

LM-79

Test Report

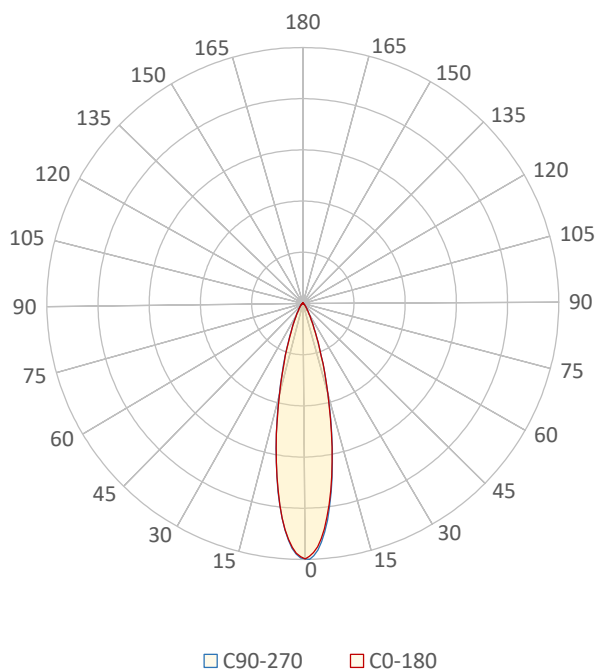
LM79-MARTINA-RGBW-MEDIUM

General Discription

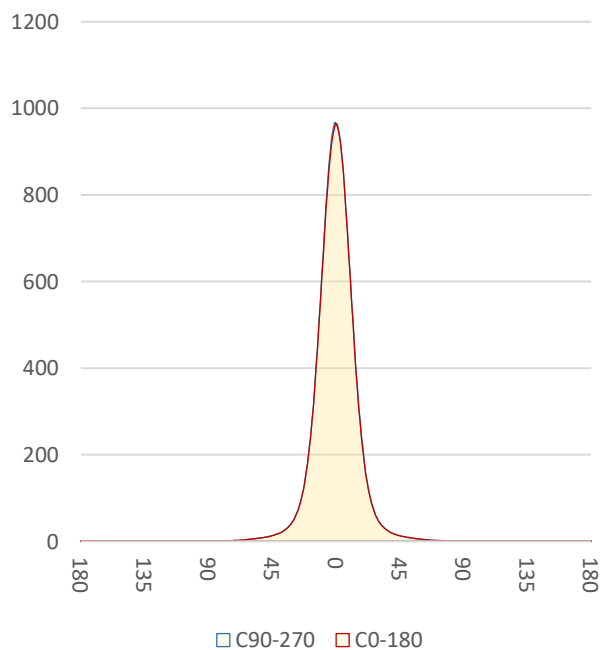
Item number	
Date and time	3-11-2017 13:45:12
CCT (Kelvin)	0 K
Beam angle	24,7°
Luminous flux	260 lm
Efficiency	23 lm/watt
Weighted energy	11,2 kWh/1000h
Power factor	0,59
CRI (RA)	0,0
Fidelity index Rf	Rf 0,0
Gammut index Rg	Rg 0,0
Peak	970 cd



Polar diagram



Cartesian diagram



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Beam details	1m	2m	3m	4m	5m
Lux*	966 lx	241 lx	107 lx	60 lx	39 lx

24,7°

*measured at center of beam

Footcandles*	89,7 fcd	22,4 fcd	10,0 fcd	5,6 fcd	3,6 fcd
Beam width (meter)	0,4 m	0,9 m	1,3 m	1,8 m	2,2 m
Beam width (Feet)	1,4 ft	2,9 ft	4,3 ft	5,8 ft	7,2 ft

Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
966lx	241lx	107lx	60lx	39lx	27lx	20lx	15lx	12lx	10lx	8lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	3lx	2lx
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
89,7fcd	22,4fcd	10fcd	5,6fcd	3,6fcd	2,5fcd	1,8fcd	1,4fcd	1,1fcd	0,9fcd	0,7fcd	0,6fcd	0,5fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd

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°
966	942	892	813	715	608	500	400	313	240	182	138	105	80	62	49	39	32	27	22
100%	98%	92%	84%	74%	63%	52%	41%	32%	25%	19%	14%	11%	8%	6%	5%	4%	3%	3%	2%

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°
966	955	904	825	724	615	504	403	313	241	182	137	105	80	62	49	39	32	26	22
100%	99%	94%	85%	75%	64%	52%	42%	32%	25%	19%	14%	11%	8%	6%	5%	4%	3%	3%	2%

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°
966	944	893	814	716	609	500	399	311	238	179	135	102	78	60	47	37	31	26	21
100%	98%	93%	84%	74%	63%	52%	41%	32%	25%	19%	14%	11%	8%	6%	5%	4%	3%	3%	2%

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°
966	948	897	816	718	611	505	403	316	243	183	138	104	79	60	47	38	31	25	21
100%	98%	93%	84%	74%	63%	52%	42%	33%	25%	19%	14%	11%	8%	6%	5%	4%	3%	3%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24,7°	49°	73,6°	96,2%	92,1%



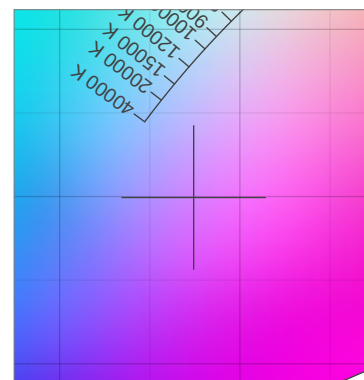
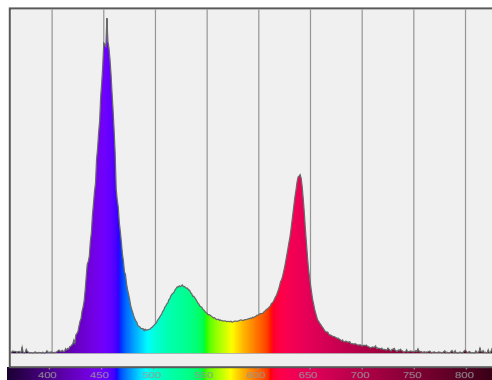
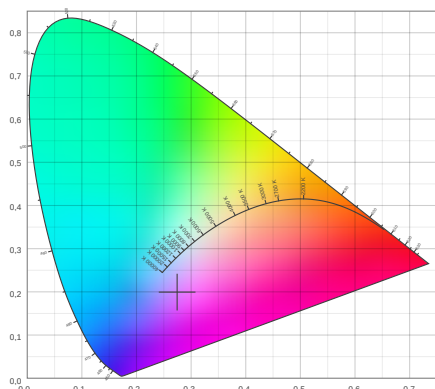
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Color details



<i>CIE 1931</i>	x: 0,274		Spectra	<i>CIE 1931 ZOOM</i>
0 K	y: 0,199			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																<i>TM30 values, 16 binned values out of total of 99 values</i>							
																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	
																0,0	0,0	0,0	0,0	0,0	0,0	0,0	
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	0,274	0,199	0,227	0,247	n/a



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TM30 details

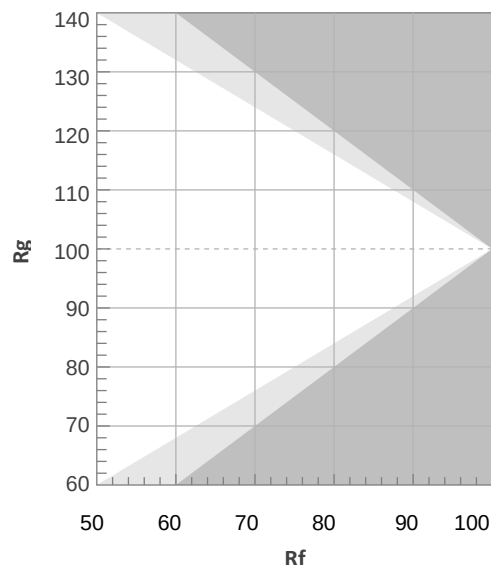
Rf 0,0

Fidelity index Rf

Rg 0,0

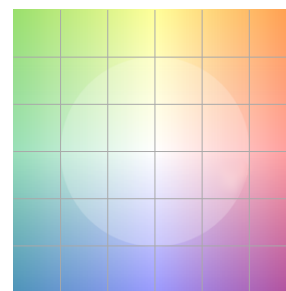
Gamut index Rg

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%



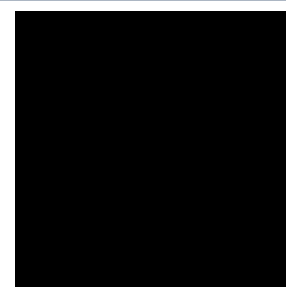
Hue binH

Color vector graphics

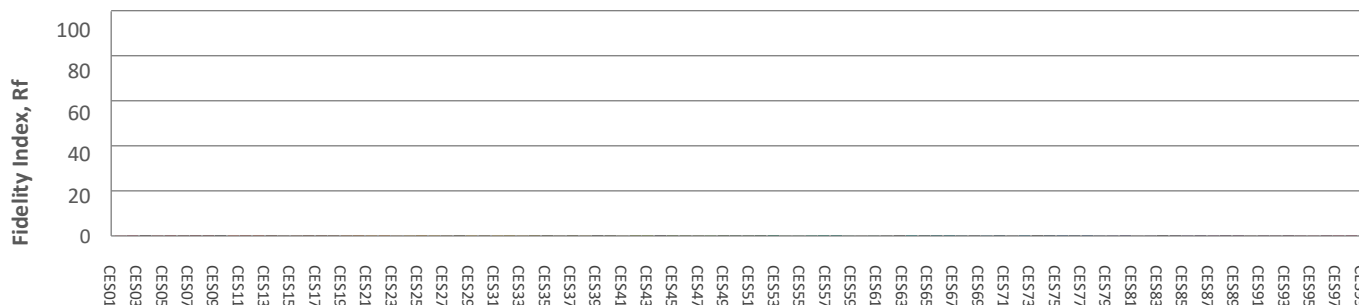


Hue bin

Color distortion graphics



Color Evaluation Sample



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	16,1	16,3	15,1	15,8	15,4	16,1	16,3
	3H	15,5	16,2	15,8	16,4	16,7	15,5	16,2	15,8	16,4	16,7
	4H	15,7	16,3	16,0	16,6	16,9	15,7	16,3	16,0	16,6	16,9
	6H	15,8	16,3	16,1	16,6	16,9	15,8	16,3	16,1	16,6	17,0
	8H	15,8	16,4	16,2	16,7	17,0	15,9	16,4	16,2	16,7	17,1
	12H	16,0	16,5	16,3	16,8	17,2	16,0	16,5	16,4	16,9	17,2
4H	2H	15,3	15,9	15,6	16,2	16,5	15,3	15,9	15,6	16,2	16,5
	3H	15,9	16,4	16,2	16,7	17,1	15,8	16,3	16,2	16,7	17,0
	4H	16,1	16,5	16,5	16,9	17,3	16,1	16,5	16,5	16,9	17,2
	6H	16,2	16,6	16,7	17,0	17,4	16,2	16,6	16,7	17,0	17,4
	8H	16,4	16,7	16,8	17,1	17,5	16,4	16,7	16,8	17,1	17,6
	12H	16,6	16,9	17,0	17,3	17,8	16,7	16,9	17,1	17,4	17,8
8H	4H	16,1	16,5	16,6	16,9	17,3	16,1	16,4	16,5	16,8	17,3
	6H	16,4	16,6	16,8	17,1	17,5	16,4	16,6	16,8	17,1	17,6
	8H	16,6	16,8	17,1	17,2	17,8	16,6	16,8	17,1	17,3	17,8
	12H	16,9	17,1	17,5	17,6	18,1	17,0	17,2	17,6	17,7	18,2
12H	4H	16,1	16,4	16,6	16,8	17,3	16,1	16,4	16,5	16,8	17,3
	6H	16,4	16,6	16,9	17,1	17,6	16,4	16,6	16,9	17,1	17,6
	8H	16,6	16,8	17,1	17,3	17,8	16,7	16,9	17,2	17,4	17,9
Variation of the observer position for the luminaire distance S											
S = 1,0H		+1,1 / -0,8					+1,0 / -0,8				
S = 1,5H		+2,2 / -1,4					+2,2 / -1,6				
S = 2,0H		+3,7 / -2,4					+3,7 / -2,3				
Standard table		BK03					BK03				
Correction summand		-1,0					-1,0				
Corrected glare indices referring to 260lm total luminous flux											

