

LM-79

Test Report

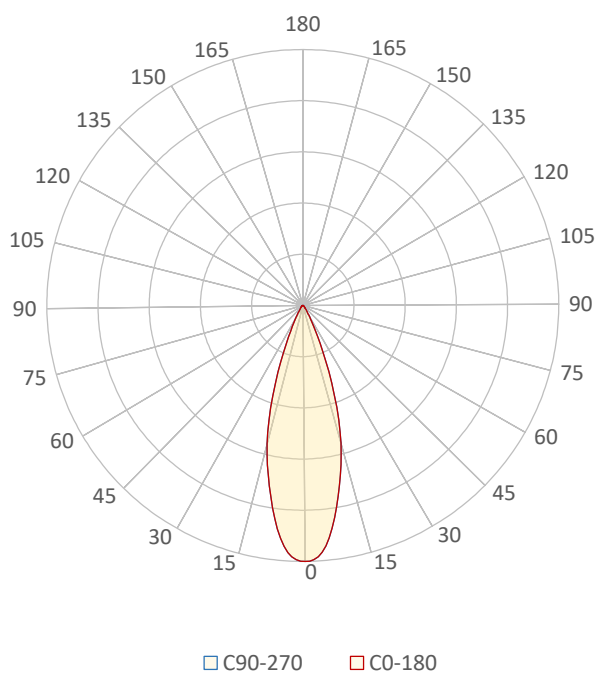
LM79-QUARTZ-RGBW-30DEG [ALL]

General Discription

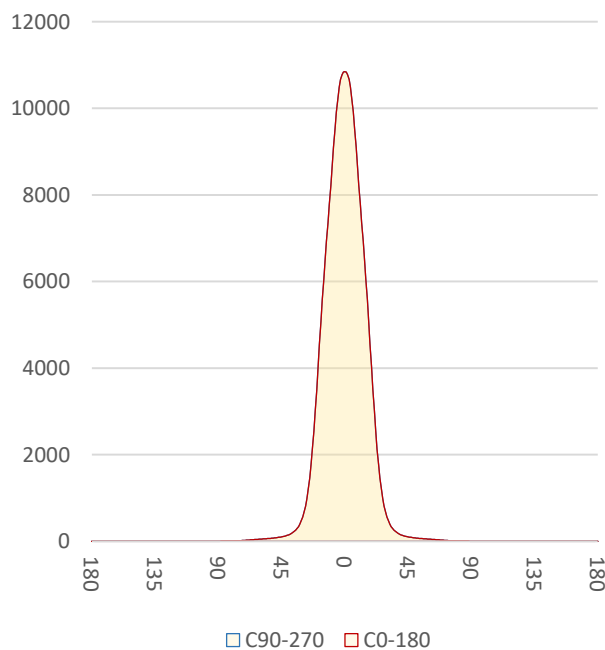
Item number	Q-XXX-C370-M
Date and time	16-4-2024 13:44:24
CCT (Kelvin)	0 K
Beam angle	32,6°
Luminous flux	3636 lm
Efficiency	46 lm/watt
Weighted energy	79,2 kWh/1000h
Power factor	0,57
CRI (RA)	0,0
Fidelity index Rf	Rf 0,0
Gammut index Rg	Rg 0,0
Peak	10846 cd



Polar diagram



Cartesian diagram



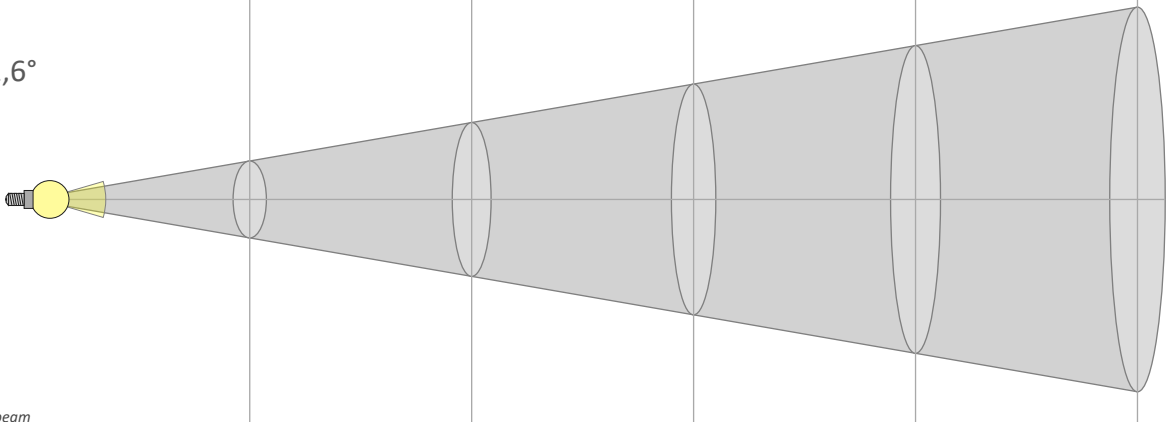
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Beam details					1m		2m		3m		4m		5m							
Lux*					10846 lx		2712 lx		1205 lx		678 lx		434 lx							
32,6° 																				
*measured at center of beam																				
Footcandles*					1007,7 fcd		251,9 fcd		112,0 fcd		63,0 fcd		40,3 fcd							
Beam width (meter)					0,6 m		1,2 m		1,8 m		2,3 m		2,9 m							
Beam width (Feet)					1,9 ft		3,8 ft		5,8 ft		7,7 ft		9,6 ft							
Beam intensities																				
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m	
10846lx	2712lx	1205lx	678lx	434lx	301lx	221lx	169lx	134lx	108lx	90lx	75lx	64lx	55lx	48lx	42lx	38lx	33lx	30lx	27lx	
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	
1007,7fcd	251,9fcd	112fcd	63fcd	40,3fcd	28fcd	20,6fcd	15,7fcd	12,4fcd	10,1fcd	8,3fcd	7fcd	6fcd	5,1fcd	4,5fcd	3,9fcd	3,5fcd	3,1fcd	2,8fcd	2,5fcd	
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°	
10,8K	10,8K	10,5K	9,9K	9,1K	8,2K	7,4K	6,5K	5,6K	4,6K	3,5K	2,5K	1,8K	1,2K	0,8K	0,6K	0,4K	0,3K	0,2K	0,2K	
100%	99%	97%	91%	84%	76%	68%	60%	51%	42%	32%	23%	16%	11%	7%	5%	4%	3%	2%	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°	
10,8K	10,8K	10,5K	9,9K	9,1K	8,2K	7,4K	6,5K	5,6K	4,6K	3,5K	2,5K	1,8K	1,2K	0,8K	0,6K	0,4K	0,3K	0,2K	0,2K	
100%	99%	97%	91%	84%	76%	68%	60%	51%	42%	32%	23%	16%	11%	7%	5%	4%	3%	2%	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°	
10,8K	10,8K	10,5K	9,9K	9,1K	8,2K	7,4K	6,5K	5,6K	4,6K	3,5K	2,5K	1,8K	1,2K	0,8K	0,6K	0,4K	0,3K	0,2K	0,2K	
100%	99%	97%	91%	84%	76%	68%	60%	51%	42%	32%	23%	16%	11%	7%	5%	4%	3%	2%	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°	
10,8K	10,8K	10,5K	9,9K	9,1K	8,2K	7,4K	6,5K	5,6K	4,6K	3,5K	2,5K	1,8K	1,2K	0,8K	0,6K	0,4K	0,3K	0,2K	0,2K	
100%	99%	97%	91%	84%	76%	68%	60%	51%	42%	32%	23%	16%	11%	7%	5%	4%	3%	2%	2%	
Beam angle 50%					Field angle 10%				Cutoff angle 2,5%				Intensity ratio in 120° cone				Intensity ratio in 90° cone			
32,6°					53,1°				69,2°				98,2%				95,6%			



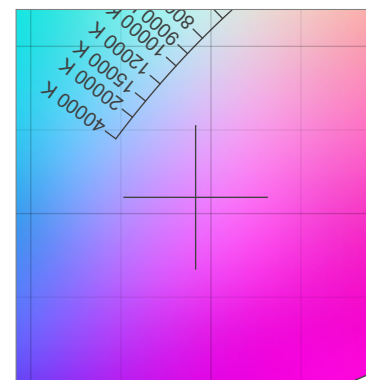
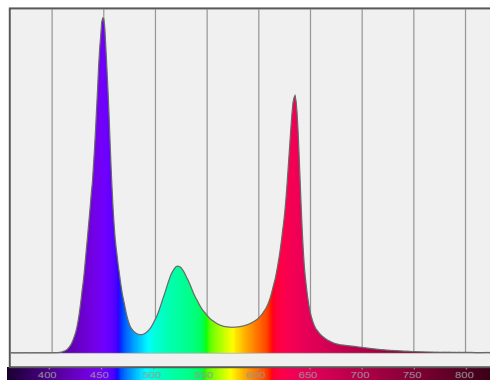
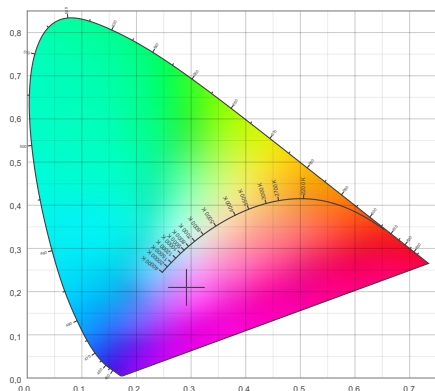
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Color details



<i>CIE 1931</i>	x: 0,291		Spectra	<i>CIE 1931 ZOOM</i>
0 K	y: 0,210			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	
																0,0	0,0	0,0	0,0	0,0	0,0	0,0	
																C1	C2	C3	C4	C5	C6	C7	C8

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
0 K	0,0	0,0	0,0	0,0	0,0	0,291	0,210	0,236	0,255	n/a



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TM30 details

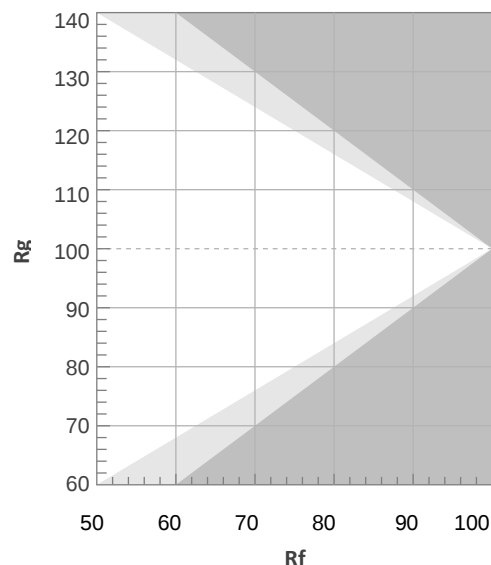
Rf 0,0

Fidelity index Rf

Rg 0,0

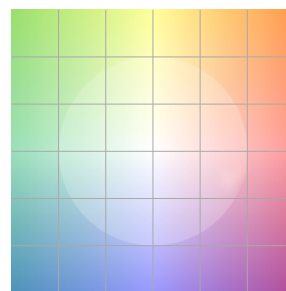
Gammut index Rg

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%



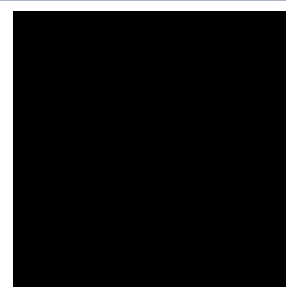
Hue binH

Color vector graphics

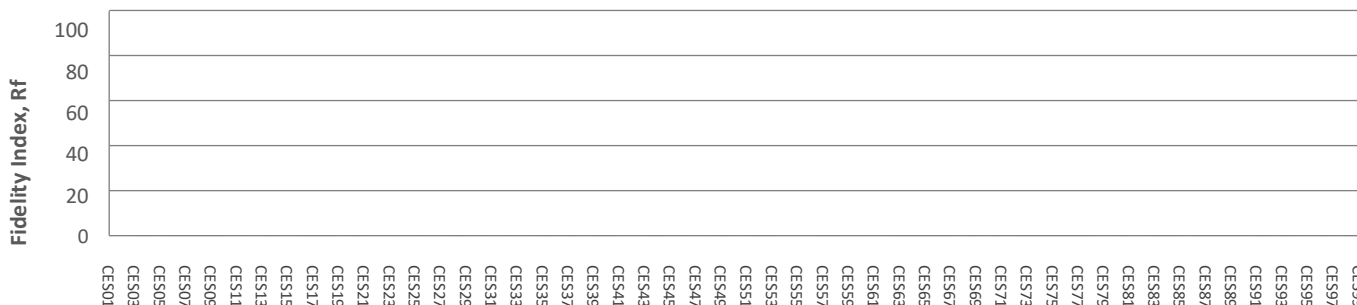


Hue bin

Color distortion graphics



Color Evaluation Sample



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	8,4	8,9	8,5	9,1	9,3	8,4	8,9	8,5	9,1	9,3
	3H	8,8	9,5	9,2	9,7	9,8	8,8	9,5	9,2	9,7	9,8
	4H	9,0	9,6	9,4	9,8	10,1	9,0	9,6	9,4	9,8	10,1
	6H	9,1	9,6	9,4	9,9	10,2	9,1	9,6	9,4	9,9	10,2
	8H	9,1	9,6	9,4	9,9	10,3	9,1	9,6	9,4	9,9	10,3
	12H	9,0	9,5	9,4	9,9	10,3	9,0	9,5	9,4	9,9	10,3
4H	2H	8,5	9,1	8,9	9,3	9,6	8,5	9,1	8,9	9,3	9,6
	3H	9,3	9,7	9,6	10,1	10,5	9,3	9,7	9,6	10,1	10,5
	4H	9,4	9,8	9,8	10,3	10,8	9,4	9,8	9,8	10,3	10,8
	6H	9,5	10,0	9,9	10,3	10,6	9,5	10,0	9,9	10,3	10,6
	8H	9,4	9,9	9,9	10,2	10,6	9,4	9,9	9,9	10,2	10,6
	12H	9,4	9,8	9,9	10,2	10,6	9,4	9,8	9,9	10,2	10,6
8H	4H	9,4	9,8	9,9	10,2	10,5	9,4	9,8	9,9	10,2	10,5
	6H	9,5	9,8	10,0	10,3	10,8	9,5	9,8	10,0	10,3	10,8
	8H	9,6	9,8	10,1	10,3	10,9	9,6	9,8	10,1	10,3	10,9
	12H	9,5	9,7	10,1	10,2	10,8	9,5	9,7	10,1	10,2	10,8
12H	4H	9,3	9,7	9,8	10,1	10,5	9,3	9,7	9,8	10,1	10,5
	6H	9,5	9,7	10,0	10,3	10,9	9,5	9,7	10,0	10,3	10,9
	8H	9,5	9,7	10,1	10,2	10,8	9,5	9,7	10,1	10,2	10,8
Variation of the observer position for the luminaire distance S											
S = 1.0H		1,9 / -1,0					1,9 / -1,0				
S = 1.5H		3,6 / -1,4					3,6 / -1,4				
S = 2.0H		5,1 / -2,4					5,1 / -2,4				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 3636lm total luminous flux											