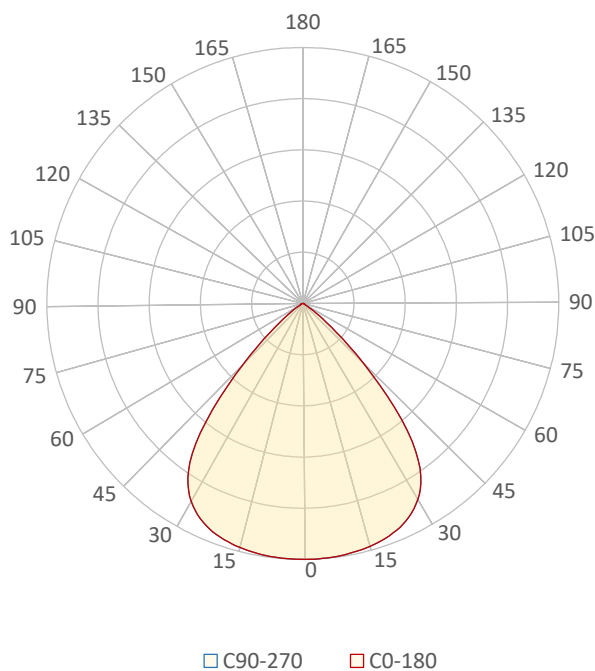


General Description

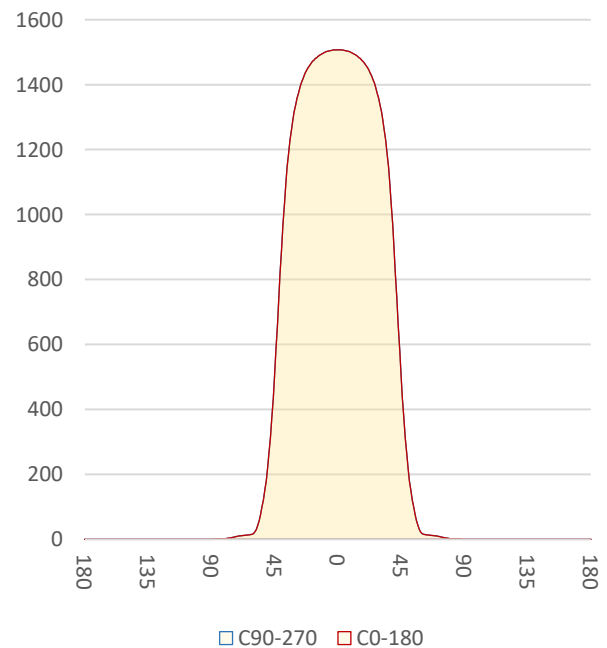
Item number	E-L6-X-X-2790
Date and time	2-12-2022 12:57:42
CCT (Kelvin)	2680 K
Beam angle	83,7°
Luminous flux	2438 lm
Efficiency	90 lm/watt
Weighted energy	27,1 kWh/1000h
Power factor	0,97
CRI (RA)	92,7
Fidelity index Rf	Rf 89,8
Gammut index Rg	Rg 103,6
Peak	1507 cd



Polar diagram



Cartesian diagram



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Beam details	1m	2m	3m	4m	5m																			
Lux*	1507 lx	377 lx	167 lx	94 lx	60 lx																			
*measured at center of beam																								
Footcandles*	140,0 fcd	35,0 fcd	15,6 fcd	8,8 fcd	5,6 fcd																			
Beam width (meter)	1,8 m	3,6 m	5,4 m	7,2 m	9 m																			
Beam width (Feet)	5,9 ft	11,7 ft	17,6 ft	23,5 ft	29,4 ft																			
Beam intensities																								
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m					
1507lx	377lx	167lx	94lx	60lx	42lx	31lx	24lx	19lx	15lx	12lx	10lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx					
3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	19,7ft	23ft	26,2ft	29,5ft	32,8ft	36,1ft	39,4ft	42,7ft	45,9ft	49,2ft	52,5ft	55,8ft	59,1ft	62,3ft	65,6ft					
140fcd	35fcd	15,6fcd	8,8fcd	5,6fcd	3,9fcd	2,9fcd	2,2fcd	1,7fcd	1,4fcd	1,2fcd	1fcd	0,8fcd	0,7fcd	0,6fcd	0,5fcd	0,5fcd	0,4fcd	0,4fcd	0,4fcd					
Intensities in 0° c-plane																								
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°					
1507	1506	1498	1484	1460	1417	1338	1191	897	507	218	76	18	13	10	6	2	0	0	0					
100%	100%	99%	98%	97%	94%	89%	79%	60%	34%	14%	5%	1%	1%	1%	0%	0%	0%	0%	0%					
Intensities in 90° c-plane																								
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°					
1507	1506	1498	1484	1460	1417	1338	1191	897	507	218	76	18	13	10	6	2	0	0	0					
100%	100%	99%	98%	97%	94%	89%	79%	60%	34%	14%	5%	1%	1%	1%	0%	0%	0%	0%	0%					
Intensities in 180° c-plane																								
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°					
1507	1506	1498	1484	1460	1417	1338	1191	897	507	218	76	18	13	10	6	2	0	0	0					
100%	100%	99%	98%	97%	94%	89%	79%	60%	34%	14%	5%	1%	1%	1%	0%	0%	0%	0%	0%					
Intensities in 270° c-plane																								
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°					
1507	1506	1498	1484	1460	1417	1338	1191	897	507	218	76	18	13	10	6	2	0	0	0					
100%	100%	99%	98%	97%	94%	89%	79%	60%	34%	14%	5%	1%	1%	1%	0%	0%	0%	0%	0%					
Beam angle 50%					Field angle 10%					Cutoff angle 2,5%					Intensity ratio in 120° cone					Intensity ratio in 90° cone				
83,7°					103,9°					114,7°					99,1%					90,2%				



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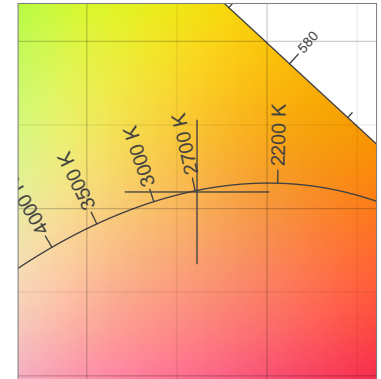
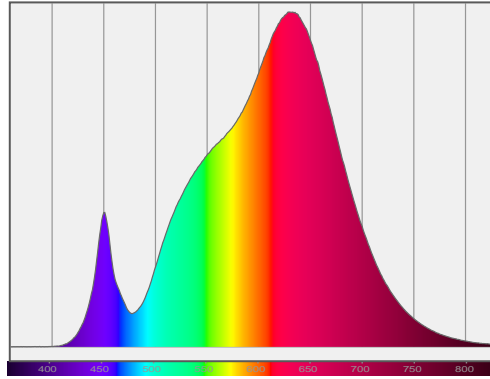
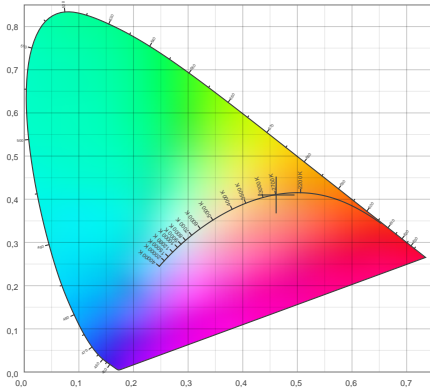
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Color details



CIE 1931

x: 0,461



Spectra

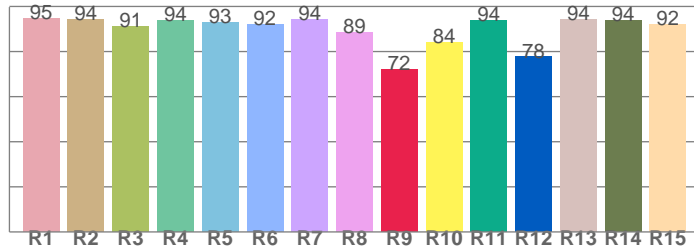
CIE 1931 ZOOM

2680 K

y: 0,410

Δuv : -0,0004

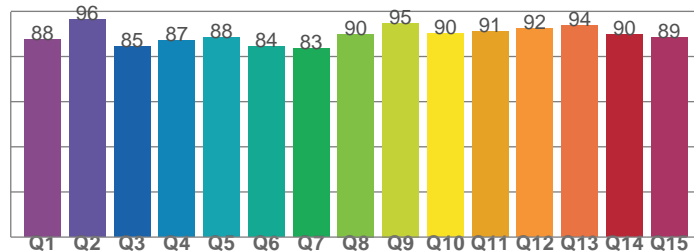
CRI: 92,7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8
94,6	94,2	91,0	93,8	92,8	91,9	94,4	88,7
R9	R10	R11	R12	R13	R14	R15	
72,2	84,2	94,0	77,6	94,3	93,6	92,1	

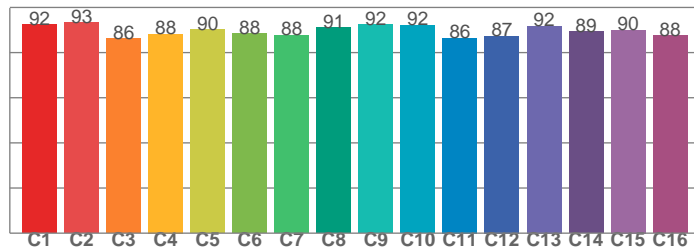
CQS: 88,7



CQS values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
87,5	96,4	84,6	87,0	88,4	84,4	83,4	90,0
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
94,9	90,1	91,1	92,5	93,7	89,7	88,5	

TM30: 89,8



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

C1	C2	C3	C4	C5	C6	C7	C8
92,4	93,2	86,3	88,2	90,3	88,5	87,7	91,0
C9	C10	C11	C12	C13	C14	C15	
92,5	92,1	86,4	87,4	91,8	89,3	89,9	

Color parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
2680 K	92,7	72,2	89,8	103,6	88,7	0,461	0,410	0,264	0,352	-0,0004



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TM30 details

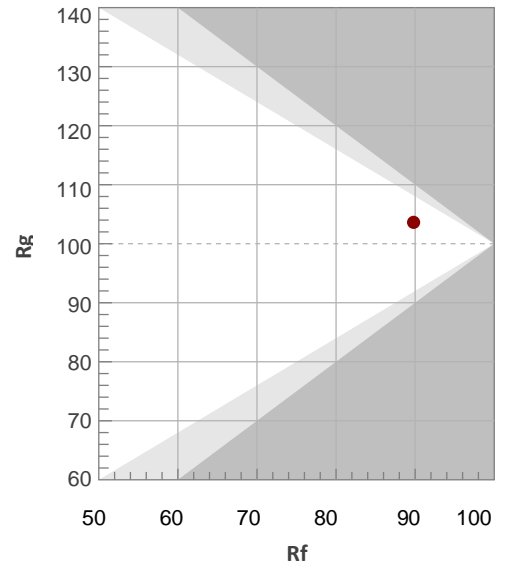
Rf 89,8

Fidelity index Rf

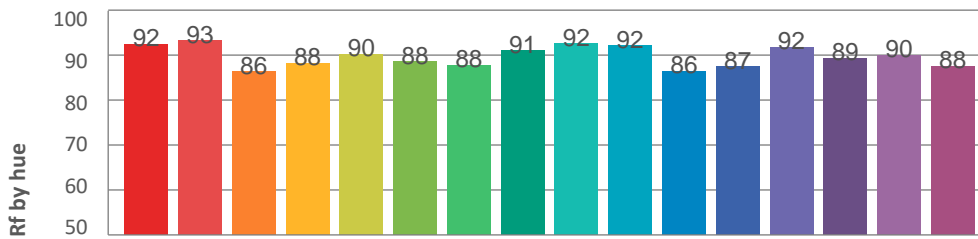
Rg 103,6

Gamut index Rg

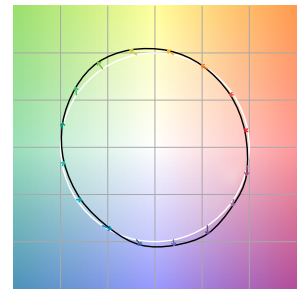
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	92	-3%	-2%
2	93	-3%	3%
3	86	0%	7%
4	88	3%	7%
5	90	6%	6%
6	88	8%	0%
7	88	5%	-6%
8	91	1%	-6%
9	92	-2%	-4%
10	92	-4%	3%
11	86	-2%	9%
12	87	4%	5%
13	92	6%	0%
14	89	7%	-5%
15	90	3%	-5%
16	88	1%	-10%



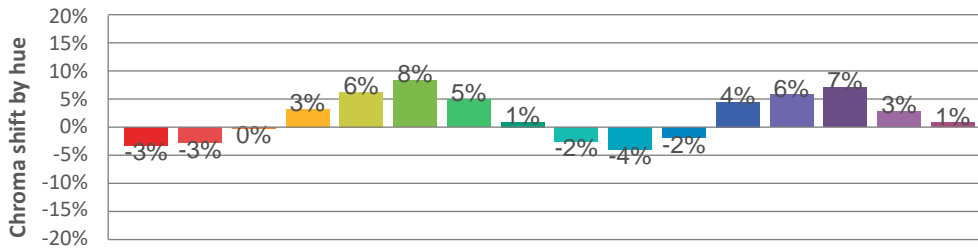
Hue binH



Color vector graphics



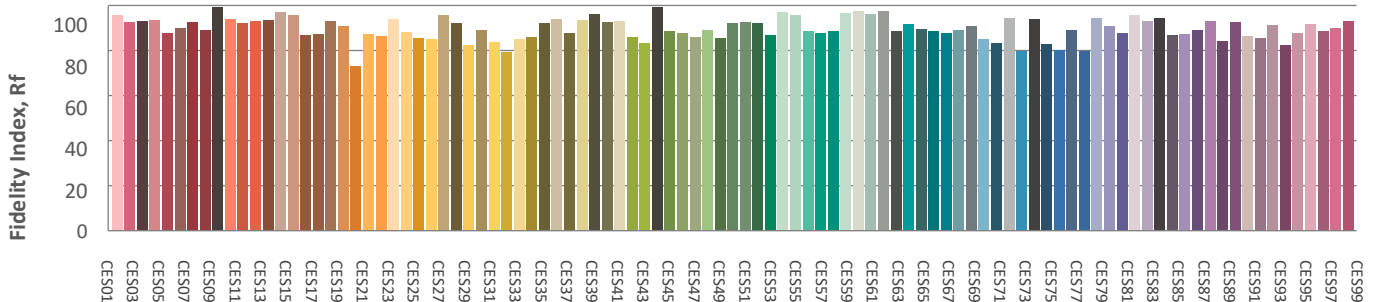
Hue bin



Color distortion graphics



Color Evaluation Sample



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Glare Evaluation According to UGR

p Ceiling	70	70	50	50	30	70	70	50	50	30	
p Walls	50	30	50	30	30	50	30	50	30	30	
p Floor	20	20	20	20	20	20	20	20	20	20	
Room size X Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	27,9	28,7	28,1	29,0	29,2	27,9	28,7	28,1	29,0	29,2
	3H	27,6	28,5	28,0	28,8	28,9	27,6	28,5	28,0	28,8	28,9
	4H	27,6	28,4	28,0	28,7	28,9	27,6	28,4	28,0	28,7	28,9
	6H	27,6	28,3	27,9	28,6	28,9	27,6	28,3	27,9	28,6	28,9
	8H	27,5	28,2	27,8	28,5	28,9	27,5	28,2	27,8	28,5	28,9
	12H	27,5	28,1	27,8	28,5	28,9	27,5	28,1	27,8	28,5	28,9
4H	2H	27,6	28,4	28,0	28,7	28,9	27,6	28,4	28,0	28,7	28,9
	3H	27,5	28,1	27,8	28,5	28,9	27,5	28,1	27,8	28,5	28,9
	4H	27,3	27,9	27,7	28,4	28,9	27,3	27,9	27,7	28,4	28,9
	6H	27,2	27,9	27,7	28,2	28,6	27,2	27,9	27,7	28,2	28,6
	8H	27,2	27,8	27,7	28,1	28,5	27,2	27,8	27,7	28,1	28,5
	12H	27,1	27,6	27,6	28,0	28,5	27,1	27,6	27,6	28,0	28,5
8H	4H	27,2	27,8	27,7	28,1	28,5	27,2	27,8	27,7	28,1	28,5
	6H	27,1	27,5	27,6	28,0	28,5	27,1	27,5	27,6	28,0	28,5
	8H	27,1	27,4	27,6	28,0	28,6	27,1	27,4	27,6	28,0	28,6
	12H	27,1	27,3	27,7	27,8	28,4	27,1	27,3	27,7	27,8	28,4
12H	4H	27,1	27,6	27,6	28,0	28,5	27,1	27,6	27,6	28,0	28,5
	6H	27,1	27,4	27,6	28,0	28,6	27,1	27,4	27,6	28,0	28,6
	8H	27,1	27,3	27,7	27,8	28,4	27,1	27,3	27,7	27,8	28,4
Variation of the observer position for the luminaire distance S											
S = 1.0H	3,2 / -11,3					3,2 / -11,3					
S = 1.5H	5,6 / -18,2					5,6 / -18,2					
S = 2.0H	7,5 / -18,7					7,5 / -18,7					
Standard table	n/a					n/a					
Correction summand	n/a					n/a					
Corrected glare indices referring to 2438lm total luminous flux											



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