

WELTPLAST

Light efficiency:

60 Lumen/Watt

Light quality:

CRI: 35,0

Color temperature:

2230 K

Output: 169 lm

Peak: 56,3 cd

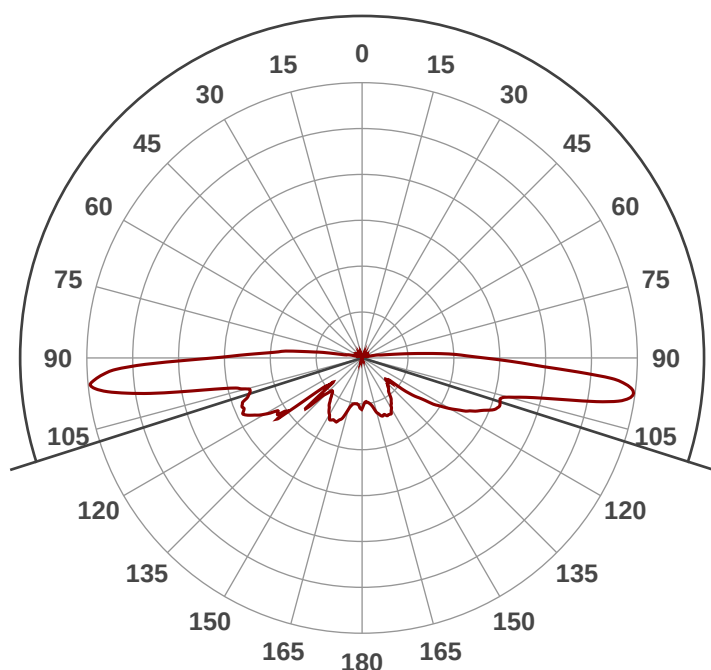
Power: 2,8 W

40,0V @ 0,070A



Beam angle

215,3°



Product name:

ALLOY-W3-12x360

Date and time:

08.09.2017 17:37:29

Additional information:

Measurements of the optical system with current on the LED 0.7A with a built-in current stabilizer

Color

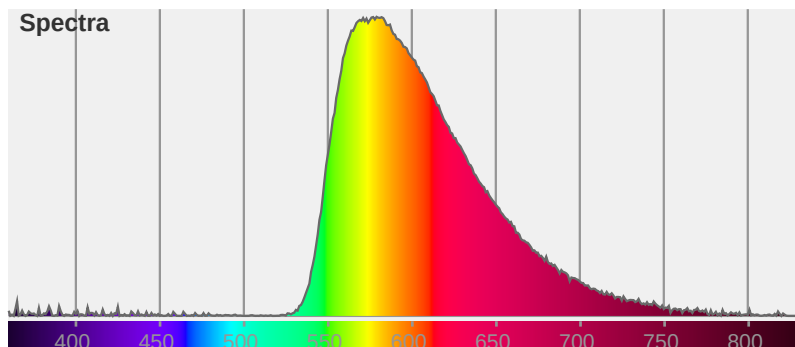


CIE1931

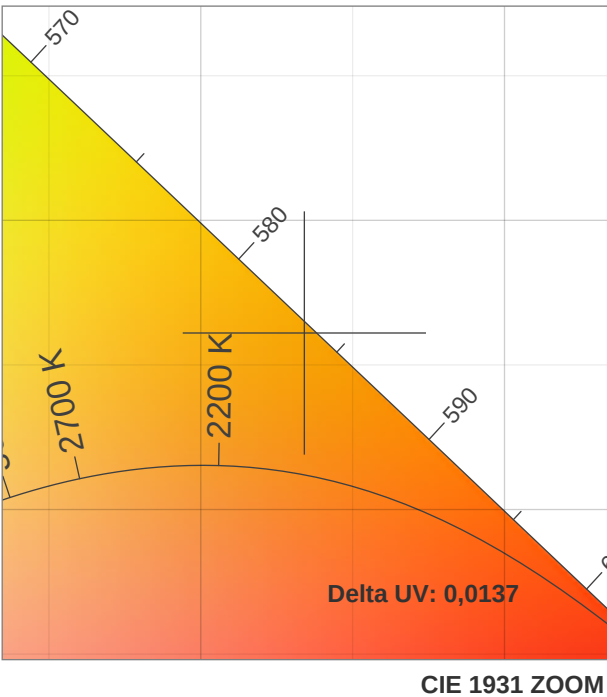
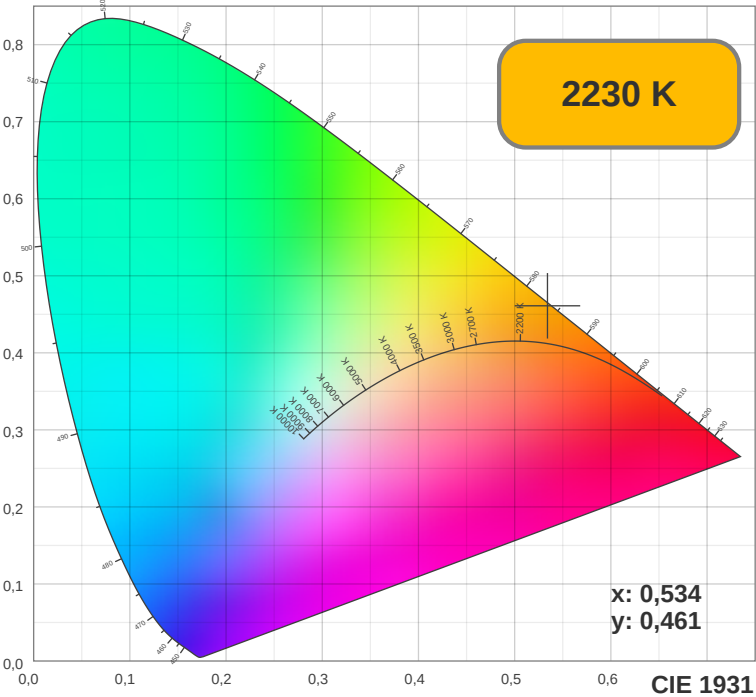
x: 0,534

y: 0,461

Spectra

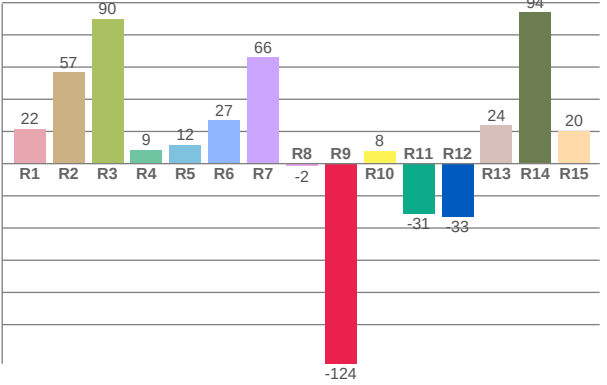
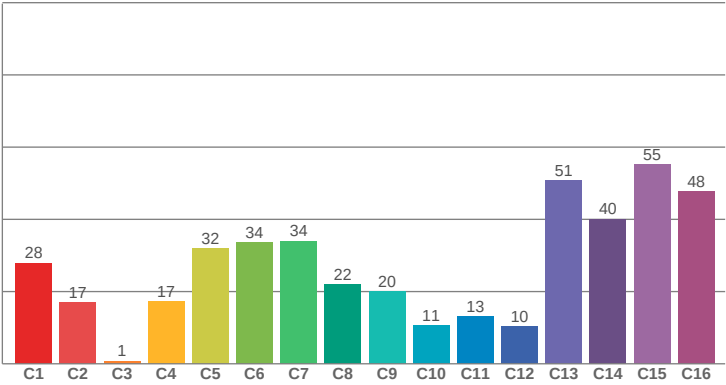


WELTPLAST



TM30: 24,0

CRI: 35,0 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

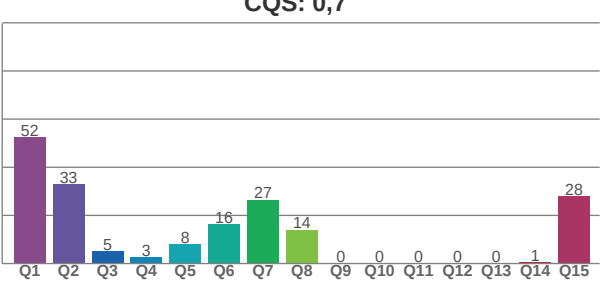
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
21,66	56,82	90,08	8,68	11,57	26,93	66,09	-1,59	-124,34	7,97	-31,06	-32,94	23,87	93,88	20,34

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
27,91	16,96	0,81	17,23	31,85	33,51	34,05	21,99	20,10	10,69	13,08	10,31	50,75	40,10	55,11	47,83

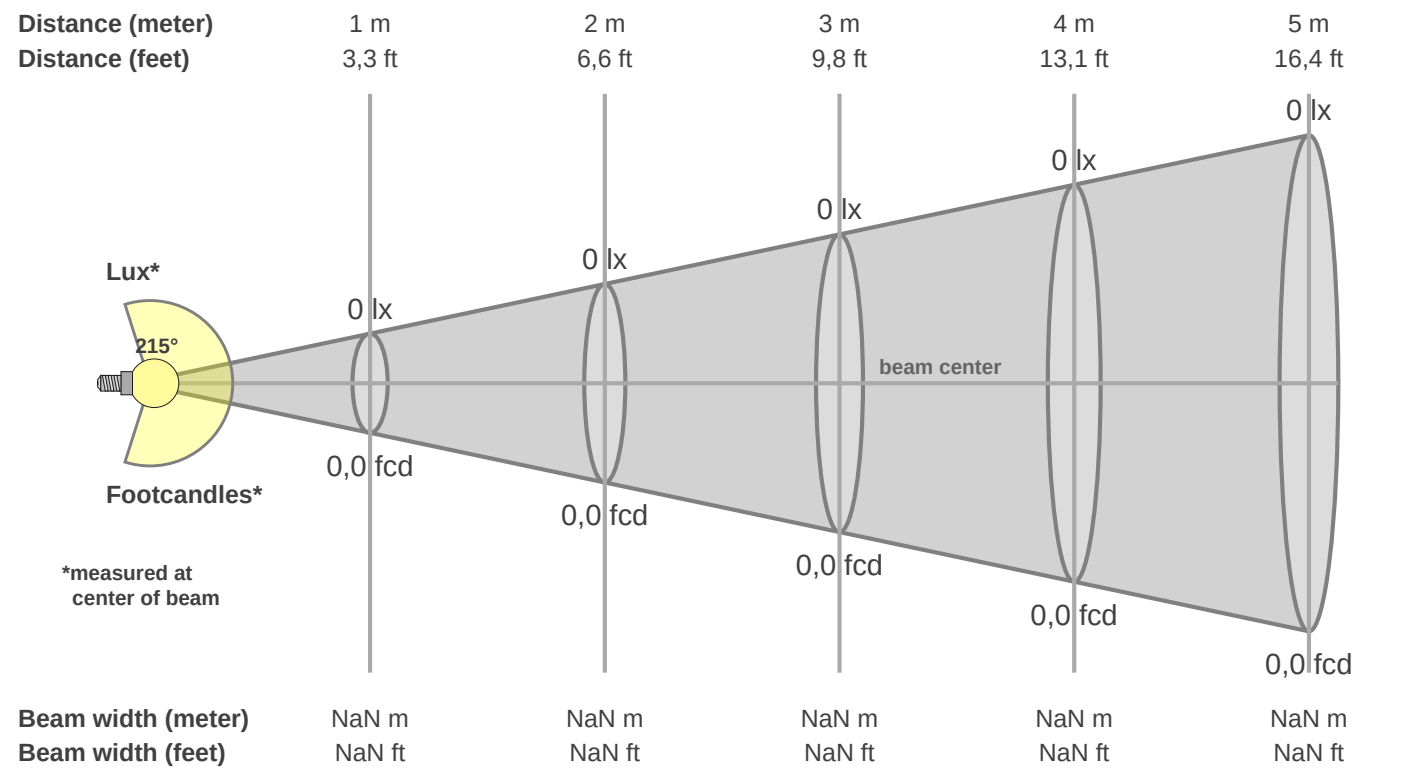
CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
52,39	32,86	5,23	2,74	8,03	16,30	26,58	14,05	0,10	0,00	0,00	0,00	0,04	0,55	27,91



Color parameters

CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Duv
2230 K	35,0	-124,3	24,0	31,9	0,7	0,5	0,5	0,3	0,4	0,0137



Intensities in 0° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
0,1	0,1	0,1	0,3	0,6	1,2	0,9	1,2	1,2	5,5	30,9	46,6	24,5	25,9	19,8	10,5	11,3	14,3	13,0	9,5
100%	140%	222%	477%	995%	2009%	1504%	2001%	1919%	8910%	49995%	75385%	39652%	41993%	32015%	16968%	18354%	23151%	21007%	15417%

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0,1	0,1	0,1	0,3	0,6	1,2	0,9	1,2	1,2	5,5	30,9	46,6	24,5	25,9	19,8	10,5	11,3	14,3	13,0	9,5
100%	140%	222%	477%	995%	2009%	1504%	2001%	1919%	8910%	49995%	75385%	39652%	41993%	32015%	16968%	18354%	23151%	21007%	15417%

Intensities in 180° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
0,1	0,1	0,1	0,2	0,6	1,0	0,8	1,0	1,0	3,8	25,2	54,7	29,8	24,1	13,3	7,4	10,0	12,9	12,5	9,4
100%	112%	176%	284%	934%	1681%	1349%	1607%	1618%	6230%	40771%	88454%	48279%	38980%	21556%	11996%	16181%	20919%	20174%	15278%

Intensities in 180° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
0,1	0,1	0,1	0,2	0,6	1,0	0,8	1,0	1,0	3,8	25,2	54,7	29,8	24,1	13,3	7,4	10,0	12,9	12,5	9,4
100%	112%	176%	284%	934%	1681%	1349%	1607%	1618%	6230%	40771%	88454%	48279%	38980%	21556%	11996%	16181%	20919%	20174%	15278%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
215,3°	360,0°	360,0°	1,3%	0,5%