



Light efficiency:

42 Lumen/Watt

Light quality:

CRI: 80.3

Color temperature:

2678 K

Output: 841 lm
Peak: 6605 cd
Power: 19.8 W
PF: 0.56



Product name:
Flat Par TW12 WW

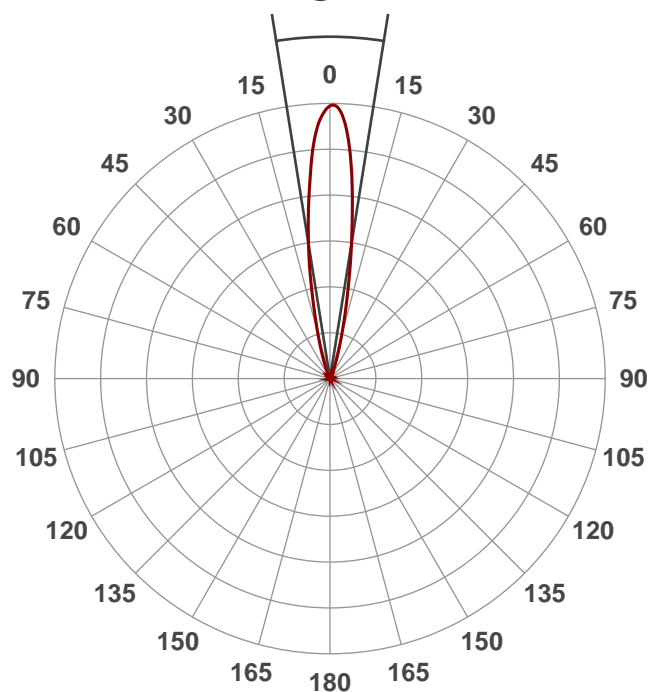
Date and time:
1/23/2017 10:12:52 AM

TestType:
WW

Tested By:
Aurelio

Beam angle

18.1°

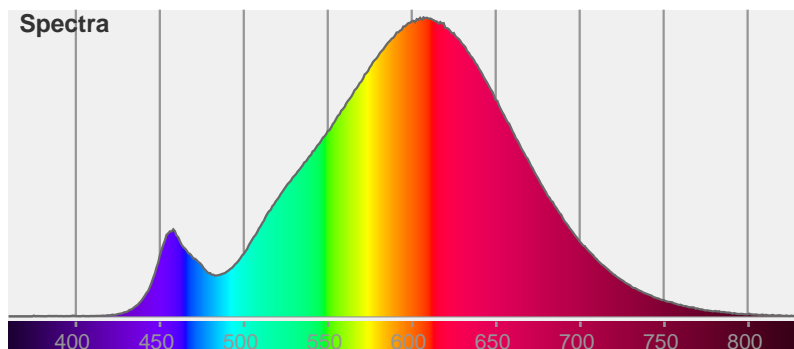


Color

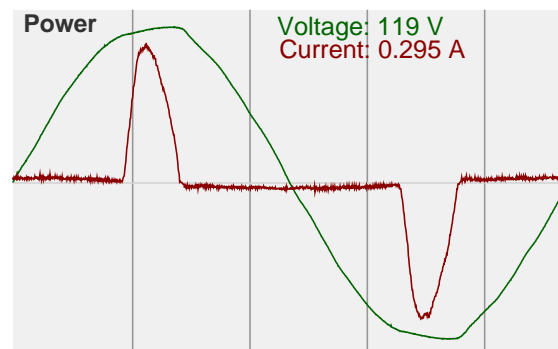


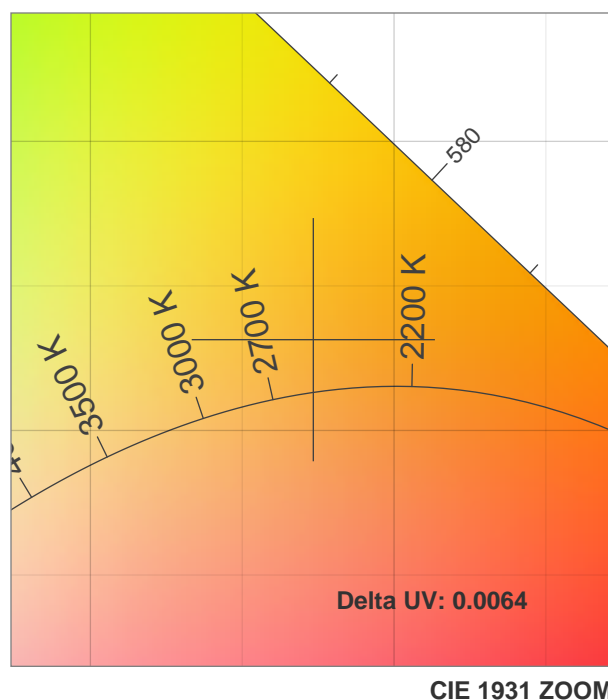
CIE1931
x: 0.473
y: 0.431

Spectra

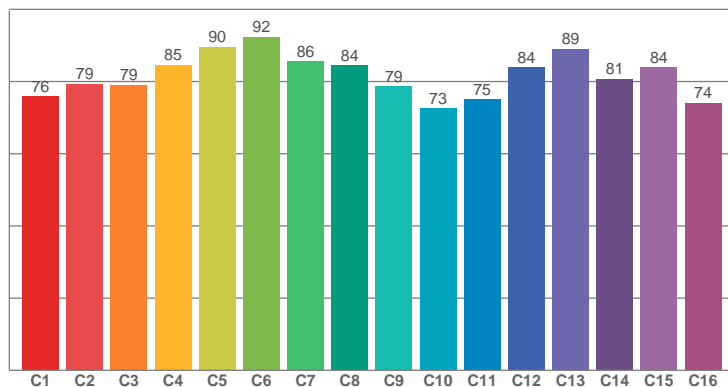


Power

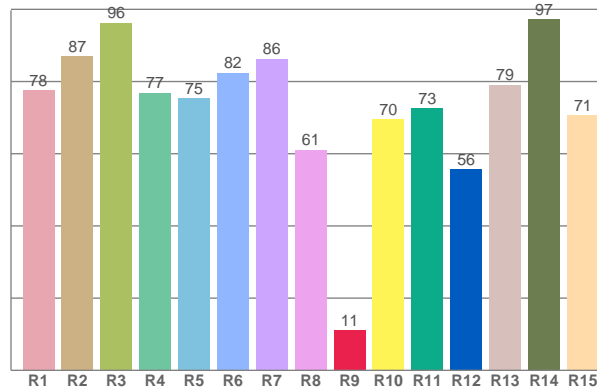




TM30: 80.9



CRI: 80.3 (R1-R8)



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
77.51	87.05	96.28	76.84	75.32	82.35	86.27	61.07	11.05	69.58	72.51	55.67	79.03	97.24	70.64

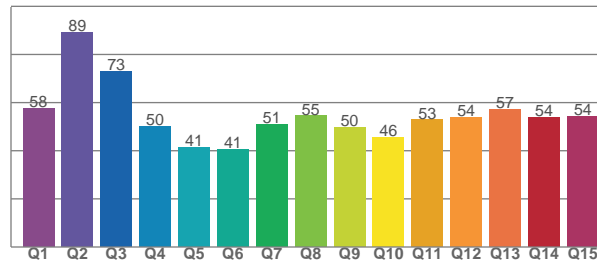
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
75.91	79.38	79.05	84.60	89.56	92.36	85.65	84.40	78.72	72.54	75.00	83.94	89.02	80.72	83.88	74.04

CQS Q values

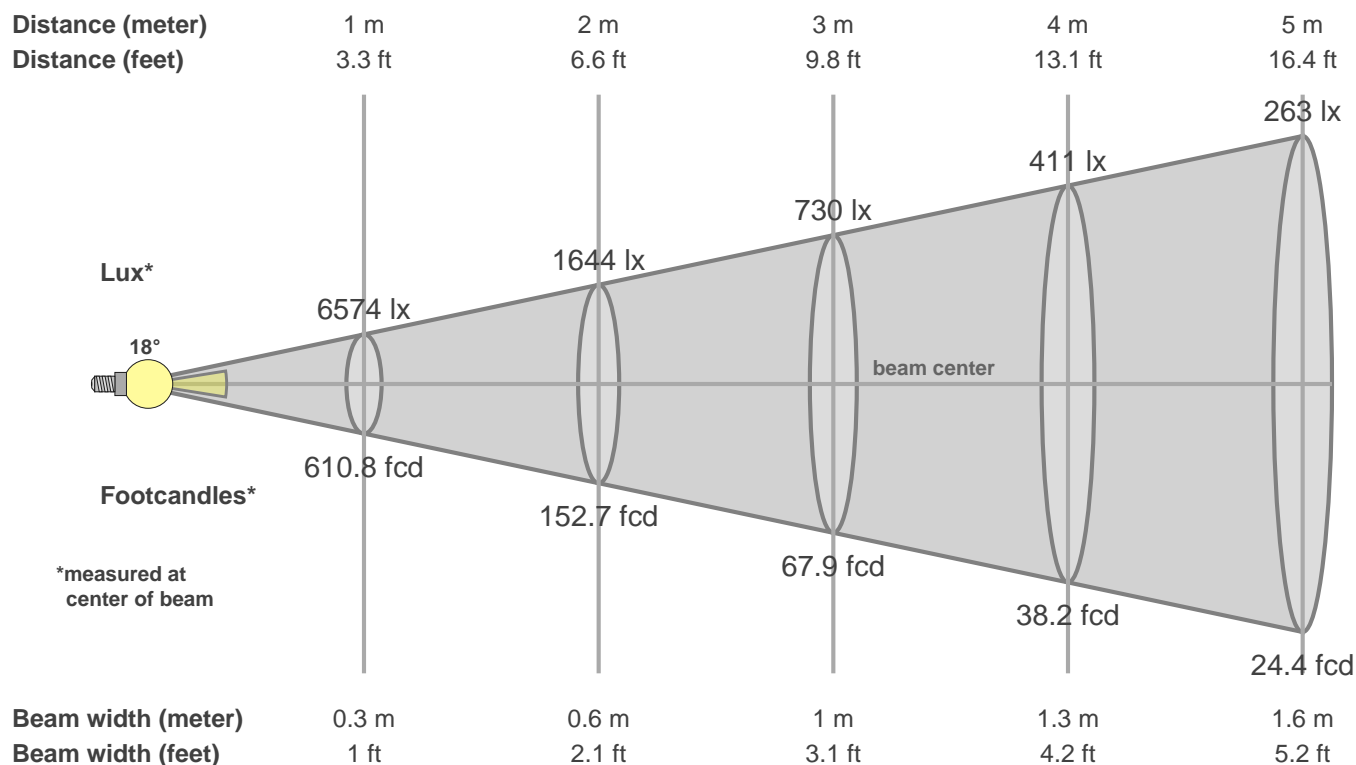
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
57.61	89.33	73.11	50.24	41.45	40.65	50.92	54.51	49.62	45.58	52.83	53.98	57.25	53.90	54.25

CQS: 53.4



Color parameters

CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Duv
2678 K	80.3	11.1	80.9	90.5	53.4	0.5	0.4	0.3	0.4	0.0064



Intensities in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
6574	6472	6295	6032	5666	5205	4706	4236	3775	3328	2894	2457	2039	1689	1386	1142	938	763	612	487
100%	98%	96%	92%	86%	79%	72%	64%	57%	51%	44%	37%	31%	26%	21%	17%	14%	12%	9%	7%

Intensities in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
6574	6472	6295	6032	5666	5205	4706	4236	3775	3328	2894	2457	2039	1689	1386	1142	938	763	612	487
100%	98%	96%	92%	86%	79%	72%	64%	57%	51%	44%	37%	31%	26%	21%	17%	14%	12%	9%	7%

Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
6574	6585	6487	6268	5936	5504	4991	4427	3859	3331	2841	2380	1983	1641	1343	1095	891	717	586	472
100%	100%	99%	95%	90%	84%	76%	67%	59%	51%	43%	36%	30%	25%	20%	17%	14%	11%	9%	7%

Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
6574	6585	6487	6268	5936	5504	4991	4427	3859	3331	2841	2380	1983	1641	1343	1095	891	717	586	472
100%	100%	99%	95%	90%	84%	76%	67%	59%	51%	43%	36%	30%	25%	20%	17%	14%	11%	9%	7%

Beam angle 50%	Field angle 10%	Cutoff angle 2.5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18.1°	35.1°	47.3°	99.4%	99.0%