

LM-79

Test Report

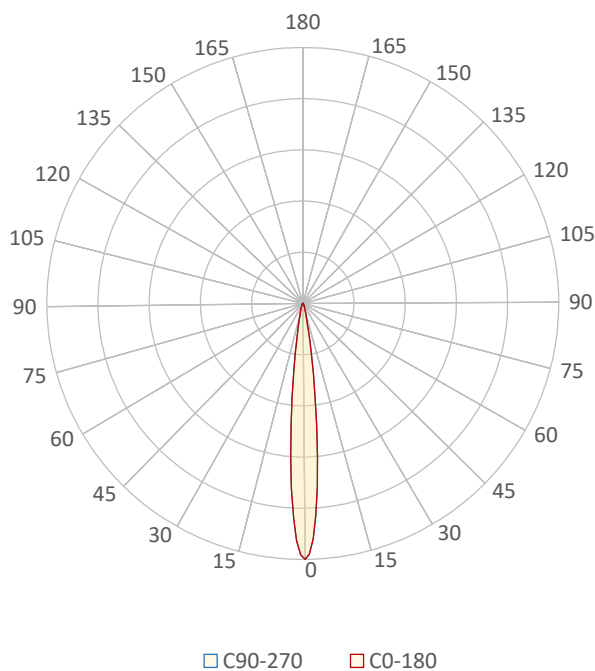
LM79-MARTINA-RGBW-SPOT

General Discription

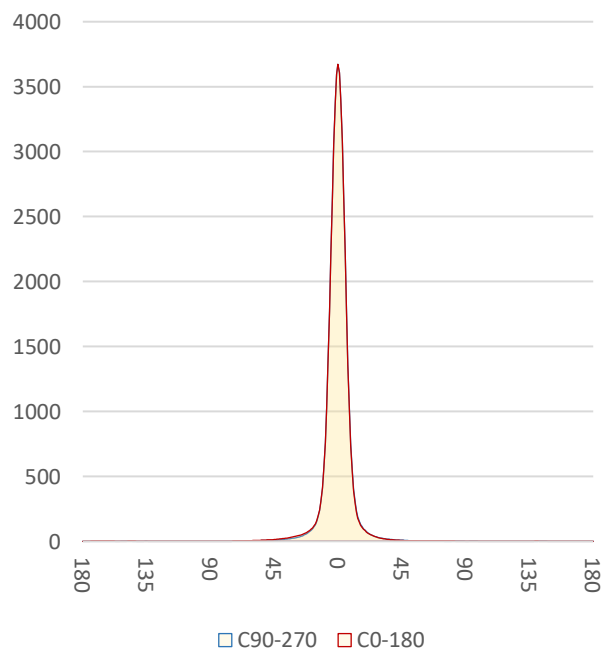
Item number	
Date and time	3-11-2017 13:35:50
CCT (Kelvin)	0 K
Beam angle	11,7°
Luminous flux	256 lm
Efficiency	23 lm/watt
Weighted energy	11,1 kWh/1000h
Power factor	0,59
CRI (RA)	0,0
Fidelity index Rf	Rf 0,0
Gammut index Rg	Rg 0,0
Peak	3677 cd



Polar diagram



Cartesian diagram



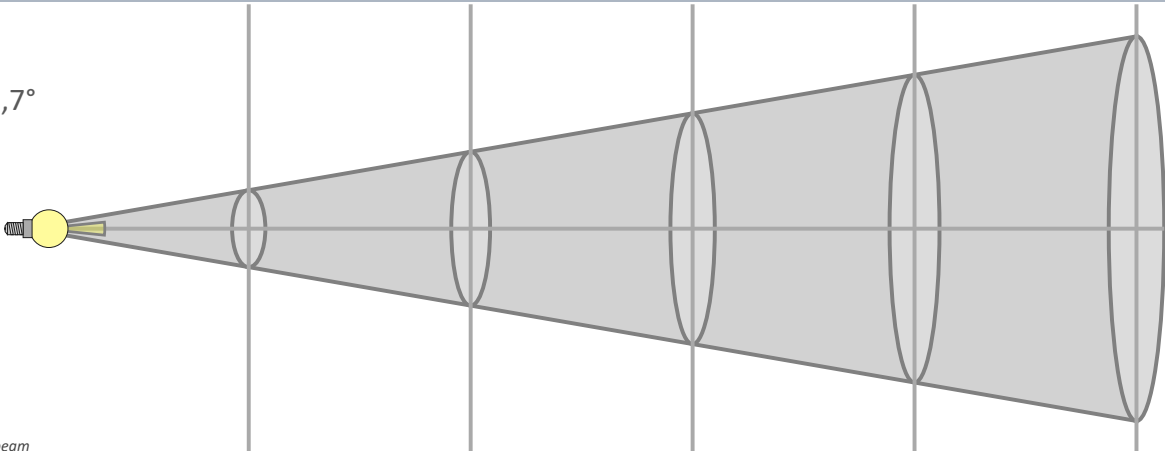
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Beam details		1m		2m		3m		4m		5m									
Lux*		3672 lx		918 lx		408 lx		230 lx		147 lx									
11,7° 																			
*measured at center of beam																			
Footcandles*		341,2 fcd		85,3 fcd		37,9 fcd		21,3 fcd		13,6 fcd									
Beam width (meter)		0,2 m		0,4 m		0,6 m		0,8 m		1 m									
Beam width (Feet)		0,7 ft		1,3 ft		2 ft		2,7 ft		3,4 ft									
Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3672lx	918lx	408lx	230lx	147lx	102lx	75lx	57lx	45lx	37lx	30lx	26lx	22lx	19lx	16lx	14lx	13lx	11lx	10lx	9lx
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
341,2fcd	85,3fcd	37,9fcd	21,3fcd	13,6fcd	9,5fcd	7fcd	5,3fcd	4,2fcd	3,4fcd	2,8fcd	2,4fcd	2fcd	1,7fcd	1,5fcd	1,3fcd	1,2fcd	1,1fcd	0,9fcd	0,9fcd
Intensities in 0° c-plane																			
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
3672	3596	3382	3055	2647	2201	1766	1367	1026	759	556	414	311	241	195	160	136	117	104	93
100%	98%	92%	83%	72%	60%	48%	37%	28%	21%	15%	11%	8%	7%	5%	4%	4%	3%	3%	3%
Intensities in 90° c-plane																			
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
3672	3595	3380	3053	2651	2210	1770	1369	1028	758	554	405	304	235	187	153	128	110	96	84
100%	98%	92%	83%	72%	60%	48%	37%	28%	21%	15%	11%	8%	6%	5%	4%	3%	3%	3%	2%
Intensities in 180° c-plane																			
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
3672	3607	3403	3081	2671	2214	1765	1358	1010	736	532	388	290	223	177	147	124	107	93	82
100%	98%	93%	84%	73%	60%	48%	37%	28%	20%	14%	11%	8%	6%	5%	4%	3%	3%	3%	2%
Intensities in 270° c-plane																			
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
3672	3608	3401	3075	2665	2215	1768	1363	1022	753	549	403	305	236	188	155	130	112	97	85
100%	98%	93%	84%	73%	60%	48%	37%	28%	20%	15%	11%	8%	6%	5%	4%	4%	3%	3%	2%
Beam angle 50%				Field angle 10%				Cutoff angle 2,5%				Intensity ratio in 120° cone				Intensity ratio in 90° cone			
11,7°				22,6°				37°				96,9%				93,8%			



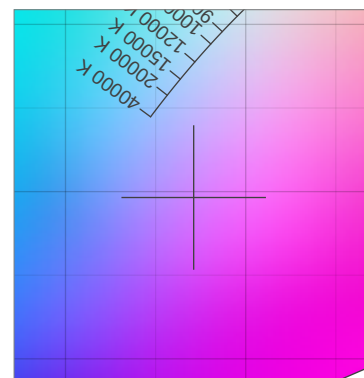
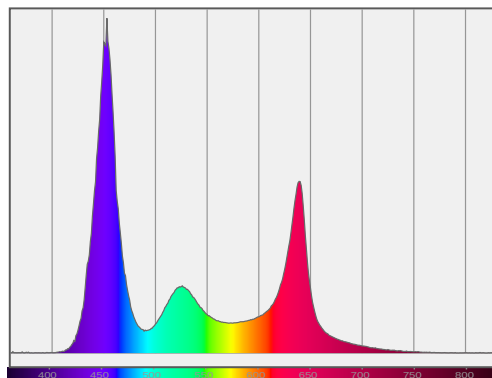
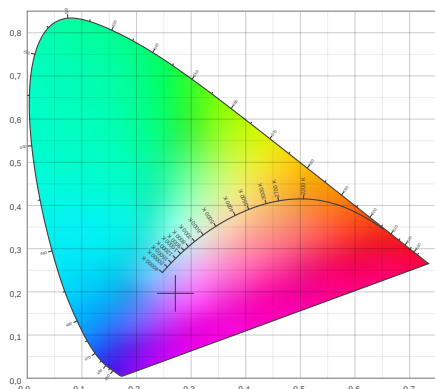
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Test Report

LM79-MARTINA-RGBW-SPOT

Color details



<i>CIE 1931</i>	x: 0,271		Spectra	<i>CIE 1931 ZOOM</i>
0 K	y: 0,196			Δuv : n/a

CRI: 0,0 (R1-R8)																CRI values, R1-R8 are used to calculate final CRI value							
																R1	R2	R3	R4	R5	R6	R7	R8
																0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
																R9	R10	R11	R12	R13	R14	R15	
																0,0	0,0	0,0	0,0	0,0	0,0	0,0	
																R1	R2	R3	R4	R5	R6	R7	R8

CQS: 0,0																CQS values							
																Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
																0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
																Q9	Q10	Q11	Q12	Q13	Q14	Q15	
																0,0	0,0	0,0	0,0	0,0	0,0	0,0	
																Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8

TM30: 0,0	TM30 values, 16 binned values out of total of 99 values							
	C1	C2	C3	C4	C5	C6	C7	C8
	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	C9	C10	C11	C12	C13	C14	C15	
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16	0,0	0,0	0,0	0,0	0,0	0,0	0,0	

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
0 K	0,0	0,0	0,0	0,0	0,0	0,271	0,196	0,225	0,245	n/a



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TM30 details

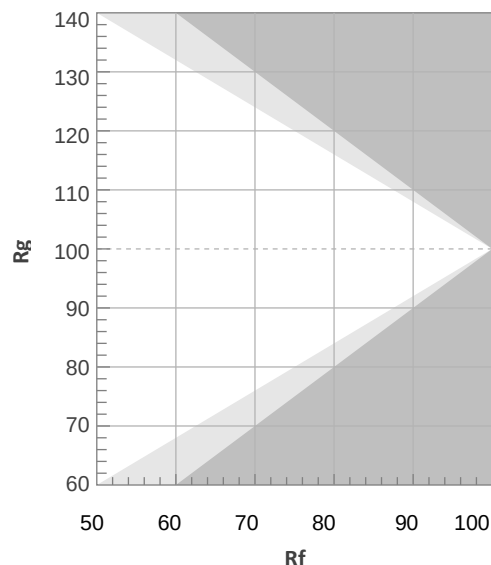
Rf 0,0

Fidelity index Rf

Rg 0,0

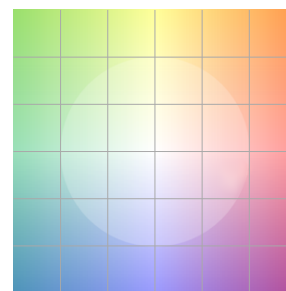
Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



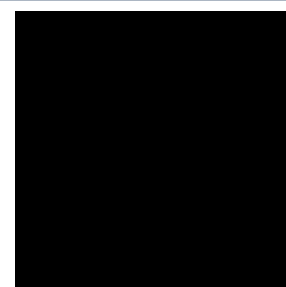
Hue binH

Color vector graphics

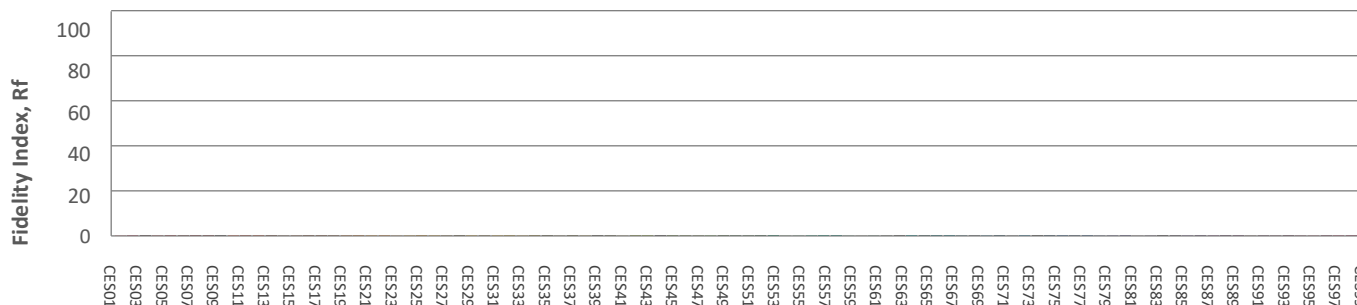


Hue bin

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	15,1	15,8	15,4	16,0	16,2	12,8	13,5	13,1	13,7	13,9
	3H	15,5	16,1	15,8	16,4	16,6	13,1	13,8	13,4	14,0	14,3
	4H	15,5	16,1	15,8	16,4	16,7	13,2	13,8	13,6	14,1	14,4
	6H	15,5	16,0	15,8	16,3	16,6	13,2	13,8	13,6	14,1	14,4
	8H	15,5	16,0	15,8	16,3	16,6	13,3	13,8	13,6	14,1	14,4
	12H	15,4	15,9	15,8	16,3	16,6	13,3	13,8	13,7	14,1	14,5
4H	2H	15,2	15,8	15,6	16,1	16,4	13,1	13,7	13,4	13,9	14,2
	3H	15,7	16,2	16,1	16,5	16,9	13,5	14,0	13,9	14,3	14,7
	4H	15,8	16,2	16,2	16,5	16,9	13,7	14,1	14,1	14,5	14,8
	6H	15,7	16,1	16,2	16,5	16,9	13,7	14,1	14,1	14,5	14,9
	8H	15,7	16,1	16,2	16,5	16,9	13,8	14,1	14,2	14,5	14,9
	12H	15,7	16,0	16,2	16,4	16,9	13,9	14,2	14,3	14,6	15,0
8H	4H	15,7	16,0	16,1	16,4	16,9	13,7	14,0	14,1	14,4	14,9
	6H	15,7	16,0	16,2	16,4	16,9	13,8	14,1	14,3	14,5	15,0
	8H	15,7	15,9	16,2	16,4	16,9	14,0	14,2	14,4	14,6	15,1
	12H	15,8	16,0	16,3	16,4	17,0	14,1	14,3	14,6	14,8	15,3
12H	4H	15,7	15,9	16,1	16,4	16,8	13,7	14,0	14,1	14,4	14,8
	6H	15,7	15,9	16,2	16,4	16,9	13,8	14,0	14,3	14,5	15,0
	8H	15,8	15,9	16,3	16,4	16,9	14,0	14,2	14,5	14,7	15,2
Variation of the observer position for the luminaire distance S											
S = 1,0H		+0,9 / -1,0					+0,8 / -0,9				
S = 1,5H		+2,1 / -1,5					+1,8 / -2,1				
S = 2,0H		+3,5 / -3,4					+3,1 / -3,5				
Standard table		BK01					BK02				
Correction summand		-2,3					-3,9				
Corrected glare indices referring to 256lm total luminous flux											

