

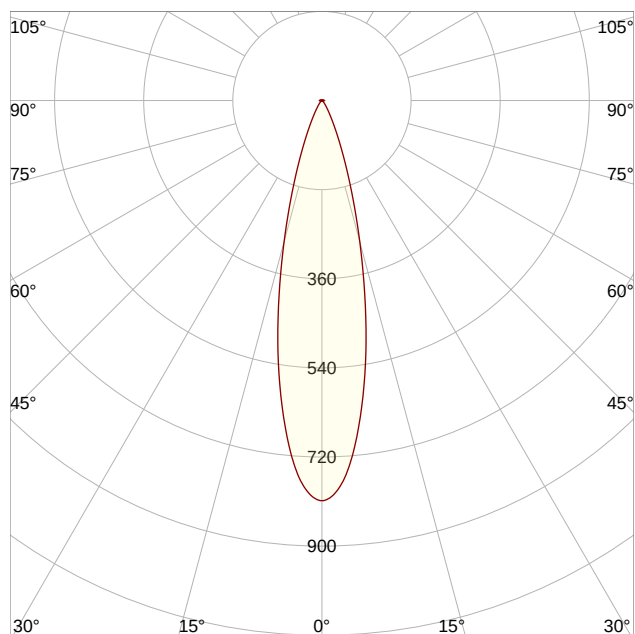
LM-79

Test Report

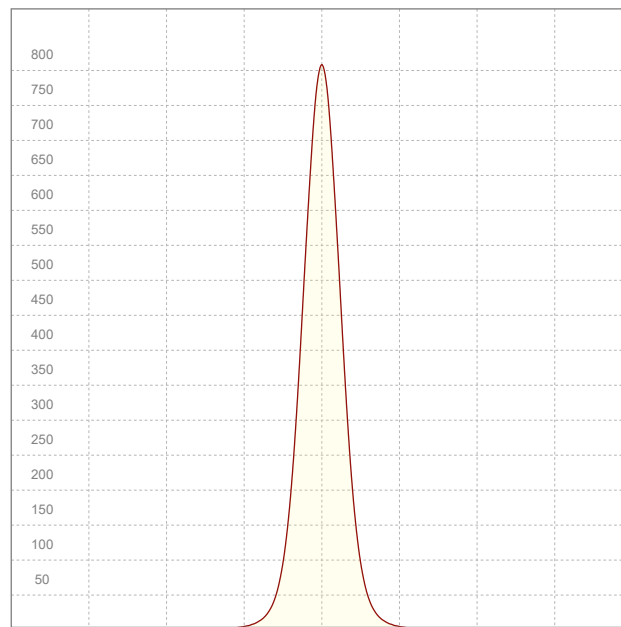
LM79-TOPAZ-COLOURFLOW-RGBA-MEDIUM [RED]

General Discription

Item number	T-C-XCX-1C-NA70-M
Date and time	8-12-2025 14:05:09
CCT (Kelvin)	0 K
Beam angle	24,8°
Luminous flux	192 lm
Efficiency	18 lm/watt
Weighted energy	10,8 kWh/1000h
Power factor	0,48
CRI (RA)	0,0
Fidelity index Rf	Rf 0,0
Gammut index Rg	Rg 0,0
Peak	807 cd



Polar curve



Linear distribution diagram



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Beam details	1m	2m	3m	4m	5m
Lux*	807 lx	202 lx	90 lx	50 lx	32 lx

24,8°

*measured at center of beam

Footcandles*	75,0 fcd	18,8 fcd	8,3 fcd	4,7 fcd	3,0 fcd
Beam width (meter)	0,4 m	0,9 m	1,3 m	1,8 m	2,2 m
Beam width (Feet)	1,4 ft	2,9 ft	4,3 ft	5,8 ft	7,2 ft

Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
807lx	202lx	90lx	50lx	32lx	22lx	16lx	13lx	10lx	8lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	2lx	2lx	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
75fcd	18,8fcd	8,3fcd	4,7fcd	3fcd	2,1fcd	1,5fcd	1,2fcd	0,9fcd	0,8fcd	0,6fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	0,3fcd	0,2fcd	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°
807	791	748	679	598	512	421	335	259	195	144	104	76	55	40	30	22	17	13	10
100%	98%	93%	84%	74%	63%	52%	42%	32%	24%	18%	13%	9%	7%	5%	4%	3%	2%	2%	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°
807	791	748	679	598	512	421	335	259	195	144	104	76	55	40	30	22	17	13	10
100%	98%	93%	84%	74%	63%	52%	42%	32%	24%	18%	13%	9%	7%	5%	4%	3%	2%	2%	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°
807	791	748	679	598	512	421	335	259	195	144	104	76	55	40	30	22	17	13	10
100%	98%	93%	84%	74%	63%	52%	42%	32%	24%	18%	13%	9%	7%	5%	4%	3%	2%	2%	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°
807	791	748	679	598	512	421	335	259	195	144	104	76	55	40	30	22	17	13	10
100%	98%	93%	84%	74%	63%	52%	42%	32%	24%	18%	13%	9%	7%	5%	4%	3%	2%	2%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24,8°	47,2°	65,3°	99,0%	97,1%



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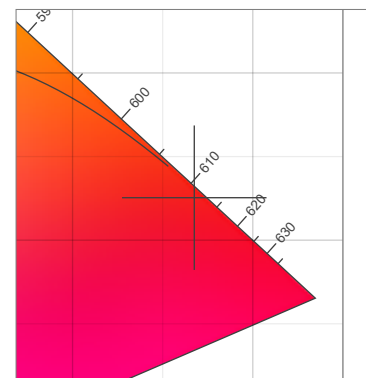
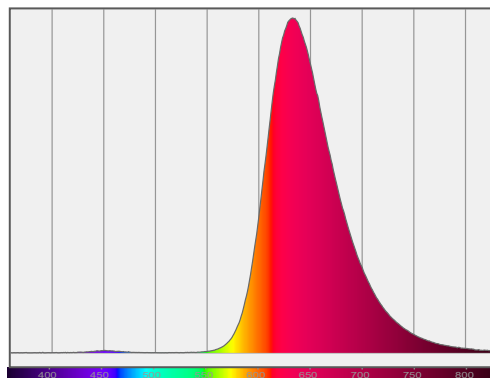
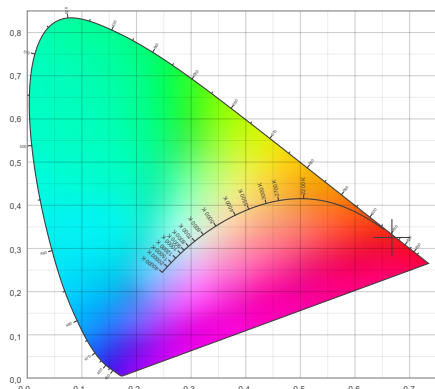
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Color details



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	0,479	0,351	n/a



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TM30 details

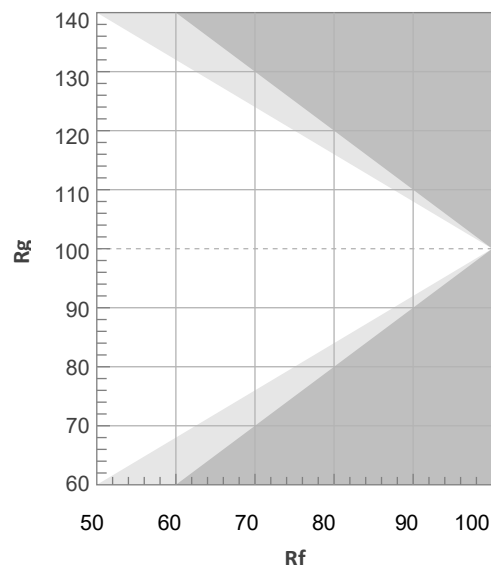
Rf 0,0

Fidelity index Rf

Rg 0,0

Gamut index Rg

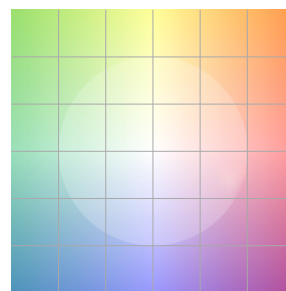
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Hue binH



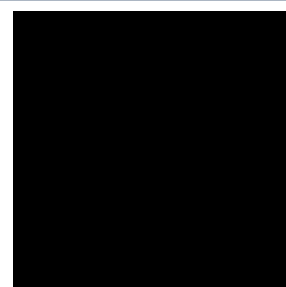
Color vector graphics



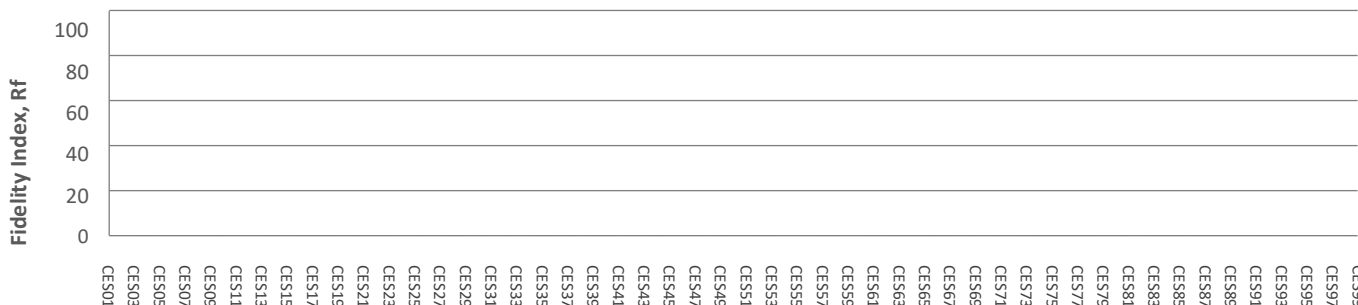
Hue bin



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	3,8	4,2	3,8	4,4	4,6	3,8	4,2	3,8	4,4	4,6
	3H	3,6	4,2	4,0	4,4	4,6	3,6	4,2	4,0	4,4	4,6
	4H	3,7	4,3	4,1	4,5	4,7	3,7	4,3	4,1	4,5	4,7
	6H	3,8	4,2	4,0	4,5	4,9	3,8	4,2	4,0	4,5	4,9
	8H	3,7	4,2	4,1	4,5	4,9	3,7	4,2	4,1	4,5	4,9
	12H	3,7	4,2	4,1	4,5	4,9	3,7	4,2	4,1	4,5	4,9
4H	2H	3,5	4,1	3,9	4,3	4,5	3,5	4,1	3,9	4,3	4,5
	3H	3,7	4,1	4,0	4,5	4,9	3,7	4,1	4,0	4,5	4,9
	4H	3,7	4,1	4,1	4,5	5,0	3,7	4,1	4,1	4,5	5,0
	6H	3,7	4,2	4,2	4,5	4,9	3,7	4,2	4,2	4,5	4,9
	8H	3,7	4,2	4,3	4,5	4,9	3,7	4,2	4,3	4,5	4,9
	12H	3,7	4,1	4,2	4,5	4,9	3,7	4,1	4,2	4,5	4,9
8H	4H	3,6	4,1	4,1	4,4	4,8	3,6	4,1	4,1	4,4	4,8
	6H	3,8	4,0	4,3	4,5	5,0	3,8	4,0	4,3	4,5	5,0
	8H	3,8	4,0	4,3	4,6	5,2	3,8	4,0	4,3	4,6	5,2
	12H	3,8	4,0	4,4	4,5	5,1	3,8	4,0	4,4	4,5	5,1
12H	4H	3,6	3,9	4,1	4,3	4,8	3,6	3,9	4,1	4,3	4,8
	6H	3,8	4,0	4,3	4,5	5,1	3,8	4,0	4,3	4,5	5,1
	8H	3,8	4,0	4,4	4,5	5,1	3,8	4,0	4,4	4,5	5,1
Variation of the observer position for the luminaire distance S											
S = 1.0H		3,6 / -3,0					3,6 / -3,0				
S = 1.5H		6,0 / -3,9					6,0 / -3,9				
S = 2.0H		7,8 / -4,5					7,8 / -4,5				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 192lm total luminous flux											