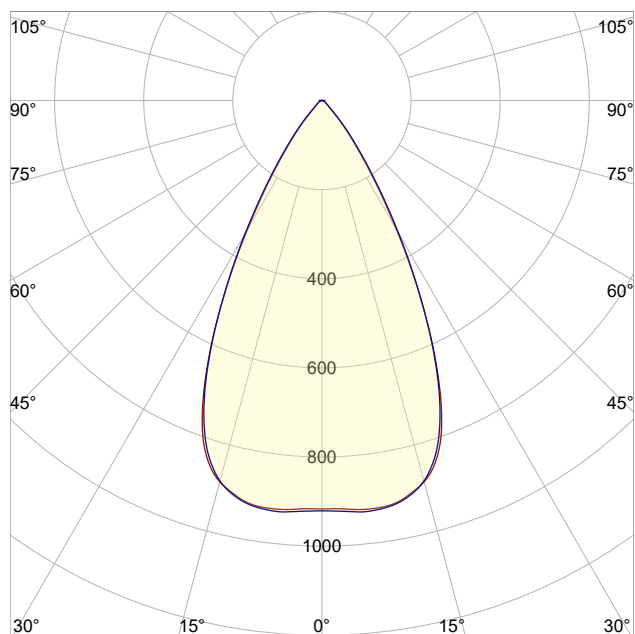
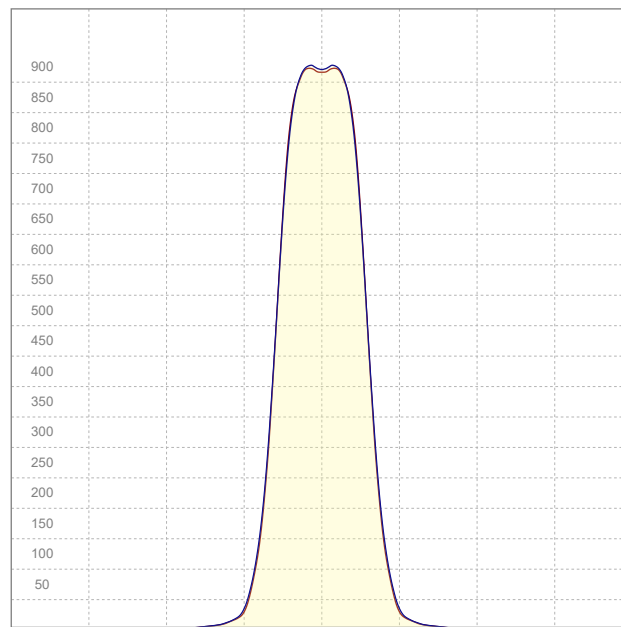


General Discription

Item number	T-E-XLX-1B-3098-F
Date and time	11-9-2024 16:59:56
CCT (Kelvin)	3054 K
Beam angle	54,5°
Luminous flux	753 lm
Efficiency	67 lm/watt
Weighted energy	11,2 kWh/1000h
Power factor	0,88
CRI (RA)	95,2
Fidelity index Rf	Rf 95,9
Gammut index Rg	Rg 100,9
Peak	928 cd



Polar curve



Linear distribution diagram

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LM79-TOPAZ-EXPO-3000K-CRI98-THRIVE [FLOOD]

Beam details	1m	2m	3m	4m	5m
Lux*	919 lx	230 lx	102 lx	57 lx	37 lx

54,5°

*measured at center of beam

Footcandles*	85,3 fcd	21,3 fcd	9,5 fcd	5,3 fcd	3,4 fcd
Beam width (meter)	1 m	2,1 m	3,1 m	4,1 m	5,1 m
Beam width (Feet)	3,4 ft	6,8 ft	10,1 ft	13,5 ft	16,9 ft

Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
919lx	230lx	102lx	57lx	37lx	26lx	19lx	14lx	11lx	9lx	8lx	6lx	5lx	5lx	4lx	4lx	3lx	3lx	3lx	2lx
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
85,3fcd	21,3fcd	9,5fcd	5,3fcd	3,4fcd	2,4fcd	1,7fcd	1,3fcd	1,1fcd	0,9fcd	0,7fcd	0,6fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd

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°
919	917	920	922	923	919	909	894	874	838	784	708	618	521	425	335	258	195	144	107
100%	100%	100%	100%	100%	100%	99%	97%	95%	91%	85%	77%	67%	57%	46%	36%	28%	21%	16%	12%

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°
919	922	925	928	926	922	912	895	869	829	773	700	615	522	430	344	268	205	155	116
100%	100%	101%	101%	101%	100%	99%	97%	95%	90%	84%	76%	67%	57%	47%	37%	29%	22%	17%	13%

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°
919	917	920	922	923	919	909	894	874	838	784	708	618	521	425	335	258	195	144	107
100%	100%	100%	100%	100%	100%	99%	97%	95%	91%	85%	77%	67%	57%	46%	36%	28%	21%	16%	12%

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°
919	922	925	928	926	922	912	895	869	829	773	700	615	522	430	344	268	205	155	116
100%	100%	101%	101%	101%	100%	99%	97%	95%	90%	84%	76%	67%	57%	47%	37%	29%	22%	17%	13%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
54,5°	78,4°	94,6°	98,6%	95,9%



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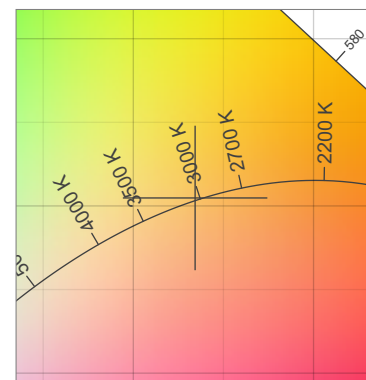
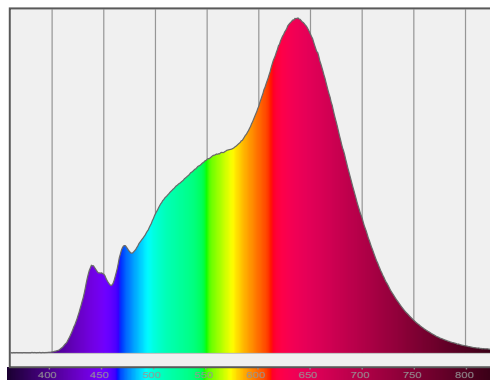
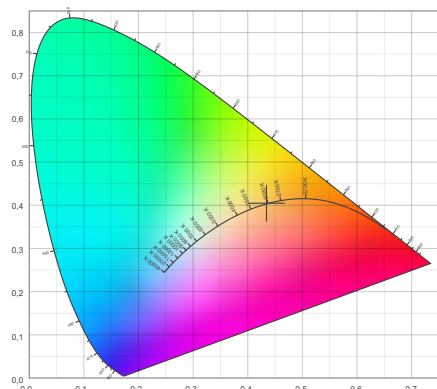
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LM79-TOPAZ-EXPO-3000K-CRI98-THRIVE [FLOOD]

Color details



CIE 1931

x: 0,434



Spectra

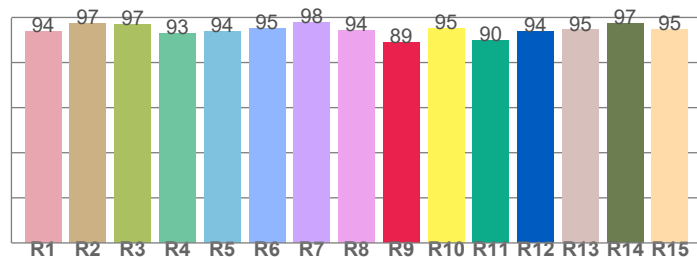
CIE 1931 ZOOM

3054 K

y: 0,405

Δuv : 0,0007

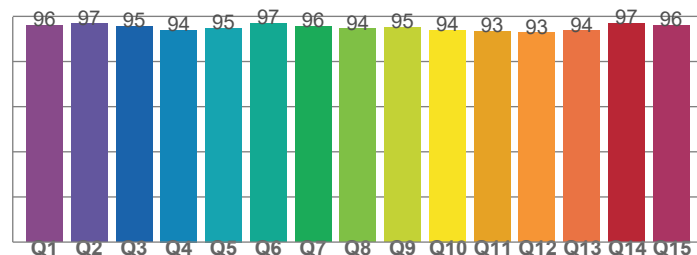
CRI: 95,2 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8
93,9	97,3	96,9	92,8	94,0	95,0	97,7	94,2
R9	R10	R11	R12	R13	R14	R15	
88,9	95,2	89,8	93,8	94,5	97,3	94,9	

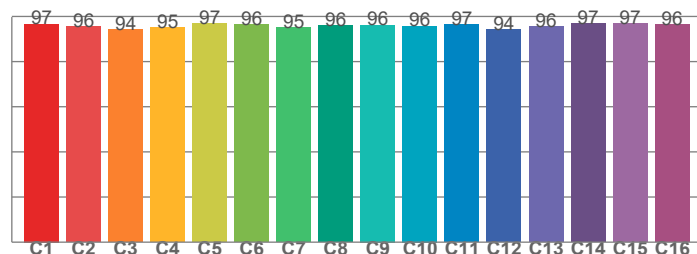
CQS: 94,8



CQS values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
96,0	96,7	95,5	94,0	94,9	96,9	95,7	94,5
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
95,0	94,0	93,4	92,7	93,6	96,8	96,1	

TM30: 95,9



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

C1	C2	C3	C4	C5	C6	C7	C8
96,7	95,5	94,2	95,2	96,8	96,5	95,1	95,9
C9	C10	C11	C12	C13	C14	C15	
96,3	95,7	96,5	94,2	95,7	96,8	96,7	

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
3054 K	95,2	88,9	95,9	100,9	94,8	0,434	0,405	0,249	0,348	0,0007



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Test Report

LM79-TOPAZ-EXPO-3000K-CRI98-THRIVE [FLOOD]

TM30 details

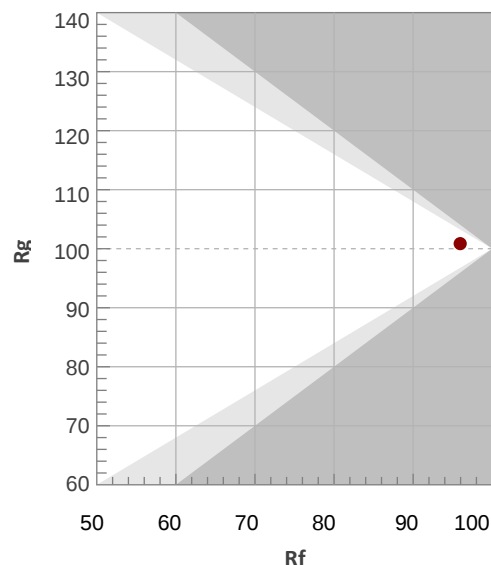
Rf 95,9

Fidelity index Rf

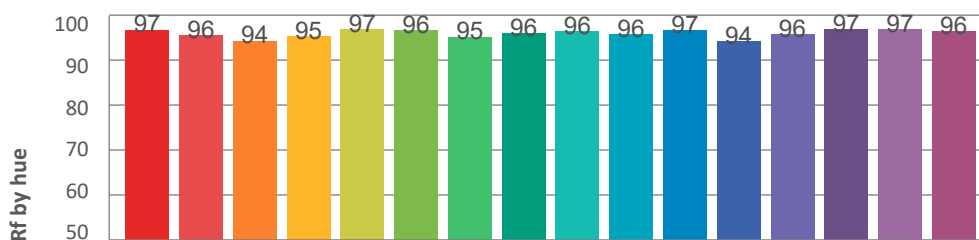
Rg 100,9

Gamut index Rg

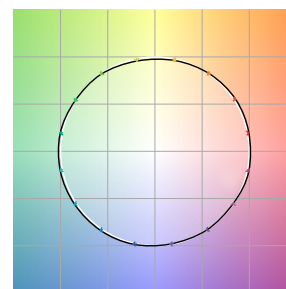
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	97	1%	0%
2	96	2%	-2%
3	94	0%	-3%
4	95	-2%	-3%
5	97	-2%	0%
6	96	0%	2%
7	95	0%	3%
8	96	2%	1%
9	96	2%	1%
10	96	2%	-1%
11	97	2%	-2%
12	94	1%	-4%
13	96	-1%	-3%
14	97	0%	-1%
15	97	0%	1%
16	96	2%	-2%



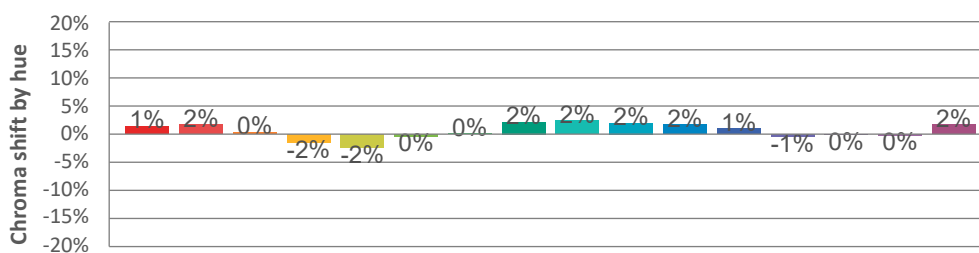
Hue binH



Color vector graphics



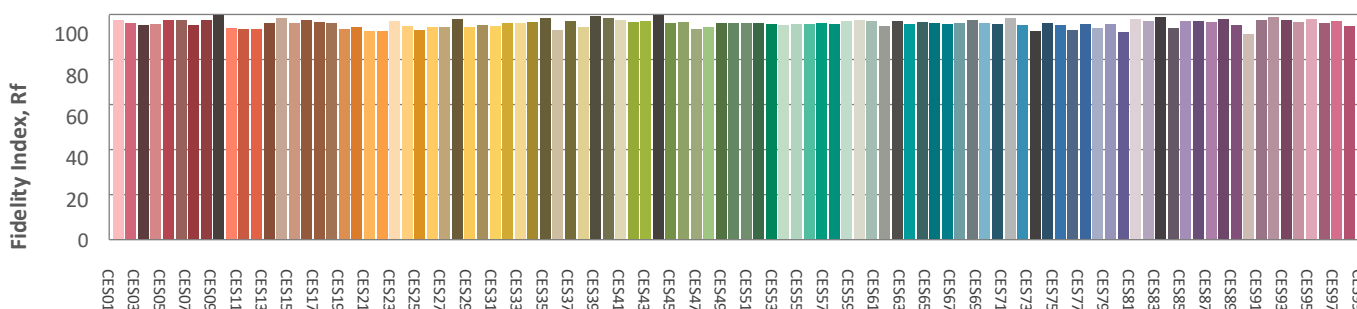
Hue bin



Color distortion graphics



Color Evaluation Sample



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Test Report

LM79-TOPAZ-EXPO-3000K-CRI98-THRIVE [FLOOD]

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				
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Variation of the observer position for the luminaire distance S										
n/a	n/a					n/a				
n/a	n/a					n/a				
n/a	n/a					n/a				
Standard table	n/a					n/a				
Correction summand	n/a					n/a				
Corrected glare indices referring to 753lm total luminous flux										



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