

LM-79

Test Report

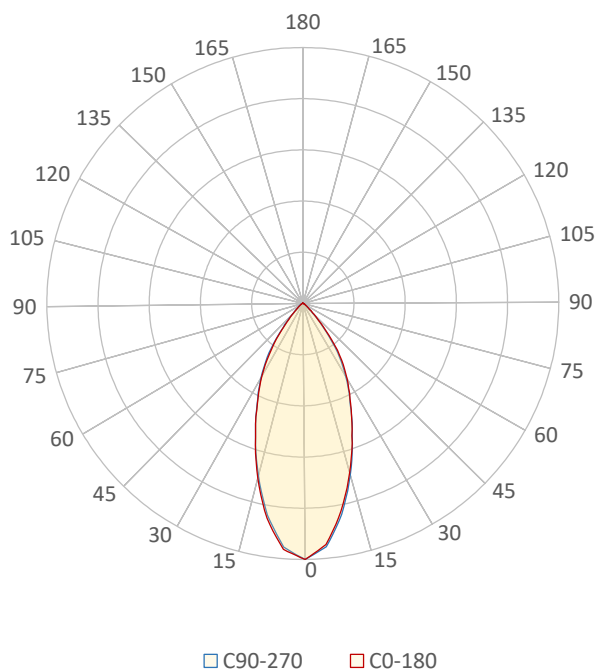
LM79-JADE-TW27-50-MEDIUM (5000K)

General Discription

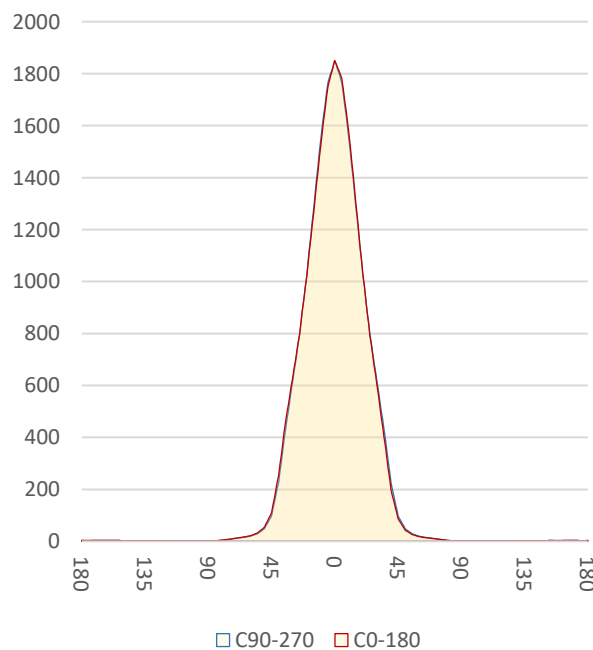
Item number	
Date and time	10-4-2018 09:26:36
CCT (Kelvin)	4844 K
Beam angle	44,2°
Luminous flux	1296 lm
Efficiency	82 lm/watt
Weighted energy	15,7 kWh/1000h
Power factor	0,58
CRI (RA)	73,6
Fidelity index Rf	Rf 73,2
Gammut index Rg	Rg 97,4
Peak	1857 cd



Polar diagram



Cartesian diagram



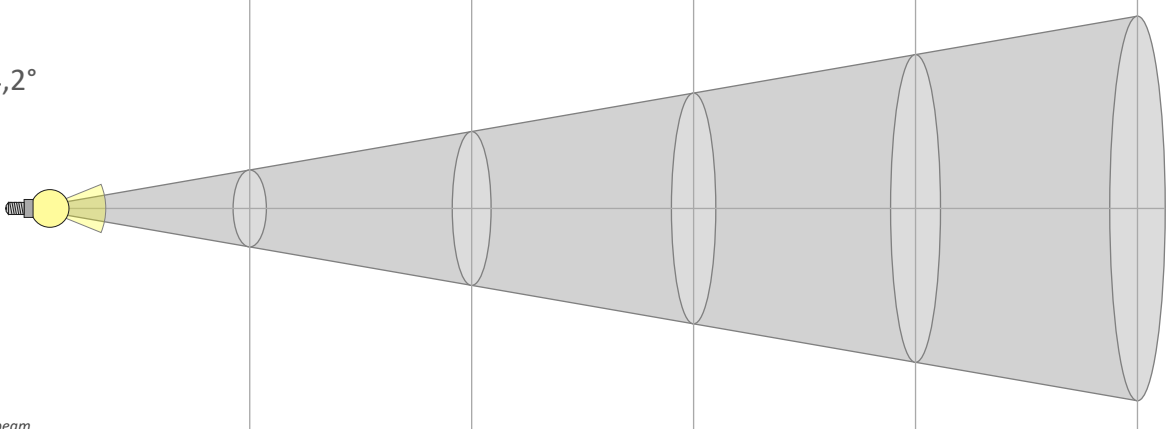
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Beam details					1m		2m		3m		4m		5m						
Lux*					1850 lx		463 lx		206 lx		116 lx		74 lx						
44,2° 																			
*measured at center of beam																			
Footcandles*					171,9 fcd		43,0 fcd		19,1 fcd		10,7 fcd		6,9 fcd						
Beam width (meter)					0,8 m		1,6 m		2,4 m		3,2 m		4,1 m						
Beam width (Feet)					2,7 ft		5,3 ft		8 ft		10,6 ft		13,3 ft						
Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
1850lx	463lx	206lx	116lx	74lx	51lx	38lx	29lx	23lx	19lx	15lx	13lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx	5lx
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
171,9fcd	43fcd	19,1fcd	10,7fcd	6,9fcd	4,8fcd	3,5fcd	2,7fcd	2,1fcd	1,7fcd	1,4fcd	1,2fcd	1fcd	0,9fcd	0,8fcd	0,7fcd	0,6fcd	0,5fcd	0,5fcd	0,4fcd
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°
1850	1813	1777	1705	1617	1526	1423	1320	1218	1118	1019	932	844	768	699	630	564	498	420	336
100%	98%	96%	92%	87%	82%	77%	71%	66%	60%	55%	50%	46%	42%	38%	34%	30%	27%	23%	18%
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°
1850	1813	1777	1705	1617	1526	1423	1320	1218	1118	1019	932	844	768	699	630	564	498	420	336
100%	98%	96%	92%	87%	82%	77%	71%	66%	60%	55%	50%	46%	42%	38%	34%	30%	27%	23%	18%
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°
1850	1830	1798	1749	1662	1575	1469	1358	1248	1138	1029	932	838	750	675	601	522	442	361	280
100%	99%	97%	95%	90%	85%	79%	73%	67%	62%	56%	50%	45%	41%	36%	32%	28%	24%	20%	15%
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°
1850	1830	1798	1749	1662	1575	1469	1358	1248	1138	1029	932	838	750	675	601	522	442	361	280
100%	99%	97%	95%	90%	85%	79%	73%	67%	62%	56%	50%	45%	41%	36%	32%	28%	24%	20%	15%
Beam angle 50%				Field angle 10%				Cutoff angle 2,5%				Intensity ratio in 120° cone				Intensity ratio in 90° cone			
44,2°				82,6°				101,4°				97,3%				92,9%			



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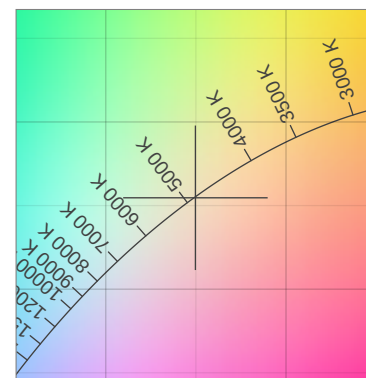
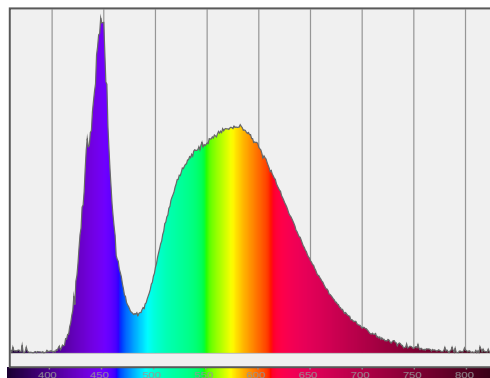
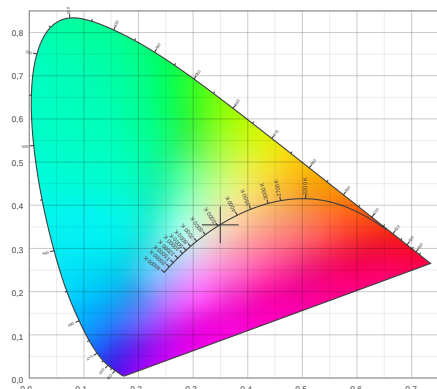
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Color details



CIE 1931

x: 0,350

4844 K

y: 0,355

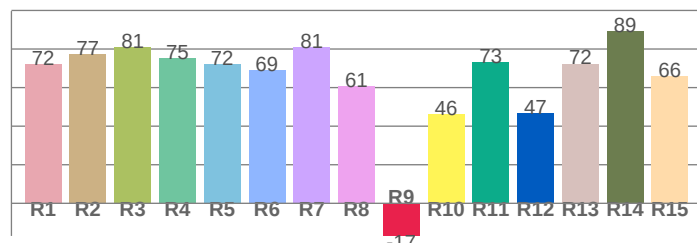


Spectra

CIE 1931 ZOOM

Δuv : -0,0003

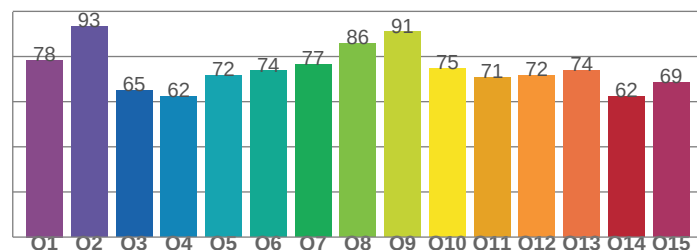
CRI: 73,6 (R1-R8)



CRI values, R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8
72,1	77,5	81,0	75,1	72,3	69,1	81,1	60,6
R9	R10	R11	R12	R13	R14	R15	
-16,9	46,1	73,0	46,6	72,4	89,1	65,9	

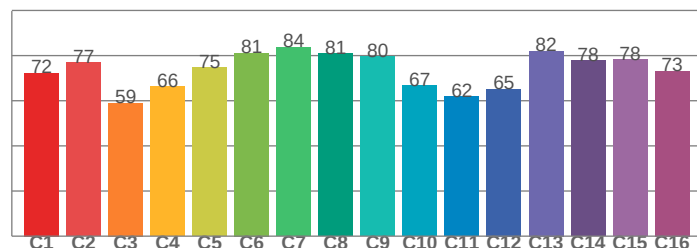
CQS: 73,1



CQS values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
78,4	93,3	64,8	62,4	71,6	73,6	76,6	85,7
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
90,9	74,7	70,6	71,7	74,0	62,2	68,6	

TM30: 73,2



TM30 values, 16 binned values out of total of 99 values

C1	C2	C3	C4	C5	C6	C7	C8
72,2	76,8	59,0	66,4	74,7	81,1	83,7	81,0
C9	C10	C11	C12	C13	C14	C15	
79,5	66,8	61,8	65,1	82,0	77,8	78,2	

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
4844 K	73,6	-16,9	73,2	97,4	73,1	0,350	0,355	0,213	0,325	-0,0003



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TM30 details

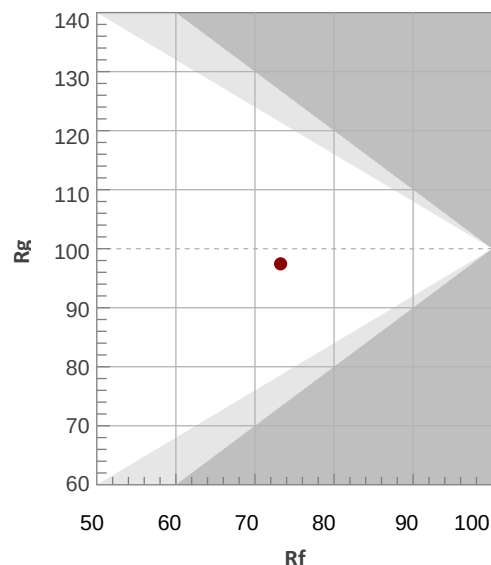
Rf 73,2

Fidelity index Rf

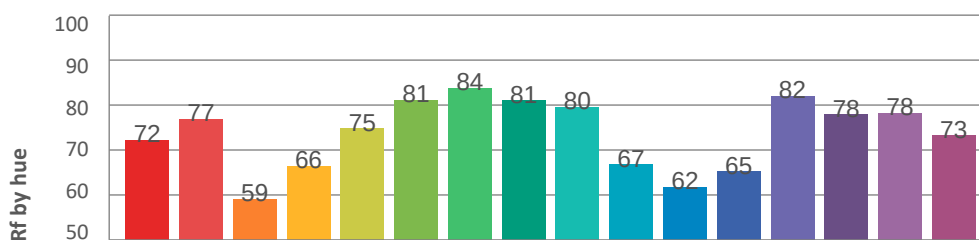
Rg 97,4

Gamut index Rg

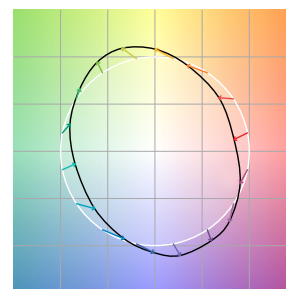
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	72	-15%	-4%
2	77	-12%	10%
3	59	-5%	22%
4	66	6%	21%
5	75	14%	13%
6	81	12%	-2%
7	84	3%	-11%
8	81	-6%	-11%
9	80	-14%	-3%
10	67	-13%	15%
11	62	-5%	24%
12	65	5%	20%
13	82	13%	5%
14	78	12%	-3%
15	78	7%	-18%
16	73	-5%	-15%



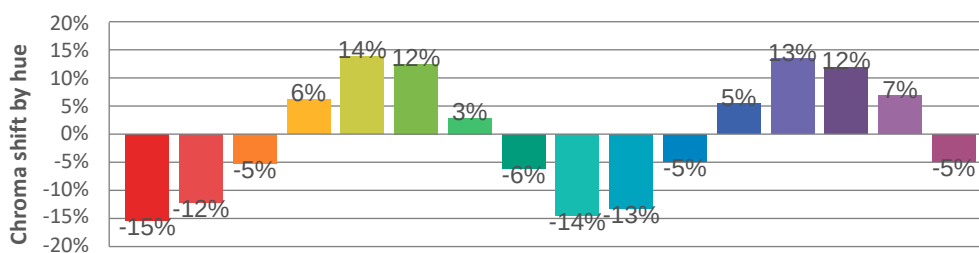
Hue binH



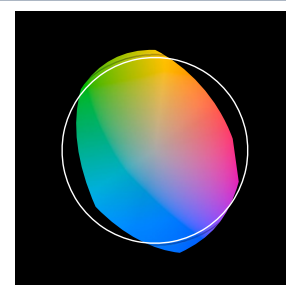
Color vector graphics



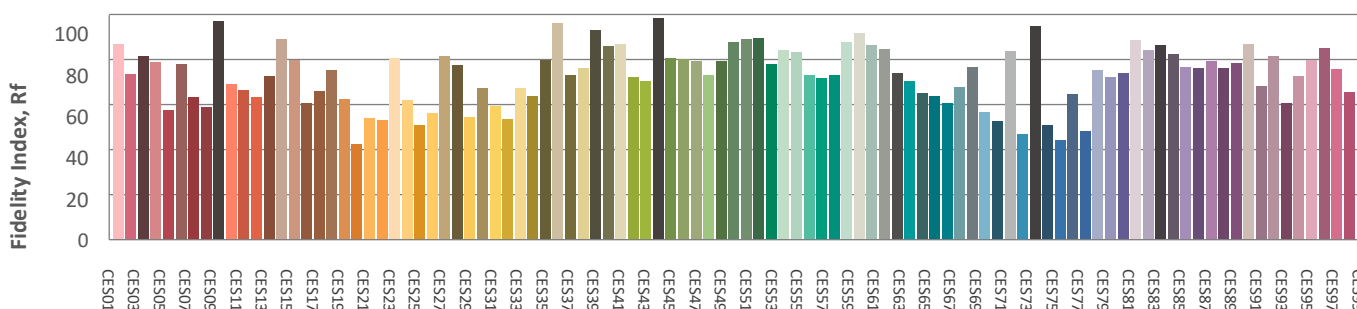
Hue bin



Color distortion graphics



Color Evaluation Sample



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Corrected glare indices referring to 1296lm total luminous flux

