

LM-79

Test Report

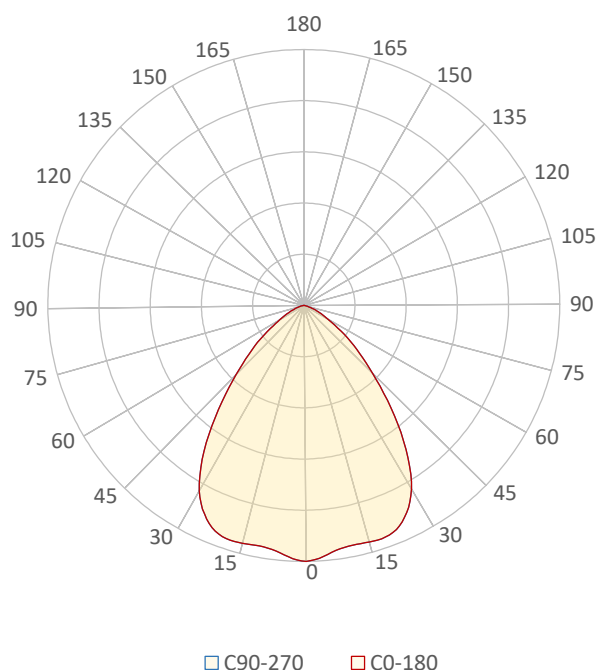
LM79-QUARTZ-RGBW-80DEG [ALL]

General Discription

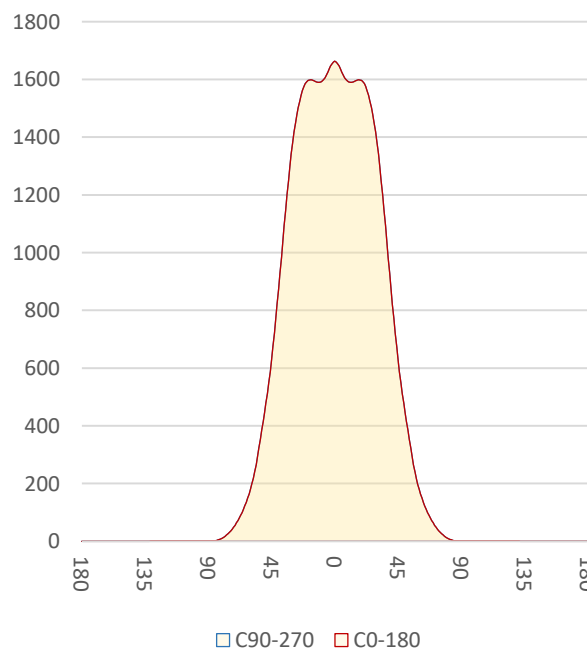
Item number	Q-XXX-C370-F
Date and time	16-4-2024 14:28:56
CCT (Kelvin)	0 K
Beam angle	81,6°
Luminous flux	2926 lm
Efficiency	38 lm/watt
Weighted energy	76,9 kWh/1000h
Power factor	0,58
CRI (RA)	0,0
Fidelity index Rf	Rf 0,0
Gammut index Rg	Rg 0,0
Peak	1663 cd



Polar diagram



Cartesian diagram



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Beam details	1m	2m	3m	4m	5m
Lux*	1663 lx	416 lx	185 lx	104 lx	67 lx

81,6°

*measured at center of beam

Footcandles*	154,5 fcd	38,6 fcd	17,2 fcd	9,7 fcd	6,2 fcd
Beam width (meter)	1,7 m	3,5 m	5,2 m	6,9 m	8,6 m
Beam width (Feet)	5,7 ft	11,3 ft	17 ft	22,7 ft	28,3 ft

Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
1663lx	416lx	185lx	104lx	67lx	46lx	34lx	26lx	21lx	17lx	14lx	12lx	10lx	8lx	7lx	6lx	6lx	5lx	5lx	4lx
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
154,5fcd	38,6fcd	17,2fcd	9,7fcd	6,2fcd	4,3fcd	3,2fcd	2,4fcd	1,9fcd	1,5fcd	1,3fcd	1,1fcd	0,9fcd	0,8fcd	0,7fcd	0,6fcd	0,5fcd	0,5fcd	0,4fcd	0,4fcd

Intensities in 0° c-plane																			
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
1663	1625	1591	1595	1592	1525	1382	1147	875	630	446	294	180	111	64	31	11	2	1	1
100%	98%	96%	96%	96%	92%	83%	69%	53%	38%	27%	18%	11%	7%	4%	2%	1%	0%	0%	0%

Intensities in 90° c-plane																			
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
1663	1625	1591	1595	1592	1525	1382	1147	875	630	446	294	180	111	64	31	11	2	1	1
100%	98%	96%	96%	96%	92%	83%	69%	53%	38%	27%	18%	11%	7%	4%	2%	1%	0%	0%	0%

Intensities in 180° c-plane																			
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
1663	1625	1591	1595	1592	1525	1382	1147	875	630	446	294	180	111	64	31	11	2	1	1
100%	98%	96%	96%	96%	92%	83%	69%	53%	38%	27%	18%	11%	7%	4%	2%	1%	0%	0%	0%

Intensities in 270° c-plane																			
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
1663	1625	1591	1595	1592	1525	1382	1147	875	630	446	294	180	111	64	31	11	2	1	1
100%	98%	96%	96%	96%	92%	83%	69%	53%	38%	27%	18%	11%	7%	4%	2%	1%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
81,6°	121,7°	146,1°	94,7%	78,2%



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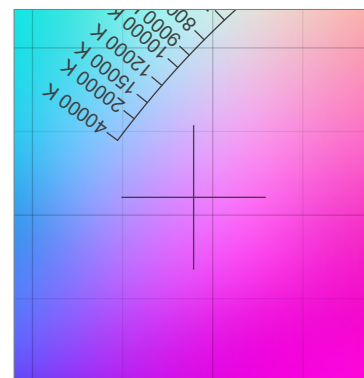
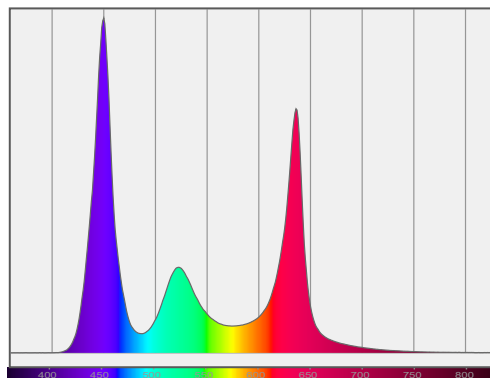
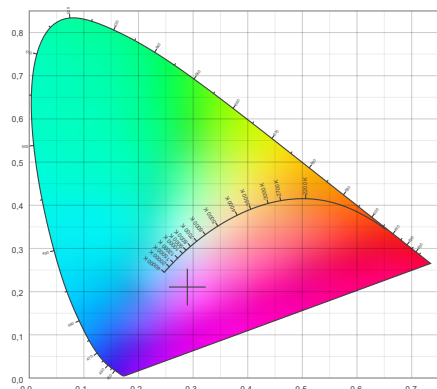
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Color details



CIE 1931

x: 0,289

0 K

y: 0,211

Spectra

CIE 1931 ZOOM

 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
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
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
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	0,289	0,211	0,234	0,255	n/a



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TM30 details

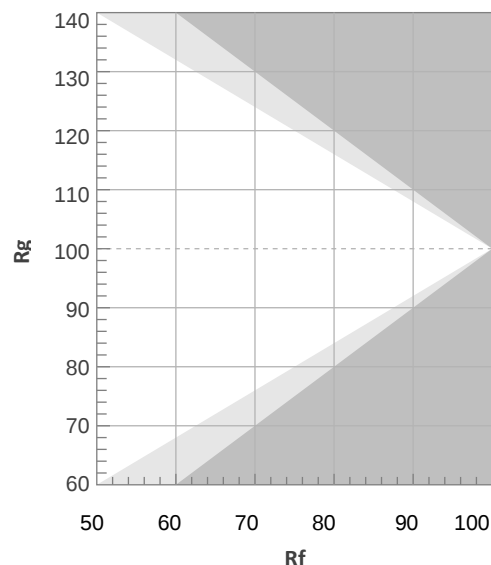
Rf 0,0

Fidelity index Rf

Rg 0,0

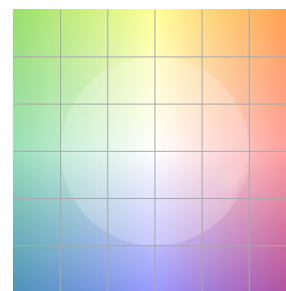
Gammut index Rg

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%



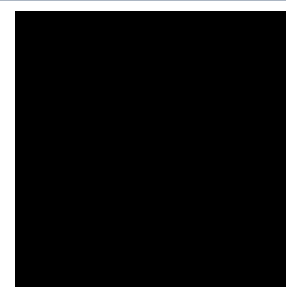
Hue binH

Color vector graphics

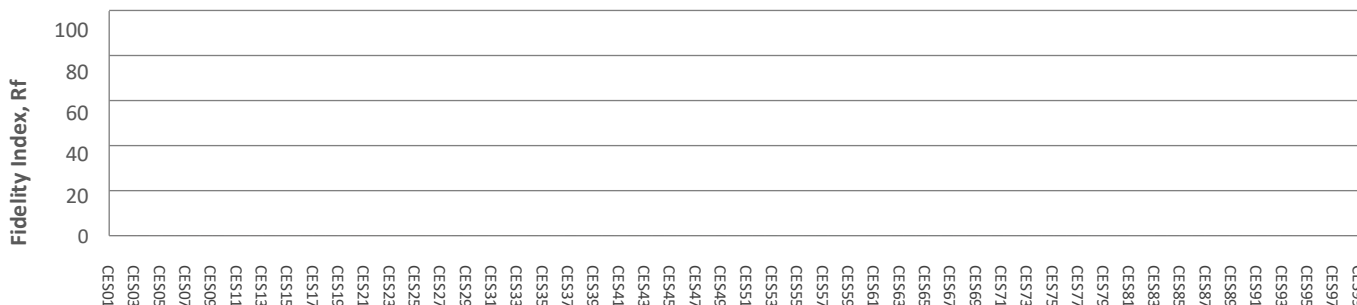


Hue bin

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	19,6	20,5	19,8	20,8	21,0	19,6	20,5	19,8	20,8	21,0
	3H	19,6	20,6	20,0	20,8	21,0	19,6	20,6	20,0	20,8	21,0
	4H	19,6	20,5	20,0	20,8	21,0	19,6	20,5	20,0	20,8	21,0
	6H	19,6	20,4	19,9	20,7	21,1	19,6	20,4	19,9	20,7	21,1
	8H	19,6	20,3	19,9	20,7	21,1	19,6	20,3	19,9	20,7	21,1
	12H	19,5	20,3	19,9	20,6	21,0	19,5	20,3	19,9	20,6	21,0
4H	2H	19,5	20,5	19,9	20,7	21,0	19,5	20,5	19,9	20,7	21,0
	3H	19,8	20,5	20,1	20,8	21,3	19,8	20,5	20,1	20,8	21,3
	4H	19,7	20,4	20,1	20,8	21,3	19,7	20,4	20,1	20,8	21,3
	6H	19,6	20,3	20,1	20,7	21,0	19,6	20,3	20,1	20,7	21,0
	8H	19,6	20,2	20,1	20,6	20,9	19,6	20,2	20,1	20,6	20,9
	12H	19,5	20,1	20,0	20,5	20,9	19,5	20,1	20,0	20,5	20,9
8H	4H	19,6	20,2	20,1	20,6	21,0	19,6	20,2	20,1	20,6	21,0
	6H	19,6	20,0	20,1	20,5	21,0	19,6	20,0	20,1	20,5	21,0
	8H	19,6	20,0	20,1	20,5	21,1	19,6	20,0	20,1	20,5	21,1
	12H	19,5	19,8	20,1	20,3	20,9	19,5	19,8	20,1	20,3	20,9
12H	4H	19,6	20,1	20,0	20,5	20,9	19,6	20,1	20,0	20,5	20,9
	6H	19,6	19,9	20,1	20,5	21,1	19,6	19,9	20,1	20,5	21,1
	8H	19,5	19,8	20,1	20,3	21,0	19,5	19,8	20,1	20,3	21,0

Variation of the observer position for the luminaire distance S

S = 1.0H	1,1 / -1,7	1,1 / -1,7
S = 1.5H	2,6 / -3,9	2,6 / -3,9
S = 2.0H	4,2 / -5,8	4,2 / -5,8
Standard table	n/a	n/a
Correction summand	n/a	n/a

Corrected glare indices referring to 2926lm total luminous flux



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