

LM-79

Test Report

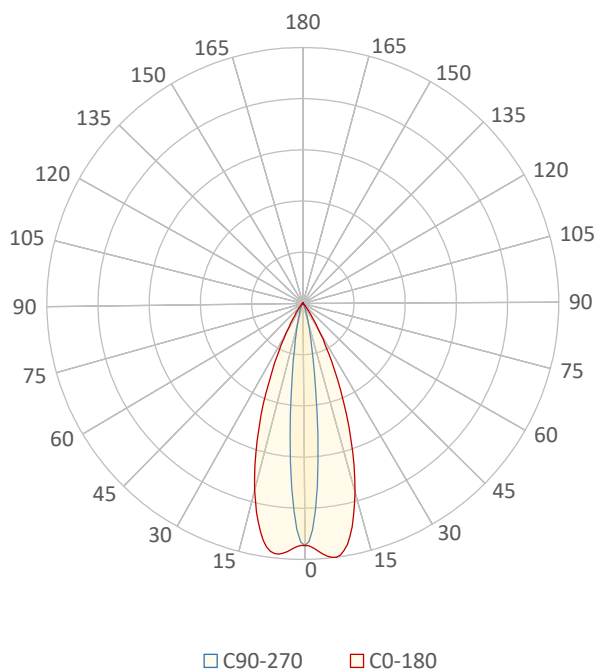
LM79-MARTINA-RGBW-ELIPTICAL

General Discription

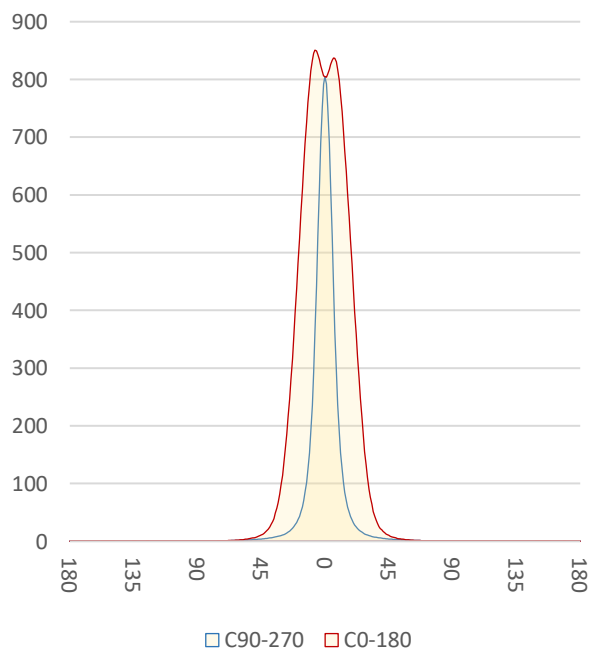
Item number	
Date and time	3-11-2017 13:51:11
CCT (Kelvin)	0 K
Beam angle	26,8°
Luminous flux	251 lm
Efficiency	23 lm/watt
Weighted energy	11,1 kWh/1000h
Power factor	0,61
CRI (RA)	0,0
Fidelity index Rf	Rf 0,0
Gammut index Rg	Rg 0,0
Peak	851 cd



Polar diagram



Cartesian diagram



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Beam details	1m	2m	3m	4m	5m
Lux*	805 lx	201 lx	89 lx	50 lx	32 lx

26,8°

*measured at center of beam

Footcandles*	74,8 fcd	18,7 fcd	8,3 fcd	4,7 fcd	3,0 fcd
Beam width (meter)	0,5 m	1 m	1,4 m	1,9 m	2,4 m
Beam width (Feet)	1,6 ft	3,1 ft	4,7 ft	6,2 ft	7,8 ft

Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
805lx	201lx	89lx	50lx	32lx	22lx	16lx	13lx	10lx	8lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	2lx	2lx	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
74,8fcd	18,7fcd	8,3fcd	4,7fcd	3fcd	2,1fcd	1,5fcd	1,2fcd	0,9fcd	0,7fcd	0,6fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	0,3fcd	0,2fcd	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°
805	814	834	849	845	815	760	689	610	524	438	355	281	215	158	114	82	58	39	30
100%	101%	104%	106%	105%	101%	94%	86%	76%	65%	54%	44%	35%	27%	20%	14%	10%	7%	5%	4%

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°
805	753	612	443	293	189	124	85	60	43	33	25	20	16	13	11	9	8	7	6
100%	93%	76%	55%	36%	24%	15%	11%	7%	5%	4%	3%	2%	2%	2%	1%	1%	1%	1%	1%

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°
805	809	826	837	831	798	744	677	602	522	438	359	281	214	155	111	76	52	37	25
100%	101%	103%	104%	103%	99%	92%	84%	75%	65%	54%	45%	35%	27%	19%	14%	9%	6%	5%	3%

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°
805	751	614	443	294	189	125	85	59	43	32	25	20	16	13	11	9	8	7	6
100%	93%	76%	55%	37%	24%	16%	11%	7%	5%	4%	3%	2%	2%	2%	1%	1%	1%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26,8°	45,8°	63,4°	97,7%	95,7%



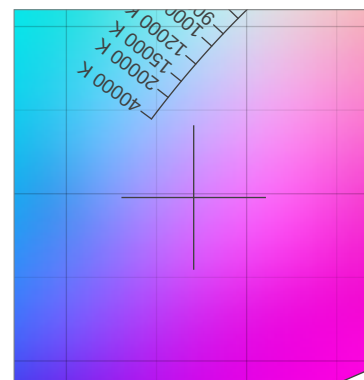
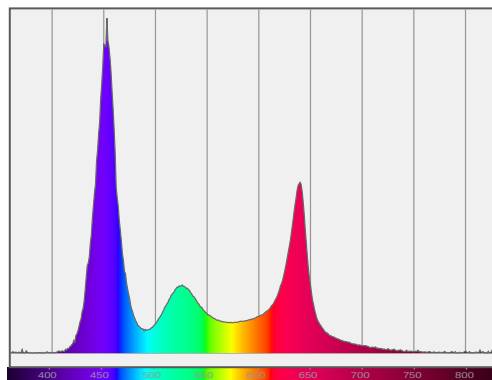
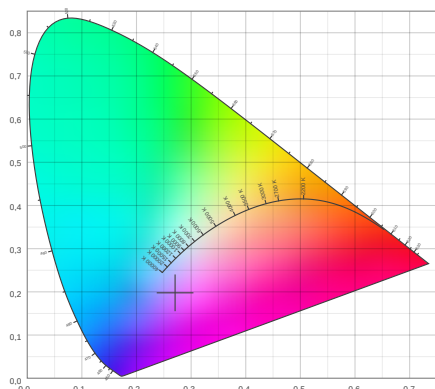
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Color details



<i>CIE 1931</i>	x: 0,271		Spectra	<i>CIE 1931 ZOOM</i>
0 K	y: 0,198			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	
C1C2C3C4C5C6C7C8C9C10C11C12C13C14C15C16	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	0,198	0,224	0,246	n/a



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TM30 details

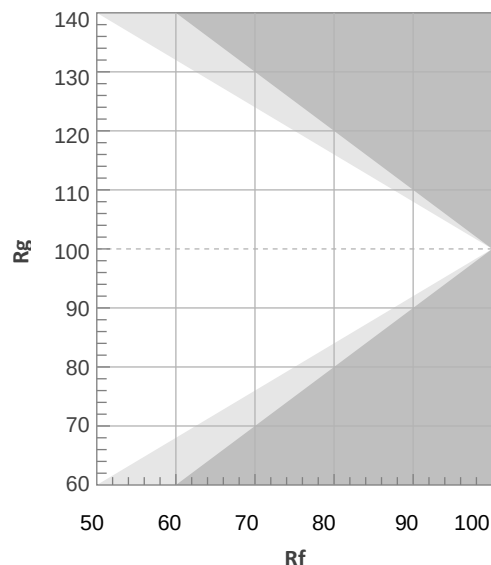
Rf 0,0

Fidelity index Rf

Rg 0,0

Gamut index Rg

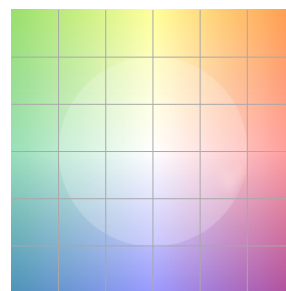
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Hue binH



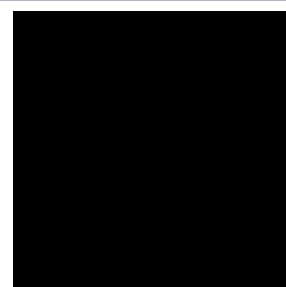
Color vector graphics



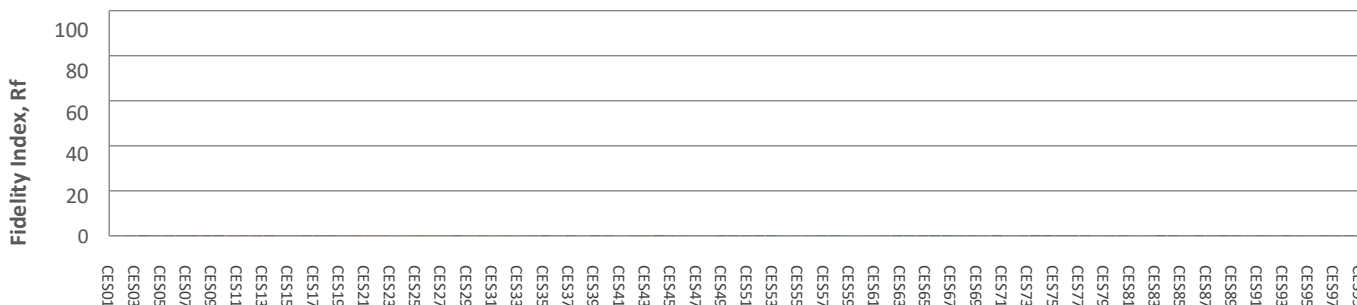
Hue bin



Color distortion graphics



Color Evaluation Sample



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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	14,8	15,5	15,1	15,7	15,9	9,8	10,4	10,0	10,6	10,9
	3H	14,9	15,5	15,2	15,7	16,0	10,1	10,7	10,4	11,0	11,2
	4H	14,9	15,5	15,2	15,7	16,0	10,3	10,8	10,6	11,1	11,4
	6H	14,9	15,4	15,2	15,7	16,0	10,5	11,0	10,8	11,3	11,6
	8H	14,9	15,4	15,2	15,7	16,0	10,6	11,1	10,9	11,4	11,7
	12H	14,9	15,4	15,3	15,7	16,1	10,7	11,2	11,1	11,6	11,9
4H	2H	14,7	15,3	15,0	15,6	15,9	10,0	10,6	10,3	10,8	11,1
	3H	14,8	15,3	15,2	15,6	16,0	10,4	10,9	10,8	11,2	11,6
	4H	14,9	15,3	15,3	15,7	16,0	10,7	11,1	11,1	11,5	11,8
	6H	14,9	15,3	15,3	15,6	16,0	11,0	11,4	11,4	11,7	12,1
	8H	15,0	15,3	15,4	15,7	16,1	11,2	11,5	11,6	11,9	12,3
	12H	15,1	15,3	15,5	15,7	16,2	11,5	11,7	11,9	12,2	12,6
8H	4H	14,8	15,1	15,3	15,5	16,0	10,8	11,1	11,2	11,5	11,9
	6H	14,9	15,1	15,4	15,6	16,0	11,2	11,5	11,7	11,9	12,4
	8H	15,0	15,2	15,5	15,6	16,1	11,5	11,7	12,0	12,2	12,7
	12H	15,2	15,3	15,7	15,8	16,3	11,9	12,1	12,4	12,6	13,1
12H	4H	14,8	15,1	15,2	15,5	15,9	10,8	11,0	11,2	11,5	11,9
	6H	14,9	15,1	15,4	15,5	16,0	11,3	11,5	11,8	11,9	12,4
	8H	15,0	15,1	15,5	15,6	16,1	11,6	11,8	12,1	12,3	12,8
Variation of the observer position for the luminaire distance S											
S = 1,0H		+4,4 / -3,1					+1,6 / -1,1				
S = 1,5H		+7,1 / -4,0					+2,8 / -1,5				
S = 2,0H		+9,0 / -4,7					+4,1 / -2,2				
Standard table		BK01					BK03				
Correction summand		-3,0					-6,3				
Corrected glare indices referring to 251lm total luminous flux											

