

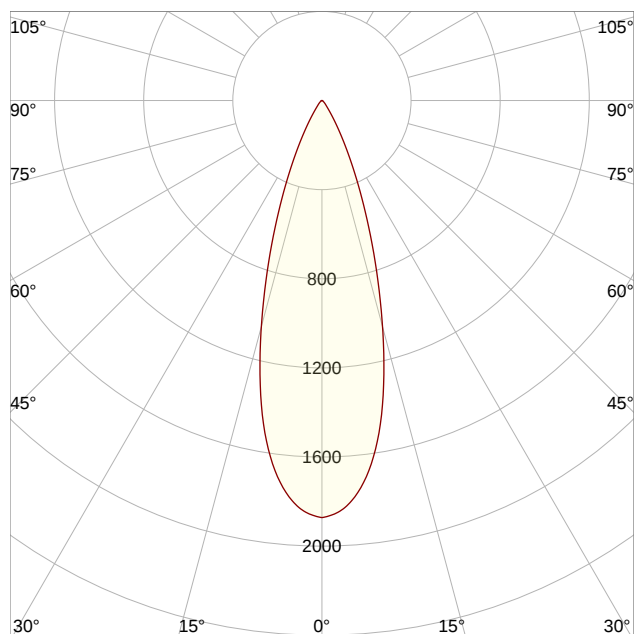
LM-79

Test Report

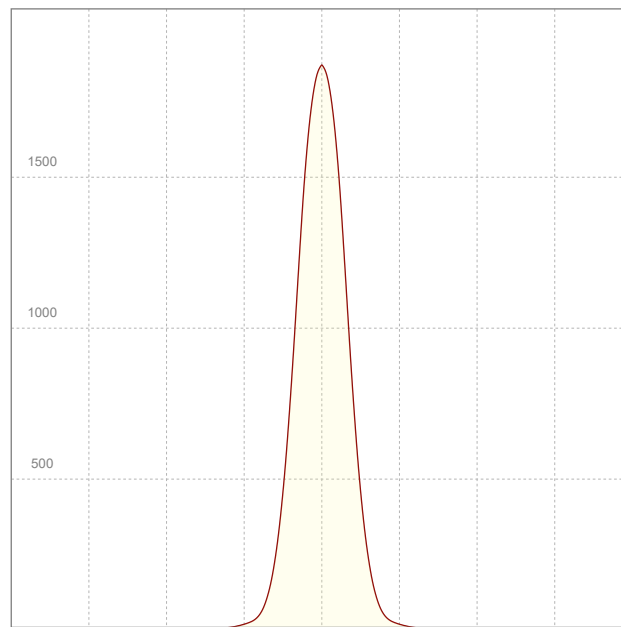
LM79-TOPAZ-COLOURFLOW-RGB3-WIDE [ALL]

General Discription

Item number	T-C-XCX-1C-N370-W
Date and time	8-12-2025 17:04:36
CCT (Kelvin)	13107 K
Beam angle	32,5°
Luminous flux	669 lm
Efficiency	52 lm/watt
Weighted energy	12,9 kWh/1000h
Power factor	0,5
CRI (RA)	70,0
Fidelity index Rf	Rf 76,4
Gammut index Rg	Rg 116,7
Peak	1871 cd



Polar curve



Linear distribution diagram



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Beam details	1m	2m	3m	4m	5m
Lux*	1871 lx	468 lx	208 lx	117 lx	75 lx

32,5°

*measured at center of beam

Footcandles*	173,8 fcd	43,4 fcd	19,3 fcd	10,9 fcd	7,0 fcd
Beam width (meter)	0,6 m	1,2 m	1,7 m	2,3 m	2,9 m
Beam width (Feet)	1,9 ft	3,8 ft	5,7 ft	7,7 ft	9,6 ft

Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
1871lx	468lx	208lx	117lx	75lx	52lx	38lx	29lx	23lx	19lx	15lx	13lx	11lx	10lx	8lx	7lx	6lx	6lx	5lx	5lx
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
173,8fcd	43,4fcd	19,3fcd	10,9fcd	7fcd	4,8fcd	3,5fcd	2,7fcd	2,1fcd	1,7fcd	1,4fcd	1,2fcd	1fcd	0,9fcd	0,8fcd	0,7fcd	0,6fcd	0,5fcd	0,5fcd	0,4fcd

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°
1871	1852	1808	1734	1629	1493	1327	1144	959	785	627	489	373	278	203	145	103	72	52	39
100%	99%	97%	93%	87%	80%	71%	61%	51%	42%	33%	26%	20%	15%	11%	8%	5%	4%	3%	2%

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°
1871	1852	1808	1734	1629	1493	1327	1144	959	785	627	489	373	278	203	145	103	72	52	39
100%	99%	97%	93%	87%	80%	71%	61%	51%	42%	33%	26%	20%	15%	11%	8%	5%	4%	3%	2%

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°
1871	1852	1808	1734	1629	1493	1327	1144	959	785	627	489	373	278	203	145	103	72	52	39
100%	99%	97%	93%	87%	80%	71%	61%	51%	42%	33%	26%	20%	15%	11%	8%	5%	4%	3%	2%

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°
1871	1852	1808	1734	1629	1493	1327	1144	959	785	627	489	373	278	203	145	103	72	52	39
100%	99%	97%	93%	87%	80%	71%	61%	51%	42%	33%	26%	20%	15%	11%	8%	5%	4%	3%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32,5°	57°	73,3°	99,0%	97,0%



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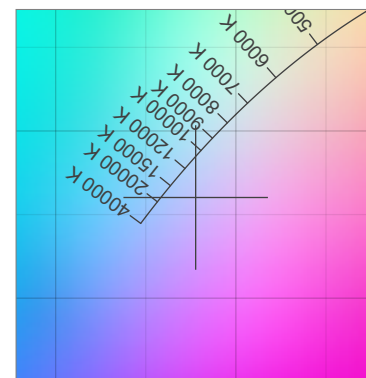
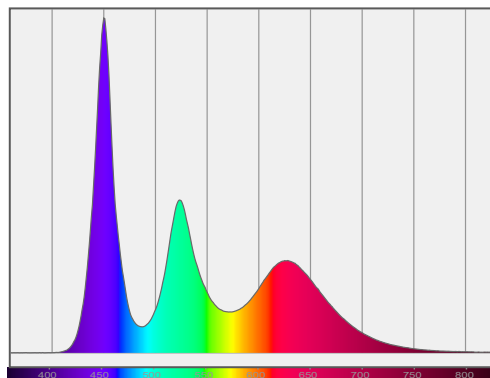
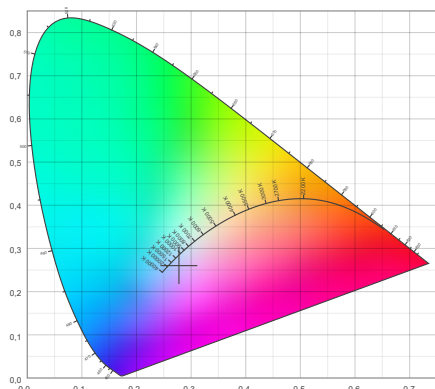
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Color details



CIE 1931

x: 0,278



Spectra

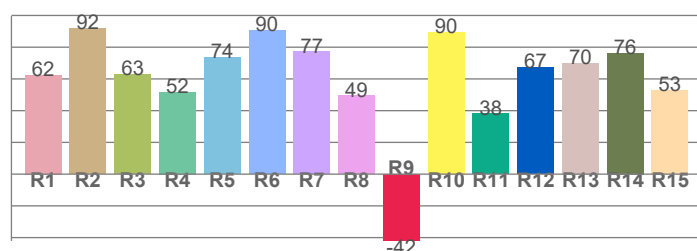
CIE 1931 ZOOM

13107 K

y: 0,260

 $\Delta uv: -0,0136$

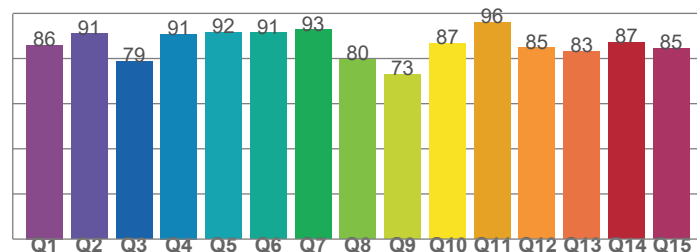
CRI: 70,0 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8
62,5	91,7	63,0	51,8	73,7	90,5	77,1	49,4
R9	R10	R11	R12	R13	R14	R15	
-42,1	89,6	38,0	67,4	70,0	76,4	53,0	

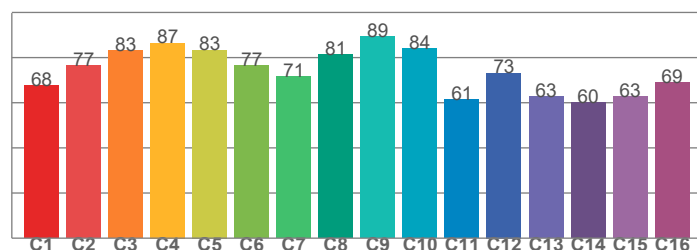
CQS: 85,2



CQS values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
86,0	91,0	78,6	90,8	91,6	91,4	92,7	79,7
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
73,0	86,8	95,9	84,8	83,2	87,1	84,5	

TM30: 76,4



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

C1	C2	C3	C4	C5	C6	C7	C8
67,5	76,6	83,1	86,5	83,3	76,6	71,5	81,4
C9	C10	C11	C12	C13	C14	C15	
89,4	83,9	61,3	73,2	62,8	60,0	62,7	

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
13107 K	70,0	-42,1	76,4	116,7	85,2	0,278	0,260	0,200	0,280	-0,0136



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LM79-TOPAZ-COLOURFLOW-RGB3-WIDE [ALL]

TM30 details

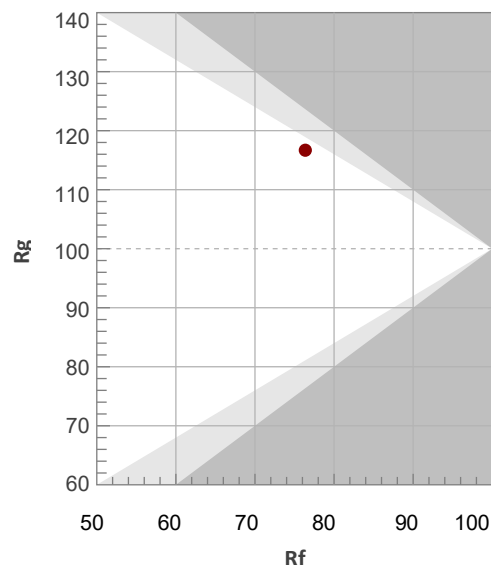
Rf 76,4

Fidelity index Rf

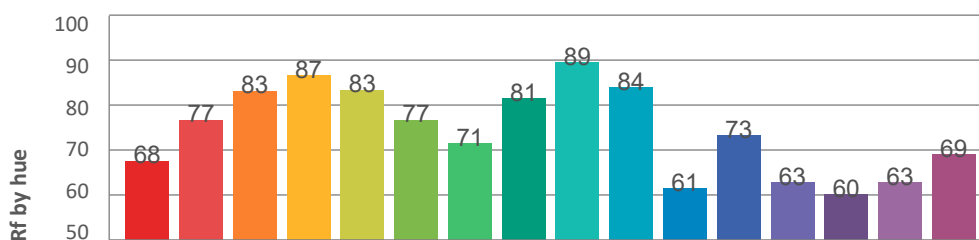
Rg 116,7

Gamut index Rg

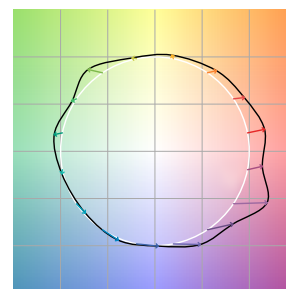
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	68	18%	0%
2	77	10%	-5%
3	83	7%	-7%
4	87	3%	2%
5	83	2%	4%
6	77	11%	11%
7	71	3%	5%
8	81	8%	3%
9	89	1%	4%
10	84	-2%	13%
11	61	0%	20%
12	73	-2%	23%
13	63	6%	28%
14	60	10%	26%
15	63	29%	21%
16	69	15%	7%



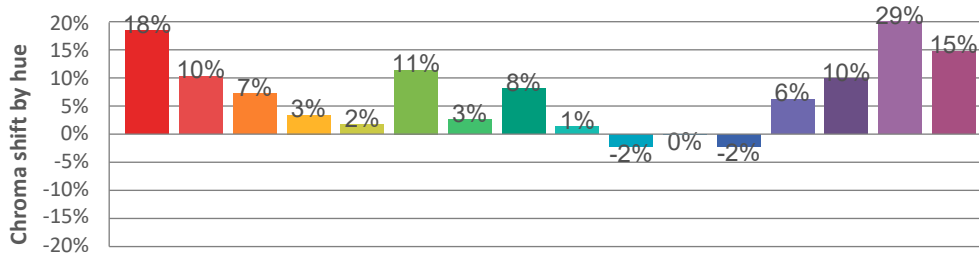
Hue binH



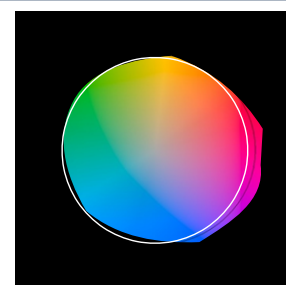
Color vector graphics



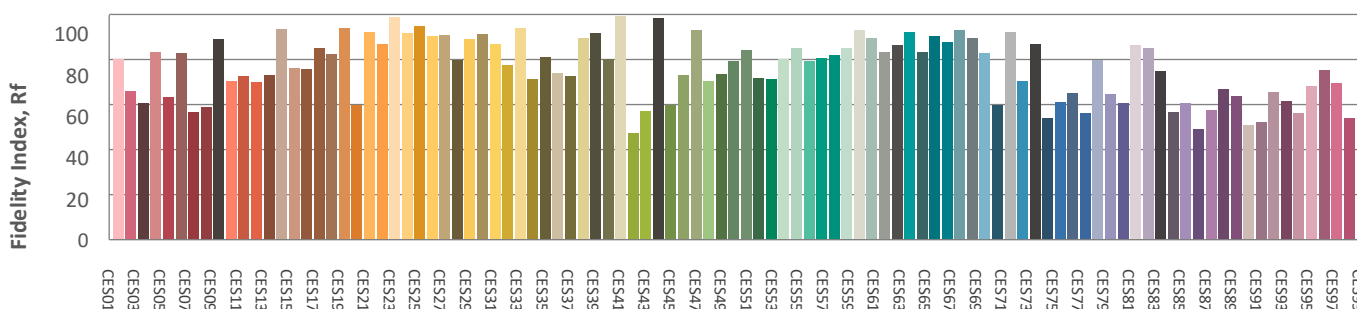
Hue bin



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	9,2	9,7	9,3	9,9	10,1	9,2	9,7	9,3	9,9	10,1
	3H	9,0	9,6	9,4	9,8	10,0	9,0	9,6	9,4	9,8	10,0
	4H	9,0	9,6	9,4	9,8	10,1	9,0	9,6	9,4	9,8	10,1
	6H	9,0	9,5	9,3	9,8	10,2	9,0	9,5	9,3	9,8	10,2
	8H	9,0	9,5	9,3	9,8	10,2	9,0	9,5	9,3	9,8	10,2
	12H	9,0	9,4	9,3	9,8	10,2	9,0	9,4	9,3	9,8	10,2
4H	2H	8,9	9,5	9,3	9,7	10,0	8,9	9,5	9,3	9,7	10,0
	3H	9,0	9,4	9,3	9,8	10,2	9,0	9,4	9,3	9,8	10,2
	4H	8,9	9,4	9,3	9,8	10,3	8,9	9,4	9,3	9,8	10,3
	6H	8,9	9,4	9,4	9,7	10,1	8,9	9,4	9,4	9,7	10,1
	8H	8,9	9,4	9,4	9,7	10,1	8,9	9,4	9,4	9,7	10,1
	12H	8,8	9,2	9,4	9,6	10,1	8,8	9,2	9,4	9,6	10,1
8H	4H	8,8	9,3	9,3	9,6	10,0	8,8	9,3	9,3	9,6	10,0
	6H	8,9	9,2	9,4	9,6	10,2	8,9	9,2	9,4	9,6	10,2
	8H	8,9	9,2	9,4	9,7	10,3	8,9	9,2	9,4	9,7	10,3
	12H	8,9	9,1	9,5	9,6	10,2	8,9	9,1	9,5	9,6	10,2
12H	4H	8,8	9,1	9,3	9,5	10,0	8,8	9,1	9,3	9,5	10,0
	6H	8,9	9,1	9,4	9,6	10,3	8,9	9,1	9,4	9,6	10,3
	8H	8,9	9,1	9,5	9,6	10,2	8,9	9,1	9,5	9,6	10,2
Variation of the observer position for the luminaire distance S											
S = 1.0H		4,5 / -4,0					4,5 / -4,0				
S = 1.5H		7,0 / -5,3					7,0 / -5,3				
S = 2.0H		8,9 / -5,9					8,9 / -5,9				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 669lm total luminous flux											