

LM-79

Test Report

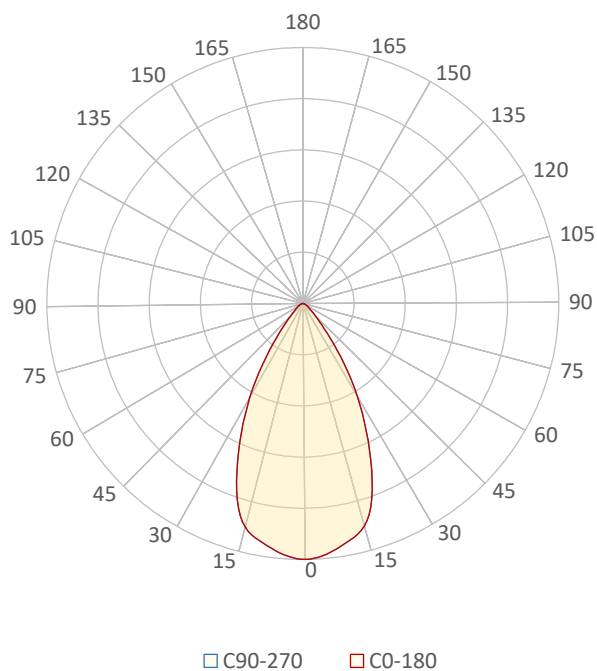
LM79-QUARTZ-RGBW-54DEG [ALL]

General Discription

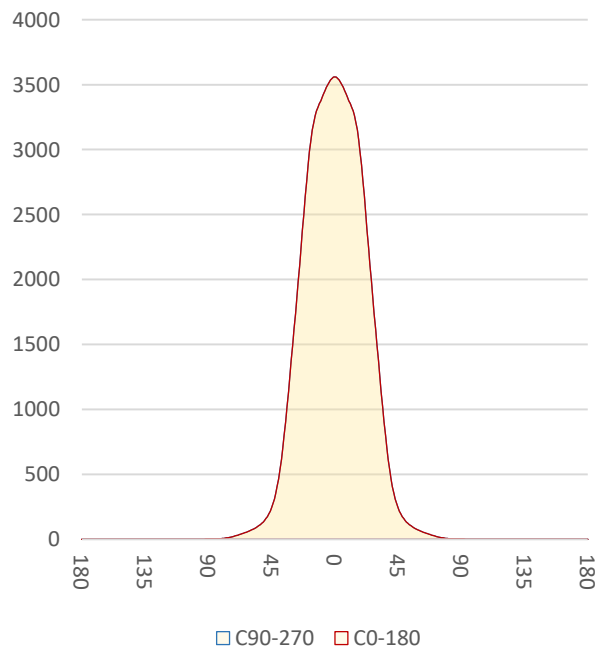
Item number	Q-XXX-C370-W
Date and time	16-4-2024 13:47:56
CCT (Kelvin)	0 K
Beam angle	55,4°
Luminous flux	3109 lm
Efficiency	39 lm/watt
Weighted energy	79,2 kWh/1000h
Power factor	0,58
CRI (RA)	0,0
Fidelity index Rf	Rf 0,0
Gammut index Rg	Rg 0,0
Peak	3560 cd



Polar diagram



Cartesian diagram



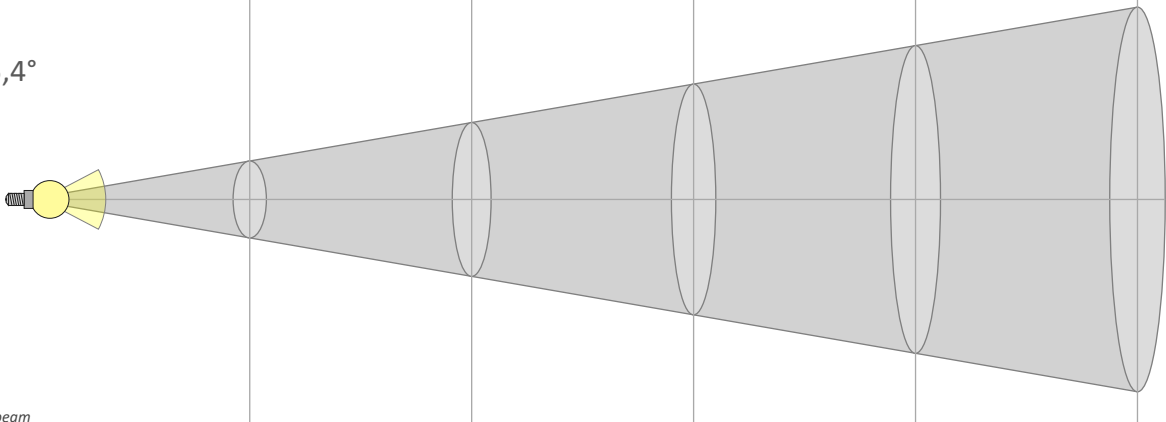
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Beam details					1m		2m		3m		4m		5m						
Lux*					3560 lx		890 lx		396 lx		222 lx		142 lx						
55,4° 																			
*measured at center of beam																			
Footcandles*					330,7 fcd		82,7 fcd		36,7 fcd		20,7 fcd		13,2 fcd						
Beam 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		13,8 ft		17,2 ft						
Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3560lx	890lx	396lx	222lx	142lx	99lx	73lx	56lx	44lx	36lx	29lx	25lx	21lx	18lx	16lx	14lx	12lx	11lx	10lx	9lx
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
330,7fcd d	82,7fcd	36,7fcd	20,7fcd	13,2fcd	9,2fcd	6,7fcd	5,2fcd	4,1fcd	3,3fcd	2,7fcd	2,3fcd	2fcd	1,7fcd	1,5fcd	1,3fcd	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°
3560	3549	3519	3479	3429	3377	3327	3259	3150	2985	2764	2509	2245	1987	1740	1498	1254	1018	801	615
100%	100%	99%	98%	96%	95%	93%	92%	89%	84%	78%	70%	63%	56%	49%	42%	35%	29%	23%	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°
3560	3549	3519	3479	3429	3377	3327	3259	3150	2985	2764	2509	2245	1987	1740	1498	1254	1018	801	615
100%	100%	99%	98%	96%	95%	93%	92%	89%	84%	78%	70%	63%	56%	49%	42%	35%	29%	23%	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°
3560	3549	3519	3479	3429	3377	3327	3259	3150	2985	2764	2509	2245	1987	1740	1498	1254	1018	801	615
100%	100%	99%	98%	96%	95%	93%	92%	89%	84%	78%	70%	63%	56%	49%	42%	35%	29%	23%	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°
3560	3549	3519	3479	3429	3377	3327	3259	3150	2985	2764	2509	2245	1987	1740	1498	1254	1018	801	615
100%	100%	99%	98%	96%	95%	93%	92%	89%	84%	78%	70%	63%	56%	49%	42%	35%	29%	23%	17%
Beam angle 50%				Field angle 10%				Cutoff angle 2,5%				Intensity ratio in 120° cone				Intensity ratio in 90° cone			
55,4°				83,9°				112,3°				97,9%				92,6%			



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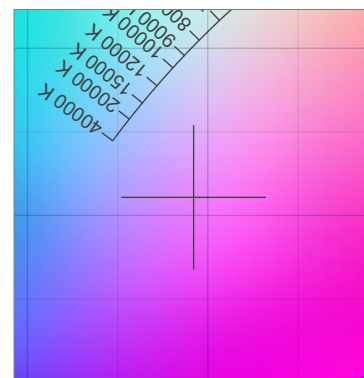
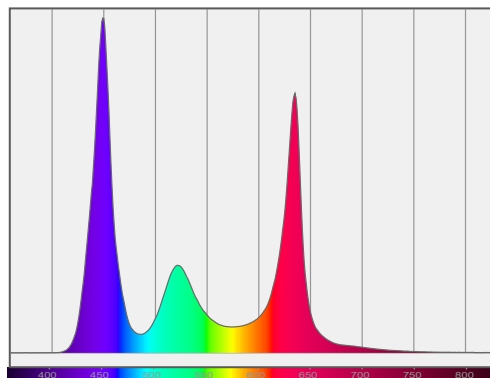
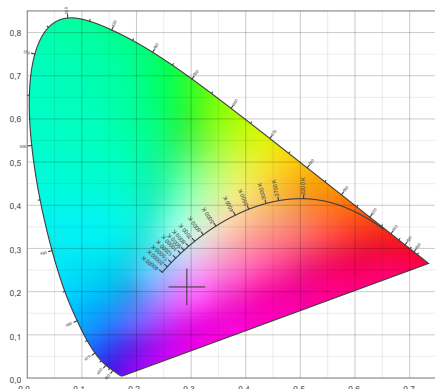
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Color details



CIE 1931

x: 0,292



Spectra

CIE 1931 ZOOM

0 K

y: 0,211

 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	0,292	0,211	0,236	0,256	n/a



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TM30 details

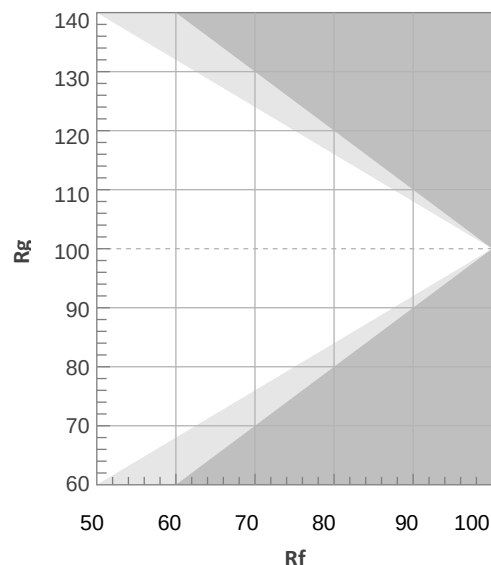
Rf 0,0

Fidelity index Rf

Rg 0,0

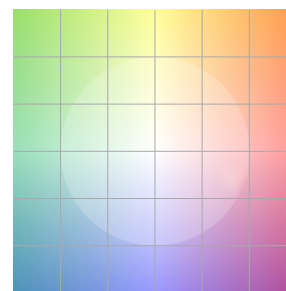
Gammut index Rg

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%



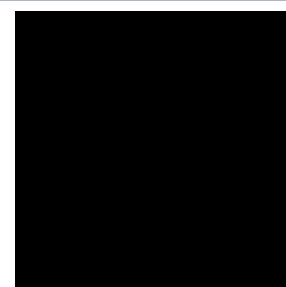
Hue binH

Color vector graphics

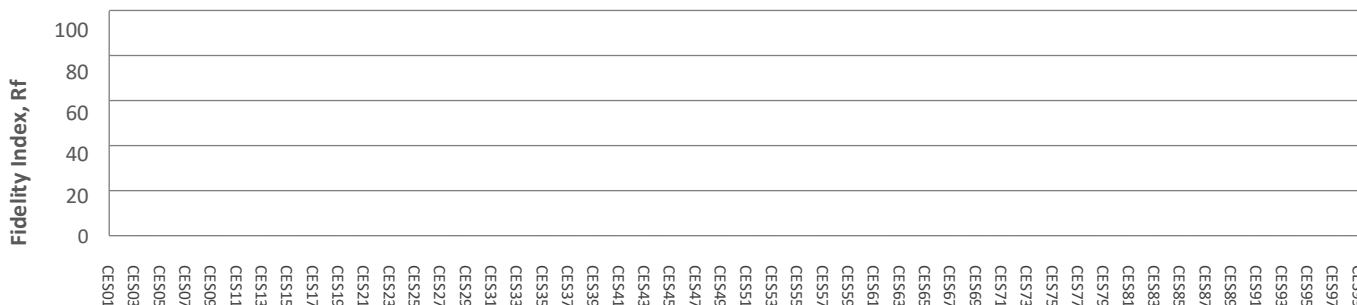


Hue bin

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	14,9	15,6	15,0	15,8	16,0	14,9	15,6	15,0	15,8	16,0
	3H	14,8	15,6	15,2	15,8	16,0	14,8	15,6	15,2	15,8	16,0
	4H	14,8	15,6	15,2	15,8	16,0	14,8	15,6	15,2	15,8	16,0
	6H	14,8	15,5	15,1	15,7	16,1	14,8	15,5	15,1	15,7	16,1
	8H	14,8	15,4	15,1	15,7	16,1	14,8	15,4	15,1	15,7	16,1
	12H	14,7	15,3	15,1	15,7	16,1	14,7	15,3	15,1	15,7	16,1
4H	2H	14,7	15,5	15,1	15,7	15,9	14,7	15,5	15,1	15,7	15,9
	3H	14,8	15,4	15,2	15,8	16,2	14,8	15,4	15,2	15,8	16,2
	4H	14,8	15,3	15,2	15,7	16,3	14,8	15,3	15,2	15,7	16,3
	6H	14,7	15,3	15,2	15,6	16,0	14,7	15,3	15,2	15,6	16,0
	8H	14,7	15,2	15,2	15,5	15,9	14,7	15,2	15,2	15,5	15,9
	12H	14,6	15,0	15,1	15,4	15,9	14,6	15,0	15,1	15,4	15,9
8H	4H	14,7	15,2	15,2	15,5	15,9	14,7	15,2	15,2	15,5	15,9
	6H	14,6	15,0	15,1	15,5	16,0	14,6	15,0	15,1	15,5	16,0
	8H	14,6	14,9	15,2	15,5	16,1	14,6	14,9	15,2	15,5	16,1
	12H	14,6	14,8	15,2	15,3	15,9	14,6	14,8	15,2	15,3	15,9
12H	4H	14,6	15,0	15,1	15,4	15,9	14,6	15,0	15,1	15,4	15,9
	6H	14,6	14,9	15,1	15,4	16,1	14,6	14,9	15,1	15,4	16,1
	8H	14,6	14,8	15,2	15,3	15,9	14,6	14,8	15,2	15,3	15,9
Variation of the observer position for the luminaire distance S											
S = 1.0H		4,0 / -3,9					4,0 / -3,9				
S = 1.5H		6,4 / -5,1					6,4 / -5,1				
S = 2.0H		8,3 / -6,4					8,3 / -6,4				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 3109lm total luminous flux											



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