

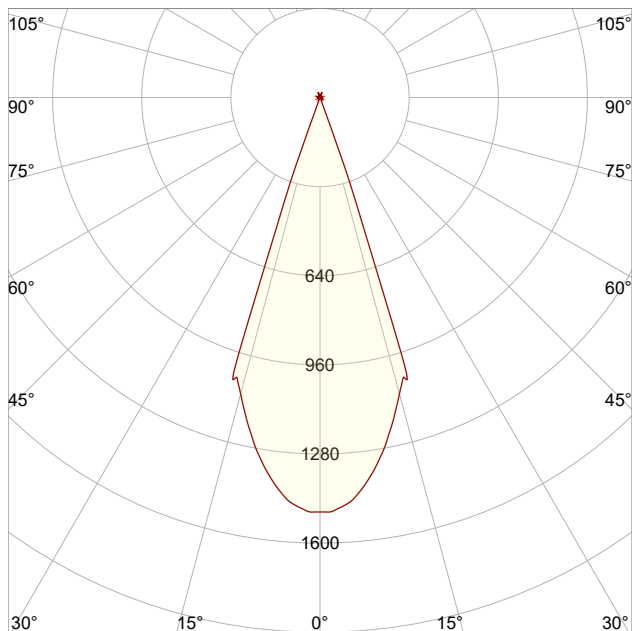
# LM-79

## Test Report

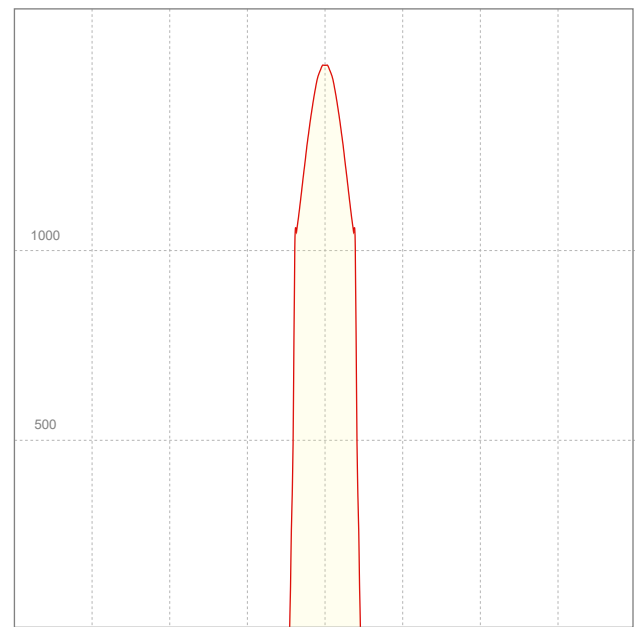
### LM79-TOPAZ-PROFILE-4000K-CRI98-WIDE

#### General Description

Item number	T-P-XLX-1B-4098-Z
Date and time	17-6-2025 14:03:29
CCT (Kelvin)	4082 K
Beam angle	36°
Luminous flux	400 lm
Efficiency	37 lm/watt
Weighted energy	10,9 kWh/1000h
Power factor	0,99
CRI (RA)	97,6
Fidelity index Rf	Rf 97,0
Gammut index Rg	Rg 100,9
Peak	1488 cd



*Polar curve*



*Linear distribution diagram*



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## Test Report

# LM79-TOPAZ-PROFILE-4000K-CRI98-WIDE

Beam details	1m	2m	3m	4m	5m																			
Lux*	1488 lx	372 lx	165 lx	93 lx	60 lx																			
*measured at center of beam																								
Footcandles*	138,2 fcd	34,6 fcd	15,4 fcd	8,6 fcd	5,5 fcd																			
Beam width (meter)	0,7 m	1,3 m	2 m	2,6 m	3,3 m																			
Beam width (Feet)	2,1 ft	4,3 ft	6,4 ft	8,5 ft	10,7 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					
1488lx	372lx	165lx	93lx	60lx	41lx	30lx	23lx	18lx	15lx	12lx	10lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx					
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					
138,2fcd	34,6fcd	15,4fcd	8,6fcd	5,5fcd	3,8fcd	2,8fcd	2,2fcd	1,7fcd	1,4fcd	1,1fcd	1fcd	0,8fcd	0,7fcd	0,6fcd	0,5fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd					
<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°					
1488	1488	1483	1472	1459	1440	1416	1388	1358	1326	1293	1256	1217	1179	1140	1102	1066	1029	749	377					
100%	100%	100%	99%	98%	97%	95%	93%	91%	89%	87%	84%	82%	79%	77%	74%	72%	69%	50%	25%					
<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°					
1488	1488	1483	1472	1459	1440	1416	1388	1358	1326	1293	1256	1217	1179	1140	1102	1066	1029	749	377					
100%	100%	100%	99%	98%	97%	95%	93%	91%	89%	87%	84%	82%	79%	77%	74%	72%	69%	50%	25%					
<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°					
1488	1488	1483	1472	1459	1440	1416	1388	1358	1326	1293	1256	1217	1179	1140	1102	1066	1029	749	377					
100%	100%	100%	99%	98%	97%	95%	93%	91%	89%	87%	84%	82%	79%	77%	74%	72%	69%	50%	25%					
<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°					
1488	1488	1483	1472	1459	1440	1416	1388	1358	1326	1293	1256	1217	1179	1140	1102	1066	1029	749	377					
100%	100%	100%	99%	98%	97%	95%	93%	91%	89%	87%	84%	82%	79%	77%	74%	72%	69%	50%	25%					
Beam angle 50%					Field angle 10%					Cutoff angle 2,5%					Intensity ratio in 120° cone					Intensity ratio in 90° cone				
36°					39,9°					40,7°					99,8%					99,7%				



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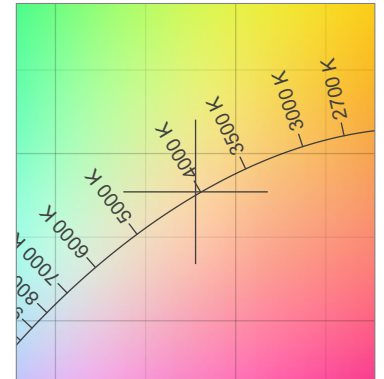
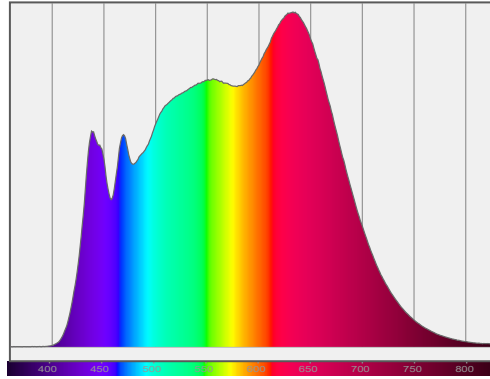
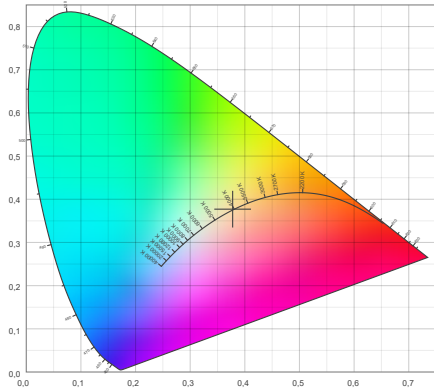
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# LM-79

## Test Report

# LM79-TOPAZ-PROFILE-4000K-CRI98-WIDE

### Color details



CIE 1931

x: 0,378



Spectra

CIE 1931 ZOOM

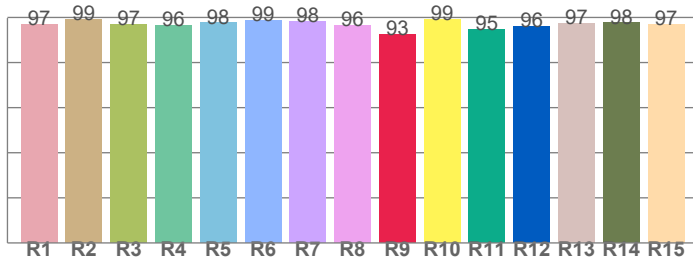
4082 K

y: 0,377

$\Delta uv$ : 0,0010

**CRI: 97,6 (R1-R8)**

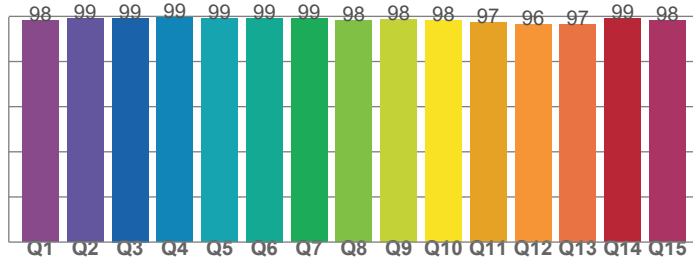
*CRI values, R1-R8 are used to calculate final CRI value*



R1	R2	R3	R4	R5	R6	R7	R8
96,9	99,2	96,9	96,4	97,6	98,6	98,4	96,4
R9	R10	R11	R12	R13	R14	R15	
92,7	99,1	94,8	96,0	97,3	97,6	96,9	

**CQS: 98,1**

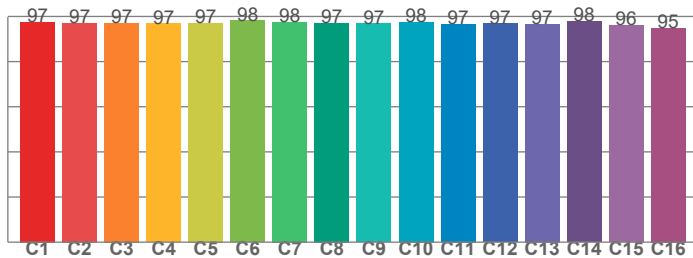
*CQS values*



Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
98,2	99,0	99,3	99,4	99,0	99,2	99,0	98,1
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
98,5	98,1	97,3	96,3	96,6	98,9	98,3	

**TM30: 97,0**

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



C1	C2	C3	C4	C5	C6	C7	C8
97,5	97,1	97,0	96,9	97,1	98,2	97,6	97,0
C9	C10	C11	C12	C13	C14	C15	
97,0	97,6	96,7	96,9	96,7	97,9	96,1	

### 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	$\Delta uv$
4082 K	97,6	92,7	97,0	100,9	98,1	0,378	0,377	0,223	0,334	0,0010



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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	-17,7	-17,4	-17,7	-17,2	-17,1	-17,7	-17,4	-17,7	-17,2	-17,1
	3H	-15,8	-15,3	-15,4	-15,1	-14,9	-15,8	-15,3	-15,4	-15,1	-14,9
	4H	-14,8	-14,3	-14,4	-14,1	-13,8	-14,8	-14,3	-14,4	-14,1	-13,8
	6H	-13,6	-13,2	-13,3	-12,9	-12,5	-13,6	-13,2	-13,3	-12,9	-12,5
	8H	-13,0	-12,7	-12,7	-12,3	-12,0	-13,0	-12,7	-12,7	-12,3	-12,0
	12H	-12,4	-12,0	-12,1	-11,7	-11,3	-12,4	-12,0	-12,1	-11,7	-11,3
4H	2H	-17,0	-16,5	-16,6	-16,3	-16,1	-17,0	-16,5	-16,6	-16,3	-16,1
	3H	-14,6	-14,3	-14,3	-13,9	-13,5	-14,6	-14,3	-14,3	-13,9	-13,5
	4H	-13,6	-13,3	-13,2	-12,8	-12,3	-13,6	-13,3	-13,2	-12,8	-12,3
	6H	-12,3	-11,8	-11,8	-11,5	-11,2	-12,3	-11,8	-11,8	-11,5	-11,2
	8H	-11,7	-11,3	-11,2	-10,9	-10,6	-11,7	-11,3	-11,2	-10,9	-10,6
	12H	-10,9	-10,6	-10,4	-10,2	-9,8	-10,9	-10,6	-10,4	-10,2	-9,8
8H	4H	-13,1	-12,7	-12,6	-12,4	-12,0	-13,1	-12,7	-12,6	-12,4	-12,0
	6H	-11,5	-11,3	-11,0	-10,8	-10,3	-11,5	-11,3	-11,0	-10,8	-10,3
	8H	-10,7	-10,5	-10,2	-10,0	-9,4	-10,7	-10,5	-10,2	-10,0	-9,4
	12H	-9,7	-9,6	-9,2	-9,1	-8,5	-9,7	-9,6	-9,2	-9,1	-8,5
12H	4H	-13,0	-12,7	-12,5	-12,3	-11,9	-13,0	-12,7	-12,5	-12,3	-11,9
	6H	-11,3	-11,1	-10,8	-10,6	-10,0	-11,3	-11,1	-10,8	-10,6	-10,0
	8H	-10,4	-10,3	-9,8	-9,8	-9,2	-10,4	-10,3	-9,8	-9,8	-9,2

### Variation of the observer position for the luminaire distance S

S = 1.0H	0,1 / -0,1	0,1 / -0,1
S = 1.5H	0,2 / -0,2	0,2 / -0,2
S = 2.0H	0,5 / -0,4	0,5 / -0,4
Standard table	n/a	n/a
Correction summand	n/a	n/a

Corrected glare indices referring to 400lm total luminous flux