

Light efficiency:

118 Lumen/Watt

Light quality:

CRI: 82.8

Color temperature:

3009 K

Output: 1484 lm

Peak: 2188 cd

Power: 12.6 W

18.0V @ 0.700A

2 PLANES



Product name:

Ultra 12 46Deg 3K

Date and time:

6/07/2020 11:16:29 AM

Item number:

S-U12-46-3K

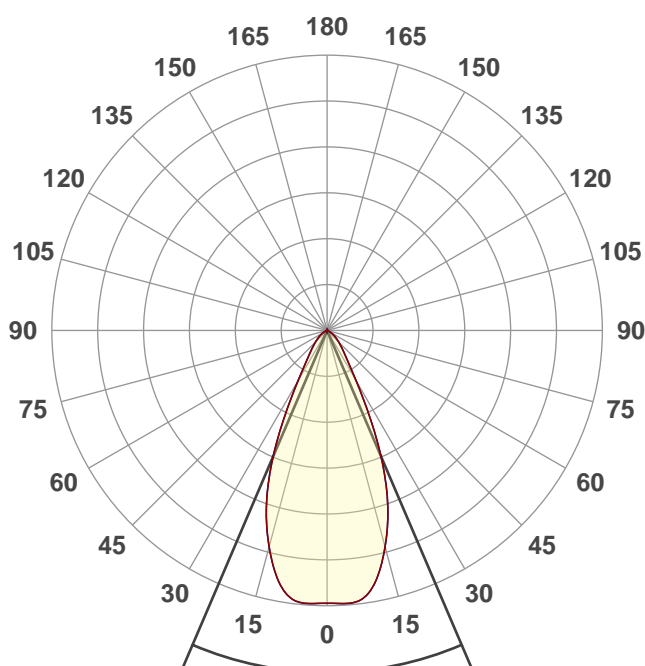
Operator:

N.Afshar

Additional information:

Ultra 12 46Deg 3K - Hunza Ultra
12 Spot

46 Degrees 3000K 700mA 18Vf



Beam angle

46.3°

Color

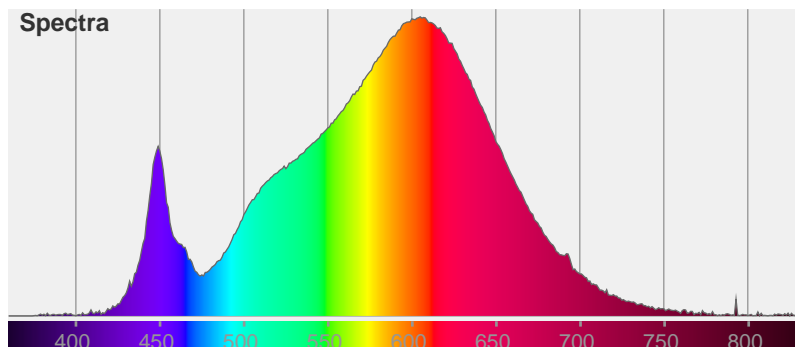


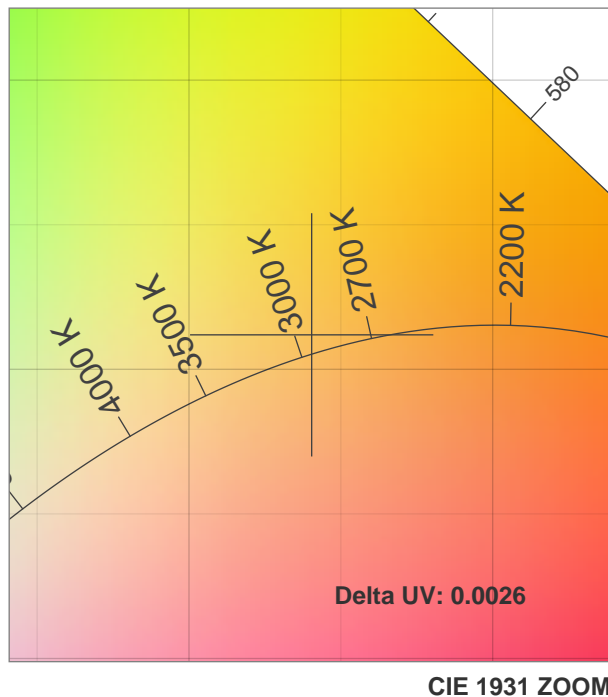
CIE1931

x: 0.440

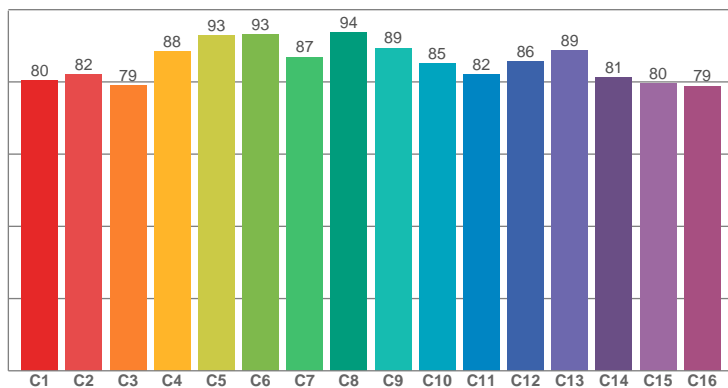
y: 0.412

Spectra

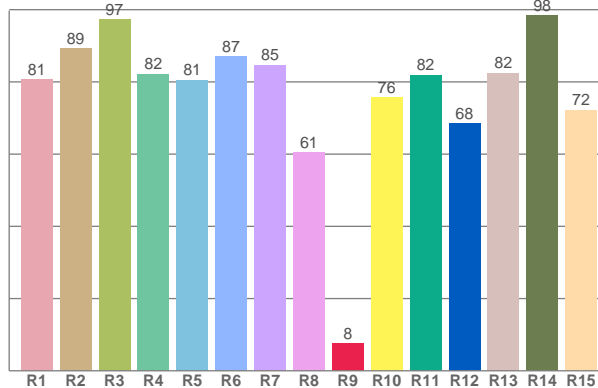




TM30: 85.4



CRI: 82.8 (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
80.66	89.25	97.28	82.23	80.53	87.00	84.69	60.56	7.62	75.75	81.90	68.45	82.47	98.49	72.22

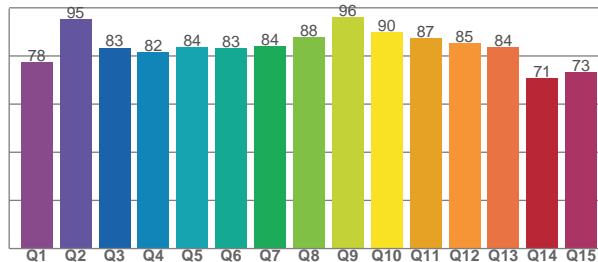
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80.44	82.07	78.97	88.41	92.93	93.15	86.91	93.78	89.41	85.17	82.15	85.63	88.74	81.27	79.62	78.92

CQS Q values

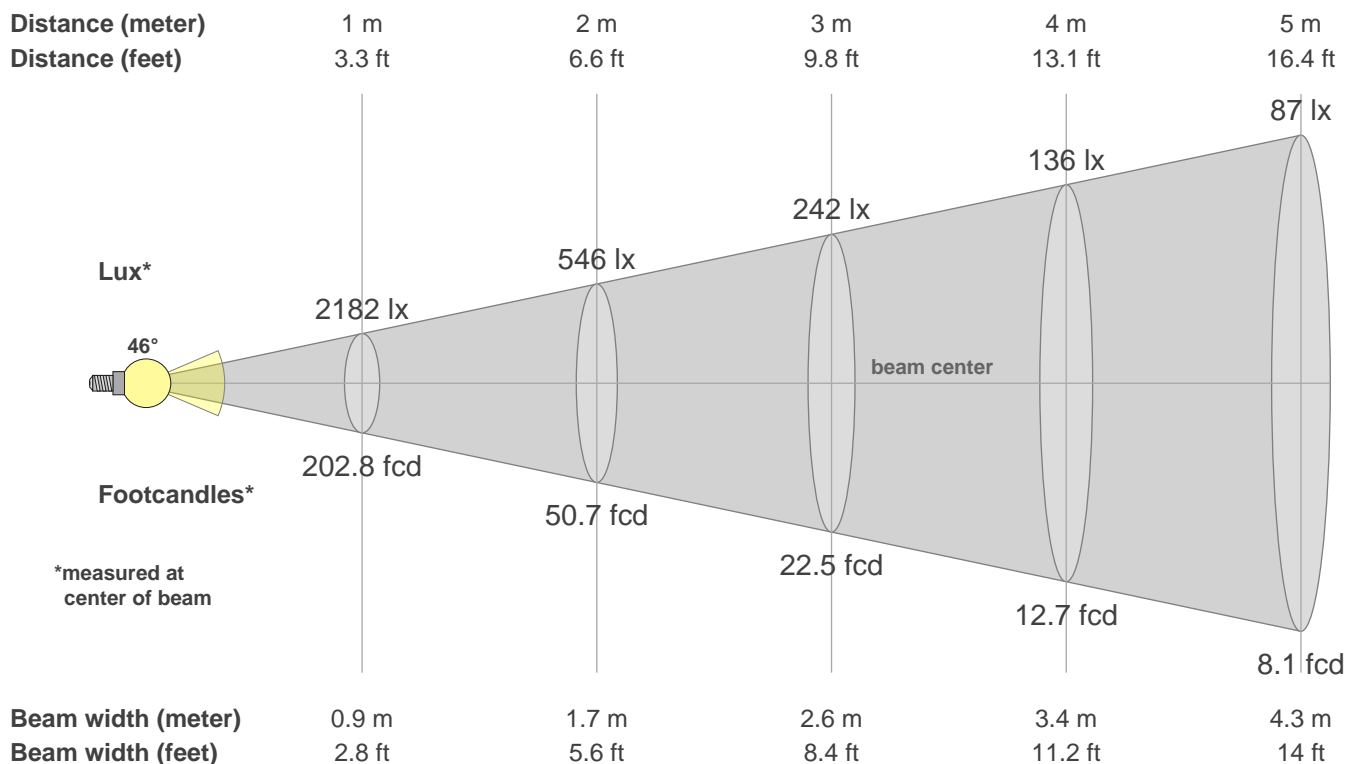
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.57	95.37	83.47	81.53	83.55	83.31	84.07	87.80	95.99	89.91	87.45	85.16	83.65	70.88	73.25

CQS: 82.7



Color parameters

CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Duv
3009 K	82.8	7.6	85.4	96.2	82.7	0.4	0.4	0.2	0.3	0.0026



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°
2182	2184	2188	2181	2149	2083	1982	1857	1720	1570	1403	1213	1008	795	608	464	363	295	249	213
100%	100%	100%	100%	98%	95%	91%	85%	79%	72%	64%	56%	46%	36%	28%	21%	17%	14%	11%	10%

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°
2182	2184	2188	2181	2149	2083	1982	1857	1720	1570	1403	1213	1008	795	608	464	363	295	249	213
100%	100%	100%	100%	98%	95%	91%	85%	79%	72%	64%	56%	46%	36%	28%	21%	17%	14%	11%	10%

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°
2182	2184	2188	2181	2149	2083	1982	1857	1720	1570	1403	1213	1008	795	608	464	363	295	249	213
100%	100%	100%	100%	98%	95%	91%	85%	79%	72%	64%	56%	46%	36%	28%	21%	17%	14%	11%	10%

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°
2182	2184	2188	2181	2149	2083	1982	1857	1720	1570	1403	1213	1008	795	608	464	363	295	249	213
100%	100%	100%	100%	98%	95%	91%	85%	79%	72%	64%	56%	46%	36%	28%	21%	17%	14%	11%	10%

Beam angle 50%	Field angle 10%	Cutoff angle 2.5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
46.3°	75.3°	112.7°	97.2%	90.4%