

LM-79

Test Report

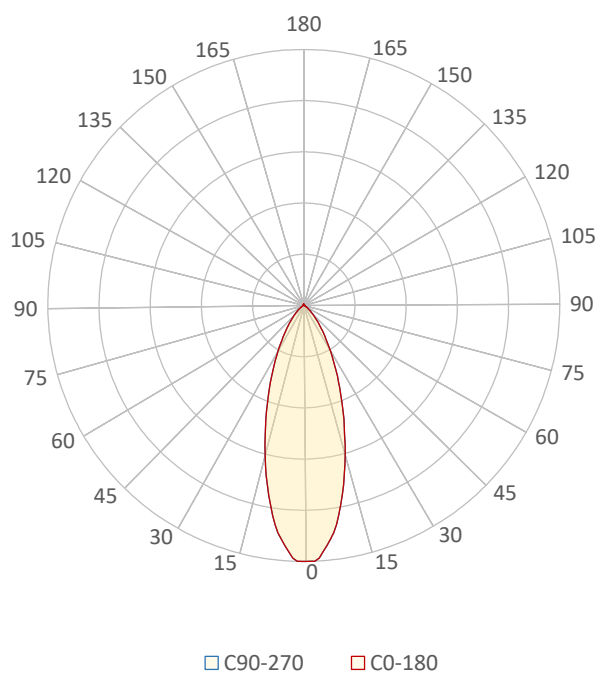
LM79-CLS-LON-BRACKET-RGBA-DEG25

General Discription

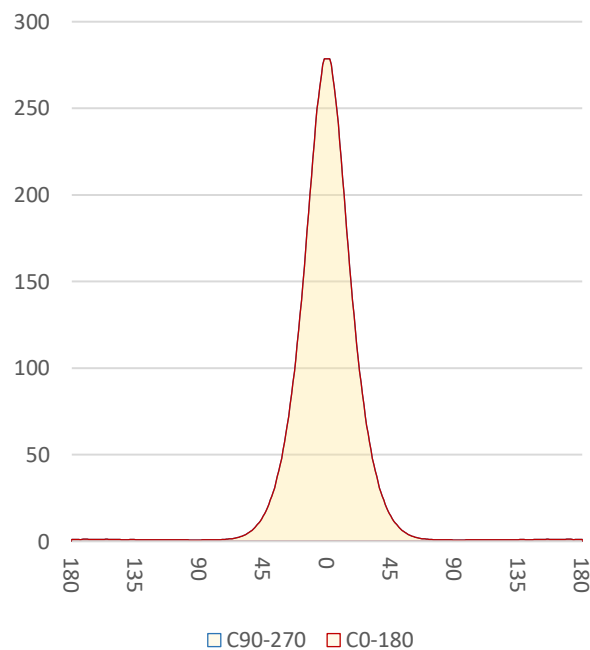
Item number	122022
Date and time	19-6-2017 13:46:50
CCT (Kelvin)	0 K
Beam angle	36°
Luminous flux	158 lm
Efficiency	20 lm/watt
Weighted energy	7,7 kWh/1000h
Power factor	0,6
CRI (RA)	0,0
Fidelity index Rf	Rf 0,0
Gammut index Rg	Rg 0,0
Peak	279 cd



Polar diagram



Cartesian diagram



CLS LED BV
info@cls-led.com
www.cls-led.com

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Beam details	1m	2m	3m	4m	5m
Lux*	279 lx	70 lx	31 lx	17 lx	11 lx

36°

*measured at center of beam

Footcandles*	25,9 fcd	6,5 fcd	2,9 fcd	1,6 fcd	1,0 fcd
Beam width (meter)	0,6 m	1,3 m	1,9 m	2,6 m	3,2 m
Beam width (Feet)	2,1 ft	4,3 ft	6,4 ft	8,5 ft	10,6 ft

Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
279lx	70lx	31lx	17lx	11lx	8lx	6lx	4lx	3lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx
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
25,9fcd	6,5fcd	2,9fcd	1,6fcd	1fcd	0,7fcd	0,5fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd

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°
279	279	269	256	241	220	200	179	159	139	122	105	92	79	67	57	48	41	34	28
100%	100%	96%	92%	86%	79%	72%	64%	57%	50%	44%	38%	33%	28%	24%	21%	17%	15%	12%	10%

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°
279	279	269	256	241	220	200	179	159	139	122	105	92	79	67	57	48	41	34	28
100%	100%	96%	92%	86%	79%	72%	64%	57%	50%	44%	38%	33%	28%	24%	21%	17%	15%	12%	10%

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°
279	279	269	256	241	220	200	179	159	139	122	105	92	79	67	57	48	41	34	28
100%	100%	96%	92%	86%	79%	72%	64%	57%	50%	44%	38%	33%	28%	24%	21%	17%	15%	12%	10%

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°
279	279	269	256	241	220	200	179	159	139	122	105	92	79	67	57	48	41	34	28
100%	100%	96%	92%	86%	79%	72%	64%	57%	50%	44%	38%	33%	28%	24%	21%	17%	15%	12%	10%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
36°	76,4°	104°	93,9%	88,2%



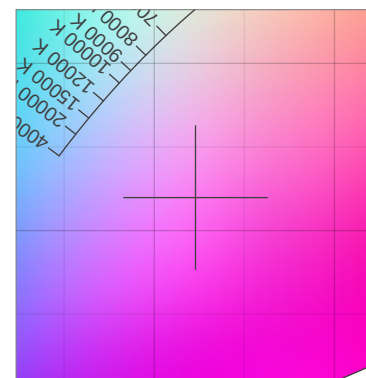
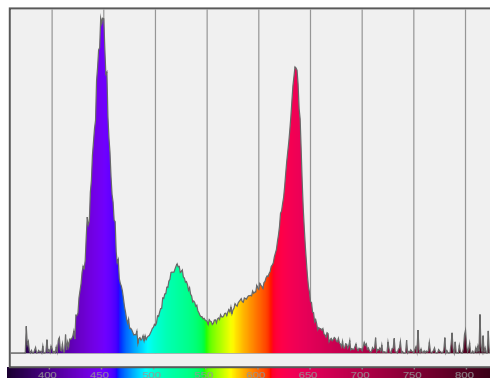
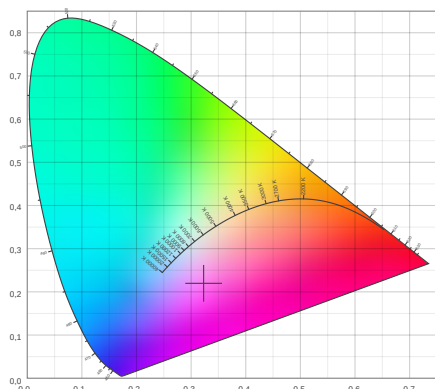
CLS LED BV
 info@cls-led.com
 www.cls-led.com

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Color details



<i>CIE 1931</i>	x: 0,323		Spectra	<i>CIE 1931 ZOOM</i>
0 K	y: 0,220			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	
																R1	R2	R3	R4	R5	R6	R7	R8

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	
																Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8

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	
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16	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 diviation 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	0,323	0,220	0,259	0,264	n/a



CLS LED BV
info@cls-led.com
www.cls-led.com

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TM30 details

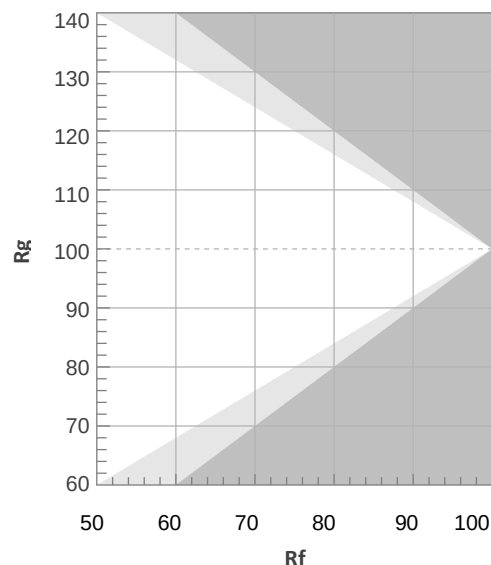
Rf 0,0

Fidelity index Rf

Rg 0,0

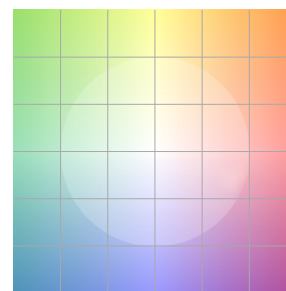
Gammut index Rg

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%



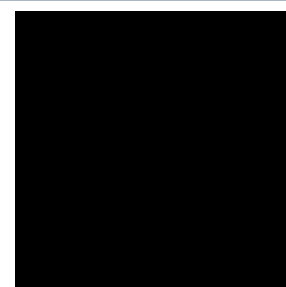
Hue binH

Color vector graphics

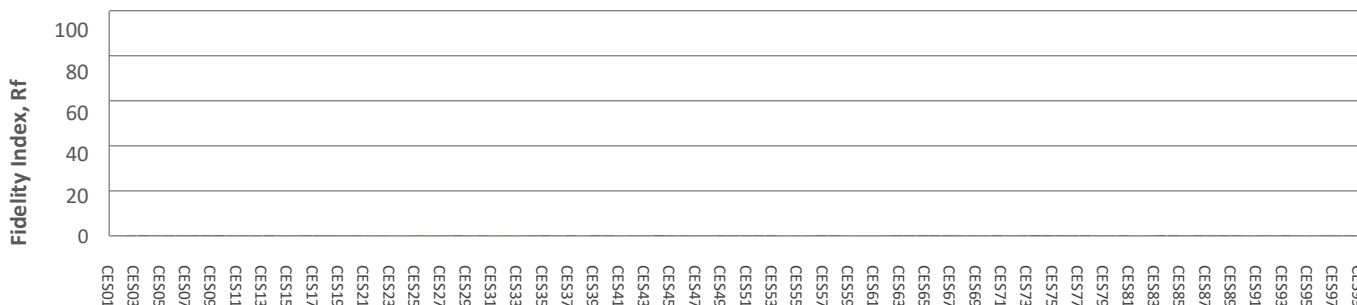


Hue bin

Color distortion graphics



Color Evaluation Sample



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	26,4	27,1	26,7	27,4	27,6	26,4	27,1	26,7	27,4	27,6
	3H	26,4	27,1	26,8	27,4	27,7	26,4	27,1	26,8	27,4	27,7
	4H	26,5	27,1	26,8	27,4	27,8	26,5	27,1	26,8	27,4	27,8
	6H	26,6	27,2	26,9	27,5	27,9	26,6	27,2	26,9	27,5	27,9
	8H	26,7	27,2	27,1	27,6	28,0	26,7	27,2	27,1	27,6	28,0
	12H	26,9	27,4	27,3	27,8	28,2	26,9	27,4	27,3	27,8	28,2
4H	2H	26,3	26,9	26,7	27,3	27,6	26,3	26,9	26,7	27,3	27,6
	3H	26,4	27,0	26,8	27,3	27,7	26,4	27,0	26,8	27,3	27,7
	4H	26,5	27,0	27,0	27,4	27,8	26,5	27,0	27,0	27,4	27,8
	6H	26,7	27,1	27,2	27,6	28,0	26,7	27,1	27,2	27,6	28,0
	8H	27,0	27,3	27,4	27,8	28,2	27,0	27,3	27,4	27,8	28,2
	12H	27,3	27,6	27,8	28,1	28,6	27,3	27,6	27,8	28,1	28,6
8H	4H	26,5	26,9	27,0	27,3	27,8	26,5	26,9	27,0	27,3	27,8
	6H	26,9	27,1	27,4	27,6	28,1	26,9	27,1	27,4	27,6	28,1
	8H	27,2	27,4	27,7	28,0	28,5	27,2	27,4	27,7	28,0	28,5
	12H	27,7	27,9	28,3	28,5	29,0	27,7	27,9	28,3	28,5	29,0
12H	4H	26,5	26,8	27,0	27,3	27,8	26,5	26,8	27,0	27,3	27,8
	6H	26,9	27,1	27,4	27,6	28,2	26,9	27,1	27,4	27,6	28,2
	8H	27,3	27,5	27,9	28,0	28,6	27,3	27,5	27,9	28,0	28,6
Variation of the observer position for the luminaire distance S											
S = 1,0H		+1,7 / -1,6					+1,7 / -1,6				
S = 1,5H		+3,6 / -2,5					+3,6 / -2,5				
S = 2,0H		+5,4 / -3,2					+5,4 / -3,2				
Standard table		BK02					BK02				
Correction summand		9,5					9,5				
Corrected glare indices referring to 158lm total luminous flux											

