

# LM-79

## Test Report

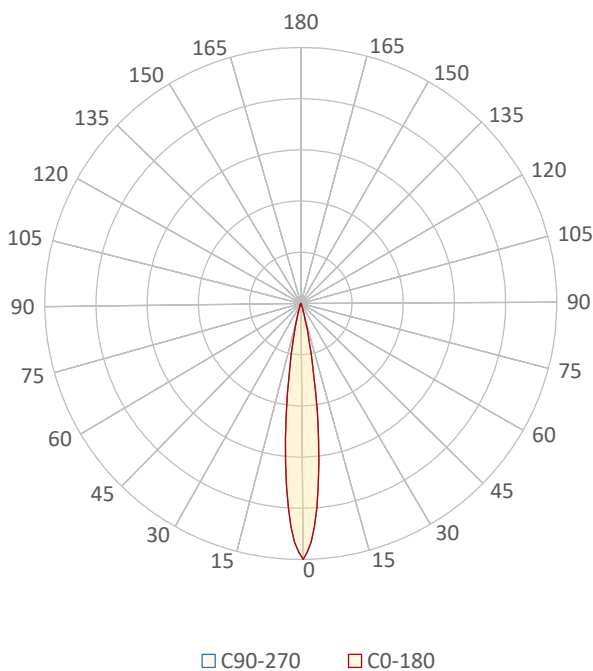
# LM79-QUARTZ-RGBA-12DEG [ALL]

### General Description

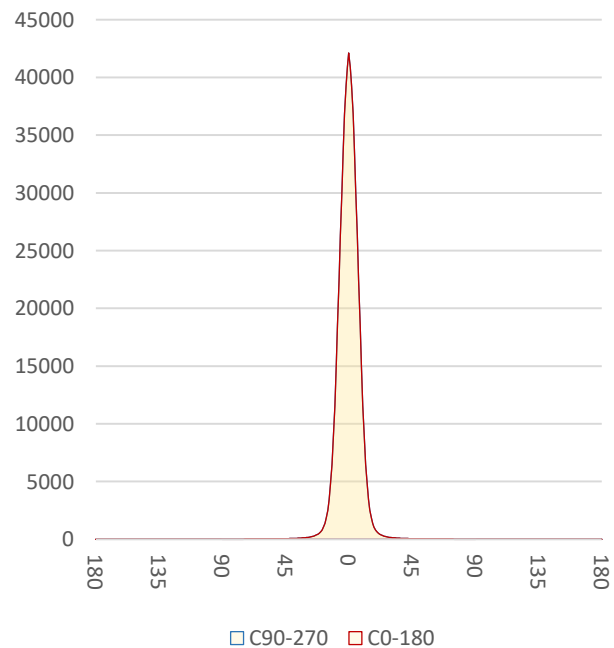
Item number	Q-XXX-CA70-S
Date and time	24-2-2023 14:29:43
CCT (Kelvin)	0 K
Beam angle	14,7°
Luminous flux	3453 lm
Efficiency	50 lm/watt
Weighted energy	68,9 kWh/1000h
Power factor	0,58
CRI (RA)	0,0
Fidelity index Rf	Rf 0,0
Gammut index Rg	Rg 0,0
Peak	42122 cd



Polar diagram



Cartesian diagram



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Beam details	1m	2m	3m	4m	5m														
Lux*	42122 lx	10530 lx	4680 lx	2633 lx	1685 lx														
*measured at center of beam																			
Footcandles*	3913,3 fcd	978,3 fcd	434,8 fcd	244,6 fcd	156,5 fcd														
Beam width (meter)	0,3 m	0,5 m	0,8 m	1 m	1,3 m														
Beam width (Feet)	0,8 ft	1,7 ft	2,5 ft	3,4 ft	4,2 ft														
<b>Beam intensities</b>																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
42122lx	10530lx	4680lx	2633lx	1685lx	1170lx	860lx	658lx	520lx	421lx	348lx	293lx	249lx	215lx	187lx	165lx	146lx	130lx	117lx	105lx
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
3913,3fcd	978,3fcd	434,8fcd	244,6fcd	156,5fcd	108,7fcd	79,9fcd	61,1fcd	48,3fcd	39,1fcd	32,3fcd	27,2fcd	23,2fcd	20fcd	17,4fcd	15,3fcd	13,5fcd	12,1fcd	10,8fcd	9,8fcd
<b>Intensities in 0° c-plane</b>																			
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
42,1K	40,9K	39,3K	36,8K	33,7K	30,2K	26,3K	22,4K	18,5K	14,9K	11,5K	8,8K	6,5K	4,7K	3,4K	2,5K	1,8K	1,4K	1,0K	0,8K
100%	97%	93%	87%	80%	72%	63%	53%	44%	35%	27%	21%	15%	11%	8%	6%	4%	3%	2%	2%
<b>Intensities in 90° c-plane</b>																			
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
42,1K	40,9K	39,3K	36,8K	33,7K	30,2K	26,3K	22,4K	18,5K	14,9K	11,5K	8,8K	6,5K	4,7K	3,4K	2,5K	1,8K	1,4K	1,0K	0,8K
100%	97%	93%	87%	80%	72%	63%	53%	44%	35%	27%	21%	15%	11%	8%	6%	4%	3%	2%	2%
<b>Intensities in 180° c-plane</b>																			
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
42,1K	40,9K	39,3K	36,8K	33,7K	30,2K	26,3K	22,4K	18,5K	14,9K	11,5K	8,8K	6,5K	4,7K	3,4K	2,5K	1,8K	1,4K	1,0K	0,8K
100%	97%	93%	87%	80%	72%	63%	53%	44%	35%	27%	21%	15%	11%	8%	6%	4%	3%	2%	2%
<b>Intensities in 270° c-plane</b>																			
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
42,1K	40,9K	39,3K	36,8K	33,7K	30,2K	26,3K	22,4K	18,5K	14,9K	11,5K	8,8K	6,5K	4,7K	3,4K	2,5K	1,8K	1,4K	1,0K	0,8K
100%	97%	93%	87%	80%	72%	63%	53%	44%	35%	27%	21%	15%	11%	8%	6%	4%	3%	2%	2%
Beam angle 50%		Field angle 10%				Cutoff angle 2,5%				Intensity ratio in 120° cone				Intensity ratio in 90° cone					
14,7°		26,8°				35,9°				99,0%				97,6%					



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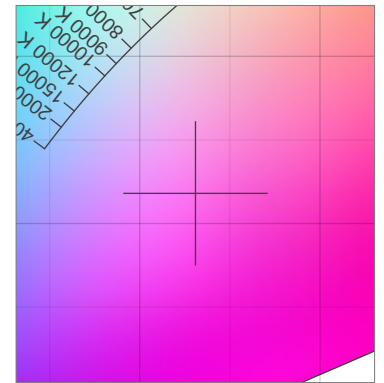
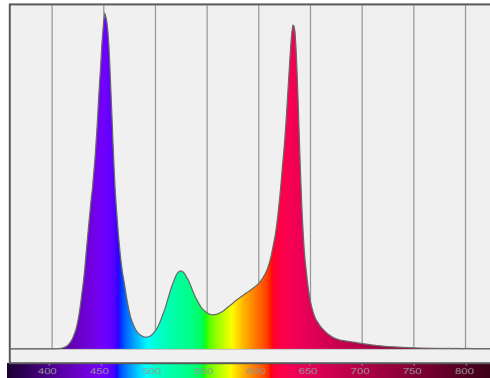
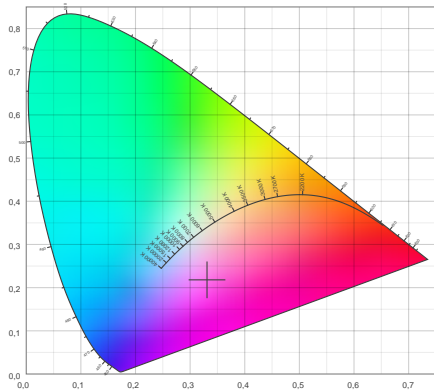
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## Test Report

# LM79-QUARTZ-RGBA-12DEG [ALL]

### Color details



CIE 1931

x: 0,331



Spectra

CIE 1931 ZOOM

0 K

y: 0,218

$\Delta uv$ : 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	$\Delta uv$
0 K	0,0	0,0	0,0	0,0	0,0	0,331	0,218	0,267	0,264	n/a



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## Test Report

# LM79-QUARTZ-RGBA-12DEG [ALL]

### TM30 details

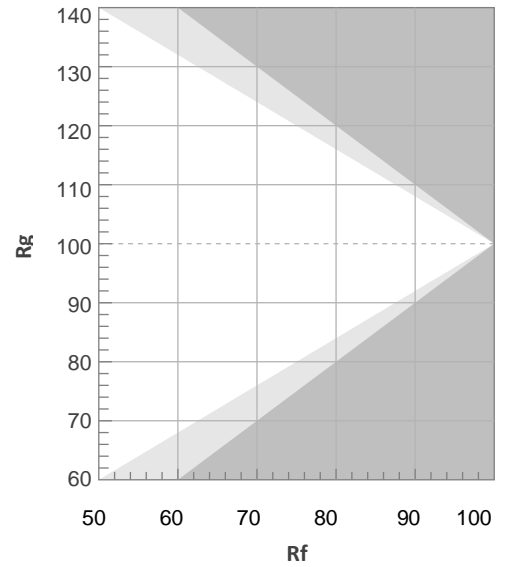
Rf 0,0

Fidelity index Rf

Rg 0,0

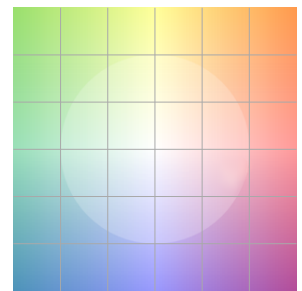
Gamut index Rg

Hue Bin	R <sub>f</sub>	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%



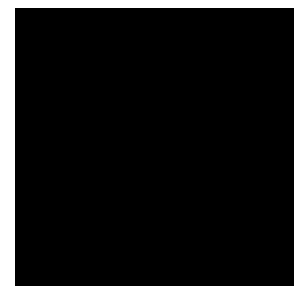
### Hue binH

### Color vector graphics

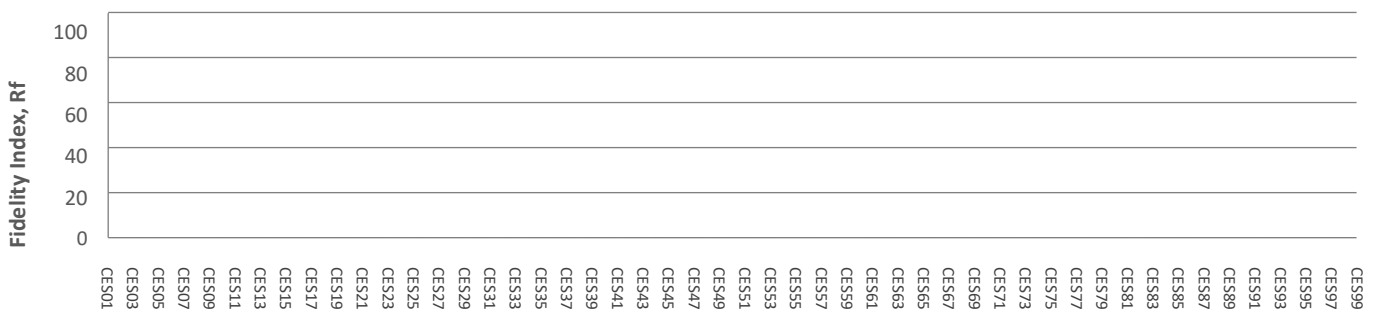


### Hue bin

### 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	3,7	4,0	3,8	4,2	4,4	3,7	4,0	3,8	4,2	4,4
	3H	4,3	4,8	4,7	5,0	5,1	4,3	4,8	4,7	5,0	5,1
	4H	4,5	5,0	4,9	5,2	5,4	4,5	5,0	4,9	5,2	5,4
	6H	4,7	5,0	5,0	5,4	5,7	4,7	5,0	5,0	5,4	5,7
	8H	4,7	5,1	5,0	5,4	5,8	4,7	5,1	5,0	5,4	5,8
	12H	4,7	5,1	5,1	5,4	5,9	4,7	5,1	5,1	5,4	5,9
4H	2H	3,9	4,4	4,3	4,6	4,8	3,9	4,4	4,3	4,6	4,8
	3H	4,8	5,2	5,1	5,5	5,9	4,8	5,2	5,1	5,5	5,9
	4H	5,0	5,3	5,4	5,7	6,2	5,0	5,3	5,4	5,7	6,2
	6H	5,1	5,6	5,6	5,9	6,2	5,1	5,6	5,6	5,9	6,2
	8H	5,2	5,6	5,7	5,9	6,3	5,2	5,6	5,7	5,9	6,3
	12H	5,2	5,5	5,7	5,9	6,4	5,2	5,5	5,7	5,9	6,4
8H	4H	5,0	5,4	5,5	5,7	6,1	5,0	5,4	5,5	5,7	6,1
	6H	5,2	5,5	5,7	5,9	6,5	5,2	5,5	5,7	5,9	6,5
	8H	5,4	5,6	5,9	6,1	6,7	5,4	5,6	5,9	6,1	6,7
	12H	5,5	5,7	6,1	6,2	6,8	5,5	5,7	6,1	6,2	6,8
12H	4H	4,9	5,2	5,4	5,6	6,1	4,9	5,2	5,4	5,6	6,1
	6H	5,3	5,5	5,8	6,0	6,6	5,3	5,5	5,8	6,0	6,6
	8H	5,4	5,6	6,0	6,1	6,7	5,4	5,6	6,0	6,1	6,7
Variation of the observer position for the luminaire distance S											
S = 1.0H	0,6 / -0,5					0,6 / -0,5					
S = 1.5H	1,5 / -0,9					1,5 / -0,9					
S = 2.0H	2,4 / -1,6					2,4 / -1,6					
Standard table	n/a					n/a					
Correction summand	n/a					n/a					
Corrected glare indices referring to 3453lm total luminous flux											



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