

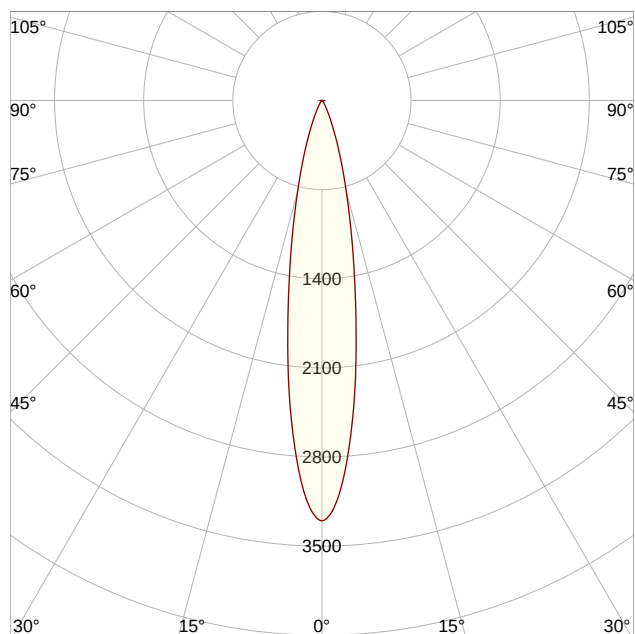
LM-79

Test Report

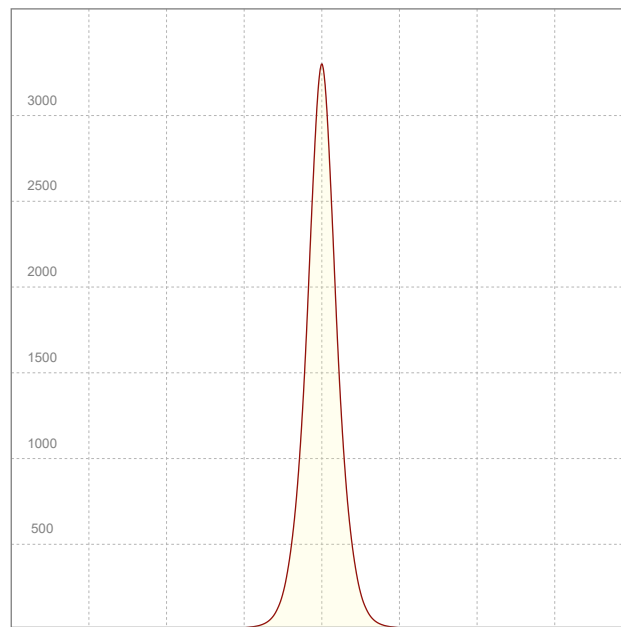
LM79-TOPAZ-COLOURFLOW-RGBA-SPOT [AMBER]

General Discription

Item number	T-C-XCX-1C-NA70-S
Date and time	8-12-2025 13:44:38
CCT (Kelvin)	1738 K
Beam angle	18,6°
Luminous flux	532 lm
Efficiency	47 lm/watt
Weighted energy	11,3 kWh/1000h
Power factor	0,49
CRI (RA)	58,9
Fidelity index Rf	Rf 65,7
Gammut index Rg	Rg 64,8
Peak	3293 cd



Polar curve



Linear distribution diagram



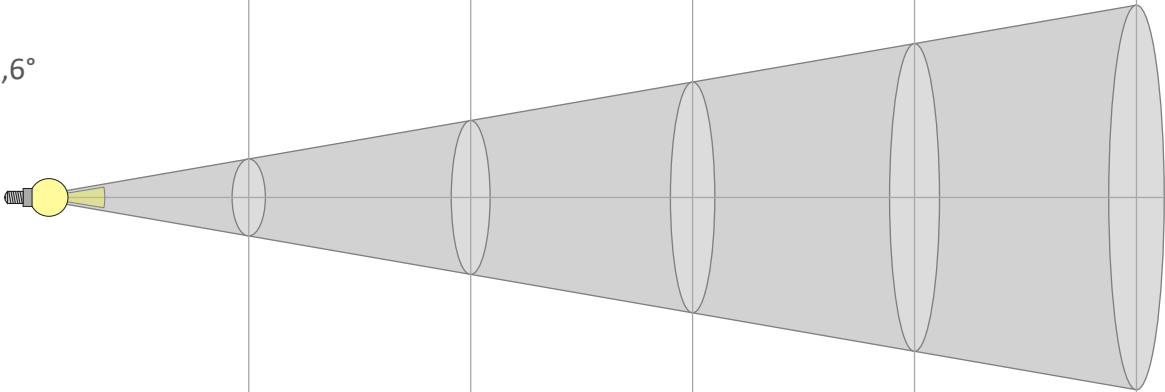
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Beam details					1m		2m		3m		4m		5m						
Lux*					3293 lx		823 lx		366 lx		206 lx		132 lx						
18,6° 																			
*measured at center of beam																			
Footcandles*					305,9 fcd		76,5 fcd		34,0 fcd		19,1 fcd		12,2 fcd						
Beam width (meter)					0,3 m		0,7 m		1 m		1,3 m		1,6 m						
Beam width (Feet)					1,1 ft		2,1 ft		3,2 ft		4,3 ft		5,4 ft						
Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3293lx	823lx	366lx	206lx	132lx	91lx	67lx	51lx	41lx	33lx	27lx	23lx	19lx	17lx	15lx	13lx	11lx	10lx	9lx	8lx
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
305,9fcd	76,5fcd	34fcd	19,1fcd	12,2fcd	8,5fcd	6,2fcd	4,8fcd	3,8fcd	3,1fcd	2,5fcd	2,1fcd	1,8fcd	1,6fcd	1,4fcd	1,2fcd	1,1fcd	0,9fcd	0,8fcd	0,8fcd
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°
3293	3158	2827	2399	1930	1499	1144	858	635	465	334	235	166	118	83	60	45	34	27	23
100%	96%	86%	73%	59%	46%	35%	26%	19%	14%	10%	7%	5%	4%	3%	2%	1%	1%	1%	1%
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°
3293	3158	2827	2399	1930	1499	1144	858	635	465	334	235	166	118	83	60	45	34	27	23
100%	96%	86%	73%	59%	46%	35%	26%	19%	14%	10%	7%	5%	4%	3%	2%	1%	1%	1%	1%
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°
3293	3158	2827	2399	1930	1499	1144	858	635	465	334	235	166	118	83	60	45	34	27	23
100%	96%	86%	73%	59%	46%	35%	26%	19%	14%	10%	7%	5%	4%	3%	2%	1%	1%	1%	1%
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°
3293	3158	2827	2399	1930	1499	1144	858	635	465	334	235	166	118	83	60	45	34	27	23
100%	96%	86%	73%	59%	46%	35%	26%	19%	14%	10%	7%	5%	4%	3%	2%	1%	1%	1%	1%
Beam angle 50%				Field angle 10%				Cutoff angle 2,5%				Intensity ratio in 120° cone				Intensity ratio in 90° cone			
18,6°				40,2°				56,1°				99,0%				97,2%			



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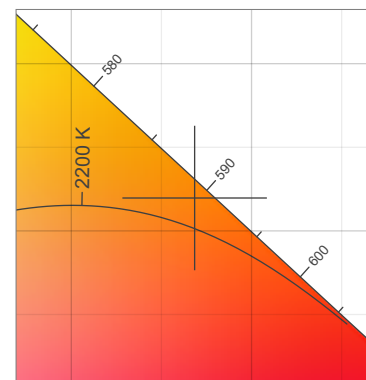
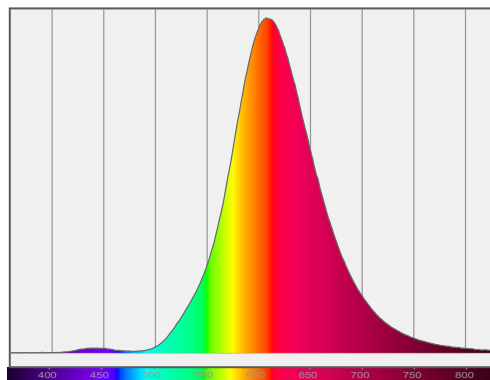
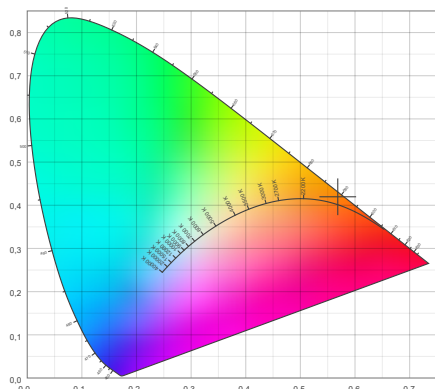
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Test Report

LM79-TOPAZ-COLOURFLOW-RGBA-SPOT [AMBER]

Color details



CIE 1931

x: 0,568



Spectra

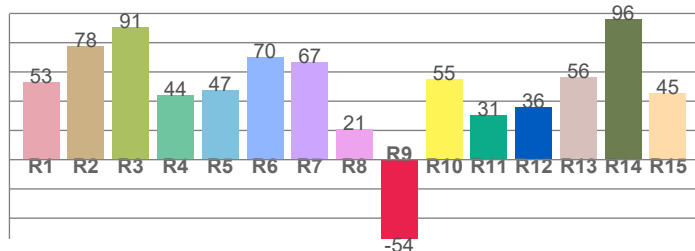
CIE 1931 ZOOM

1738 K

y: 0,420

Δuv : 0,0046

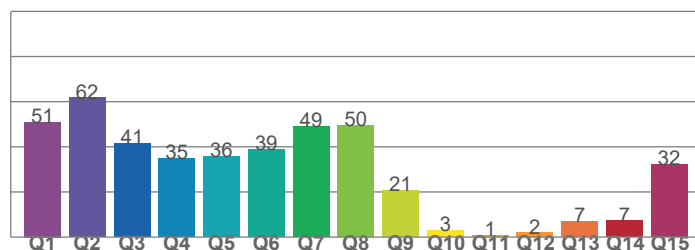
CRI: 58,9 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8
53,2	77,8	90,9	44,3	47,4	69,8	67,0	20,8
R9	R10	R11	R12	R13	R14	R15	
-54,2	54,8	30,7	36,1	56,3	95,8	45,4	

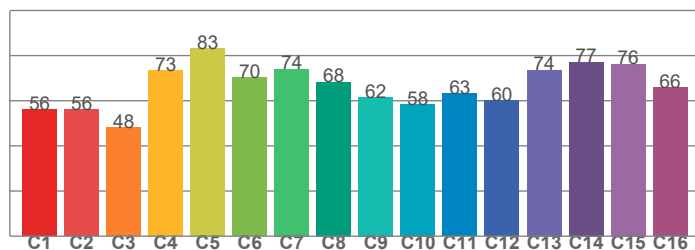
CQS: 20,9



CQS values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
51,0	61,7	41,4	34,9	35,7	38,9	49,1	49,6
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
20,6	2,9	0,8	1,9	7,0	7,3	32,3	

TM30: 65,7



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

C1	C2	C3	C4	C5	C6	C7	C8
56,0	56,2	48,3	73,5	83,2	70,4	74,0	68,4
C9	C10	C11	C12	C13	C14	C15	
61,6	58,5	63,2	60,2	73,7	77,1	76,3	

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
1738 K	58,9	-54,2	65,7	64,8	20,9	0,568	0,420	0,330	0,365	0,0046



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Test Report

LM79-TOPAZ-COLOURFLOW-RGBA-SPOT [AMBER]

TM30 details

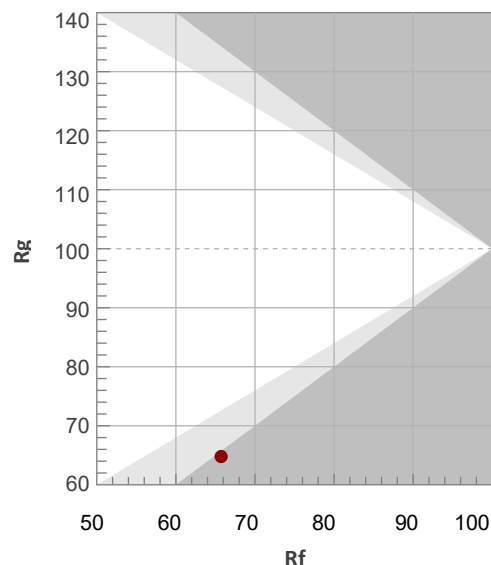
Rf 65,7

Fidelity index R_f

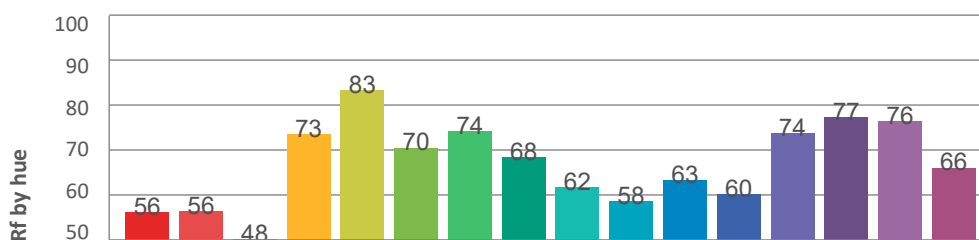
Rg 64,8

Gammut index Rg

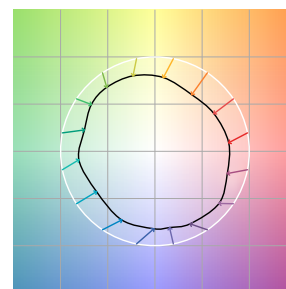
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	56	-22%	-6%
2	56	-26%	-2%
3	48	-28%	1%
4	73	-22%	7%
5	83	-17%	7%
6	70	-15%	5%
7	74	-16%	-4%
8	68	-22%	-8%
9	62	-19%	-7%
10	58	-25%	1%
11	63	-20%	11%
12	60	-19%	15%
13	74	-18%	-1%
14	77	-15%	-12%
15	76	-13%	-8%
16	66	-20%	-8%



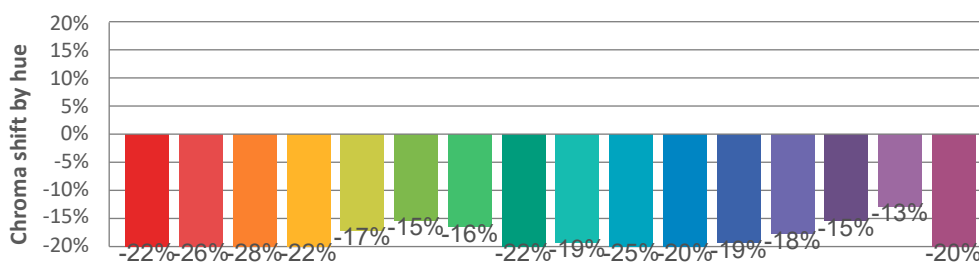
Hue binH



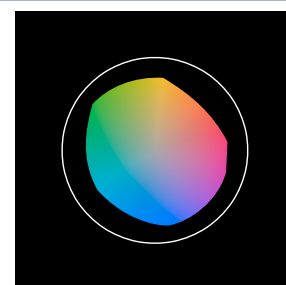
Color vector graphics



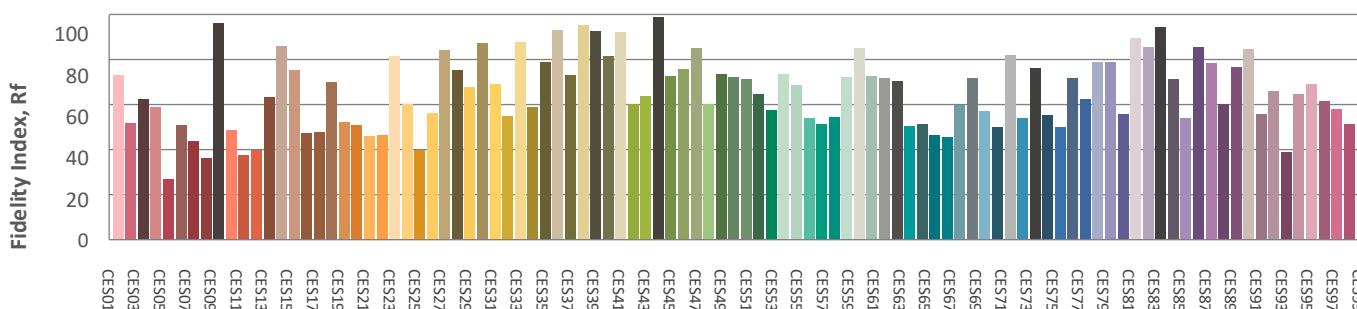
Hue bin



Color distortion graphics



Color Evaluation Sample



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LM79-TOPAZ-COLOURFLOW-RGBA-SPOT [AMBER]

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	6,2	6,6	6,2	6,8	6,9	6,2	6,6	6,2	6,8	6,9
	3H	6,1	6,7	6,5	6,9	7,1	6,1	6,7	6,5	6,9	7,1
	4H	6,2	6,7	6,6	6,9	7,2	6,2	6,7	6,6	6,9	7,2
	6H	6,2	6,7	6,5	7,0	7,3	6,2	6,7	6,5	7,0	7,3
	8H	6,2	6,6	6,5	7,0	7,3	6,2	6,6	6,5	7,0	7,3
	12H	6,2	6,6	6,5	6,9	7,3	6,2	6,6	6,5	6,9	7,3
4H	2H	6,0	6,5	6,4	6,8	7,0	6,0	6,5	6,4	6,8	7,0
	3H	6,3	6,7	6,6	7,0	7,4	6,3	6,7	6,6	7,0	7,4
	4H	6,3	6,7	6,7	7,1	7,6	6,3	6,7	6,7	7,1	7,6
	6H	6,3	6,7	6,8	7,0	7,4	6,3	6,7	6,8	7,0	7,4
	8H	6,2	6,7	6,8	7,0	7,4	6,2	6,7	6,8	7,0	7,4
	12H	6,2	6,5	6,7	6,9	7,4	6,2	6,5	6,7	6,9	7,4
8H	4H	6,2	6,6	6,7	7,0	7,3	6,2	6,6	6,7	7,0	7,3
	6H	6,2	6,5	6,7	7,0	7,5	6,2	6,5	6,7	7,0	7,5
	8H	6,3	6,5	6,8	7,0	7,6	6,3	6,5	6,8	7,0	7,6
	12H	6,3	6,5	6,9	7,0	7,6	6,3	6,5	6,9	7,0	7,6
12H	4H	6,1	6,5	6,6	6,9	7,3	6,1	6,5	6,6	6,9	7,3
	6H	6,3	6,5	6,8	7,0	7,6	6,3	6,5	6,8	7,0	7,6
	8H	6,2	6,4	6,8	6,9	7,5	6,2	6,4	6,8	6,9	7,5
Variation of the observer position for the luminaire distance S											
S = 1.0H		2,9 / -2,4					2,9 / -2,4				
S = 1.5H		5,1 / -3,5					5,1 / -3,5				
S = 2.0H		6,8 / -4,3					6,8 / -4,3				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 532lm total luminous flux											



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