

LM-79

Test Report

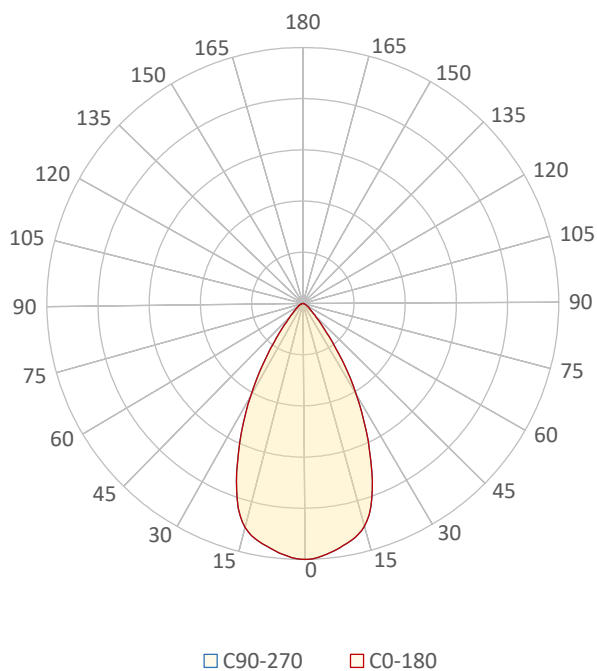
LM79-QUARTZ-RGBA-54DEG [ALL]

General Discription

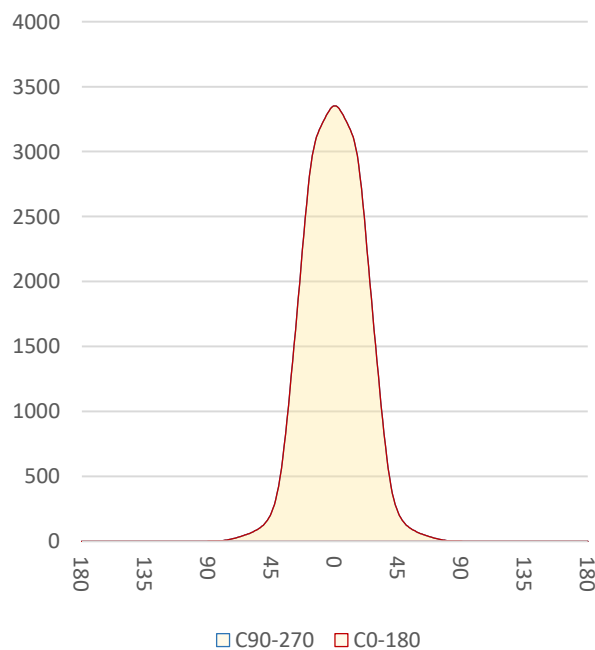
Item number	Q-XXX-CA70-W
Date and time	15-4-2024 15:28:29
CCT (Kelvin)	0 K
Beam angle	55,2°
Luminous flux	2908 lm
Efficiency	39 lm/watt
Weighted energy	74,7 kWh/1000h
Power factor	0,58
CRI (RA)	0,0
Fidelity index Rf	Rf 0,0
Gammut index Rg	Rg 0,0
Peak	3352 cd



Polar diagram



Cartesian diagram



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Beam details	1m	2m	3m	4m	5m
Lux*	3352 lx	838 lx	372 lx	209 lx	134 lx

55,2°

*measured at center of beam

Footcandles*	311,4 fcd	77,8 fcd	34,6 fcd	19,5 fcd	12,5 fcd
Beam width (meter)	1 m	2,1 m	3,1 m	4,2 m	5,2 m
Beam width (Feet)	3,4 ft	6,9 ft	10,3 ft	13,7 ft	17,1 ft

Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3352lx	838lx	372lx	209lx	134lx	93lx	68lx	52lx	41lx	34lx	28lx	23lx	20lx	17lx	15lx	13lx	12lx	10lx	9lx	8lx
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
311,4fcd	77,8fcd	34,6fcd	19,5fcd	12,5fcd	8,6fcd	6,4fcd	4,9fcd	3,8fcd	3,1fcd	2,6fcd	2,2fcd	1,8fcd	1,6fcd	1,4fcd	1,2fcd	1,1fcd	1fcd	0,9fcd	0,8fcd

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°
3352	3343	3315	3279	3236	3192	3142	3073	2969	2812	2605	2367	2116	1867	1626	1389	1156	934	732	560
100%	100%	99%	98%	97%	95%	94%	92%	89%	84%	78%	71%	63%	56%	49%	41%	35%	28%	22%	17%

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°
3352	3343	3315	3279	3236	3192	3142	3073	2969	2812	2605	2367	2116	1867	1626	1389	1156	934	732	560
100%	100%	99%	98%	97%	95%	94%	92%	89%	84%	78%	71%	63%	56%	49%	41%	35%	28%	22%	17%

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°
3352	3343	3315	3279	3236	3192	3142	3073	2969	2812	2605	2367	2116	1867	1626	1389	1156	934	732	560
100%	100%	99%	98%	97%	95%	94%	92%	89%	84%	78%	71%	63%	56%	49%	41%	35%	28%	22%	17%

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°
3352	3343	3315	3279	3236	3192	3142	3073	2969	2812	2605	2367	2116	1867	1626	1389	1156	934	732	560
100%	100%	99%	98%	97%	95%	94%	92%	89%	84%	78%	71%	63%	56%	49%	41%	35%	28%	22%	17%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
55,2°	83,4°	112,6°	97,8%	92,6%



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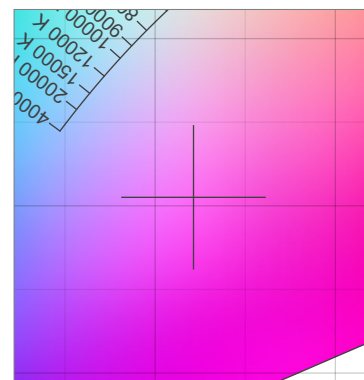
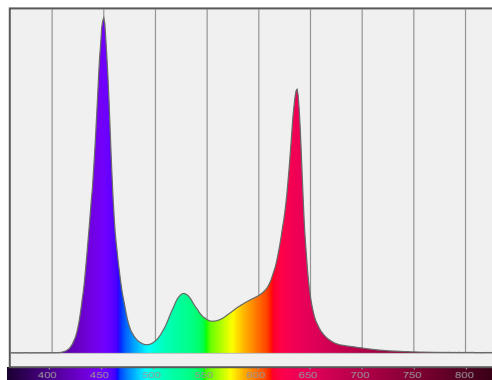
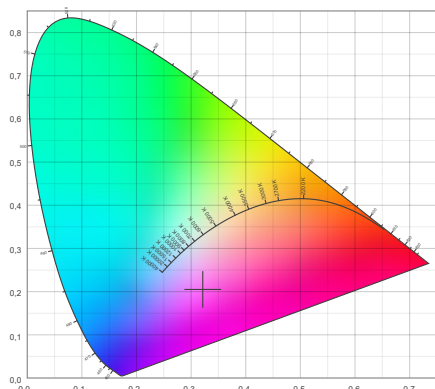
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Color details



CIE 1931

x: 0,321



Spectra

CIE 1931 ZOOM

0 K

y: 0,205

 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

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	0,321	0,205	0,267	0,255	n/a



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TM30 details

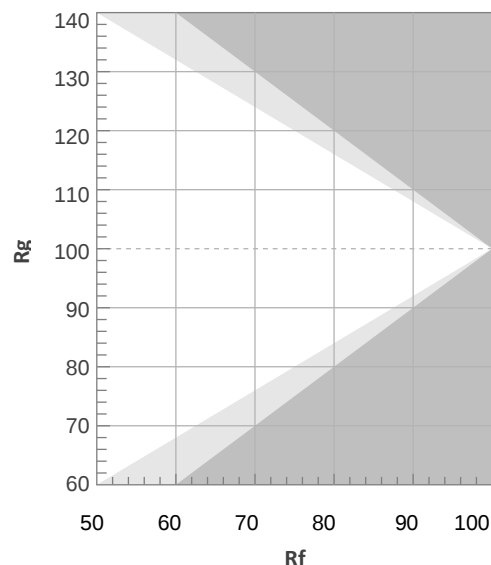
Rf 0,0

Fidelity index Rf

Rg 0,0

Gamut index Rg

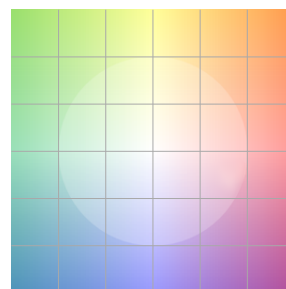
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Hue binH



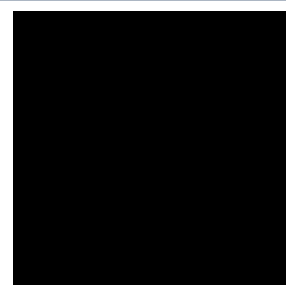
Color vector graphics



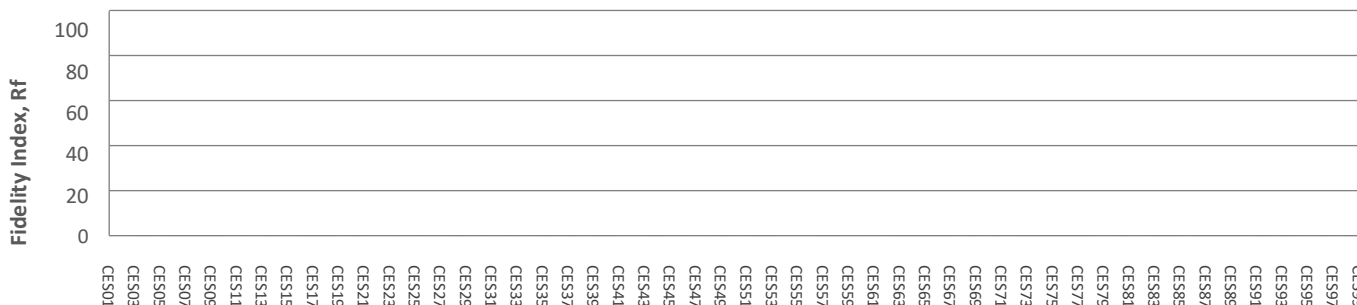
Hue bin



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	14,6	15,3	14,7	15,5	15,7	14,6	15,3	14,7	15,5	15,7
	3H	14,5	15,3	14,9	15,5	15,7	14,5	15,3	14,9	15,5	15,7
	4H	14,5	15,2	14,9	15,5	15,7	14,5	15,2	14,9	15,5	15,7
	6H	14,5	15,1	14,8	15,4	15,8	14,5	15,1	14,8	15,4	15,8
	8H	14,4	15,1	14,8	15,4	15,8	14,4	15,1	14,8	15,4	15,8
	12H	14,4	15,0	14,7	15,3	15,8	14,4	15,0	14,7	15,3	15,8
4H	2H	14,4	15,1	14,8	15,4	15,6	14,4	15,1	14,8	15,4	15,6
	3H	14,5	15,1	14,9	15,5	15,9	14,5	15,1	14,9	15,5	15,9
	4H	14,5	15,0	14,9	15,4	15,9	14,5	15,0	14,9	15,4	15,9
	6H	14,4	15,0	14,9	15,3	15,7	14,4	15,0	14,9	15,3	15,7
	8H	14,4	14,9	14,9	15,2	15,6	14,4	14,9	14,9	15,2	15,6
	12H	14,3	14,7	14,8	15,1	15,6	14,3	14,7	14,8	15,1	15,6
8H	4H	14,4	14,9	14,9	15,2	15,6	14,4	14,9	14,9	15,2	15,6
	6H	14,3	14,7	14,8	15,1	15,7	14,3	14,7	14,8	15,1	15,7
	8H	14,3	14,6	14,8	15,1	15,8	14,3	14,6	14,8	15,1	15,8
	12H	14,3	14,5	14,9	15,0	15,6	14,3	14,5	14,9	15,0	15,6
12H	4H	14,3	14,7	14,8	15,1	15,6	14,3	14,7	14,8	15,1	15,6
	6H	14,3	14,6	14,8	15,1	15,8	14,3	14,6	14,8	15,1	15,8
	8H	14,3	14,5	14,9	15,0	15,6	14,3	14,5	14,9	15,0	15,6
Variation of the observer position for the luminaire distance S											
S = 1.0H		4,0 / -3,8					4,0 / -3,8				
S = 1.5H		6,4 / -5,0					6,4 / -5,0				
S = 2.0H		8,3 / -6,3					8,3 / -6,3				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 2908lm total luminous flux											



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