

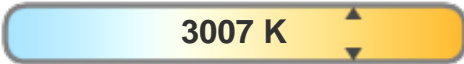
Light efficiency:



Light quality:



Color temperature:



Output: 1214 lm

Peak: 8129 cd

Power: 21.1 W

PF: 0.99



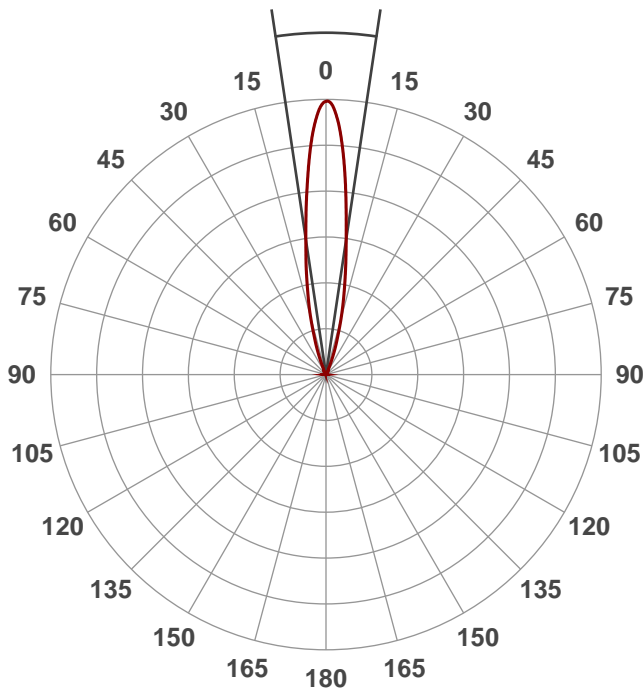
Product name:
4500-LED-CZ20-24

Date and time:
3/3/2017 3:27:53 PM

Item number:
4500-LED-CZ20-24

Beam angle

17°

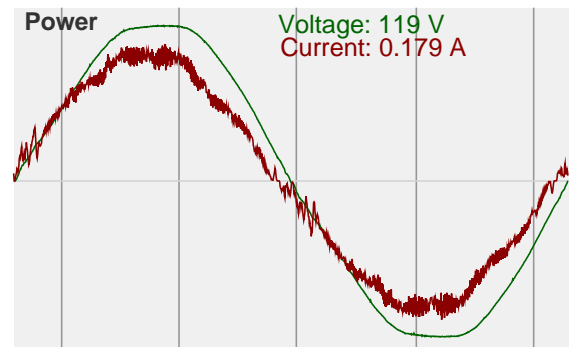
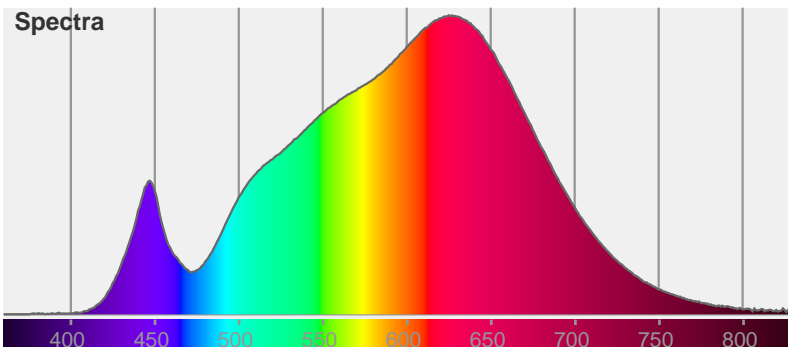


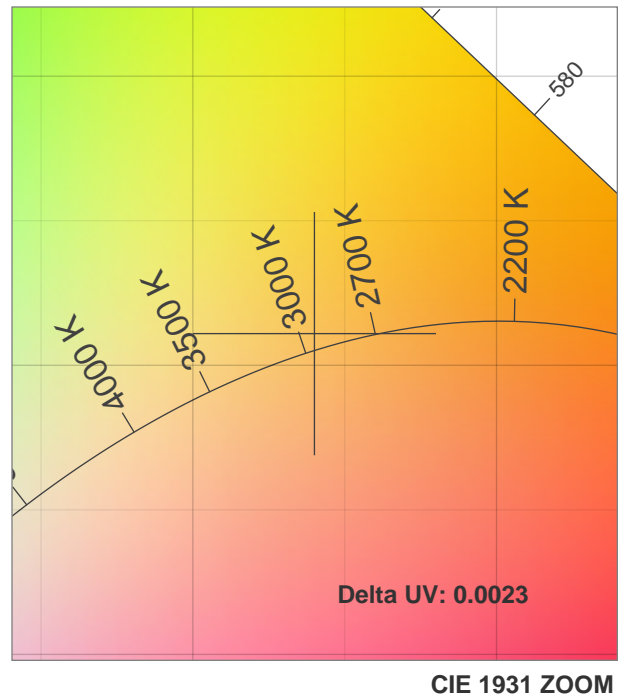
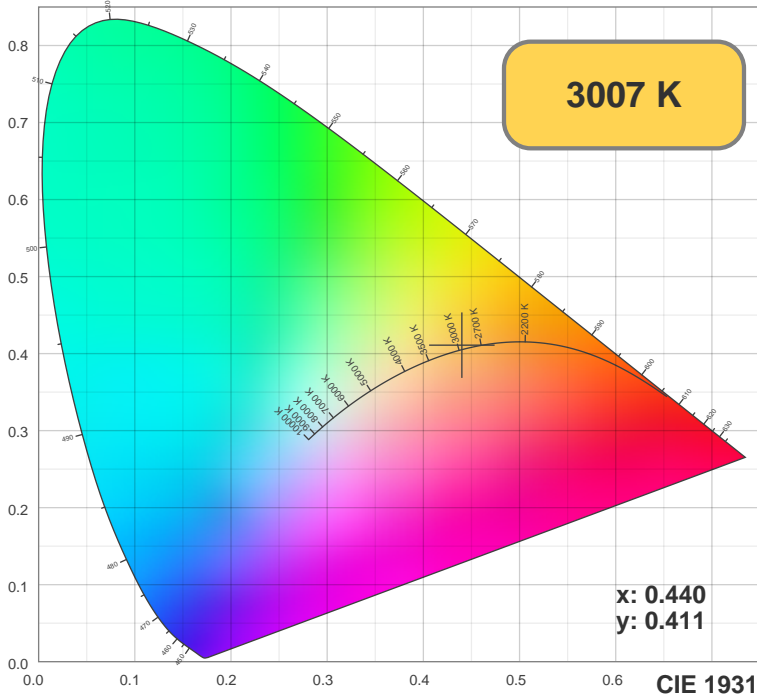
Color



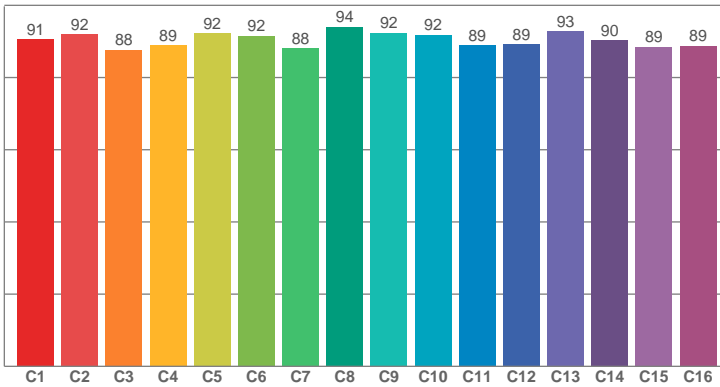
CIE1931
x: 0.440
y: 0.411

Spectra

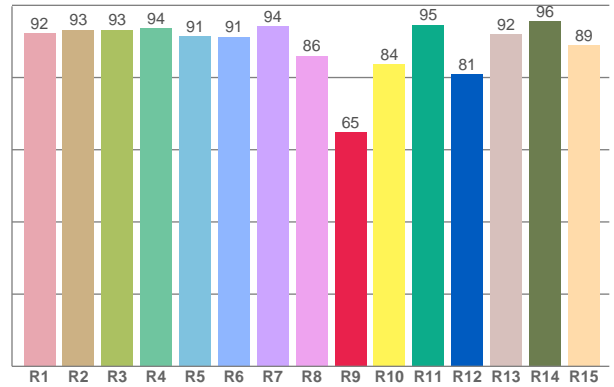




TM30: 90.6



CRI: 91.9 (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
92.22	93.16	93.18	93.69	91.39	91.27	94.25	86.02	64.86	83.67	94.60	80.82	91.99	95.52	88.86

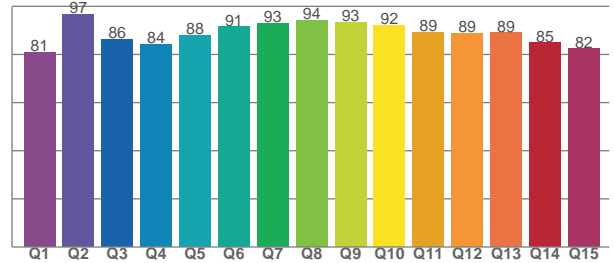
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
90.59	91.98	87.64	88.96	92.18	91.59	88.16	94.03	92.36	91.86	88.98	89.24	92.79	90.22	88.51	88.81

CQS Q values

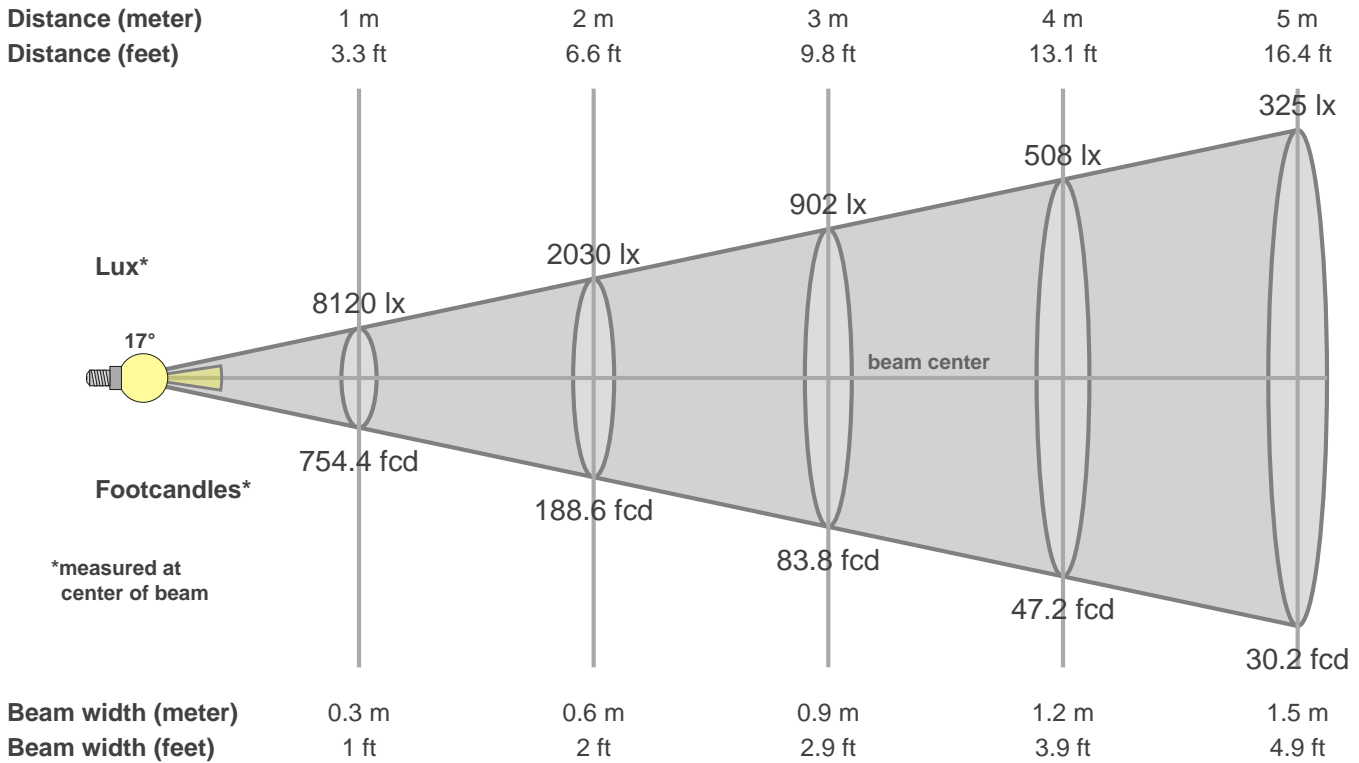
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
81.00	96.73	86.32	84.17	87.90	91.46	92.86	94.30	93.24	92.17	89.25	88.78	88.96	84.78	82.34

CQS: 88.0



Color parameters

CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Duv
3007 K	91.9	64.9	90.6	101.1	88.0	0.4	0.4	0.2	0.3	0.0023



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°
8120	7999	7700	7257	6708	6072	5448	4868	4302	3825	3418	3030	2667	2343	2061	1764	1478	1214	1020	841
100%	99%	95%	89%	83%	75%	67%	60%	53%	47%	42%	37%	33%	29%	25%	22%	18%	15%	13%	10%

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°
8120	7999	7700	7257	6708	6072	5448	4868	4302	3825	3418	3030	2667	2343	2061	1764	1478	1214	1020	841
100%	99%	95%	89%	83%	75%	67%	60%	53%	47%	42%	37%	33%	29%	25%	22%	18%	15%	13%	10%

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°
8120	8073	7815	7407	6859	6243	5566	4921	4319	3820	3394	2994	2648	2323	2025	1738	1458	1204	1014	839
100%	99%	96%	91%	84%	77%	69%	61%	53%	47%	42%	37%	33%	29%	25%	21%	18%	15%	12%	10%

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°
8120	8073	7815	7407	6859	6243	5566	4921	4319	3820	3394	2994	2648	2323	2025	1738	1458	1204	1014	839
100%	99%	96%	91%	84%	77%	69%	61%	53%	47%	42%	37%	33%	29%	25%	21%	18%	15%	12%	10%

Beam angle 50%	Field angle 10%	Cutoff angle 2.5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17.0°	38.3°	47.5°	98.1%	94.8%