

Light efficiency:

248 Lumen/Watt

Light quality:

CRI: 83.1

Color temperature:

3021 K

Output: 1561 lm

Peak: 1563 cd

Power: 6.3 W

18.0V @ 0.350A

2 PLANES



Product name:

Ultra 12 60Deg 3K

Date and time:

6/07/2020 11:31:45 AM

Item number:

S-U12-60-3

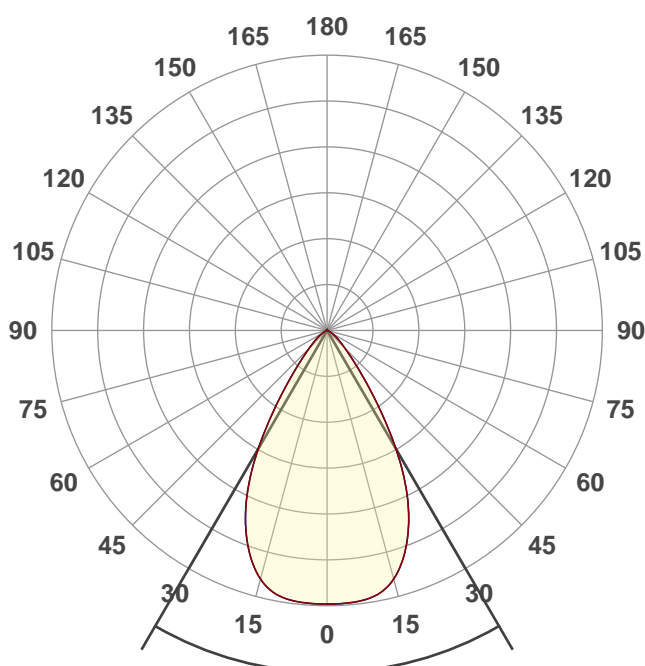
Operator:

N.Afshar

Additional information:

Ultra 12 60Deg 3K - Hunza Ultra
12 Spot

60 Degrees 3000K 700mA 18Vf



Beam angle

60.4°

Color

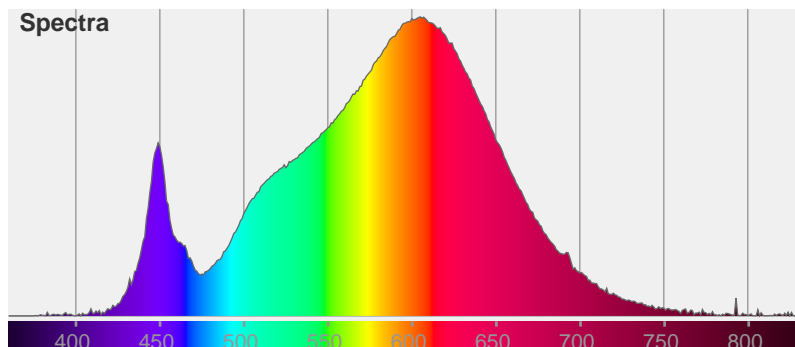


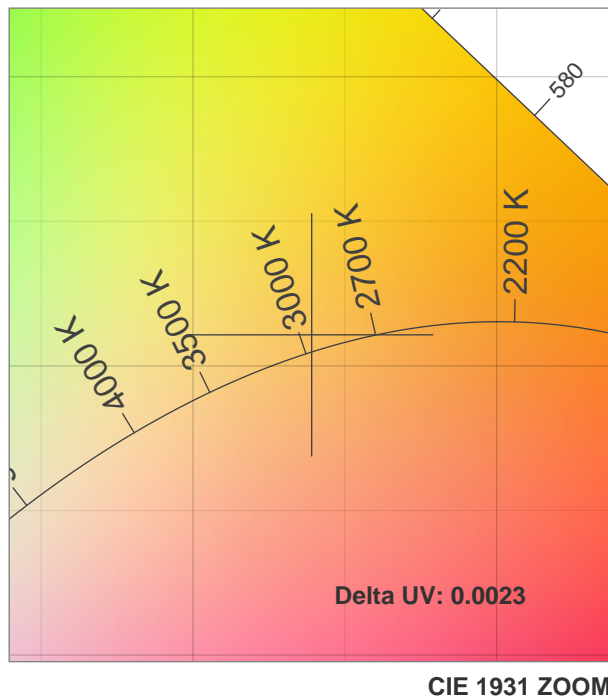
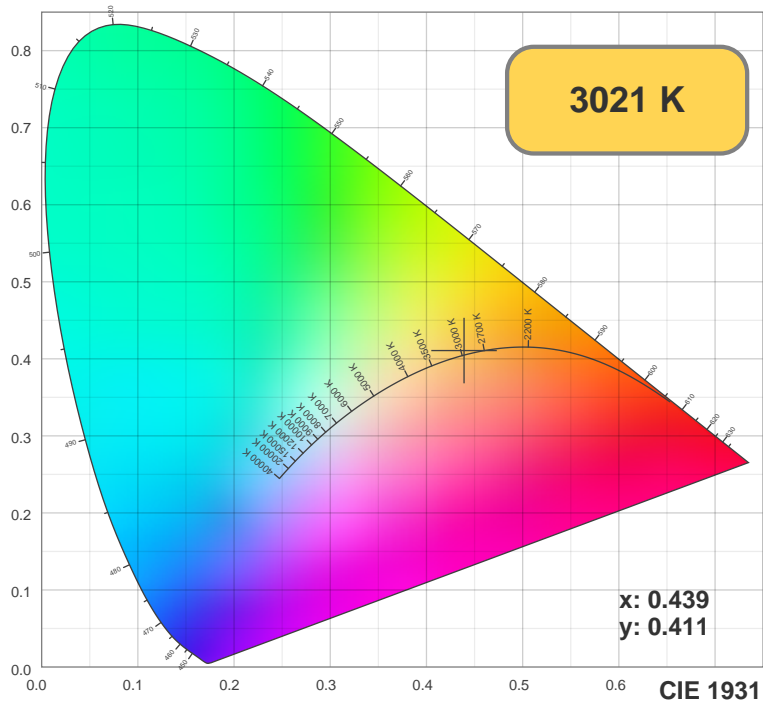
CIE1931

x: 0.439

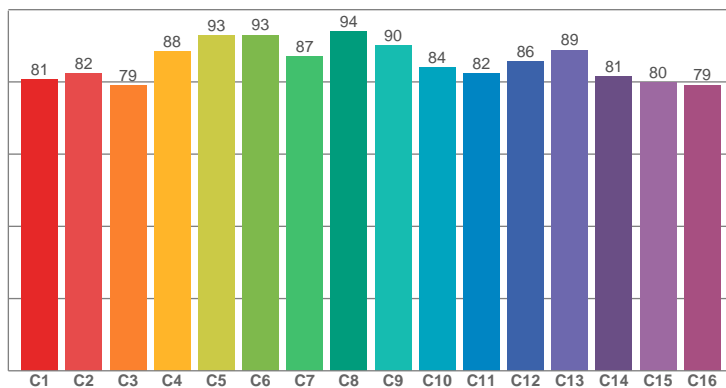
y: 0.411

Spectra

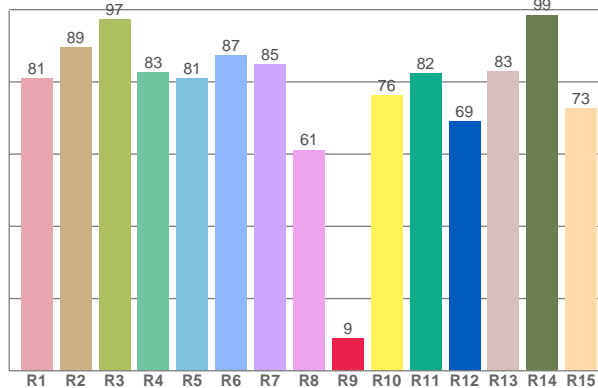




TM30: 85.6



CRI: 83.1 (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
81.05	89.49	97.28	82.59	80.97	87.32	84.82	61.13	8.99	76.30	82.38	69.15	82.85	98.51	72.72

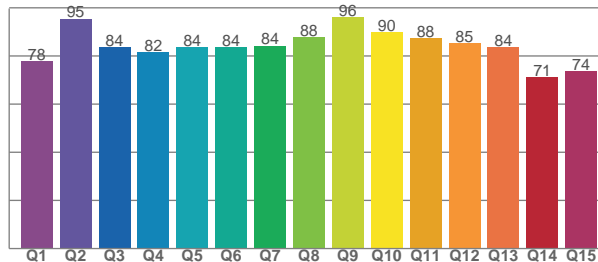
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80.76	82.31	79.10	88.39	92.89	93.03	87.01	93.91	90.18	84.03	82.34	85.71	88.84	81.48	79.86	79.15

CQS Q values

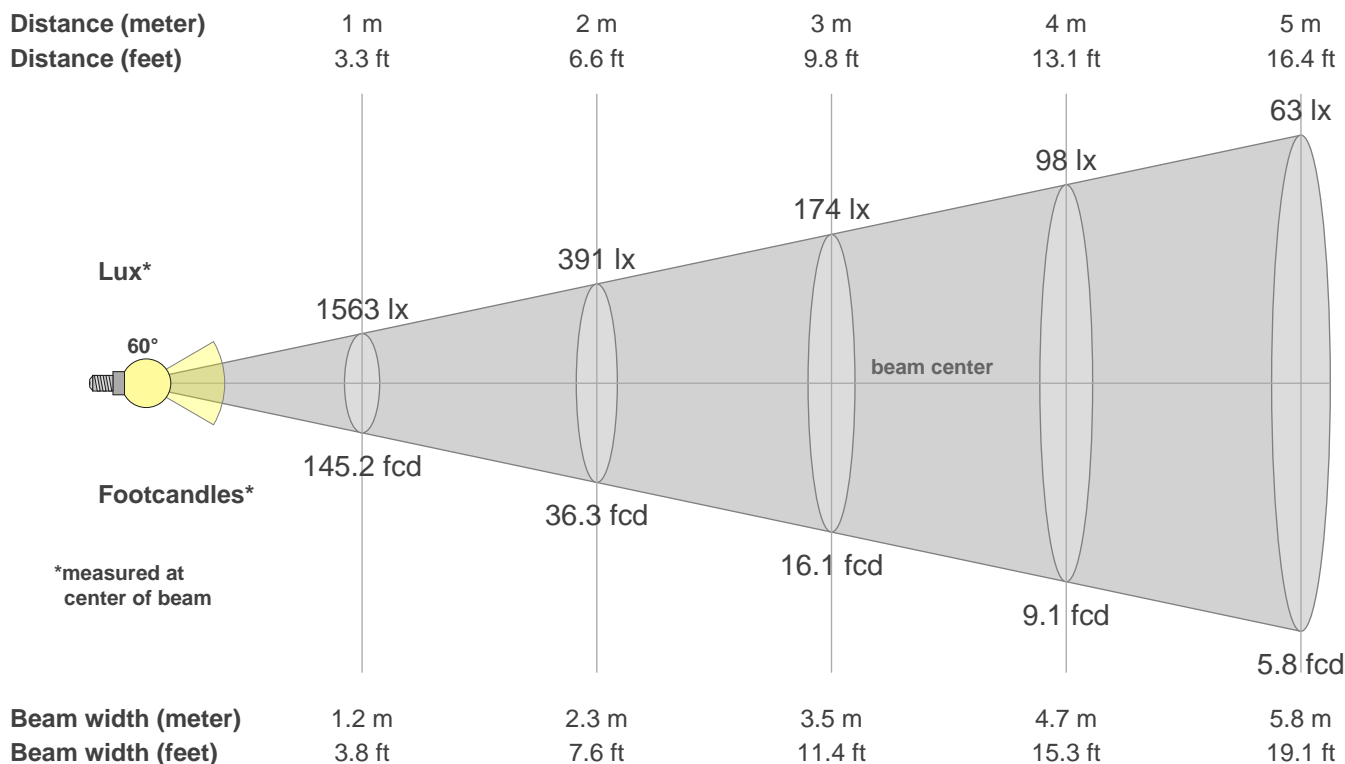
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.85	95.49	83.51	81.73	83.83	83.58	84.28	87.80	96.03	89.91	87.56	85.28	83.82	71.31	73.61

CQS: 82.9



Color parameters

CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Duv
3021 K	83.1	9.0	85.6	96.5	82.9	0.4	0.4	0.2	0.3	0.0023



Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1563	1563	1562	1559	1553	1541	1521	1490	1445	1386	1316	1235	1144	1042	924	793	659	532	419	325
100%	100%	100%	100%	99%	99%	97%	95%	92%	89%	84%	79%	73%	67%	59%	51%	42%	34%	27%	21%

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1563	1563	1562	1559	1553	1541	1521	1490	1445	1386	1316	1235	1144	1042	924	793	659	532	419	325
100%	100%	100%	100%	99%	99%	97%	95%	92%	89%	84%	79%	73%	67%	59%	51%	42%	34%	27%	21%

Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1563	1563	1562	1559	1553	1541	1521	1490	1445	1386	1316	1235	1144	1042	924	793	659	532	419	325
100%	100%	100%	100%	99%	99%	97%	95%	92%	89%	84%	79%	73%	67%	59%	51%	42%	34%	27%	21%

Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1563	1563	1562	1559	1553	1541	1521	1490	1445	1386	1316	1235	1144	1042	924	793	659	532	419	325
100%	100%	100%	100%	99%	99%	97%	95%	92%	89%	84%	79%	73%	67%	59%	51%	42%	34%	27%	21%

Beam angle 50%	Field angle 10%	Cutoff angle 2.5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
60.4°	88.8°	114.7°	97.3%	91.2%