

LM-79

Test Report

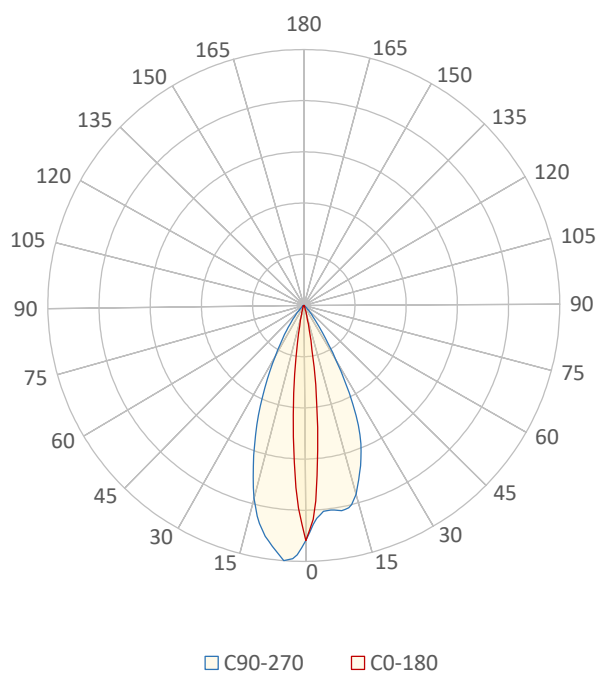
LM79-REVO-COMPACT-2200K-CRI80-DEG12x46

General Discription

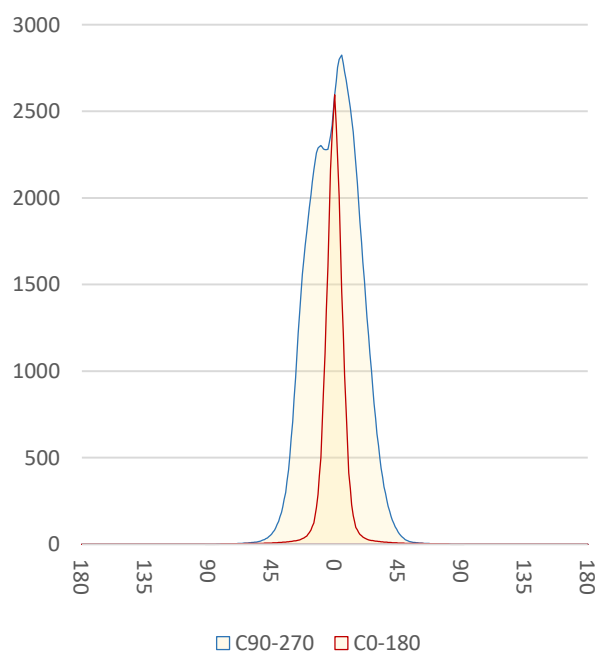
Item number	RC-X-X-08-2
Date and time	29-10-2021 12:53:48
CCT (Kelvin)	2190 K
Beam angle	46,4 x 11,9°
Luminous flux	929 lm
Efficiency	93 lm/watt
Weighted energy	10,0 kWh/1000h
Power factor	0,95
CRI (RA)	85,7
Fidelity index Rf	Rf 87,9
Gammut index Rg	Rg 96,9
Peak	2828 cd



Polar diagram



Cartesian diagram



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info@cls-led.com
www.cls-led.com

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Beam details	1m	2m	3m	4m	5m
Lux*	2595 lx	649 lx	288 lx	162 lx	104 lx

*measured at center of beam

Footcandles*	241,1 fcd	60,3 fcd	26,8 fcd	15,1 fcd	9,6 fcd
Beam width (meter)	0,5 m	1 m	1,6 m	2,1 m	2,6 m
Beam width 90° (meter)	0,9 m	1,7 m	2,6 m	3,4 m	4,3 m
Beam width (Feet)	1,7 ft	3,4 ft	5,1 ft	6,8 ft	8,5 ft

Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
2595lx	649lx	288lx	162lx	104lx	72lx	53lx	41lx	32lx	26lx	21lx	18lx	15lx	13lx	12lx	10lx	9lx	8lx	7lx	6lx
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
241,1fcd	60,3fcd	26,8fcd	15,1fcd	9,6fcd	6,7fcd	4,9fcd	3,8fcd	3fcd	2,4fcd	2fcd	1,7fcd	1,4fcd	1,2fcd	1,1fcd	0,9fcd	0,8fcd	0,7fcd	0,7fcd	0,6fcd

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°
2595	2364	1885	1353	882	501	287	167	103	69	48	37	29	24	21	18	16	14	13	11
100%	91%	73%	52%	34%	19%	11%	6%	4%	3%	2%	1%	1%	1%	1%	1%	1%	1%	0%	0%

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°
2595	2419	2317	2278	2282	2303	2289	2212	2090	1946	1808	1650	1453	1220	963	709	512	364	259	185
100%	93%	89%	88%	88%	89%	88%	85%	81%	75%	70%	64%	56%	47%	37%	27%	20%	14%	10%	7%

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°
2595	2241	1734	1216	766	411	228	132	83	58	42	32	26	22	20	18	16	14	13	11
100%	86%	67%	47%	29%	16%	9%	5%	3%	2%	2%	1%	1%	1%	1%	1%	1%	1%	0%	0%

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°
2595	2757	2815	2776	2679	2581	2459	2289	2084	1858	1630	1413	1205	1004	813	640	498	385	293	220
100%	106%	108%	107%	103%	99%	95%	88%	80%	72%	63%	54%	46%	39%	31%	25%	19%	15%	11%	8%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
29,1°	47,8°	62,3°	99,2%	97,1%



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 info@cls-led.com
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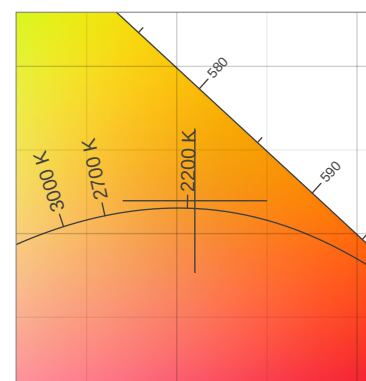
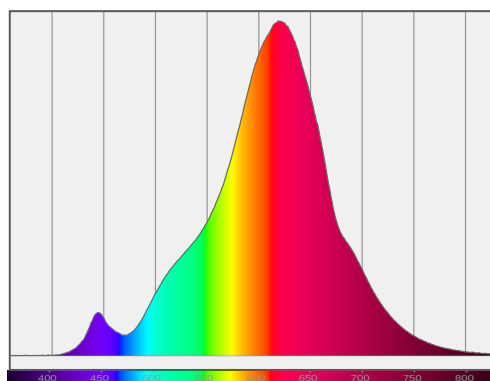
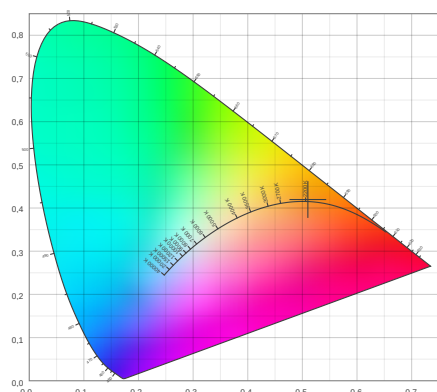
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Color details



CIE 1931

x: 0,510

2190 K

y: 0,420

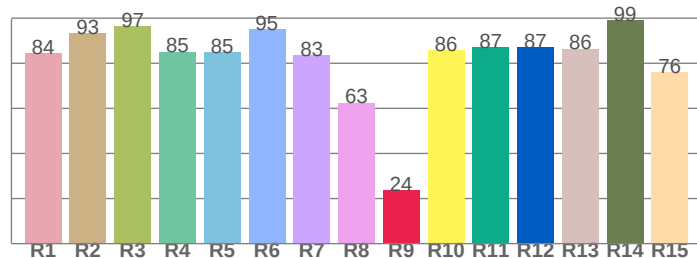


Spectra

CIE 1931 ZOOM

Δuv : 0,0014

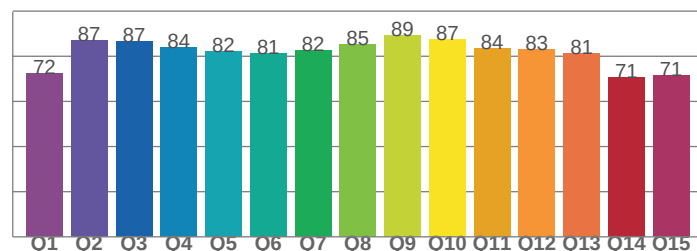
CRI: 85,7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8
84,4	93,3	96,6	85,1	84,9	95,2	83,4	62,5
R9	R10	R11	R12	R13	R14	R15	
23,7	85,9	87,3	87,1	86,4	99,1	75,9	

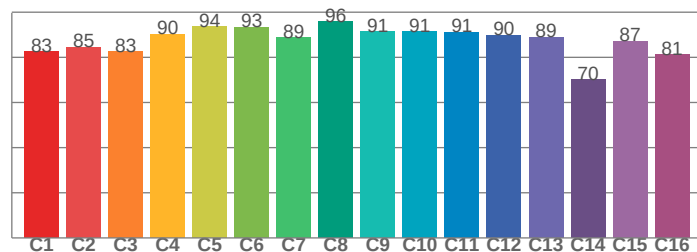
CQS: 80,4



CQS values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
72,5	86,9	86,8	83,9	82,1	81,2	82,4	85,2
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
89,1	87,5	83,6	82,9	81,5	70,5	71,4	

TM30: 87,9



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

C1	C2	C3	C4	C5	C6	C7	C8
82,7	84,6	82,5	90,3	93,7	93,4	88,9	95,9
C9	C10	C11	C12	C13	C14	C15	
91,4	91,4	91,2	89,9	88,9	70,2	87,1	

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



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2190 K 85,7 23,7 87,9 96,9 80,4 0,510 0,420 0,291 0,359 0,0014

TM30 details

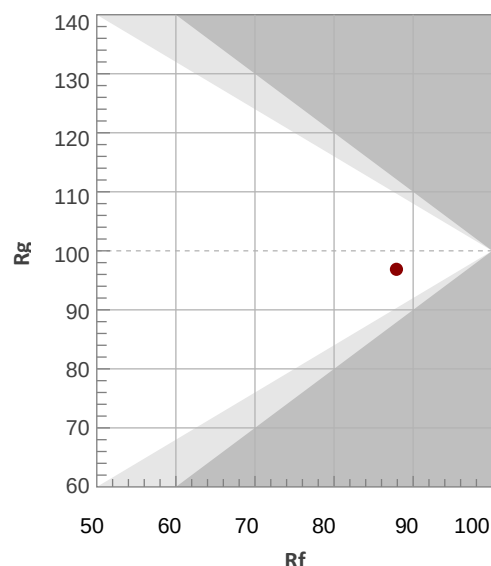
Rf 87,9

Fidelity index Rf

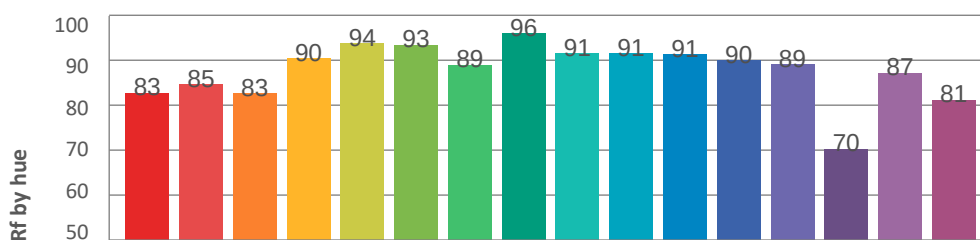
Rg 96,9

Gamut index Rg

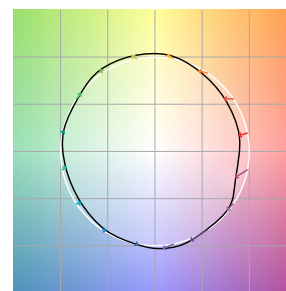
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	83	-9%	-1%
2	85	-8%	5%
3	83	-3%	8%
4	90	3%	6%
5	94	4%	4%
6	93	4%	0%
7	89	-1%	-7%
8	96	-1%	-2%
9	91	-4%	-2%
10	91	-5%	1%
11	91	-2%	3%
12	90	0%	1%
13	89	3%	-11%
14	70	0%	-21%
15	87	-2%	-9%
16	81	-11%	-10%



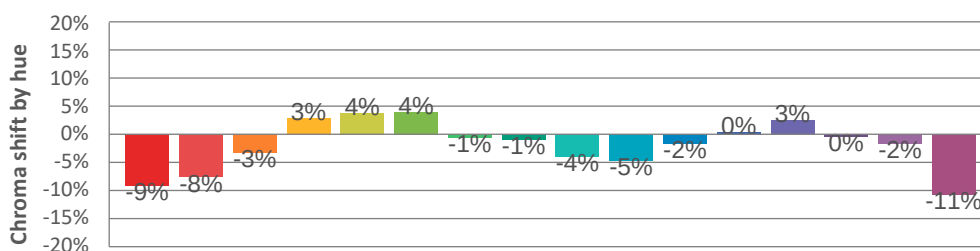
Hue binH



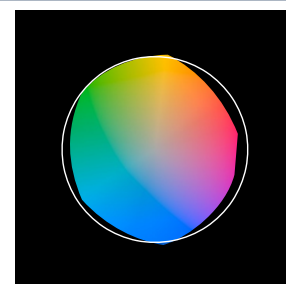
Color vector graphics



Hue bin



Color distortion graphics



Color Evaluation Sample

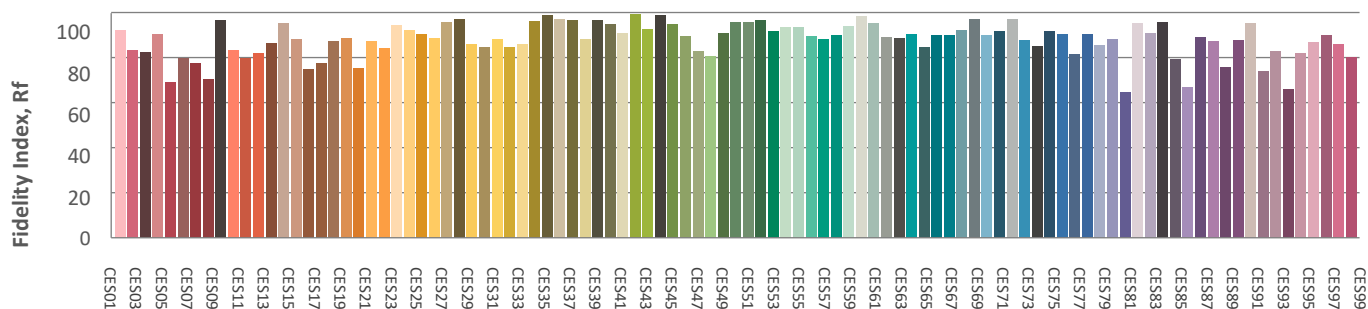


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Glare Evaluation According to UGR

[illegible]

Variation of the observer position for the luminaire distance S



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n/a	n/a	n/a
n/a	n/a	n/a
n/a	n/a	n/a
Standard table	n/a	n/a
Correction summand	n/a	n/a
Corrected glare indices referring to 929lm total luminous flux		



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