

General Discription

Item number	E-OL7-X-X-4090
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Date and time	2-12-2022 14:09:30
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CCT (Kelvin)	3863 K
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Beam angle	59,4°
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Luminous flux	3100 lm
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Efficiency	88 lm/watt
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Weighted energy	35,2 kWh/1000h
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Power factor	0,98
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CRI (RA)	92,7
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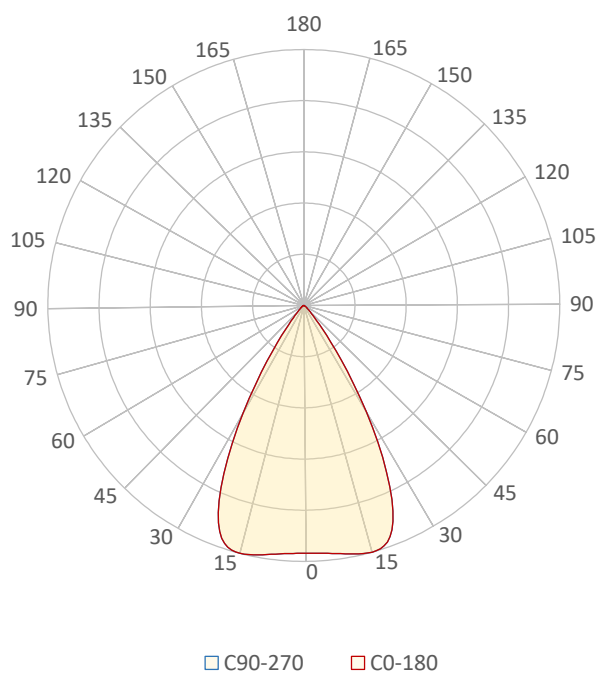
Fidelity index Rf	Rf 90,5
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Gammut index Rg	Rg 100,7
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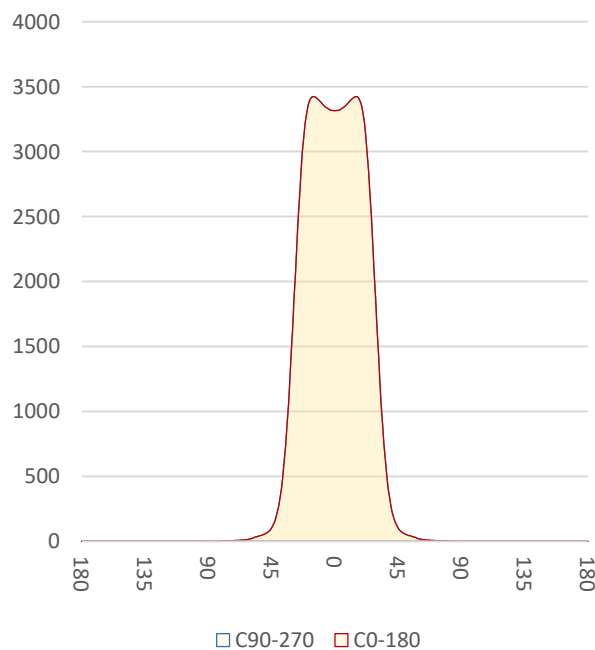
Peak	3424 cd
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Polar diagram



Cartesian diagram

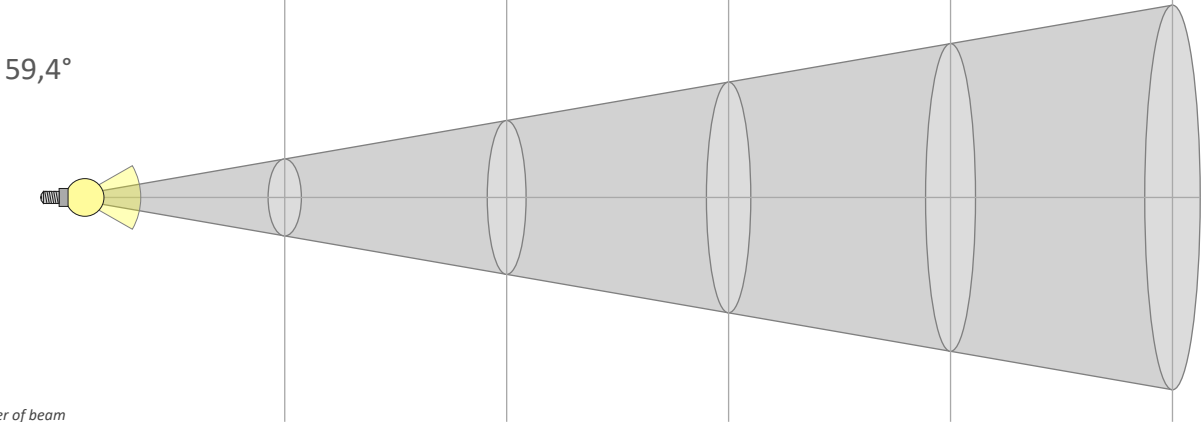


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Beam details	1m	2m	3m	4m	5m
Lux*	3315 lx	829 lx	368 lx	207 lx	133 lx



*measured at center of beam

Footcandles*	308,0 fcd	77,0 fcd	34,2 fcd	19,2 fcd	12,3 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
3315lx	829lx	368lx	207lx	133lx	92lx	68lx	52lx	41lx	33lx	27lx	23lx	20lx	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
308fcd	77fcd	34,2fcd	19,2fcd	12,3fcd	8,6fcd	6,3fcd	4,8fcd	3,8fcd	3,1fcd	2,5fcd	2,1fcd	1,8fcd	1,6fcd	1,4fcd	1,2fcd	1,1fcd	1fcd	0,9fcd	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°
3315	3317	3325	3338	3358	3381	3404	3421	3422	3391	3302	3124	2848	2489	2080	1651	1242	889	611	407
100%	100%	100%	101%	101%	102%	103%	103%	103%	102%	100%	94%	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°
3315	3317	3325	3338	3358	3381	3404	3421	3422	3391	3302	3124	2848	2489	2080	1651	1242	889	611	407
100%	100%	100%	101%	101%	102%	103%	103%	103%	102%	100%	94%	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°
3315	3317	3325	3338	3358	3381	3404	3421	3422	3391	3302	3124	2848	2489	2080	1651	1242	889	611	407
100%	100%	100%	101%	101%	102%	103%	103%	103%	102%	100%	94%	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°
3315	3317	3325	3338	3358	3381	3404	3421	3422	3391	3302	3124	2848	2489	2080	1651	1242	889	611	407
100%	100%	100%	101%	101%	102%	103%	103%	103%	102%	100%	94%	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°	77,7°	92,4°	99,5%	97,5%



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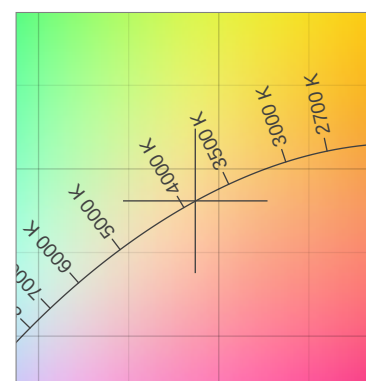
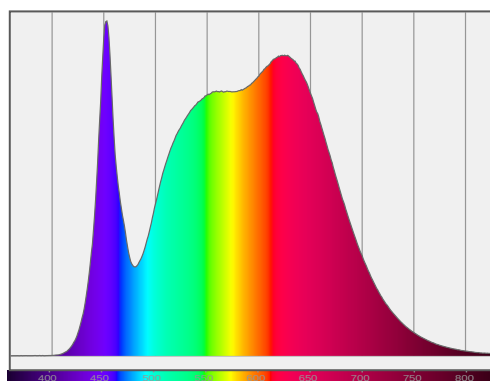
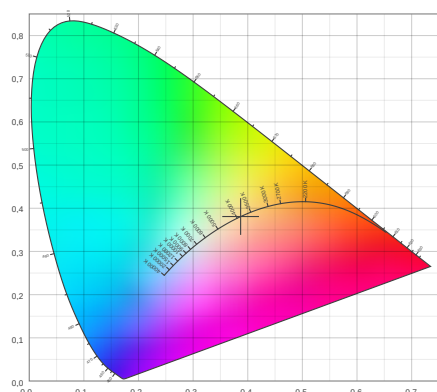
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Test Report

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Color details



CIE 1931

x: 0,387

3863 K

y: 0,381

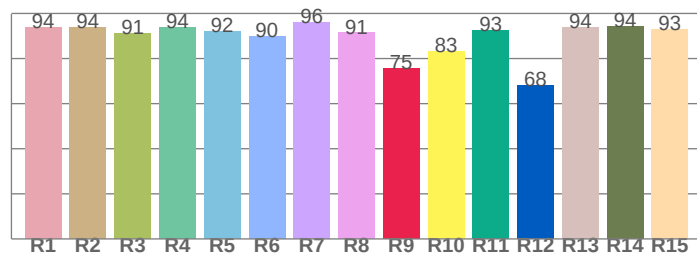
Spectra

CIE 1931 ZOOM

 $\Delta uv: 0,0001$

CRI: 92,7 (R1-R8)

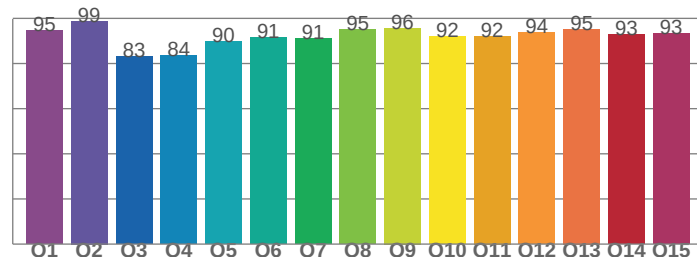
CRI values, R1-R8 are used to calculate final CRI value



R1	R2	R3	R4	R5	R6	R7	R8
94,0	93,8	91,1	93,8	92,2	89,7	96,1	91,4
R9	R10	R11	R12	R13	R14	R15	
75,5	83,2	92,6	67,9	93,8	94,4	93,0	

CQS: 91,2

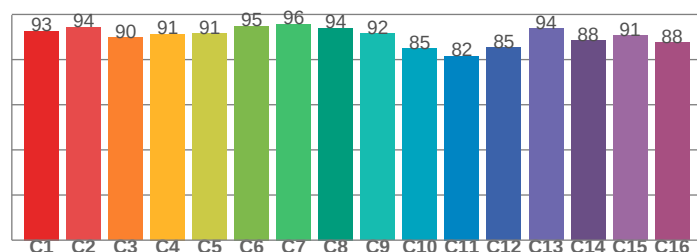
CQS values



Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
94,8	98,8	83,0	83,7	89,7	91,5	90,9	95,1
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
95,8	92,0	92,2	93,9	95,3	92,8	93,5	

TM30: 90,5

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



C1	C2	C3	C4	C5	C6	C7	C8
92,6	94,4	89,7	91,3	91,5	94,9	95,8	94,0
C9	C10	C11	C12	C13	C14	C15	
91,6	84,9	81,7	85,4	93,7	88,4	90,6	

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
3863 K	92,7	75,5	90,5	100,7	91,2	0,387	0,381	0,228	0,336	0,0001



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TM30 details

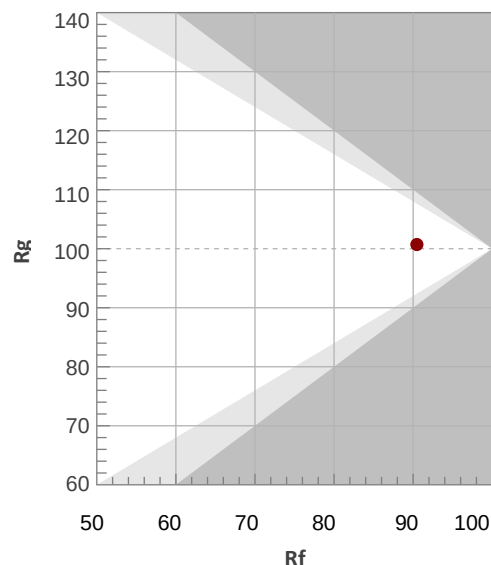
Rf 90,5

Fidelity index Rf

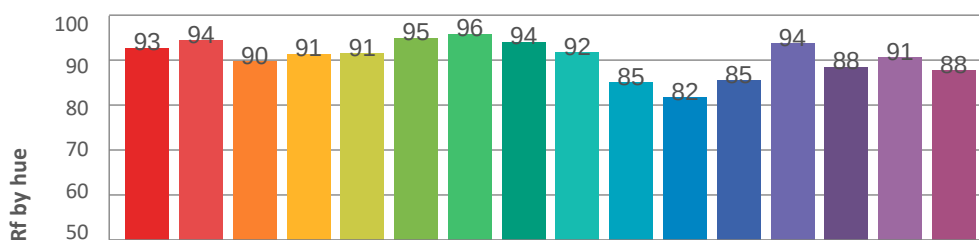
Rg 100,7

Gamut index Rg

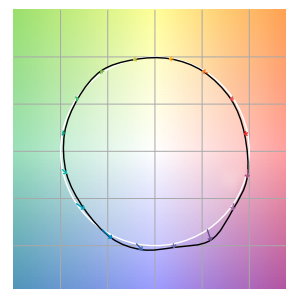
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-2%	1%
3	90	-1%	5%
4	91	-1%	4%
5	91	0%	3%
6	95	3%	0%
7	96	-1%	-1%
8	94	-2%	0%
9	92	-3%	5%
10	85	-4%	9%
11	82	2%	13%
12	85	5%	7%
13	94	4%	0%
14	88	11%	-3%
15	91	3%	-5%
16	88	1%	-8%



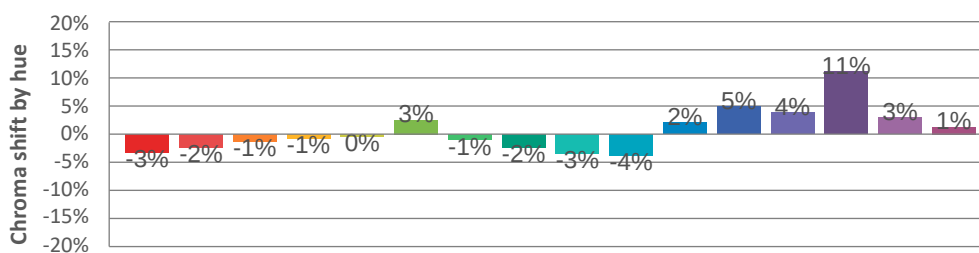
Hue binH



Color vector graphics



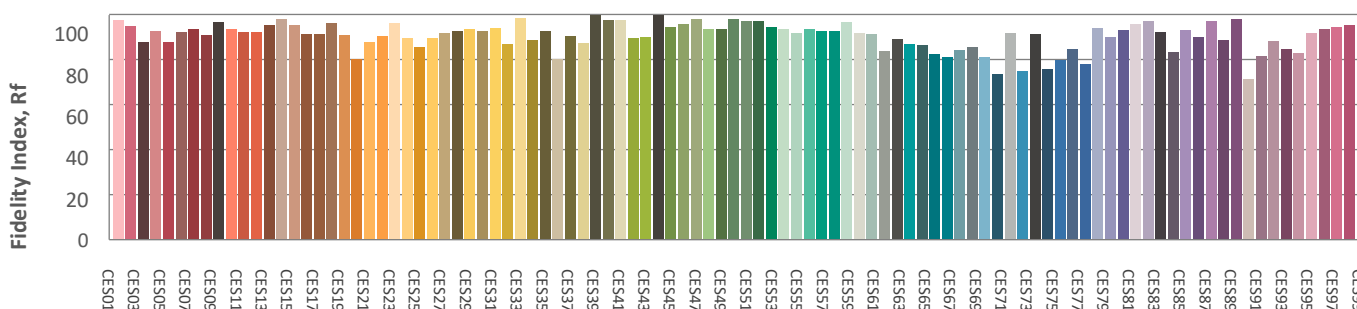
Hue bin



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	23,1	23,7	23,2	24,0	24,1	23,1	23,7	23,2	24,0	24,1
	3H	22,8	23,6	23,2	23,8	23,9	22,8	23,6	23,2	23,8	23,9
	4H	22,7	23,5	23,1	23,7	23,9	22,7	23,5	23,1	23,7	23,9
	6H	22,7	23,3	23,0	23,6	24,0	22,7	23,3	23,0	23,6	24,0
	8H	22,7	23,3	23,0	23,6	24,0	22,7	23,3	23,0	23,6	24,0
	12H	22,6	23,2	23,0	23,5	24,0	22,6	23,2	23,0	23,5	24,0
4H	2H	22,7	23,5	23,1	23,7	23,9	22,7	23,5	23,1	23,7	23,9
	3H	22,6	23,2	23,0	23,6	24,0	22,6	23,2	23,0	23,6	24,0
	4H	22,5	23,0	22,9	23,4	24,0	22,5	23,0	22,9	23,4	24,0
	6H	22,4	23,0	22,9	23,3	23,7	22,4	23,0	22,9	23,3	23,7
	8H	22,4	22,9	22,9	23,2	23,6	22,4	22,9	22,9	23,2	23,6
	12H	22,3	22,7	22,8	23,1	23,6	22,3	22,7	22,8	23,1	23,6
8H	4H	22,4	22,9	22,9	23,2	23,6	22,4	22,9	22,9	23,2	23,6
	6H	22,3	22,6	22,8	23,1	23,6	22,3	22,6	22,8	23,1	23,6
	8H	22,3	22,6	22,8	23,1	23,7	22,3	22,6	22,8	23,1	23,7
	12H	22,2	22,5	22,8	23,0	23,6	22,2	22,5	22,8	23,0	23,6
12H	4H	22,3	22,7	22,8	23,1	23,6	22,3	22,7	22,8	23,1	23,6
	6H	22,3	22,6	22,8	23,1	23,7	22,3	22,6	22,8	23,1	23,7
	8H	22,2	22,5	22,8	23,0	23,6	22,2	22,5	22,8	23,0	23,6
Variation of the observer position for the luminaire distance S											
S = 1.0H		6,1 / -11,8					6,1 / -11,8				
S = 1.5H		8,8 / -15,8					8,8 / -15,8				
S = 2.0H		10,8 / -17,5					10,8 / -17,5				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 3100lm total luminous flux											



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