

LM-79

Test Report

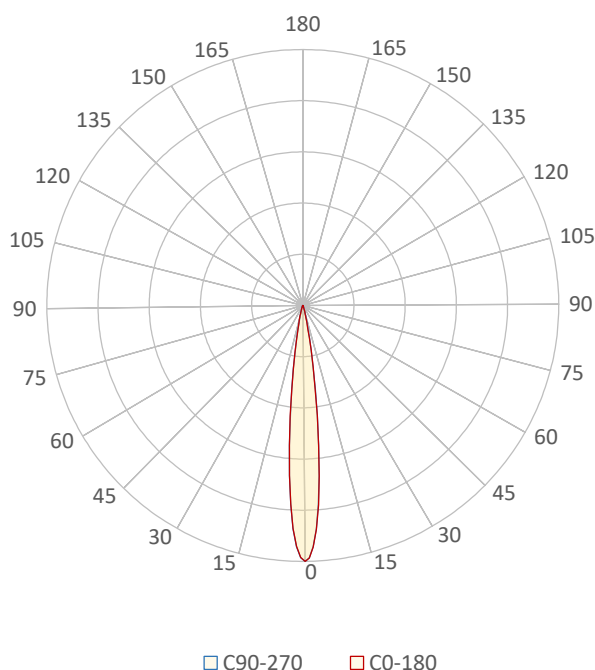
LM79-QUARTZ-RGBW-12DEG [ALL]

General Discription

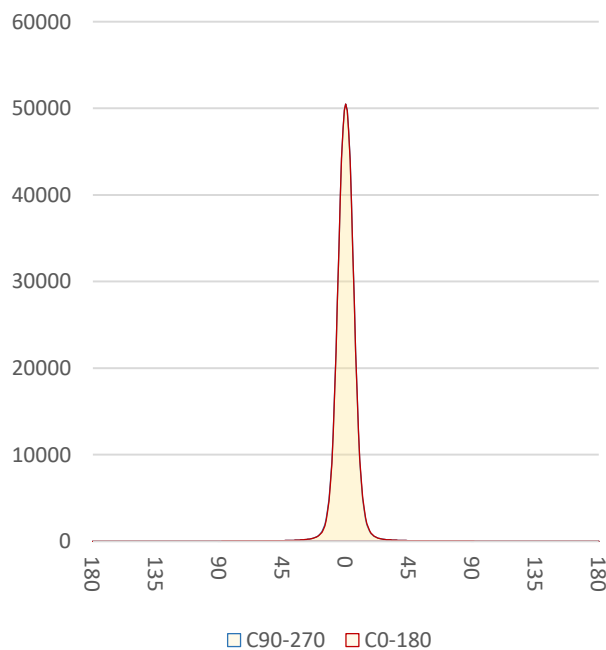
Item number	Q-XXX-C370-S
Date and time	16-4-2024 12:29:36
CCT (Kelvin)	0 K
Beam angle	12,8°
Luminous flux	3439 lm
Efficiency	44 lm/watt
Weighted energy	78,3 kWh/1000h
Power factor	0,58
CRI (RA)	0,0
Fidelity index Rf	Rf 0,0
Gammut index Rg	Rg 0,0
Peak	50513 cd



Polar diagram



Cartesian diagram



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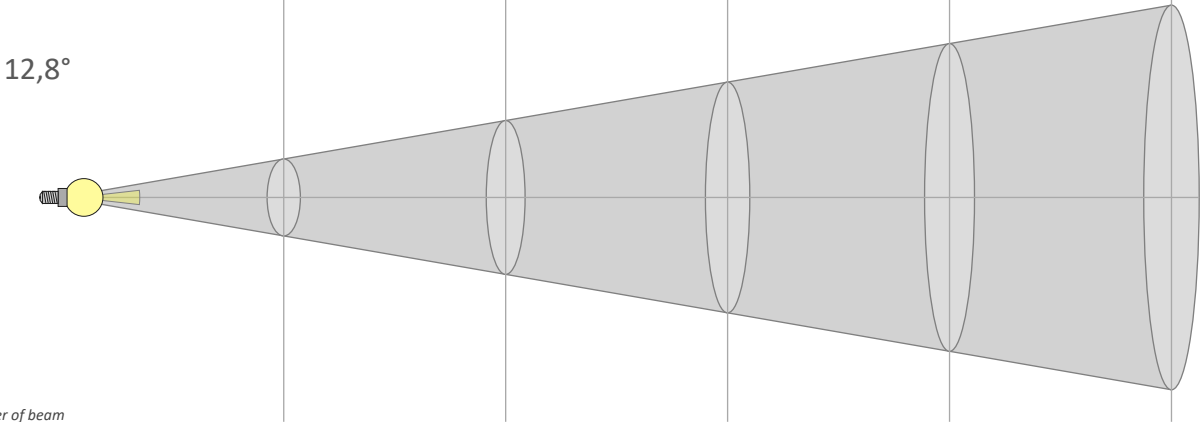
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Beam details	1m	2m	3m	4m	5m
Lux*	50495 lx	12624 lx	5611 lx	3156 lx	2020 lx



12,8°

*measured at center of beam

Footcandles*	4691,2 fcd	1172,8 fcd	521,2 fcd	293,2 fcd	187,6 fcd
Beam width (meter)	0,2 m	0,4 m	0,7 m	0,9 m	1,1 m
Beam width (Feet)	0,7 ft	1,5 ft	2,2 ft	2,9 ft	3,7 ft

Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
50495lx	12624lx	5611lx	3156lx	2020lx	1403lx	1031lx	789lx	623lx	505lx	417lx	351lx	299lx	258lx	224lx	197lx	175lx	156lx	140lx	126lx
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
4691,2fcd	1172,8fcd	521,2fcd	293,2fcd	187,6fcd	130,3fcd	95,7fcd	73,3fcd	57,9fcd	46,9fcd	38,8fcd	32,6fcd	27,8fcd	23,9fcd	20,8fcd	18,3fcd	16,2fcd	14,5fcd	13fcd	11,7fcd

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°
50,5K	49,8K	47,7K	44,3K	39,5K	33,8K	27,8K	21,8K	16,6K	12,3K	9,0K	6,5K	4,6K	3,3K	2,4K	1,8K	1,3K	1,0K	0,8K	0,7K
100%	99%	95%	88%	78%	67%	55%	43%	33%	24%	18%	13%	9%	7%	5%	4%	3%	2%	2%	1%

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°
50,5K	49,8K	47,7K	44,3K	39,5K	33,8K	27,8K	21,8K	16,6K	12,3K	9,0K	6,5K	4,6K	3,3K	2,4K	1,8K	1,3K	1,0K	0,8K	0,7K
100%	99%	95%	88%	78%	67%	55%	43%	33%	24%	18%	13%	9%	7%	5%	4%	3%	2%	2%	1%

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°
50,5K	49,7K	47,5K	44,0K	39,2K	33,6K	27,7K	22,0K	16,9K	12,7K	9,4K	7,0K	5,1K	3,8K	2,8K	2,1K	1,6K	1,2K	0,9K	0,8K
100%	98%	94%	87%	78%	67%	55%	43%	34%	25%	19%	14%	10%	7%	5%	4%	3%	2%	2%	2%

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°
50,5K	49,7K	47,5K	44,0K	39,2K	33,6K	27,7K	22,0K	16,9K	12,7K	9,4K	7,0K	5,1K	3,8K	2,8K	2,1K	1,6K	1,2K	0,9K	0,8K
100%	98%	94%	87%	78%	67%	55%	43%	34%	25%	19%	14%	10%	7%	5%	4%	3%	2%	2%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
12,8°	23,8°	33,1°	97,8%	95,6%



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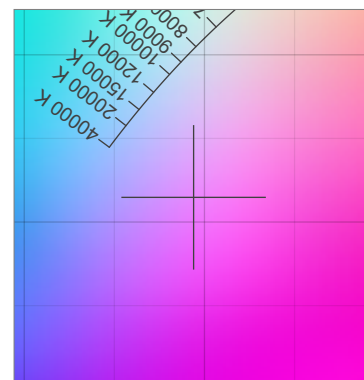
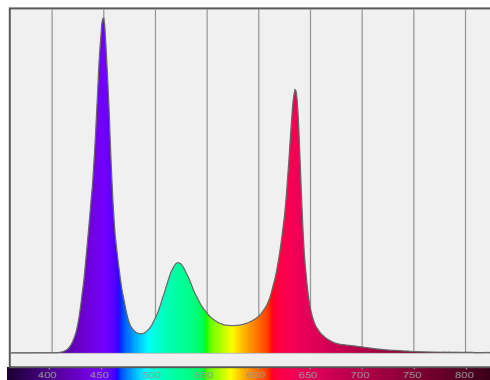
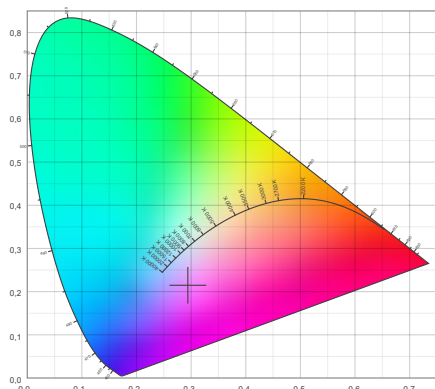
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Color details



CIE 1931

x: 0,294



Spectra

CIE 1931 ZOOM

0 K

y: 0,215

 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	0,294	0,215	0,236	0,258	n/a



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TM30 details

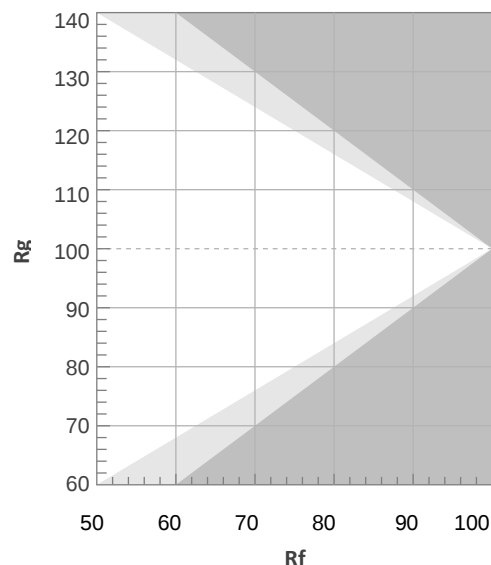
Rf 0,0

Fidelity index Rf

Rg 0,0

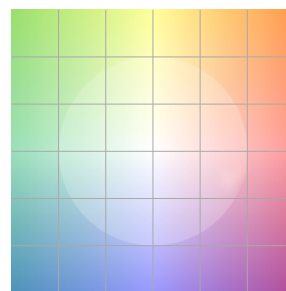
Gammut index Rg

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%



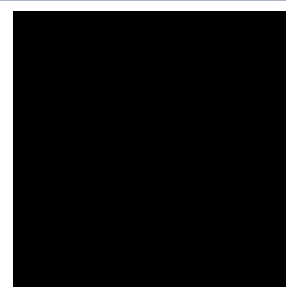
Hue binH

Color vector graphics

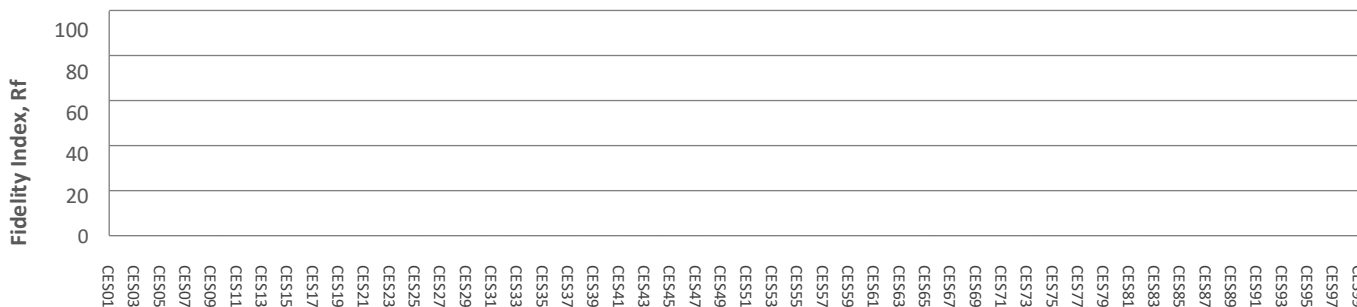


Hue bin

Color distortion graphics



Color Evaluation Sample



Test Report

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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				
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Variation of the observer position for the luminaire distance S										
n/a	n/a					n/a				
n/a	n/a					n/a				
n/a	n/a					n/a				
Standard table	n/a					n/a				
Correction summand	n/a					n/a				
Corrected glare indices referring to 3439lm total luminous flux										



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