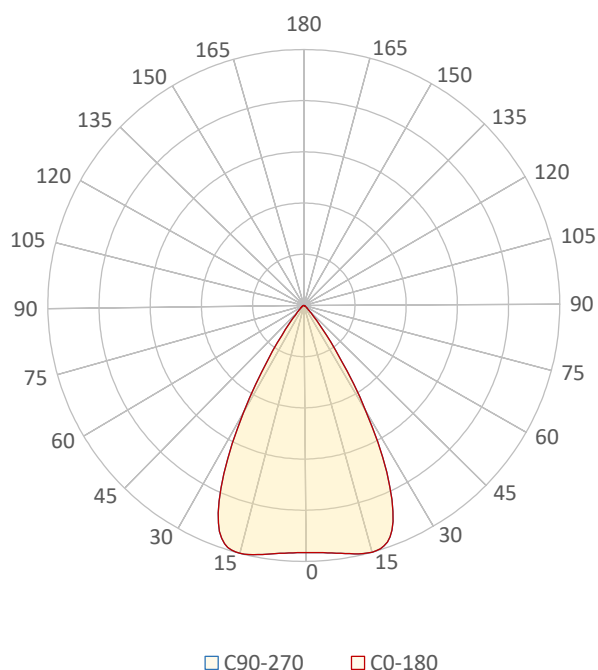


General Discription

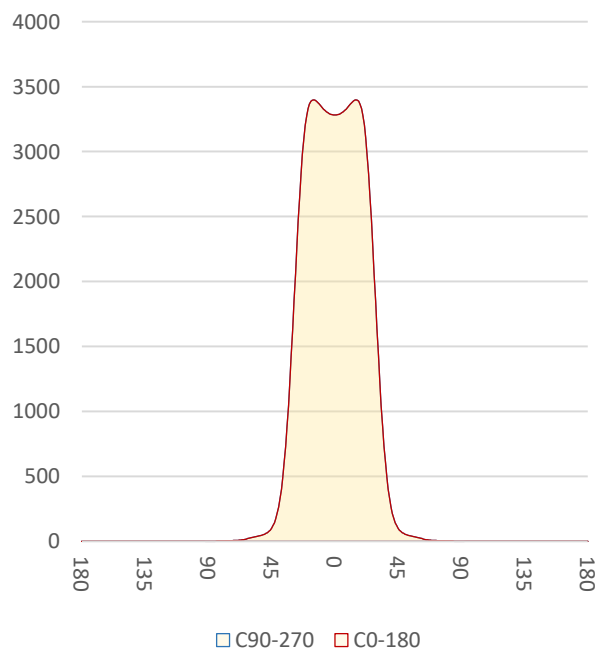
Item number	E-OM7-X-X-4090
Date and time	2-12-2022 14:26:30
CCT (Kelvin)	3880 K
Beam angle	59,4°
Luminous flux	3080 lm
Efficiency	88 lm/watt
Weighted energy	35,1 kWh/1000h
Power factor	0,98
CRI (RA)	92,7
Fidelity index Rf	Rf 90,4
Gammut index Rg	Rg 100,6
Peak	3399 cd



Polar diagram



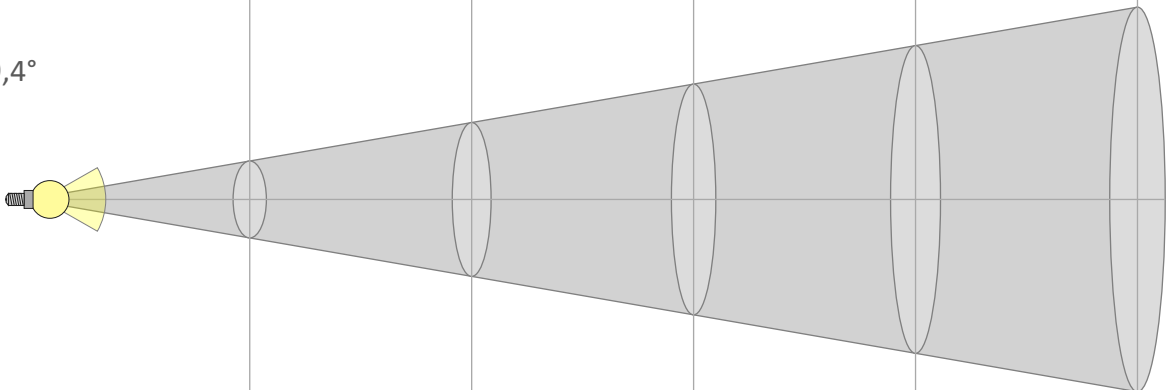
Cartesian diagram



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Test Report

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Beam details					1m		2m		3m		4m		5m											
Lux*					3282 lx		820 lx		365 lx		205 lx		131 lx											
59,4° 																								
*measured at center of beam																								
Footcandles*					304,9 fcd		76,2 fcd		33,9 fcd		19,1 fcd		12,2 fcd											
Beam width (meter)					1,1 m		2,3 m		3,4 m		4,6 m		5,7 m											
Beam width (Feet)					3,7 ft		7,5 ft		11,2 ft		15 ft		18,7 ft											
Beam intensities																								
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m					
3282lx	820lx	365lx	205lx	131lx	91lx	67lx	51lx	41lx	33lx	27lx	23lx	19lx	17lx	15lx	13lx	11lx	10lx	9lx	8lx					
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					
304,9fcd	76,2fcd	33,9fcd	19,1fcd	12,2fcd	8,5fcd	6,2fcd	4,8fcd	3,8fcd	3fcd	2,5fcd	2,1fcd	1,8fcd	1,6fcd	1,4fcd	1,2fcd	1,1fcd	0,9fcd	0,8fcd	0,8fcd					
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°					
3282	3284	3292	3307	3327	3352	3377	3394	3397	3366	3279	3104	2830	2472	2063	1635	1229	879	604	402					
100%	100%	100%	101%	101%	102%	103%	103%	104%	103%	100%	95%	86%	75%	63%	50%	37%	27%	18%	12%					
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°					
3282	3284	3292	3307	3327	3352	3377	3394	3397	3366	3279	3104	2830	2472	2063	1635	1229	879	604	402					
100%	100%	100%	101%	101%	102%	103%	103%	104%	103%	100%	95%	86%	75%	63%	50%	37%	27%	18%	12%					
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°					
3282	3284	3292	3307	3327	3352	3377	3394	3397	3366	3279	3104	2830	2472	2063	1635	1229	879	604	402					
100%	100%	100%	101%	101%	102%	103%	103%	104%	103%	100%	95%	86%	75%	63%	50%	37%	27%	18%	12%					
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°					
3282	3284	3292	3307	3327	3352	3377	3394	3397	3366	3279	3104	2830	2472	2063	1635	1229	879	604	402					
100%	100%	100%	101%	101%	102%	103%	103%	104%	103%	100%	95%	86%	75%	63%	50%	37%	27%	18%	12%					
Beam angle 50%					Field angle 10%					Cutoff angle 2,5%					Intensity ratio in 120° cone					Intensity ratio in 90° cone				
59,4°					77,6°					92,2°					99,3%					97,3%				



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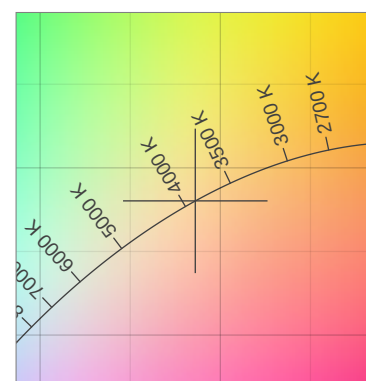
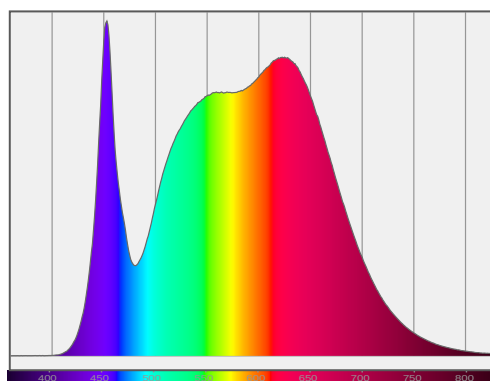
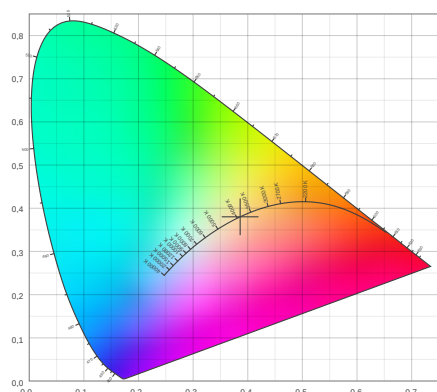
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Color details



CIE 1931

x: 0,386

3880 K

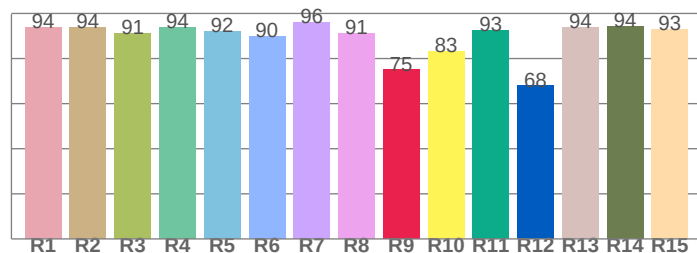
y: 0,380

Spectra

CIE 1931 ZOOM

 $\Delta uv: 0,0001$

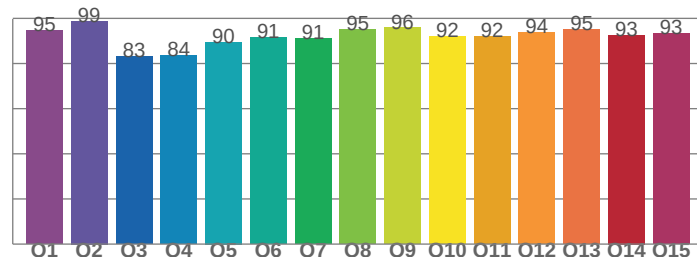
CRI: 92,7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8
93,9	93,9	91,2	93,7	92,1	89,8	96,1	91,2
R9	R10	R11	R12	R13	R14	R15	
75,0	83,3	92,6	67,9	93,8	94,5	93,0	

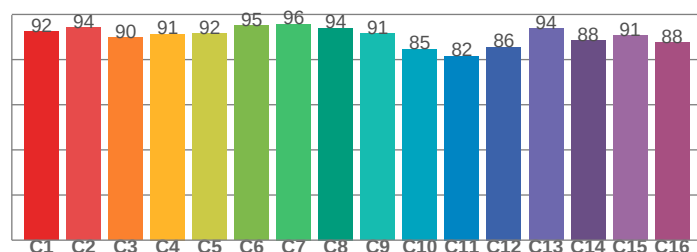
CQS: 91,1



CQS values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
94,6	98,9	83,0	83,5	89,5	91,5	91,0	95,0
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
95,8	92,0	92,1	93,8	95,2	92,6	93,3	

TM30: 90,4



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

C1	C2	C3	C4	C5	C6	C7	C8
92,5	94,3	89,7	91,3	91,5	95,0	95,7	94,0
C9	C10	C11	C12	C13	C14	C15	
91,5	84,8	81,6	85,5	93,7	88,5	90,5	

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
3880 K	92,7	75,0	90,4	100,6	91,1	0,386	0,380	0,227	0,336	0,0001



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Test Report

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TM30 details

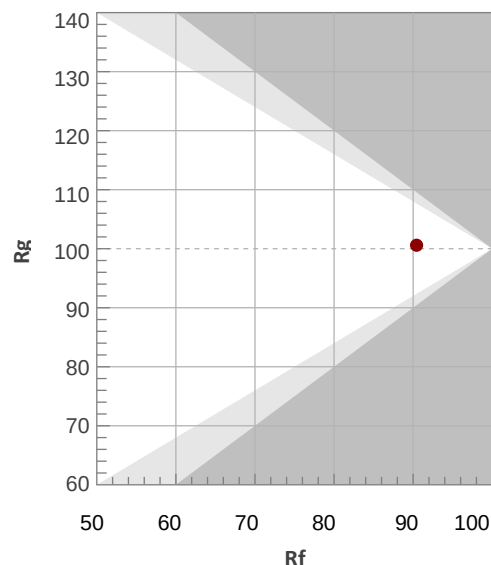
Rf 90,4

Fidelity index R_f

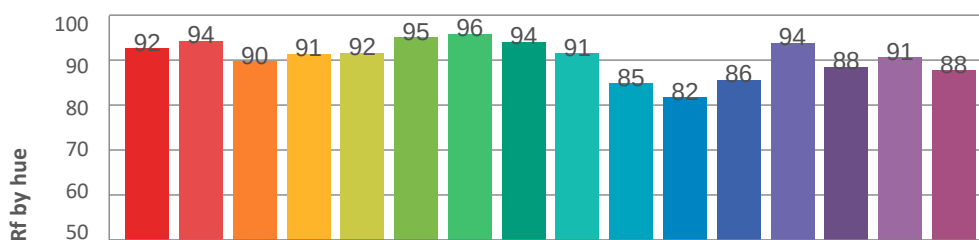
Rg 100,6

Gammut index Rg

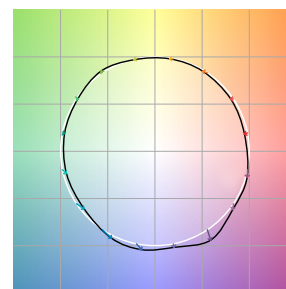
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	92	-3%	-1%
2	94	-2%	2%
3	90	-1%	5%
4	91	-1%	4%
5	92	-1%	3%
6	95	2%	0%
7	96	-1%	-1%
8	94	-2%	0%
9	91	-3%	5%
10	85	-4%	9%
11	82	2%	13%
12	86	5%	7%
13	94	4%	0%
14	88	11%	-3%
15	91	3%	-5%
16	88	1%	-8%



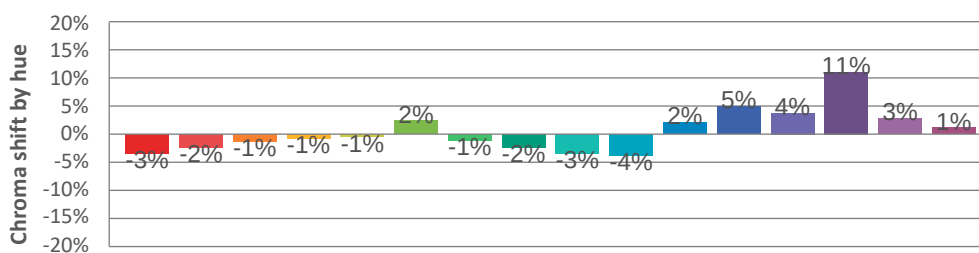
Hue binH



Color vector graphics



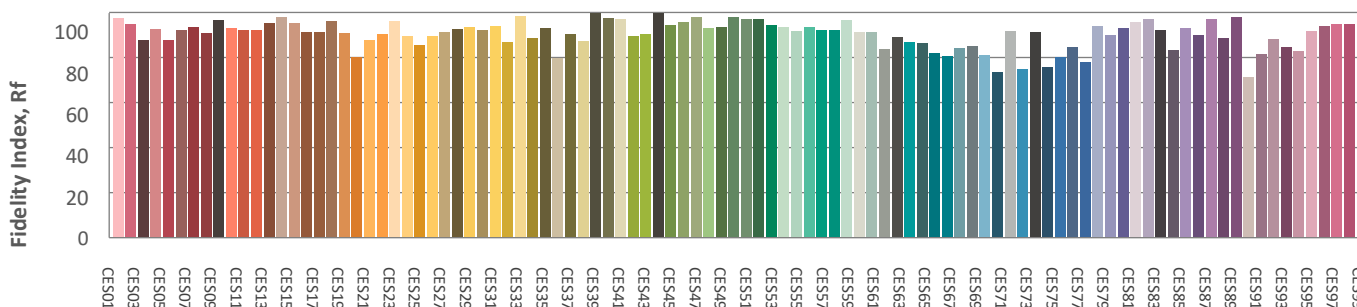
Hue bin



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	24,1	24,7	24,2	24,9	25,1	24,1	24,7	24,2	24,9	25,1
	3H	23,8	24,5	24,1	24,7	24,9	23,8	24,5	24,1	24,7	24,9
	4H	23,7	24,4	24,1	24,7	24,9	23,7	24,4	24,1	24,7	24,9
	6H	23,7	24,3	24,0	24,6	24,9	23,7	24,3	24,0	24,6	24,9
	8H	23,6	24,2	24,0	24,5	24,9	23,6	24,2	24,0	24,5	24,9
	12H	23,6	24,1	23,9	24,5	24,9	23,6	24,1	23,9	24,5	24,9
4H	2H	23,7	24,4	24,1	24,7	24,9	23,7	24,4	24,1	24,7	24,9
	3H	23,6	24,2	24,0	24,5	24,9	23,6	24,2	24,0	24,5	24,9
	4H	23,5	24,0	23,9	24,4	24,9	23,5	24,0	23,9	24,4	24,9
	6H	23,4	23,9	23,9	24,3	24,6	23,4	23,9	23,9	24,3	24,6
	8H	23,3	23,8	23,8	24,2	24,5	23,3	23,8	23,8	24,2	24,5
	12H	23,3	23,7	23,8	24,1	24,5	23,3	23,7	23,8	24,1	24,5
8H	4H	23,3	23,8	23,8	24,2	24,5	23,3	23,8	23,8	24,2	24,5
	6H	23,3	23,6	23,8	24,1	24,6	23,3	23,6	23,8	24,1	24,6
	8H	23,3	23,5	23,8	24,0	24,7	23,3	23,5	23,8	24,0	24,7
	12H	23,2	23,4	23,8	23,9	24,5	23,2	23,4	23,8	23,9	24,5
12H	4H	23,3	23,7	23,8	24,1	24,5	23,3	23,7	23,8	24,1	24,5
	6H	23,3	23,5	23,8	24,0	24,7	23,3	23,5	23,8	24,0	24,7
	8H	23,2	23,4	23,8	23,9	24,5	23,2	23,4	23,8	23,9	24,5
Variation of the observer position for the luminaire distance S											
S = 1.0H		6,1 / -11,1					6,1 / -11,1				
S = 1.5H		8,8 / -13,7					8,8 / -13,7				
S = 2.0H		10,8 / -16,4					10,8 / -16,4				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 3080lm total luminous flux											



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