

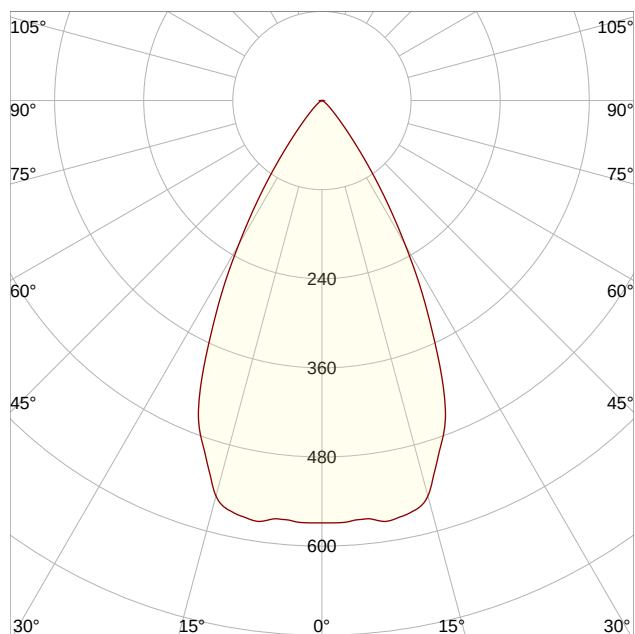
LM-79

Test Report

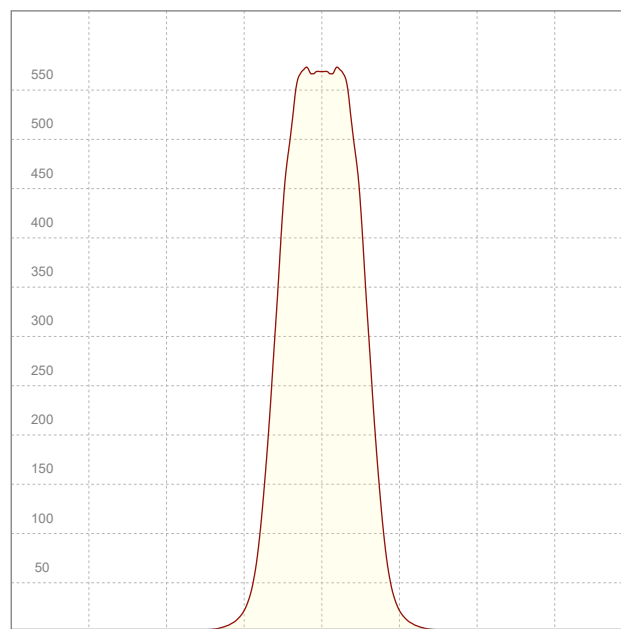
LM79-TOPAZ-COLOURFLOW-RGBA-FLOOD [AMBER]

General Discription

Item number	T-C-XCX-1C-NA70-F
Date and time	8-12-2025 14:35:41
CCT (Kelvin)	1743 K
Beam angle	55,4°
Luminous flux	471 lm
Efficiency	42 lm/watt
Weighted energy	11,2 kWh/1000h
Power factor	0,48
CRI (RA)	58,9
Fidelity index Rf	Rf 66,3
Gammut index Rg	Rg 65,9
Peak	573 cd



Polar curve



Linear distribution diagram



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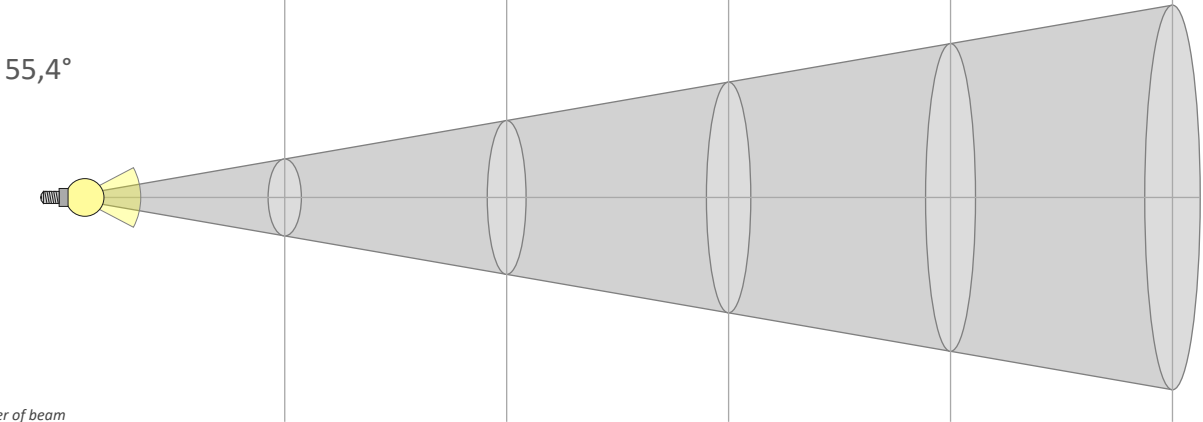
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Beam details	1m	2m	3m	4m	5m
Lux*	569 lx	142 lx	63 lx	36 lx	23 lx



*measured at center of beam

Footcandles*	52,8 fcd	13,2 fcd	5,9 fcd	3,3 fcd	2,1 fcd
Beam width (meter)	1,1 m	2,1 m	3,2 m	4,2 m	5,3 m
Beam width (Feet)	3,4 ft	6,9 ft	10,3 ft	13,8 ft	17,2 ft

Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
569lx	142lx	63lx	36lx	23lx	16lx	12lx	9lx	7lx	6lx	5lx	4lx	3lx	3lx	3lx	2lx	2lx	2lx	2lx	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
52,8fcd	13,2fcd	5,9fcd	3,3fcd	2,1fcd	1,5fcd	1,1fcd	0,8fcd	0,7fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,2fcd	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°
569	569	568	567	572	572	568	560	536	506	478	442	390	332	279	224	176	134	97	69
100%	100%	100%	100%	101%	101%	100%	98%	94%	89%	84%	78%	68%	58%	49%	39%	31%	24%	17%	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°
569	569	568	567	572	572	568	560	536	506	478	442	390	332	279	224	176	134	97	69
100%	100%	100%	100%	101%	101%	100%	98%	94%	89%	84%	78%	68%	58%	49%	39%	31%	24%	17%	12%

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°
569	569	568	567	572	572	568	560	536	506	478	442	390	332	279	224	176	134	97	69
100%	100%	100%	100%	101%	101%	100%	98%	94%	89%	84%	78%	68%	58%	49%	39%	31%	24%	17%	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°
569	569	568	567	572	572	568	560	536	506	478	442	390	332	279	224	176	134	97	69
100%	100%	100%	100%	101%	101%	100%	98%	94%	89%	84%	78%	68%	58%	49%	39%	31%	24%	17%	12%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
55,4°	78,1°	96,3°	99,1%	96,4%



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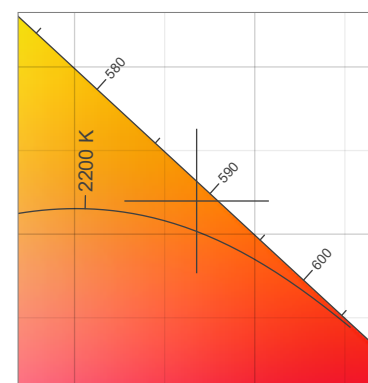
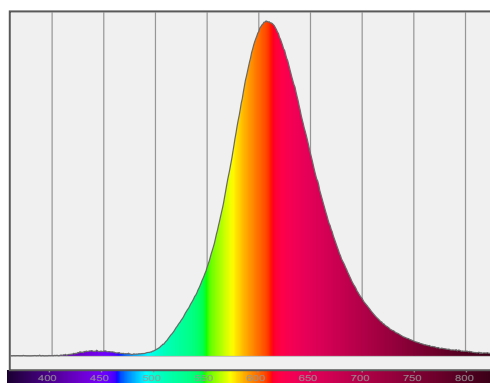
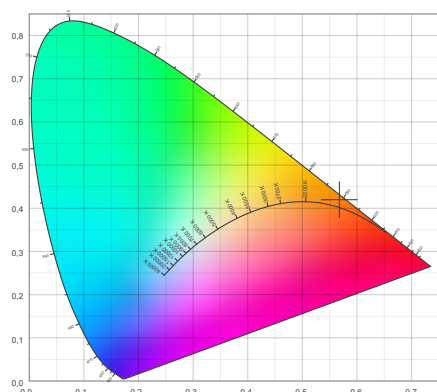
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Color details



CIE 1931

x: 0,568



Spectra

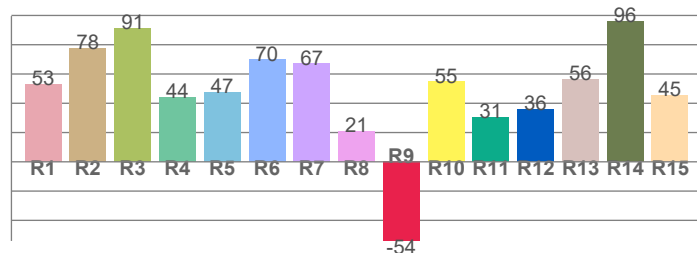
CIE 1931 ZOOM

1743 K

y: 0,420

Δuv : 0,0046

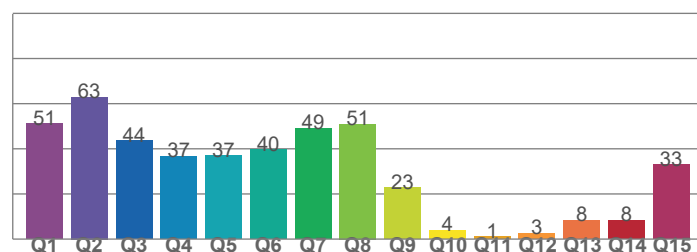
CRI: 58,9 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8
53,3	77,8	91,0	44,3	47,4	69,7	67,0	20,9
R9	R10	R11	R12	R13	R14	R15	
-54,1	54,7	30,6	36,0	56,3	95,8	45,5	

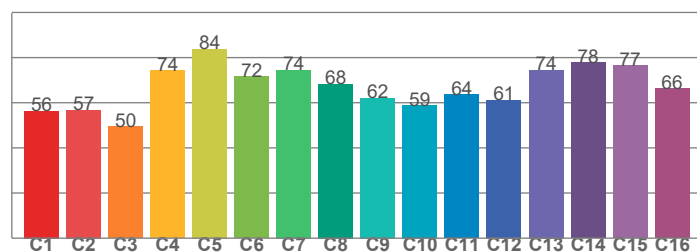
CQS: 22,5



CQS values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
51,1	62,9	43,6	36,6	36,9	39,5	49,1	51,0
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
22,7	3,8	1,1	2,6	8,4	8,2	32,9	

TM30: 66,3



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

C1	C2	C3	C4	C5	C6	C7	C8
56,3	56,8	49,5	74,4	83,9	71,6	74,5	68,3
C9	C10	C11	C12	C13	C14	C15	
62,1	58,9	63,5	61,2	74,5	77,7	76,5	

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
1743 K	58,9	-54,1	66,3	65,9	22,5	0,568	0,420	0,329	0,365	0,0046



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TM30 details

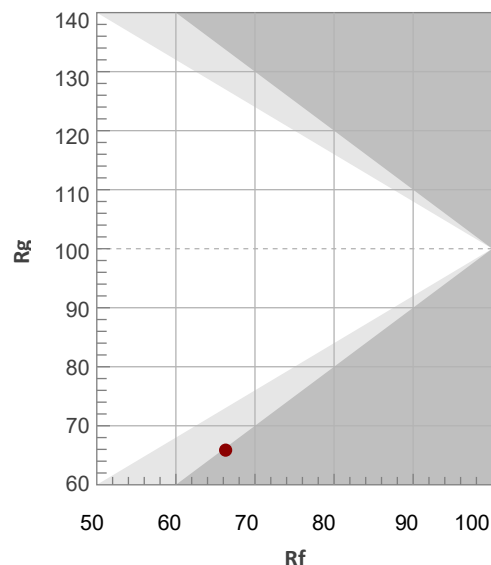
Rf 66,3

Fidelity index Rf

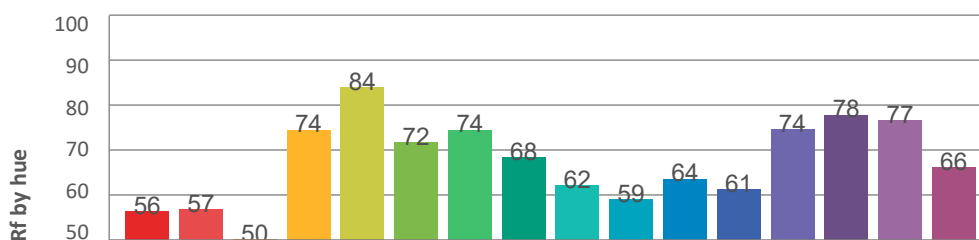
Rg 65,9

Gamut index Rg

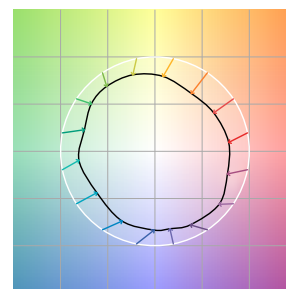
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	56	-22%	-6%
2	57	-26%	-1%
3	50	-28%	2%
4	74	-21%	7%
5	84	-16%	7%
6	72	-14%	4%
7	74	-16%	-4%
8	68	-22%	-8%
9	62	-19%	-6%
10	59	-24%	2%
11	64	-19%	12%
12	61	-18%	15%
13	74	-16%	0%
14	78	-14%	-12%
15	77	-12%	-9%
16	66	-20%	-9%



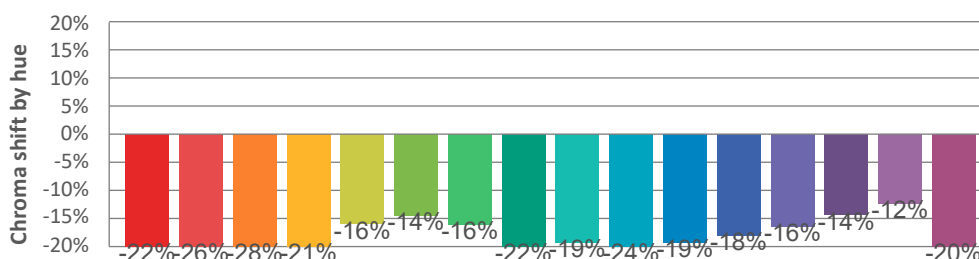
Hue binH



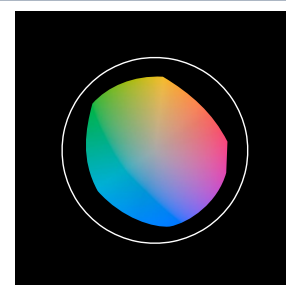
Color vector graphics



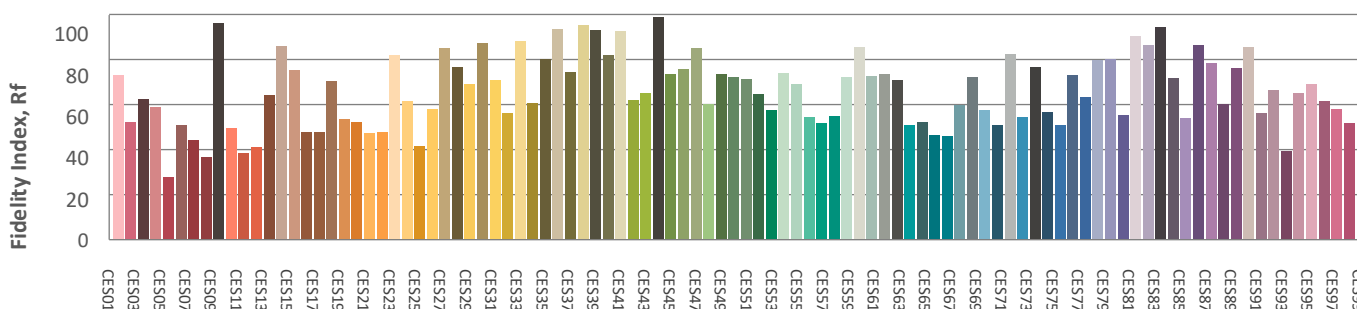
Hue bin



Color distortion graphics



Color Evaluation Sample



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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	13,5	14,1	13,6	14,3	14,5	13,5	14,1	13,6	14,3	14,5
	3H	13,2	14,0	13,6	14,2	14,3	13,2	14,0	13,6	14,2	14,3
	4H	13,2	13,9	13,5	14,1	14,3	13,2	13,9	13,5	14,1	14,3
	6H	13,2	13,8	13,5	14,0	14,4	13,2	13,8	13,5	14,0	14,4
	8H	13,1	13,7	13,4	14,0	14,4	13,1	13,7	13,4	14,0	14,4
	12H	13,1	13,6	13,4	14,0	14,4	13,1	13,6	13,4	14,0	14,4
4H	2H	13,1	13,9	13,5	14,1	14,3	13,1	13,9	13,5	14,1	14,3
	3H	13,1	13,6	13,4	14,0	14,4	13,1	13,6	13,4	14,0	14,4
	4H	12,9	13,5	13,4	13,9	14,4	12,9	13,5	13,4	13,9	14,4
	6H	12,9	13,4	13,4	13,8	14,1	12,9	13,4	13,4	13,8	14,1
	8H	12,8	13,3	13,3	13,7	14,0	12,8	13,3	13,3	13,7	14,0
	12H	12,8	13,2	13,3	13,6	14,0	12,8	13,2	13,3	13,6	14,0
8H	4H	12,8	13,3	13,3	13,7	14,0	12,8	13,3	13,3	13,7	14,0
	6H	12,8	13,1	13,3	13,6	14,1	12,8	13,1	13,3	13,6	14,1
	8H	12,8	13,0	13,3	13,6	14,2	12,8	13,0	13,3	13,6	14,2
	12H	12,7	12,9	13,3	13,4	14,0	12,7	12,9	13,3	13,4	14,0
12H	4H	12,8	13,1	13,3	13,6	14,0	12,8	13,1	13,3	13,6	14,0
	6H	12,8	13,0	13,3	13,5	14,2	12,8	13,0	13,3	13,5	14,2
	8H	12,7	12,9	13,3	13,4	14,0	12,7	12,9	13,3	13,4	14,0
Variation of the observer position for the luminaire distance S											
S = 1.0H		5,5 / -8,9					5,5 / -8,9				
S = 1.5H		8,2 / -10,6					8,2 / -10,6				
S = 2.0H		10,2 / -11,6					10,2 / -11,6				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 471lm total luminous flux											



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