

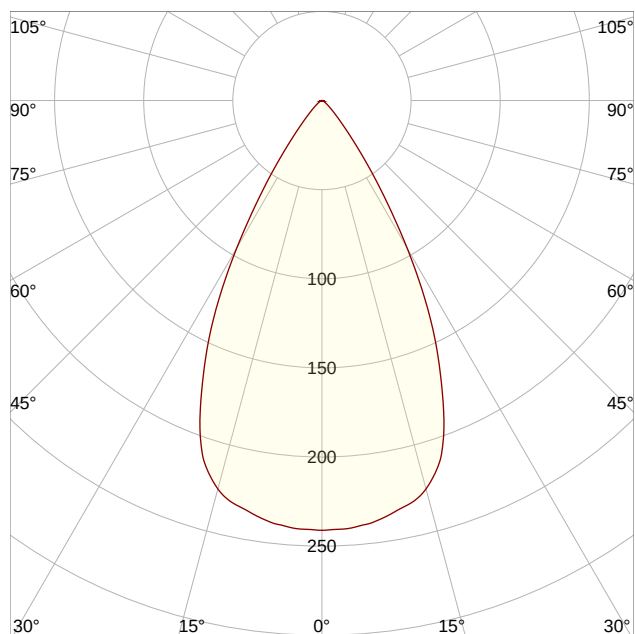
LM-79

Test Report

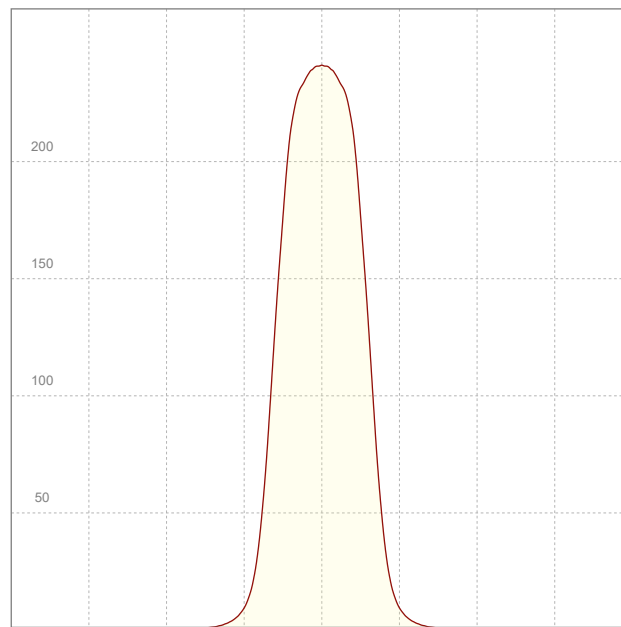
LM79-TOPAZ-COLOURFLOW-RGB4-FLOOD [RED]

General Discription

Item number	T-C-XCX-1C-N470-F
Date and time	8-12-2025 15:22:30
CCT (Kelvin)	0 K
Beam angle	55,7°
Luminous flux	197 lm
Efficiency	18 lm/watt
Weighted energy	10,8 kWh/1000h
Power factor	0,51
CRI (RA)	0,0
Fidelity index Rf	Rf 0,0
Gammut index Rg	Rg 0,0
Peak	241 cd



Polar curve



Linear distribution diagram



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Beam details	1m	2m	3m	4m	5m
Lux*	241 lx	60 lx	27 lx	15 lx	10 lx

55,7°

*measured at center of beam

Footcandles*	22,4 fcd	5,6 fcd	2,5 fcd	1,4 fcd	0,9 fcd
Beam width (meter)	1,1 m	2,1 m	3,2 m	4,2 m	5,3 m
Beam width (Feet)	3,5 ft	6,9 ft	10,4 ft	13,9 ft	17,3 ft

Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
241lx	60lx	27lx	15lx	10lx	7lx	5lx	4lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	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
22,4fcd	5,6fcd	2,5fcd	1,4fcd	0,9fcd	0,6fcd	0,5fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	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°
241	241	240	239	237	234	232	228	222	213	200	181	162	141	119	96	74	55	40	28
100%	100%	100%	99%	98%	97%	96%	95%	92%	88%	83%	75%	67%	59%	49%	40%	31%	23%	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°
241	241	240	239	237	234	232	228	222	213	200	181	162	141	119	96	74	55	40	28
100%	100%	100%	99%	98%	97%	96%	95%	92%	88%	83%	75%	67%	59%	49%	40%	31%	23%	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°
241	241	240	239	237	234	232	228	222	213	200	181	162	141	119	96	74	55	40	28
100%	100%	100%	99%	98%	97%	96%	95%	92%	88%	83%	75%	67%	59%	49%	40%	31%	23%	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°
241	241	240	239	237	234	232	228	222	213	200	181	162	141	119	96	74	55	40	28
100%	100%	100%	99%	98%	97%	96%	95%	92%	88%	83%	75%	67%	59%	49%	40%	31%	23%	17%	12%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
55,7°	77,9°	97°	98,9%	96,1%



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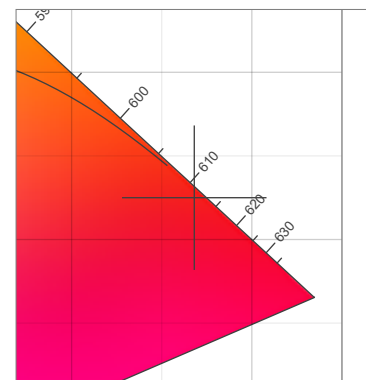
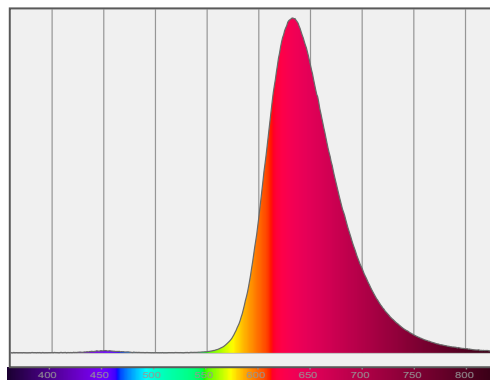
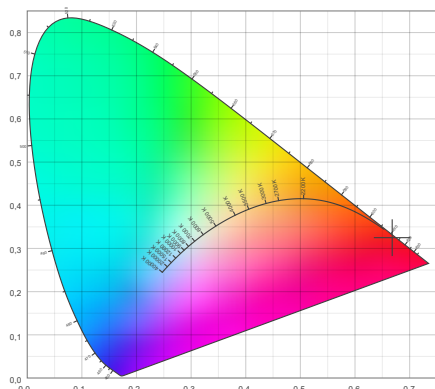
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Color details



CIE 1931

x: 0,668

0 K

y: 0,325

Spectra

CIE 1931 ZOOM

 Δuv : n/a

CRI: 0,0 (R1-R8)

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

R1	R2	R3	R4	R5	R6	R7	R8
0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
R9	R10	R11	R12	R13	R14	R15	
0,0	0,0	0,0	0,0	0,0	0,0	0,0	

CQS: 0,0

CQS values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
0,0	0,0	0,0	0,0	0,0	0,0	0,0	

TM30: 0,0

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

C1	C2	C3	C4	C5	C6	C7	C8
0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
C9	C10	C11	C12	C13	C14	C15	
0,0	0,0	0,0	0,0	0,0	0,0	0,0	

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
0 K	0,0	0,0	0,0	0,0	0,0	0,668	0,325	0,480	0,350	n/a



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TM30 details

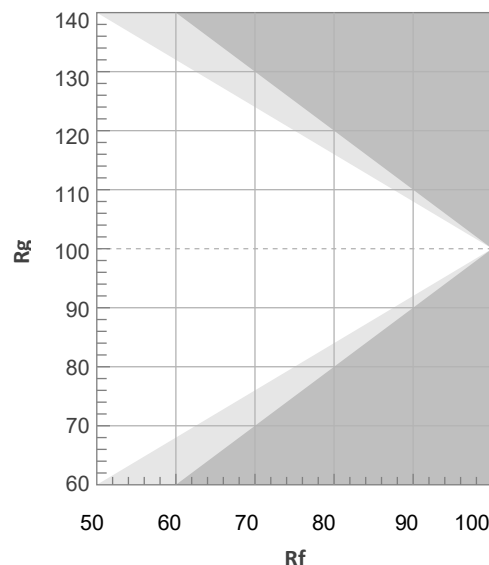
Rf 0,0

Fidelity index Rf

Rg 0,0

Gamut index Rg

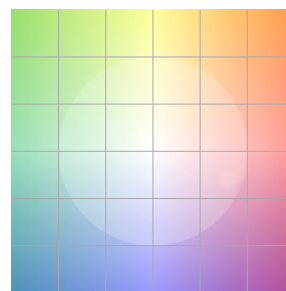
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Hue binH



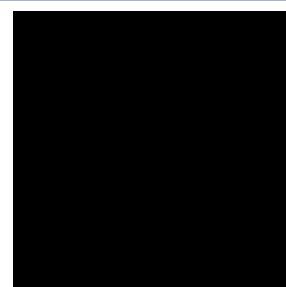
Color vector graphics



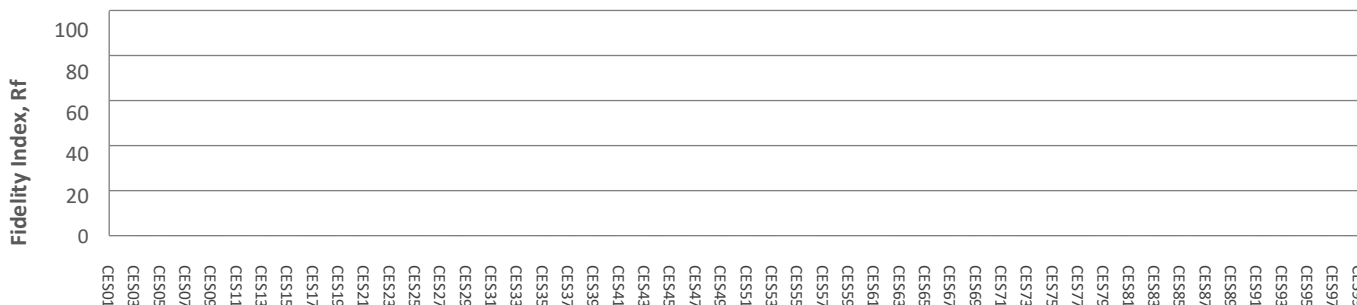
Hue bin



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	10,4	11,1	10,6	11,3	11,5	10,4	11,1	10,6	11,3	11,5
	3H	10,2	10,9	10,6	11,1	11,3	10,2	10,9	10,6	11,1	11,3
	4H	10,1	10,8	10,5	11,1	11,3	10,1	10,8	10,5	11,1	11,3
	6H	10,1	10,7	10,4	11,0	11,4	10,1	10,7	10,4	11,0	11,4
	8H	10,1	10,7	10,4	11,0	11,4	10,1	10,7	10,4	11,0	11,4
	12H	10,0	10,6	10,4	10,9	11,4	10,0	10,6	10,4	10,9	11,4
4H	2H	10,1	10,8	10,5	11,1	11,3	10,1	10,8	10,5	11,1	11,3
	3H	10,0	10,6	10,4	10,9	11,4	10,0	10,6	10,4	10,9	11,4
	4H	9,9	10,4	10,3	10,9	11,4	9,9	10,4	10,3	10,9	11,4
	6H	9,9	10,4	10,4	10,7	11,1	9,9	10,4	10,4	10,7	11,1
	8H	9,8	10,3	10,3	10,7	11,0	9,8	10,3	10,3	10,7	11,0
	12H	9,8	10,1	10,3	10,6	11,0	9,8	10,1	10,3	10,6	11,0
8H	4H	9,8	10,3	10,3	10,6	11,0	9,8	10,3	10,3	10,6	11,0
	6H	9,8	10,1	10,3	10,6	11,1	9,8	10,1	10,3	10,6	11,1
	8H	9,8	10,0	10,3	10,5	11,2	9,8	10,0	10,3	10,5	11,2
	12H	9,7	9,9	10,3	10,4	11,0	9,7	9,9	10,3	10,4	11,0
12H	4H	9,7	10,1	10,2	10,5	11,0	9,7	10,1	10,2	10,5	11,0
	6H	9,8	10,0	10,3	10,5	11,2	9,8	10,0	10,3	10,5	11,2
	8H	9,7	9,9	10,3	10,4	11,0	9,7	9,9	10,3	10,4	11,0
Variation of the observer position for the luminaire distance S											
S = 1.0H		5,5 / -8,1					5,5 / -8,1				
S = 1.5H		8,1 / -9,7					8,1 / -9,7				
S = 2.0H		10,1 / -10,5					10,1 / -10,5				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 197lm total luminous flux											