

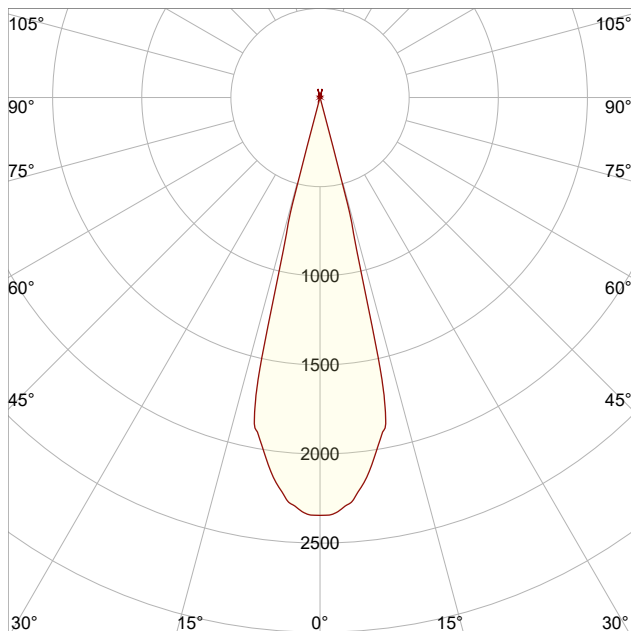
# LM-79

## Test Report

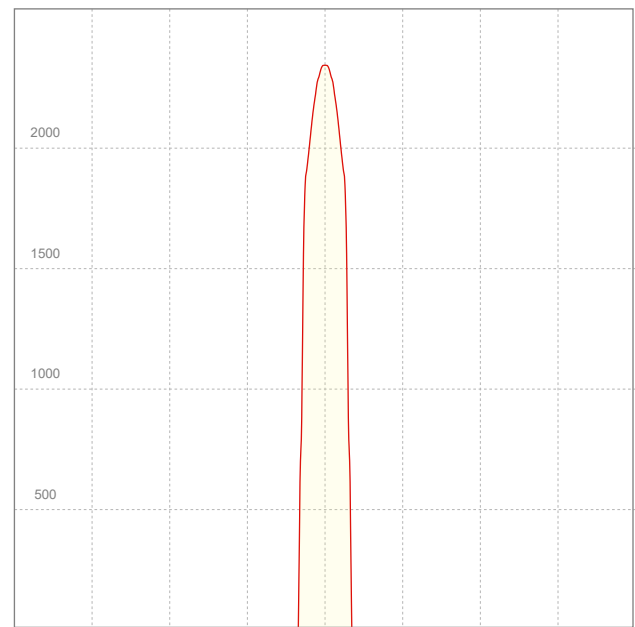
### LM79-TOPAZ-PROFILE-2700K-CRI98-SPOT

#### General Description

Item number	T-P-XLX-1B-2795-Z
Date and time	27-5-2025 14:20:40
CCT (Kelvin)	2770 K
Beam angle	26,1°
Luminous flux	363 lm
Efficiency	33 lm/watt
Weighted energy	11,1 kWh/1000h
Power factor	0,99
CRI (RA)	94,0
Fidelity index Rf	Rf 95,4
Gammut index Rg	Rg 101,7
Peak	2344 cd



*Polar curve*



*Linear distribution diagram*



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## Test Report

# LM79-TOPAZ-PROFILE-2700K-CRI98-SPOT

Beam details	1m	2m	3m	4m	5m														
Lux*	2344 lx	586 lx	260 lx	146 lx	94 lx														
*measured at center of beam																			
Footcandles*	217,7 fcd	54,4 fcd	24,2 fcd	13,6 fcd	8,7 fcd														
Beam width (meter)	0,5 m	0,9 m	1,4 m	1,9 m	2,3 m														
Beam width (Feet)	1,5 ft	3 ft	4,6 ft	6,1 ft	7,6 ft														
<b>Beam intensities</b>																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
2344lx	586lx	260lx	146lx	94lx	65lx	48lx	37lx	29lx	23lx	19lx	16lx	14lx	12lx	10lx	9lx	8lx	7lx	6lx	6lx
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
217,7fcd	54,4fcd	24,2fcd	13,6fcd	8,7fcd	6fcd	4,4fcd	3,4fcd	2,7fcd	2,2fcd	1,8fcd	1,5fcd	1,3fcd	1,1fcd	1fcd	0,9fcd	0,8fcd	0,7fcd	0,6fcd	0,5fcd
<b>Intensities in 0° c-plane</b>																			
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
2344	2342	2333	2311	2286	2249	2199	2145	2081	2012	1946	1881	1703	1218	747	303	1	1	1	1
100%	100%	100%	99%	98%	96%	94%	92%	89%	86%	83%	80%	73%	52%	32%	13%	0%	0%	0%	0%
<b>Intensities in 90° c-plane</b>																			
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
2344	2342	2333	2311	2286	2249	2199	2145	2081	2012	1946	1881	1703	1218	747	303	1	1	1	1
100%	100%	100%	99%	98%	96%	94%	92%	89%	86%	83%	80%	73%	52%	32%	13%	0%	0%	0%	0%
<b>Intensities in 180° c-plane</b>																			
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
2344	2342	2333	2311	2286	2249	2199	2145	2081	2012	1946	1881	1703	1218	747	303	1	1	1	1
100%	100%	100%	99%	98%	96%	94%	92%	89%	86%	83%	80%	73%	52%	32%	13%	0%	0%	0%	0%
<b>Intensities in 270° c-plane</b>																			
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
2344	2342	2333	2311	2286	2249	2199	2145	2081	2012	1946	1881	1703	1218	747	303	1	1	1	1
100%	100%	100%	99%	98%	96%	94%	92%	89%	86%	83%	80%	73%	52%	32%	13%	0%	0%	0%	0%
Beam angle 50%		Field angle 10%				Cutoff angle 2,5%				Intensity ratio in 120° cone				Intensity ratio in 90° cone					
26,1°		30,2°				30,8°				99,6%				99,4%					



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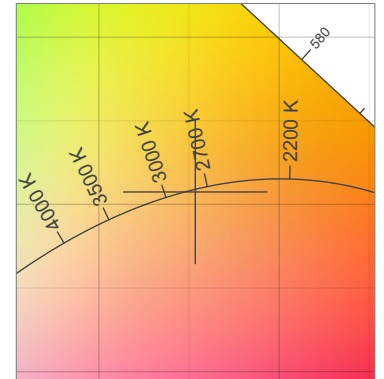
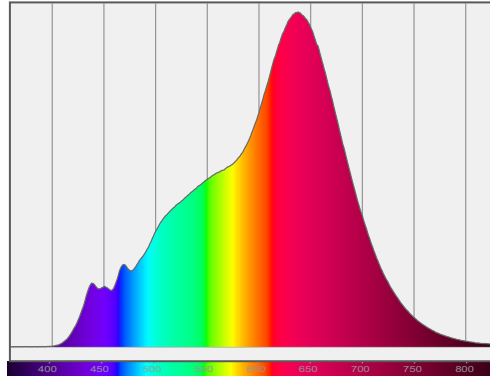
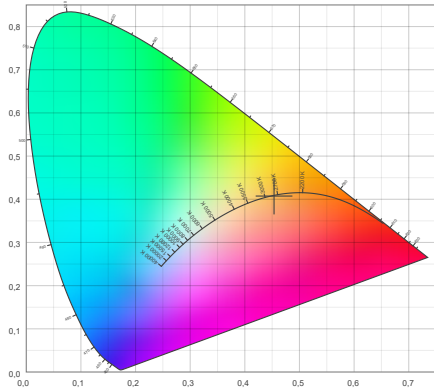
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# LM-79

## Test Report

# LM79-TOPAZ-PROFILE-2700K-CRI98-SPOT

### Color details



CIE 1931

x: 0,453



Spectra

CIE 1931 ZOOM

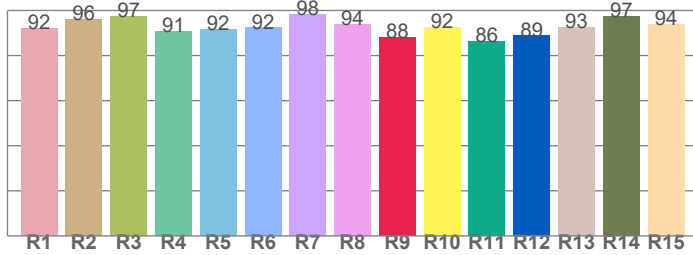
2770 K

y: 0,407

$\Delta uv$ : -0,0006

**CRI: 94,0 (R1-R8)**

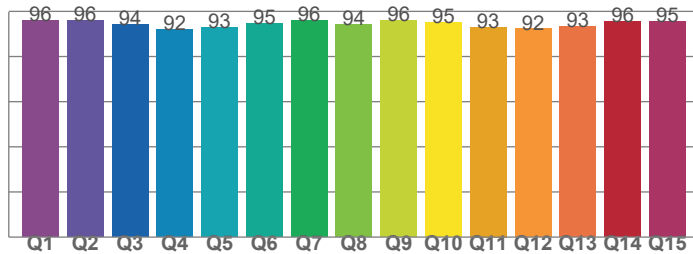
*CRI values, R1-R8 are used to calculate final CRI value*



R1	R2	R3	R4	R5	R6	R7	R8
92,2	96,0	97,4	90,8	91,7	92,3	98,3	93,8
R9	R10	R11	R12	R13	R14	R15	
88,0	92,3	86,3	88,7	92,6	97,3	93,7	

**CQS: 94,1**

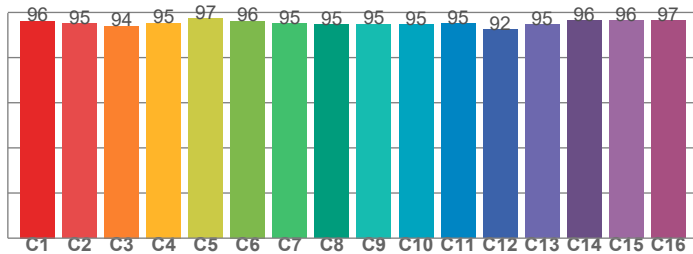
*CQS values*



Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
96,0	96,1	94,3	91,9	92,7	94,6	96,0	94,2
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
95,9	95,0	93,1	92,2	93,3	95,5	95,4	

**TM30: 95,4**

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



C1	C2	C3	C4	C5	C6	C7	C8
96,2	95,1	94,0	95,4	97,4	96,2	95,1	94,6
C9	C10	C11	C12	C13	C14	C15	
94,9	94,6	95,0	92,3	94,7	96,3	96,4	

### 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	$\Delta uv$
2770 K	94,0	88,0	95,4	101,7	94,1	0,453	0,407	0,260	0,350	-0,0006



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# LM-79

## Test Report

# LM79-TOPAZ-PROFILE-2700K-CRI98-SPOT

### TM30 details

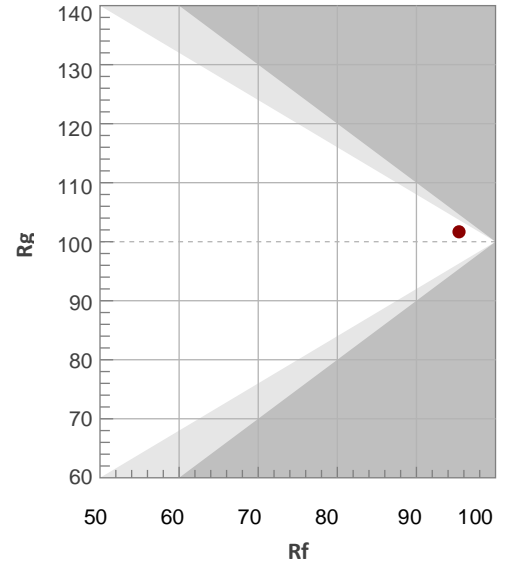
Rf 95,4

Fidelity index Rf

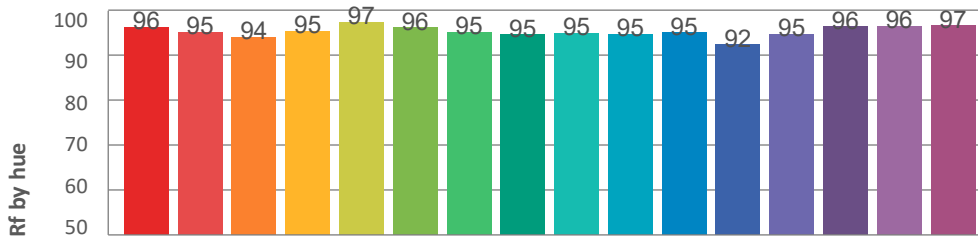
Rg 101,7

Gamut index Rg

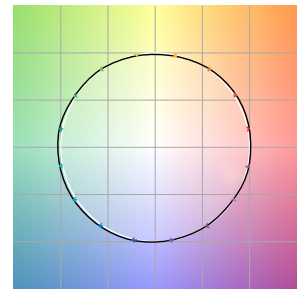
Hue Bin	Rt	Graphic shifts (%)	
		Chroma	Hue
1	96	2%	0%
2	95	2%	-2%
3	94	1%	-3%
4	95	-1%	-3%
5	97	-1%	0%
6	96	1%	3%
7	95	1%	3%
8	95	3%	1%
9	95	3%	0%
10	95	3%	-2%
11	95	2%	-3%
12	92	1%	-5%
13	95	0%	-4%
14	96	0%	-2%
15	96	0%	1%
16	97	1%	-2%



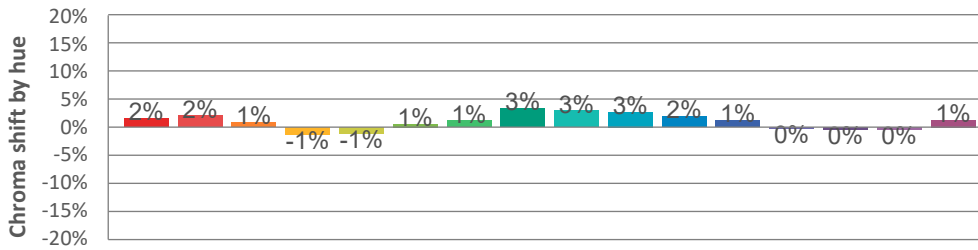
### Hue binH



### Color vector graphics



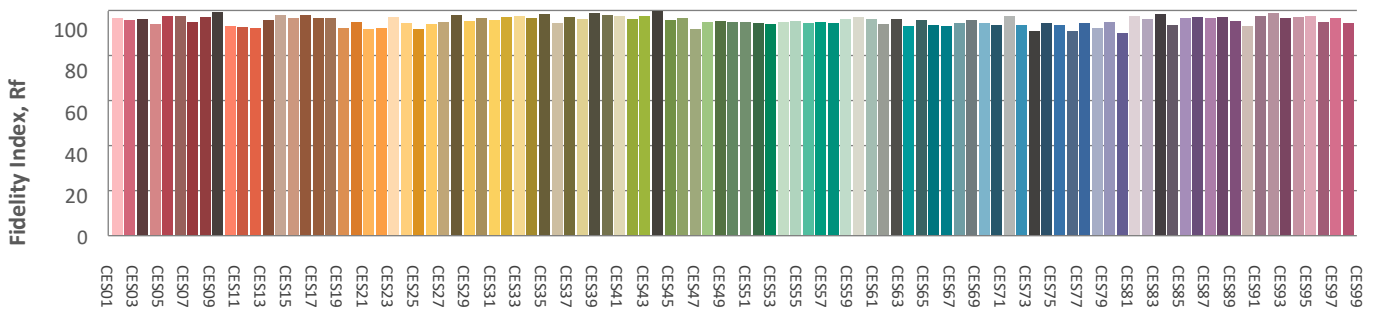
### Hue bin



### Color distortion graphics



### Color Evaluation Sample



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# LM-79

## Test Report

# LM79-TOPAZ-PROFILE-2700K-CRI98-SPOT

### 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	-12,8	-12,6	-12,8	-12,4	-12,2	-12,8	-12,6	-12,8	-12,4	-12,2
	3H	-10,7	-10,3	-10,4	-10,1	-9,9	-10,7	-10,3	-10,4	-10,1	-9,9
	4H	-9,4	-8,9	-9,0	-8,7	-8,5	-9,4	-8,9	-9,0	-8,7	-8,5
	6H	-8,2	-7,8	-7,9	-7,5	-7,2	-8,2	-7,8	-7,9	-7,5	-7,2
	8H	-7,5	-7,2	-7,2	-6,9	-6,5	-7,5	-7,2	-7,2	-6,9	-6,5
	12H	-6,9	-6,5	-6,5	-6,2	-5,8	-6,9	-6,5	-6,5	-6,2	-5,8
4H	2H	-12,1	-11,7	-11,7	-11,4	-11,2	-12,1	-11,7	-11,7	-11,4	-11,2
	3H	-9,5	-9,2	-9,2	-8,8	-8,4	-9,5	-9,2	-9,2	-8,8	-8,4
	4H	-8,1	-7,8	-7,7	-7,4	-6,9	-8,1	-7,8	-7,7	-7,4	-6,9
	6H	-6,8	-6,4	-6,3	-6,1	-5,8	-6,8	-6,4	-6,3	-6,1	-5,8
	8H	-6,1	-5,7	-5,6	-5,4	-5,1	-6,1	-5,7	-5,6	-5,4	-5,1
	12H	-5,4	-5,1	-4,9	-4,7	-4,2	-5,4	-5,1	-4,9	-4,7	-4,2
8H	4H	-7,6	-7,2	-7,1	-6,9	-6,5	-7,6	-7,2	-7,1	-6,9	-6,5
	6H	-6,0	-5,8	-5,5	-5,4	-4,8	-6,0	-5,8	-5,5	-5,4	-4,8
	8H	-5,1	-4,9	-4,6	-4,4	-3,8	-5,1	-4,9	-4,6	-4,4	-3,8
	12H	-4,1	-4,0	-3,5	-3,5	-2,9	-4,1	-4,0	-3,5	-3,5	-2,9
12H	4H	-7,5	-7,2	-7,0	-6,8	-6,4	-7,5	-7,2	-7,0	-6,8	-6,4
	6H	-5,8	-5,6	-5,3	-5,1	-4,5	-5,8	-5,6	-5,3	-5,1	-4,5
	8H	-4,8	-4,7	-4,2	-4,1	-3,5	-4,8	-4,7	-4,2	-4,1	-3,5
Variation of the observer position for the luminaire distance S											
S = 1.0H	0,0 / 0,0					0,0 / 0,0					
S = 1.5H	0,1 / -0,2					0,1 / -0,2					
S = 2.0H	0,3 / -0,3					0,3 / -0,3					
Standard table	n/a					n/a					
Correction summand	n/a					n/a					
Corrected glare indices referring to 363lm total luminous flux											



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