

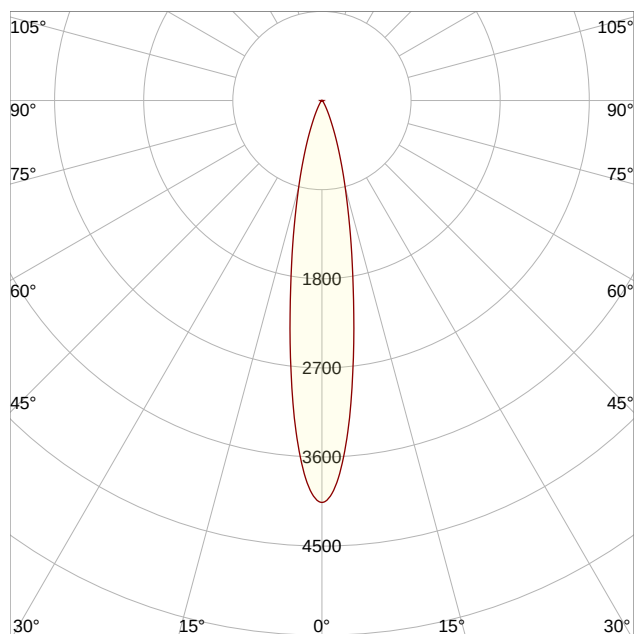
LM-79

Test Report

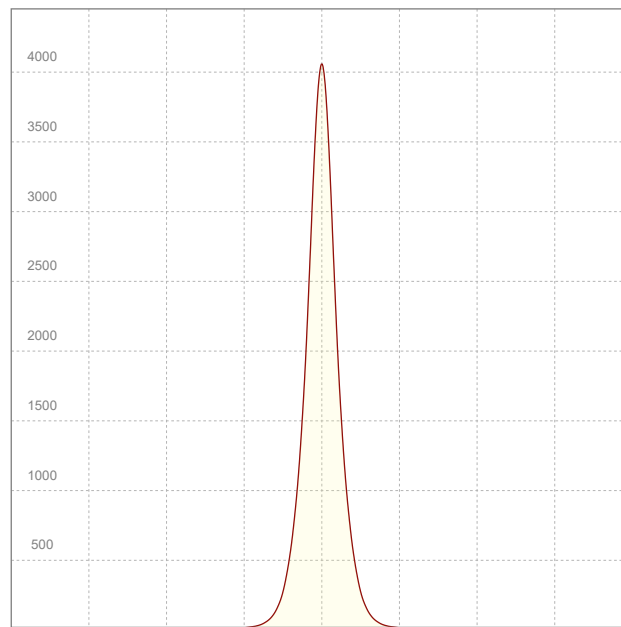
LM79-TOPAZ-COLOURFLOW-RGBA-SPOT [GREEN]

General Discription

Item number	T-C-XCX-1C-NA70-S
Date and time	8-12-2025 13:37:49
CCT (Kelvin)	0 K
Beam angle	18,1°
Luminous flux	657 lm
Efficiency	63 lm/watt
Weighted energy	10,5 kWh/1000h
Power factor	0,49
CRI (RA)	0,0
Fidelity index Rf	Rf 0,0
Gammut index Rg	Rg 0,0
Peak	4049 cd



Polar curve



Linear distribution diagram



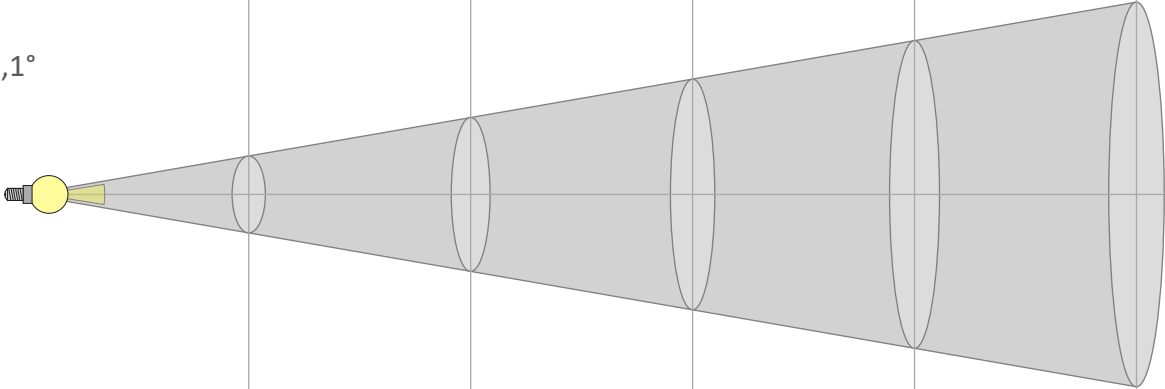
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Beam details				1m		2m		3m		4m		5m							
Lux*				4049 lx		1012 lx		450 lx		253 lx		162 lx							
18,1° 																			
*measured at center of beam																			
Footcandles*				376,1 fcd		94,0 fcd		41,8 fcd		23,5 fcd		15,0 fcd							
Beam width (meter)				0,3 m		0,6 m		1 m		1,3 m		1,6 m							
Beam width (Feet)				1 ft		2,1 ft		3,1 ft		4,2 ft		5,2 ft							
Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
4049lx	1012lx	450lx	253lx	162lx	112lx	83lx	63lx	50lx	40lx	33lx	28lx	24lx	21lx	18lx	16lx	14lx	12lx	11lx	10lx
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
376,1fcd	94fcd	41,8fcd	23,5fcd	15fcd	10,4fcd	7,7fcd	5,9fcd	4,6fcd	3,8fcd	3,1fcd	2,6fcd	2,2fcd	1,9fcd	1,7fcd	1,5fcd	1,3fcd	1,2fcd	1fcd	0,9fcd
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°
4049	3889	3473	2907	2318	1797	1382	1045	787	580	423	301	214	155	111	82	61	46	36	29
100%	96%	86%	72%	57%	44%	34%	26%	19%	14%	10%	7%	5%	4%	3%	2%	2%	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°
4049	3889	3473	2907	2318	1797	1382	1045	787	580	423	301	214	155	111	82	61	46	36	29
100%	96%	86%	72%	57%	44%	34%	26%	19%	14%	10%	7%	5%	4%	3%	2%	2%	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°
4049	3889	3473	2907	2318	1797	1382	1045	787	580	423	301	214	155	111	82	61	46	36	29
100%	96%	86%	72%	57%	44%	34%	26%	19%	14%	10%	7%	5%	4%	3%	2%	2%	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°
4049	3889	3473	2907	2318	1797	1382	1045	787	580	423	301	214	155	111	82	61	46	36	29
100%	96%	86%	72%	57%	44%	34%	26%	19%	14%	10%	7%	5%	4%	3%	2%	2%	1%	1%	1%
Beam angle 50%				Field angle 10%				Cutoff angle 2,5%				Intensity ratio in 120° cone				Intensity ratio in 90° cone			
18,1°				40,5°				57,2°				98,9%				97,0%			



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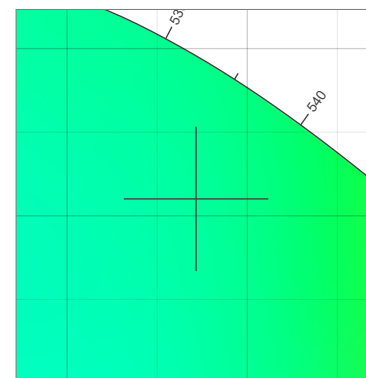
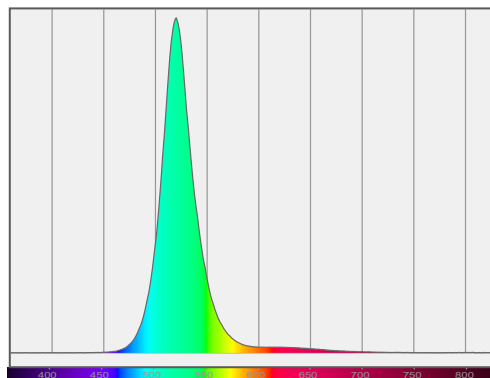
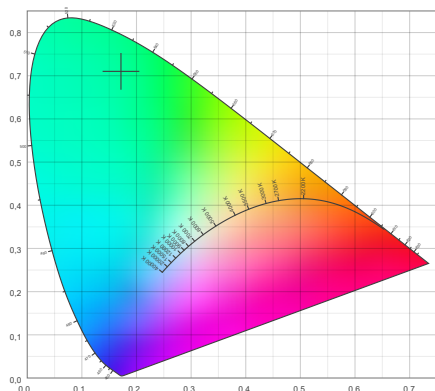
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Color details



CIE 1931

x: 0,172



Spectra

CIE 1931 ZOOM

0 K

y: 0,710

 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	R9	R10	R11	R12	R13	R14	R15

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	Q9	Q10	Q11	Q12	Q13	Q14	Q15

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	C9	C10	C11	C12	C13	C14	C15

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	0,172	0,710	0,061	0,381	n/a



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TM30 details

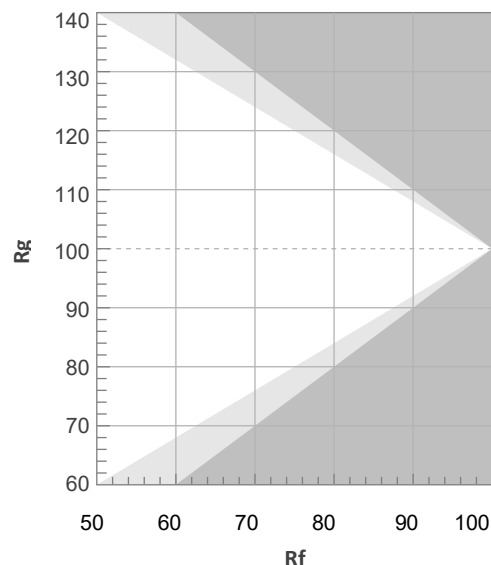
Rf 0,0

Fidelity index Rf

Rg 0,0

Gammut index Rg

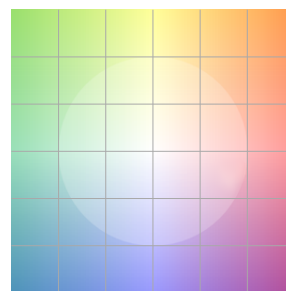
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Hue binH



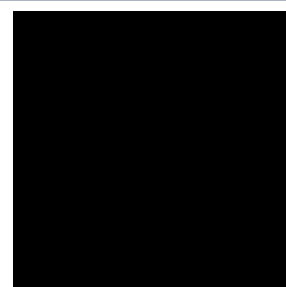
Color vector graphics



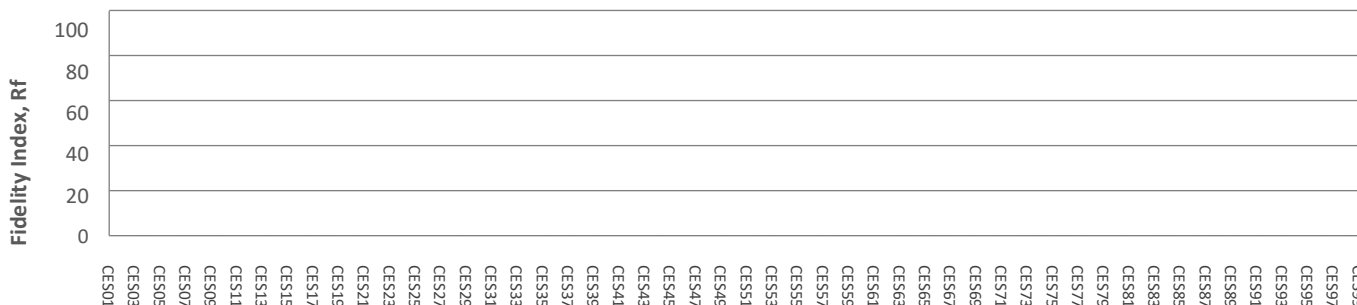
Hue bin



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	7,3	7,7	7,3	7,9	8,1	7,3	7,7	7,3	7,9	8,1
	3H	7,2	7,8	7,6	8,0	8,2	7,2	7,8	7,6	8,0	8,2
	4H	7,3	7,8	7,7	8,1	8,3	7,3	7,8	7,7	8,1	8,3
	6H	7,3	7,8	7,6	8,1	8,4	7,3	7,8	7,6	8,1	8,4
	8H	7,3	7,8	7,6	8,1	8,5	7,3	7,8	7,6	8,1	8,5
	12H	7,3	7,7	7,6	8,1	8,5	7,3	7,7	7,6	8,1	8,5
4H	2H	7,1	7,7	7,5	7,9	8,1	7,1	7,7	7,5	7,9	8,1
	3H	7,4	7,8	7,7	8,1	8,6	7,4	7,8	7,7	8,1	8,6
	4H	7,4	7,8	7,8	8,2	8,7	7,4	7,8	7,8	8,2	8,7
	6H	7,4	7,9	7,9	8,2	8,5	7,4	7,9	7,9	8,2	8,5
	8H	7,4	7,8	7,9	8,2	8,5	7,4	7,8	7,9	8,2	8,5
	12H	7,4	7,7	7,9	8,1	8,6	7,4	7,7	7,9	8,1	8,6
8H	4H	7,3	7,7	7,8	8,1	8,4	7,3	7,7	7,8	8,1	8,4
	6H	7,4	7,7	7,9	8,1	8,7	7,4	7,7	7,9	8,1	8,7
	8H	7,5	7,7	8,0	8,2	8,8	7,5	7,7	8,0	8,2	8,8
	12H	7,5	7,6	8,1	8,2	8,8	7,5	7,6	8,1	8,2	8,8
12H	4H	7,2	7,6	7,8	8,0	8,4	7,2	7,6	7,8	8,0	8,4
	6H	7,4	7,6	7,9	8,1	8,8	7,4	7,6	7,9	8,1	8,8
	8H	7,4	7,6	8,0	8,1	8,7	7,4	7,6	8,0	8,1	8,7
Variation of the observer position for the luminaire distance S											
S = 1.0H		3,1 / -2,3					3,1 / -2,3				
S = 1.5H		5,3 / -3,3					5,3 / -3,3				
S = 2.0H		7,0 / -4,2					7,0 / -4,2				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 657lm total luminous flux											