

LM-79

Test Report

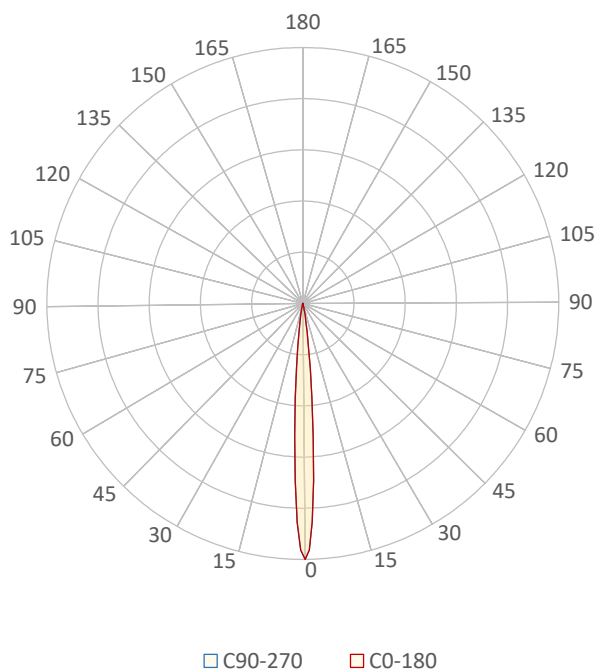
LM79-QUARTZ-RGBA-8DEG [ALL]

General Discription

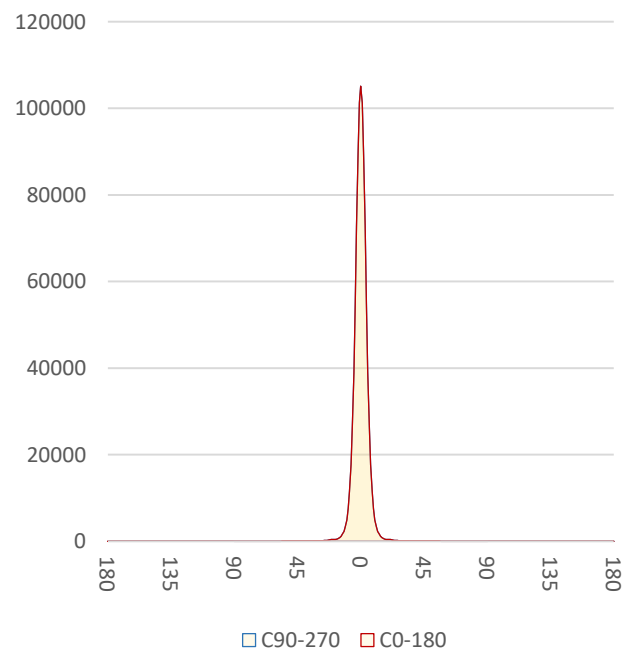
Item number	Q-XXX-CA70-N
Date and time	24-2-2023 14:14:10
CCT (Kelvin)	0 K
Beam angle	8,2°
Luminous flux	3250 lm
Efficiency	48 lm/watt
Weighted energy	68,4 kWh/1000h
Power factor	0,58
CRI (RA)	0,0
Fidelity index Rf	Rf 0,0
Gammut index Rg	Rg 0,0
Peak	105248 cd



Polar diagram



Cartesian diagram



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Beam details	1m	2m	3m	4m	5m																			
Lux*	105116 lx	26279 lx	11680 lx	6570 lx	4205 lx																			
<i>*measured at center of beam</i>																								
Footcandles*	9765,6 fcd	2441,4 fcd	1085,1 fcd	610,4 fcd	390,6 fcd																			
Beam width (meter)	0,1 m	0,3 m	0,4 m	0,6 m	0,7 m																			
Beam width (Feet)	0,5 ft	0,9 ft	1,4 ft	1,9 ft	2,4 ft																			
Beam intensities																								
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m					
105116lx	26279lx	11680lx	6570lx	4205lx	2920lx	2145lx	1642lx	1298lx	1051lx	869lx	730lx	622lx	536lx	467lx	411lx	364lx	324lx	291lx	263lx					
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					
9765,6fcd	2441,4fcd	1085,1fcd	610,4fcd	390,6fcd	271,3fcd	199,3fcd	152,6fcd	120,6fcd	97,7fcd	80,7fcd	67,8fcd	57,8fcd	49,8fcd	43,4fcd	38,1fcd	33,8fcd	30,1fcd	27,1fcd	24,4fcd					
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°					
105K	101K	90K	73K	55K	39K	27K	18K	12K	7K	5K	3K	2K	2K	1K	1K	1K	1K	0K	0K					
100%	96%	85%	69%	52%	37%	25%	17%	11%	7%	5%	3%	2%	2%	1%	1%	1%	1%	0%	0%					
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°					
105K	101K	90K	73K	55K	39K	27K	18K	12K	7K	5K	3K	2K	2K	1K	1K	1K	1K	0K	0K					
100%	96%	85%	69%	52%	37%	25%	17%	11%	7%	5%	3%	2%	2%	1%	1%	1%	1%	0%	0%					
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°					
105K	101K	90K	73K	55K	39K	27K	18K	12K	7K	5K	3K	2K	2K	1K	1K	1K	1K	0K	0K					
100%	96%	85%	69%	52%	37%	25%	17%	11%	7%	5%	3%	2%	2%	1%	1%	1%	1%	0%	0%					
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°					
105K	101K	90K	73K	55K	39K	27K	18K	12K	7K	5K	3K	2K	2K	1K	1K	1K	1K	0K	0K					
100%	96%	85%	69%	52%	37%	25%	17%	11%	7%	5%	3%	2%	2%	1%	1%	1%	1%	0%	0%					
Beam angle 50%					Field angle 10%					Cutoff angle 2,5%					Intensity ratio in 120° cone					Intensity ratio in 90° cone				
8,2°					16,4°					23,3°					98,9%					97,9%				



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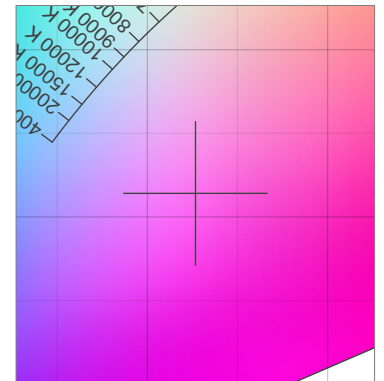
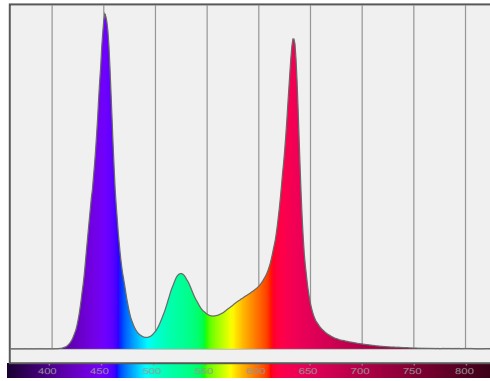
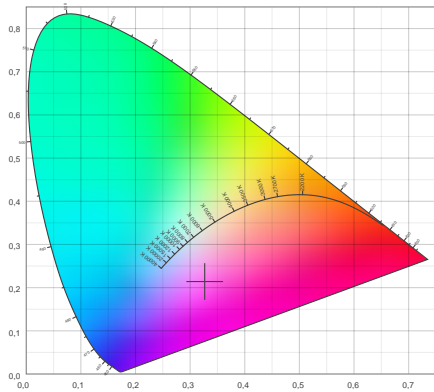
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Color details



CIE 1931

x: 0,327



Spectra

CIE 1931 ZOOM

0 K

y: 0,214

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	R9	R10	R11	R12	R13	R14	R15

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	

CQS: 0,0

CQS values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

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	

TM30: 0,0

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16

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	

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	0,327	0,214	0,266	0,261	n/a



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TM30 details

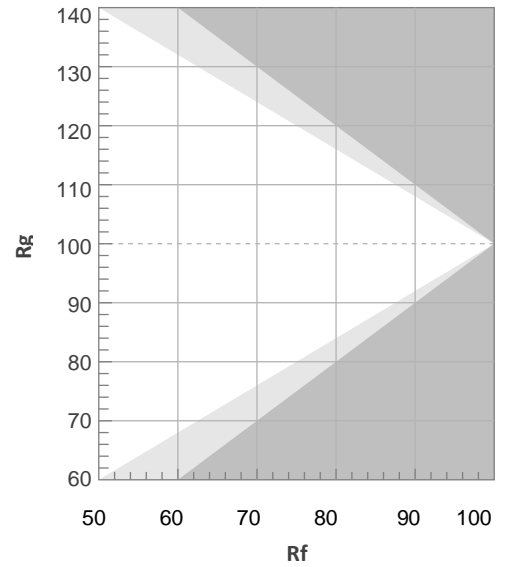
Rf 0,0

Fidelity index Rf

Rg 0,0

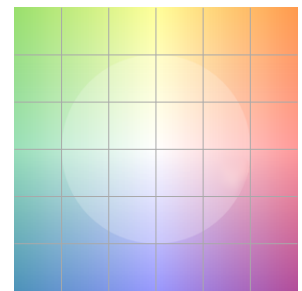
Gammut index Rg

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%



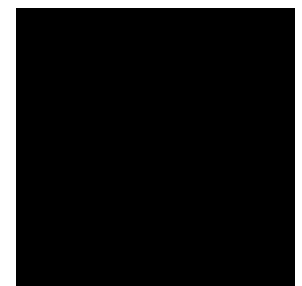
Hue binH

Color vector graphics

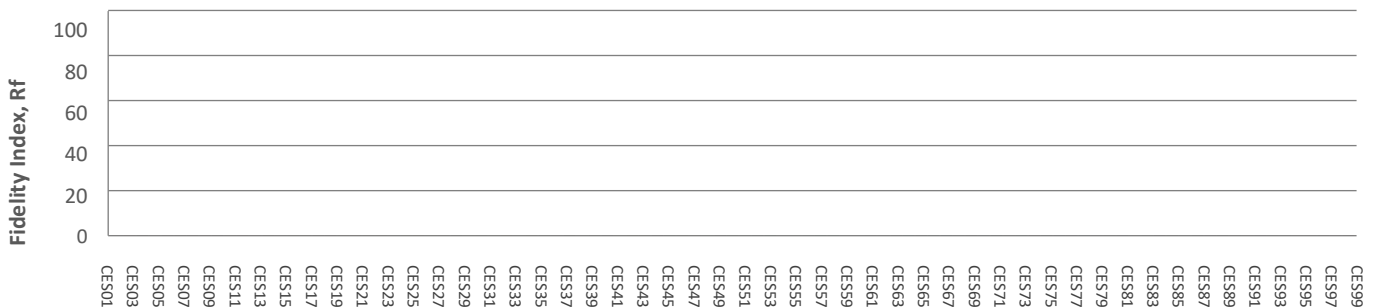


Hue bin

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	1,8	2,0	1,8	2,2	2,4	1,8	2,0	1,8	2,2	2,4
	3H	2,6	3,0	2,9	3,2	3,4	2,6	3,0	2,9	3,2	3,4
	4H	3,0	3,5	3,4	3,7	3,9	3,0	3,5	3,4	3,7	3,9
	6H	3,6	4,0	3,9	4,3	4,6	3,6	4,0	3,9	4,3	4,6
	8H	3,9	4,3	4,2	4,6	5,0	3,9	4,3	4,2	4,6	5,0
	12H	4,2	4,6	4,6	4,9	5,3	4,2	4,6	4,6	4,9	5,3
4H	2H	2,0	2,4	2,3	2,6	2,8	2,0	2,4	2,3	2,6	2,8
	3H	3,2	3,5	3,5	3,9	4,3	3,2	3,5	3,5	3,9	4,3
	4H	3,7	4,0	4,1	4,5	5,0	3,7	4,0	4,1	4,5	5,0
	6H	4,4	4,8	4,9	5,1	5,5	4,4	4,8	4,9	5,1	5,5
	8H	4,8	5,2	5,3	5,5	5,8	4,8	5,2	5,3	5,5	5,8
	12H	5,2	5,5	5,7	5,9	6,3	5,2	5,5	5,7	5,9	6,3
8H	4H	3,9	4,3	4,4	4,6	5,0	3,9	4,3	4,4	4,6	5,0
	6H	4,8	5,0	5,3	5,5	6,0	4,8	5,0	5,3	5,5	6,0
	8H	5,4	5,5	5,9	6,1	6,7	5,4	5,5	5,9	6,1	6,7
	12H	5,9	6,1	6,5	6,6	7,2	5,9	6,1	6,5	6,6	7,2
12H	4H	3,9	4,2	4,4	4,6	5,0	3,9	4,2	4,4	4,6	5,0
	6H	4,9	5,1	5,5	5,6	6,2	4,9	5,1	5,5	5,6	6,2
	8H	5,5	5,7	6,1	6,2	6,8	5,5	5,7	6,1	6,2	6,8
Variation of the observer position for the luminaire distance S											
S = 1.0H	0,5 / -0,3					0,5 / -0,3					
S = 1.5H	1,2 / -0,4					1,2 / -0,4					
S = 2.0H	2,0 / -0,6					2,0 / -0,6					
Standard table	n/a					n/a					
Correction summand	n/a					n/a					
Corrected glare indices referring to 3250lm total luminous flux											



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