

Light efficiency:

114 Lumen/Watt

Light quality:

CRI: 82.6

Color temperature:

2998 K

Output: 1436 lm

Peak: 5774 cd

Power: 12.6 W

18.0V @ 0.700A

2 PLANES



Product name:

Ultra 12 24Deg 3000K

Date and time:

6/07/2020 11:07:42 AM

Item number:

S-U12-24-3K

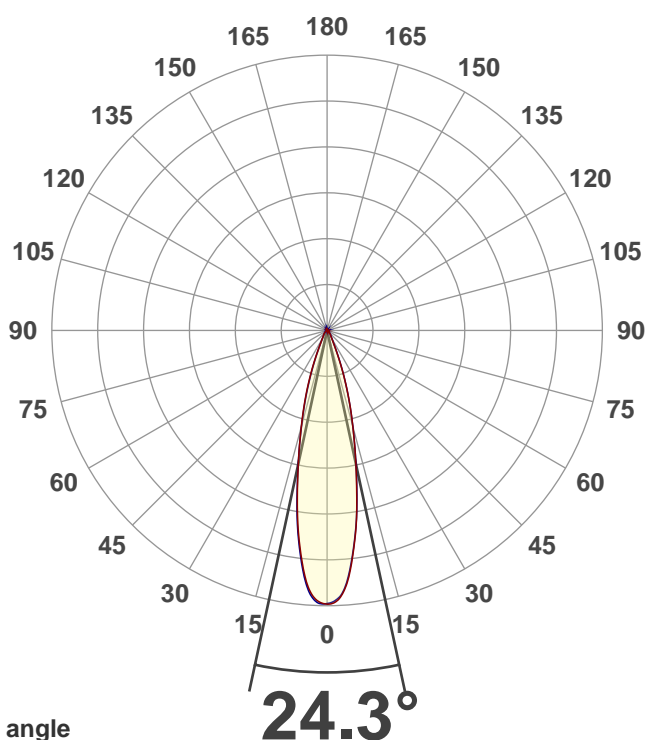
Operator:

N.Afshar

Additional information:

Ultra 12 24Deg 3K - Hunza Ultra  
12 Spot

24 Degrees 3000K 700mA 18Vf



Color

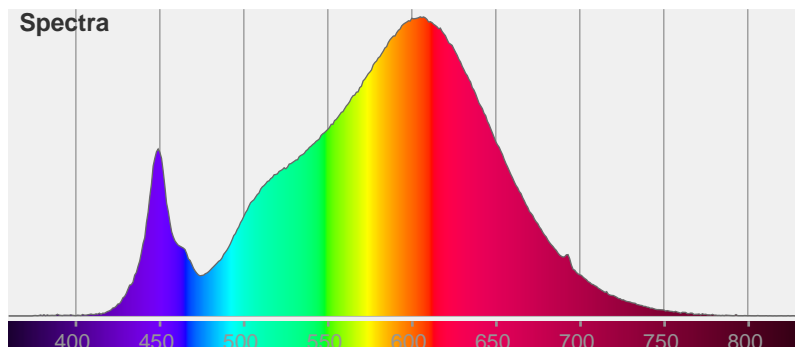


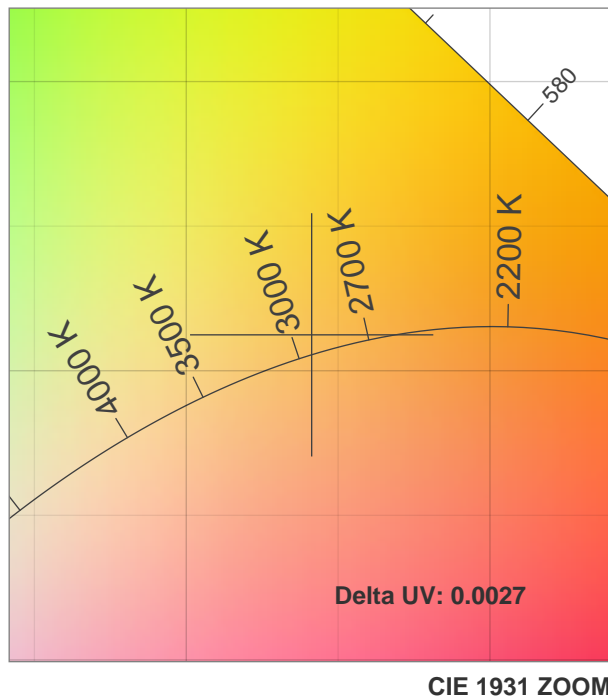
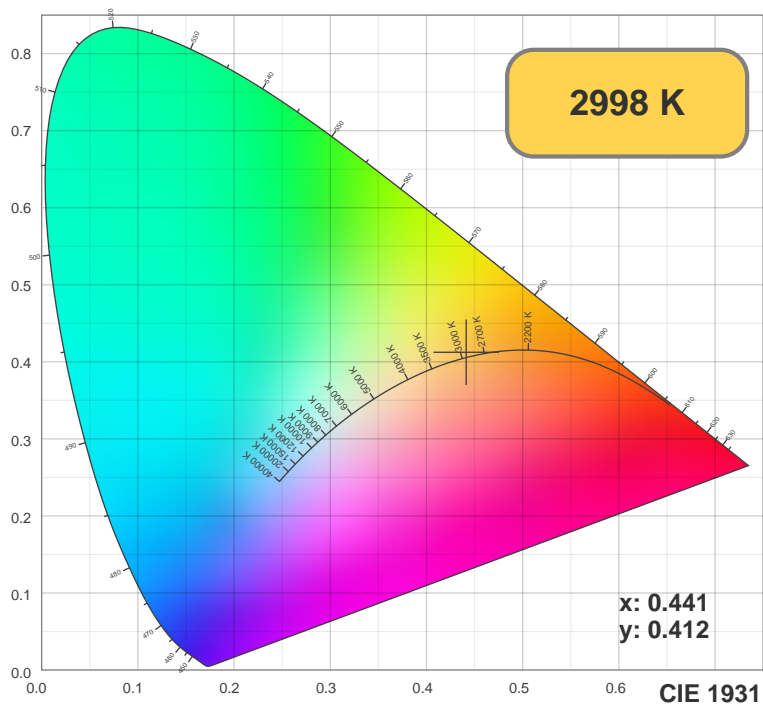
CIE1931

x: 0.441

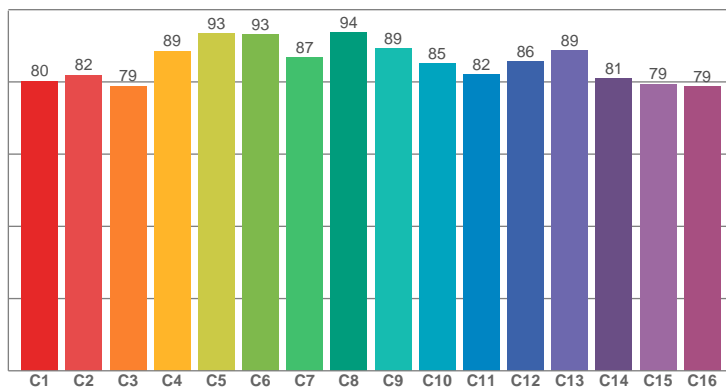
y: 0.412

Spectra

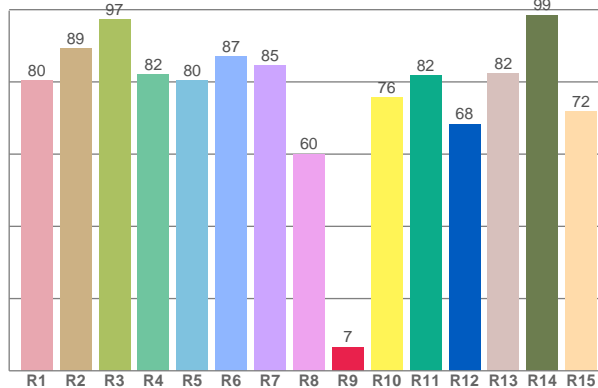




TM30: 85.4



CRI: 82.6 (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
80.47	89.20	97.35	82.05	80.36	86.99	84.50	60.07	6.62	75.69	81.75	68.34	82.32	98.55	71.90

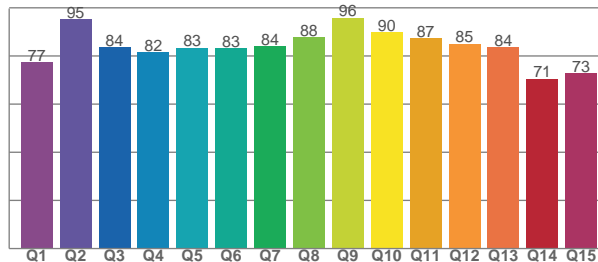
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80.23	81.92	78.90	88.57	93.35	93.19	86.84	93.76	89.33	85.09	82.10	85.57	88.63	81.05	79.41	78.69

CQS Q values

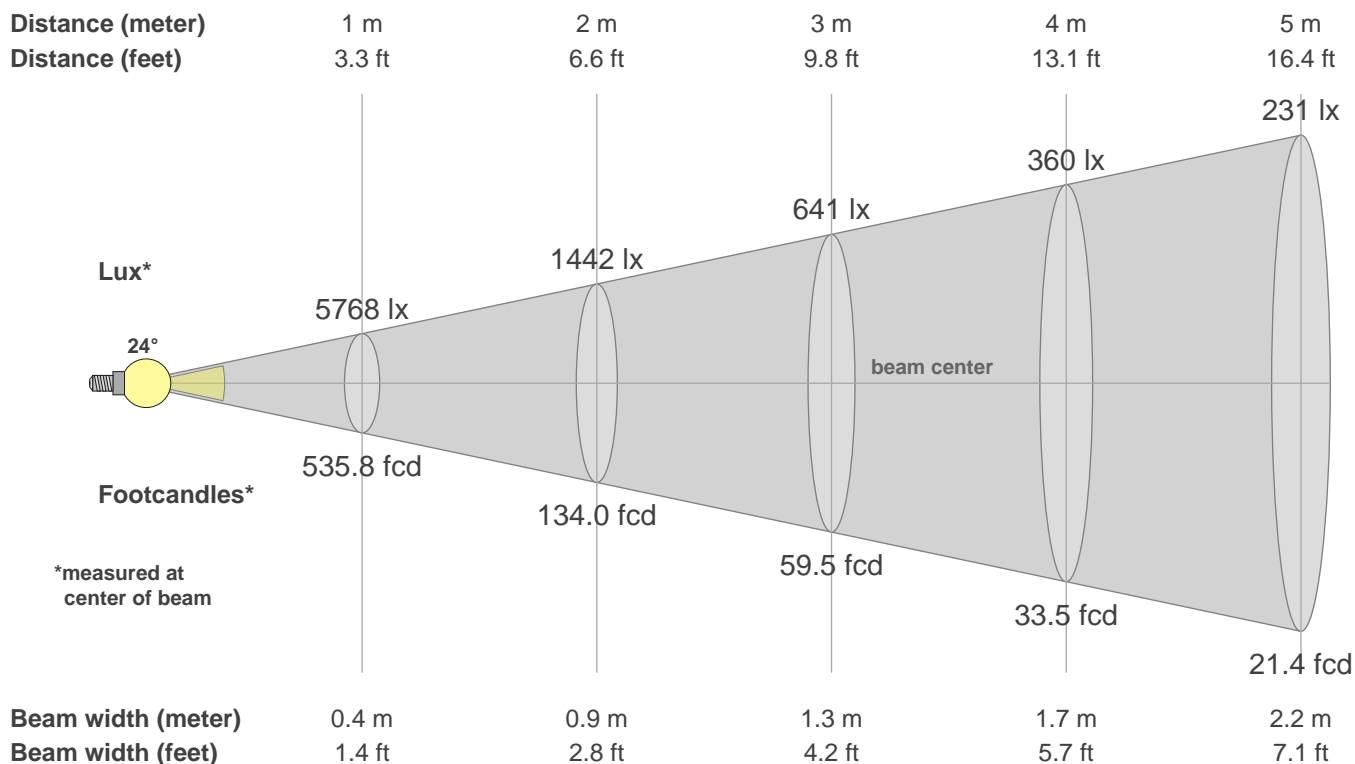
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.34	95.29	83.51	81.52	83.49	83.23	83.99	87.76	95.92	89.94	87.43	85.10	83.53	70.57	72.99

CQS: 82.6



## Color parameters

CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Duv
2998 K	82.6	6.6	85.4	96.1	82.6	0.4	0.4	0.2	0.4	0.0027



## 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°
5768	5713	5448	4937	4312	3610	2937	2359	1870	1440	1058	732	491	339	254	201	166	142	124	111
100%	99%	94%	86%	75%	63%	51%	41%	32%	25%	18%	13%	9%	6%	4%	3%	3%	2%	2%	2%

## 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°
5768	5683	5427	4902	4292	3623	2946	2356	1859	1427	1055	744	509	351	265	211	176	152	133	122
100%	99%	94%	85%	74%	63%	51%	41%	32%	25%	18%	13%	9%	6%	5%	4%	3%	3%	2%	2%

## 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°
5768	5707	5465	4960	4332	3620	2935	2361	1872	1457	1081	767	521	356	261	208	172	147	131	121
100%	99%	95%	86%	75%	63%	51%	41%	32%	25%	19%	13%	9%	6%	5%	4%	3%	3%	2%	2%

## 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°
5768	5747	5518	5017	4379	3665	2947	2346	1840	1410	1027	718	486	335	248	194	161	138	118	108
100%	100%	96%	87%	76%	64%	51%	41%	32%	24%	18%	12%	8%	6%	4%	3%	3%	2%	2%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2.5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24.3°	46.6°	68.1°	98.5%	94.7%