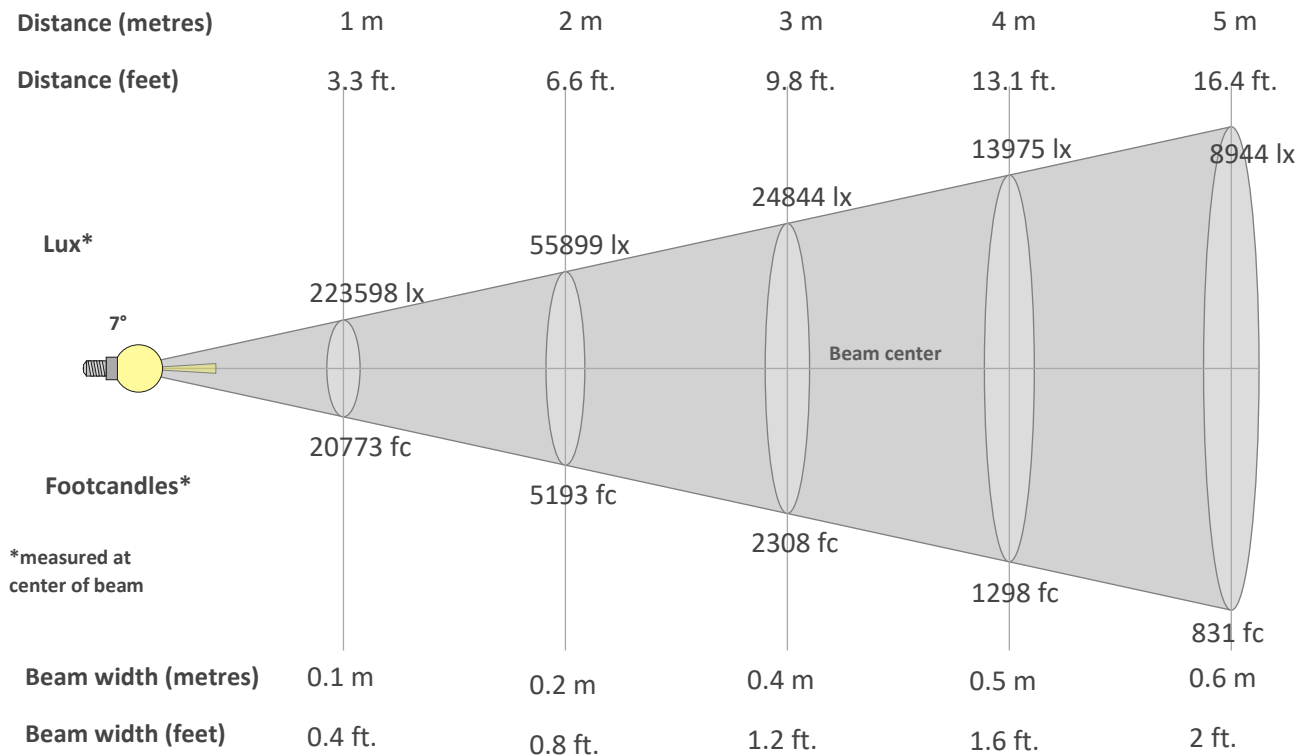
TM30 CHROMA SHIFT



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
223598lx	55899lx	24844lx	13975lx	8944lx	6211lx	4563lx	3494lx	2760lx	2236lx	1848lx	1553lx	1323lx	1141lx	994lx	873lx	774lx	690lx	619lx	559lx
20772.9fc	5193.2fc	2308.1fc	1298.3fc	830.9fc	577fc	423.9fc	324.6fc	256.5fc	207.7fc	171.7fc	144.3fc	122.9fc	106fc	92.3fc	81.1fc	71.9fc	64.1fc	57.5fc	51.9fc

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°
224K	216K	188K	140K	91K	55K	33K	20K	12K	8K	5K	4K	3K	2K	1K	1K	1K	1K	1K	0K
100%	97%	84%	63%	41%	25%	15%	9%	6%	4%	2%	2%	1%	1%	1%	0%	0%	0%	0%	0%

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°
224K	212K	178K	130K	85K	53K	33K	21K	13K	9K	6K	4K	3K	2K	1K	1K	1K	1K	1K	1K
100%	95%	79%	58%	38%	24%	15%	9%	6%	4%	3%	2%	1%	1%	1%	0%	0%	0%	0%	0%

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°
224K	216K	188K	140K	91K	55K	33K	20K	12K	8K	5K	4K	3K	2K	1K	1K	1K	1K	1K	0K
100%	97%	84%	63%	41%	25%	15%	9%	6%	4%	2%	2%	1%	1%	1%	0%	0%	0%	0%	0%

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°
224K	212K	178K	130K	85K	53K	33K	21K	13K	9K	6K	4K	3K	2K	1K	1K	1K	1K	1K	1K
100%	95%	79%	58%	38%	24%	15%	9%	6%	4%	3%	2%	1%	1%	1%	0%	0%	0%	0%	0%