

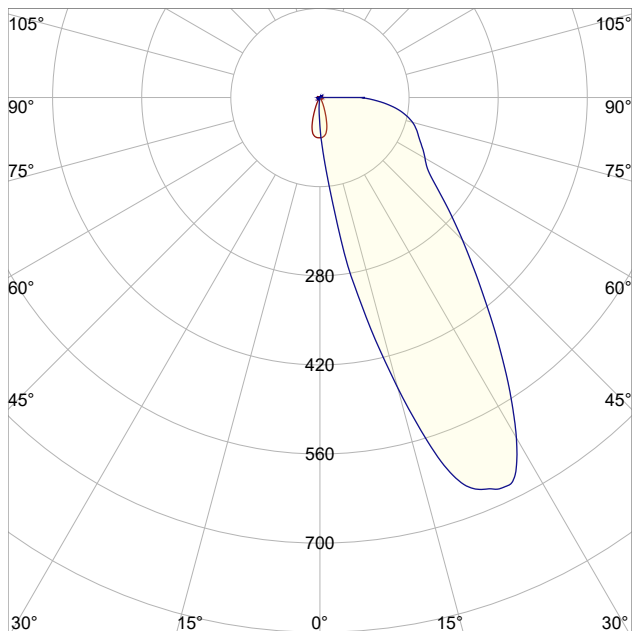
LM-79

Test Report

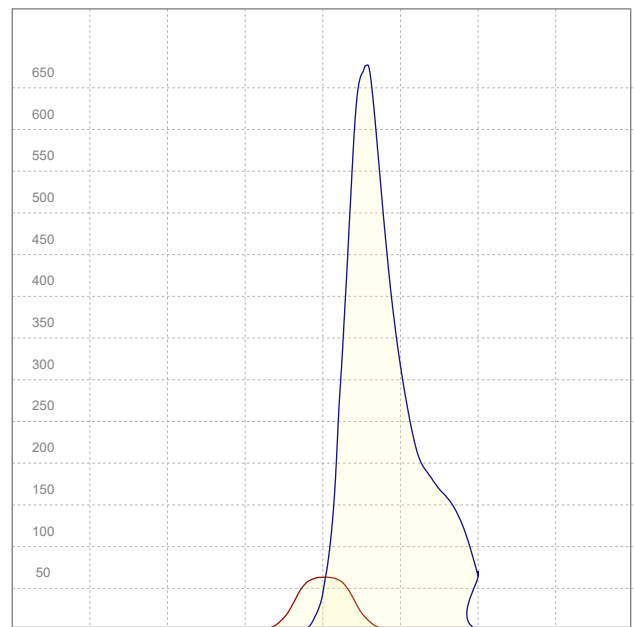
LM79-TOPAZ-WALLWASH-3000K-CRI90

General Description

Item number	T-W-XXX-1B-3090-A
Date and time	31-3-2025 12:33:44
CCT (Kelvin)	2994 K
Beam angle	31,9°
Luminous flux	428 lm
Efficiency	34 lm/watt
Weighted energy	12,6 kWh/1000h
Power factor	0,9
CRI (RA)	94,5
Fidelity index Rf	Rf 91,6
Gammut index Rg	Rg 103,9
Peak	677 cd



Polar curve



Linear distribution diagram



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LM-79

Test Report

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Beam details	1m	2m	3m	4m	5m																			
Lux*	61 lx	15 lx	7 lx	4 lx	2 lx																			
*measured at center of beam																								
Footcandles*	5,6 fcd	1,4 fcd	0,6 fcd	0,4 fcd	0,2 fcd																			
Beam width (meter)	0,5 m	1,1 m	1,6 m	2,1 m	2,7 m																			
Beam width (Feet)	1,8 ft	3,5 ft	5,3 ft	7 ft	8,8 ft																			
Beam intensities																								
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m					
61lx	15lx	7lx	4lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx				
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					
5,6fcd	1,4fcd	0,6fcd	0,4fcd	0,2fcd	0,2fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd				
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°					
60,6	63,1	62,3	61,1	59,0	55,8	50,9	44,4	36,4	28,7	21,6	16,1	11,7	8,0	5,0	3,0	1,9	1,8	1,8	1,6					
100%	104%	103%	101%	98%	92%	84%	73%	60%	47%	36%	27%	19%	13%	8%	5%	3%	3%	3%	3%					
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°					
61	68	98	141	208	287	357	432	512	588	641	663	673	677	657	617	570	523	477	434					
100%	113%	162%	233%	344%	474%	589%	713%	845%	971%	1058%	1096%	1112%	1117%	1084%	1019%	942%	863%	787%	717%					
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°					
60,6	63,2	63,1	62,4	61,1	59,1	55,7	50,7	44,2	36,7	28,7	22,0	16,7	12,3	8,6	5,6	3,6	2,2	1,9	1,9					
100%	104%	104%	103%	101%	98%	92%	84%	73%	61%	47%	36%	28%	20%	14%	9%	6%	4%	3%	3%					
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°					
60,6	28,2	18,3	10,0	4,3	0,9	0,2	0,3	0,2	0,3	0,3	0,2	0,3	0,4	0,3	0,3	0,3	0,3	0,3	0,3					
100%	47%	30%	17%	7%	1%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	1%	1%	1%	1%					
Beam angle 50%					Field angle 10%					Cutoff angle 2,5%					Intensity ratio in 120° cone					Intensity ratio in 90° cone				
29,9°					70,2°					94,6°					78,7%					61,3%				



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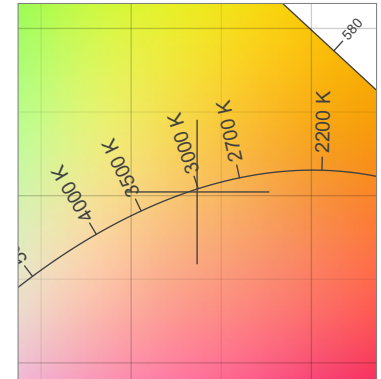
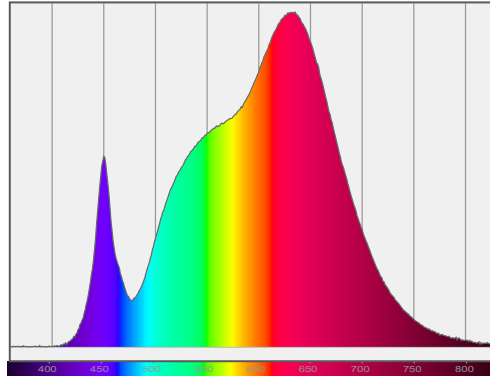
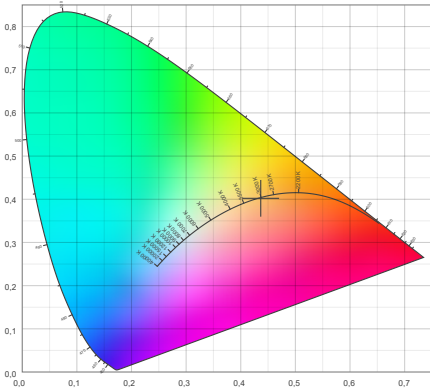
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LM-79

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Color details



CIE 1931

x: 0,437



Spectra

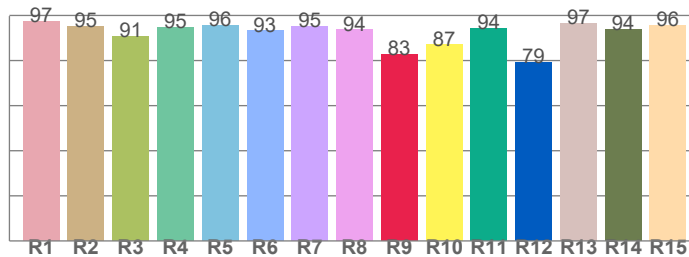
CIE 1931 ZOOM

2994 K

y: 0,402

Δuv : -0,0007

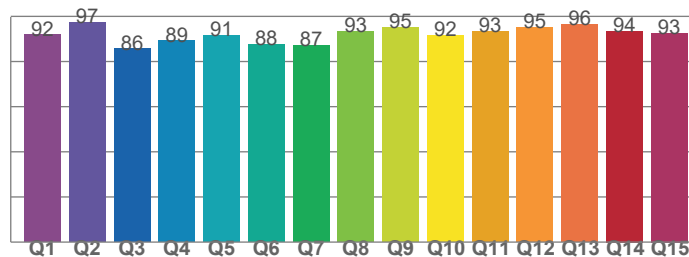
CRI: 94,5 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8
97,3	95,3	90,7	94,7	95,6	93,2	95,3	93,6
R9	R10	R11	R12	R13	R14	R15	
82,7	87,0	94,2	79,1	96,7	93,7	95,7	

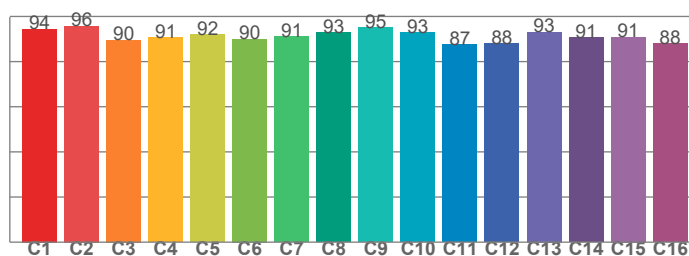
CQS: 91,3



CQS values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
91,9	97,3	85,7	89,2	91,5	87,7	87,1	93,4
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
95,0	91,7	93,2	95,0	96,4	93,5	92,6	

TM30: 91,6



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

C1	C2	C3	C4	C5	C6	C7	C8
94,5	95,8	89,5	90,7	92,0	90,0	91,0	92,9
C9	C10	C11	C12	C13	C14	C15	
95,1	92,8	87,5	88,2	93,1	90,6	90,9	

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
2994 K	94,5	82,7	91,6	103,9	91,3	0,437	0,402	0,251	0,347	-0,0007



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TM30 details

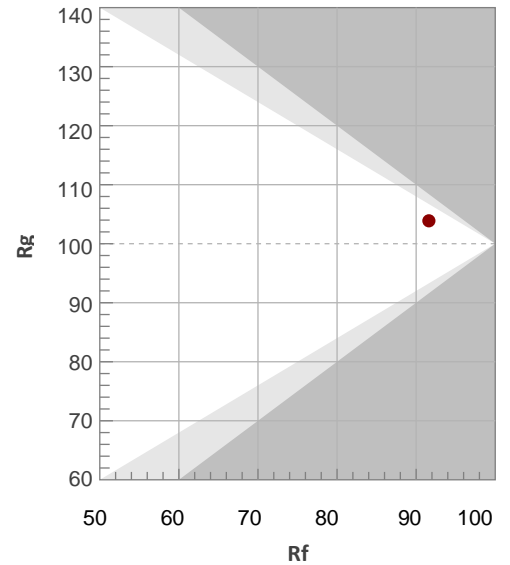
Rf 91,6

Fidelity index Rf

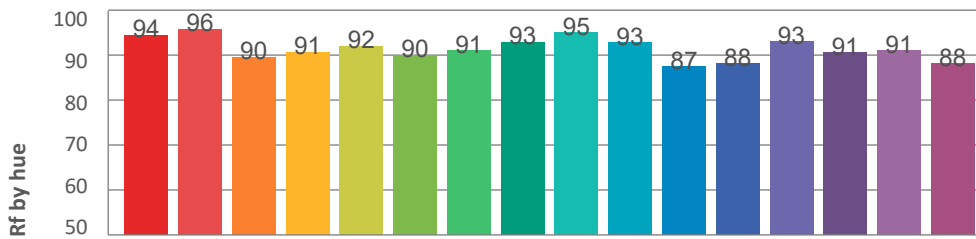
Rg 103,9

Gammut index Rg

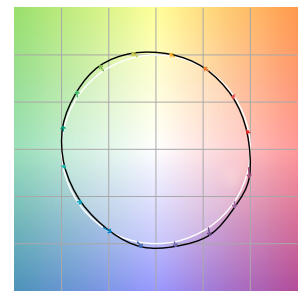
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	-2%	-2%
2	96	-2%	1%
3	90	0%	5%
4	91	2%	5%
5	92	5%	5%
6	90	7%	0%
7	91	4%	-5%
8	93	2%	-4%
9	95	-2%	-2%
10	93	-3%	3%
11	87	-1%	9%
12	88	4%	6%
13	93	5%	1%
14	91	7%	-3%
15	91	3%	-5%
16	88	3%	-9%



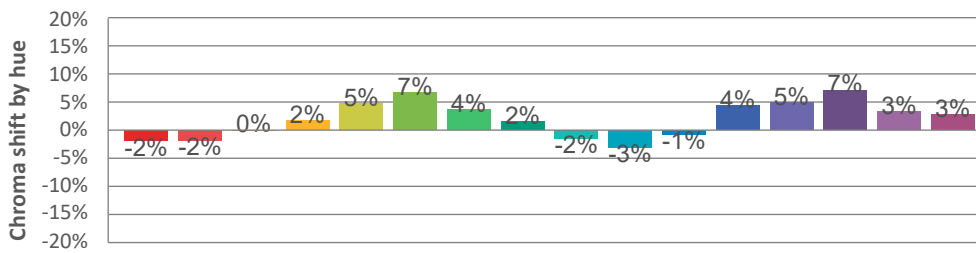
Hue binH



Color vector graphics



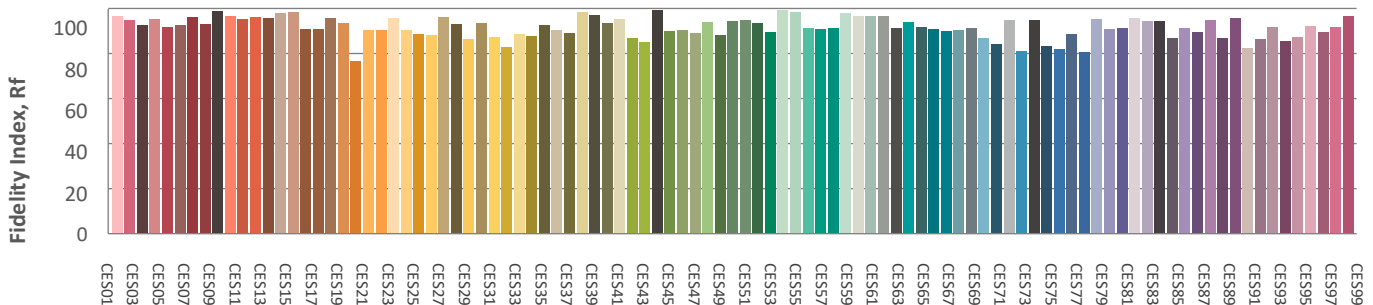
Hue bin



Color distortion graphics



Color Evaluation Sample



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