

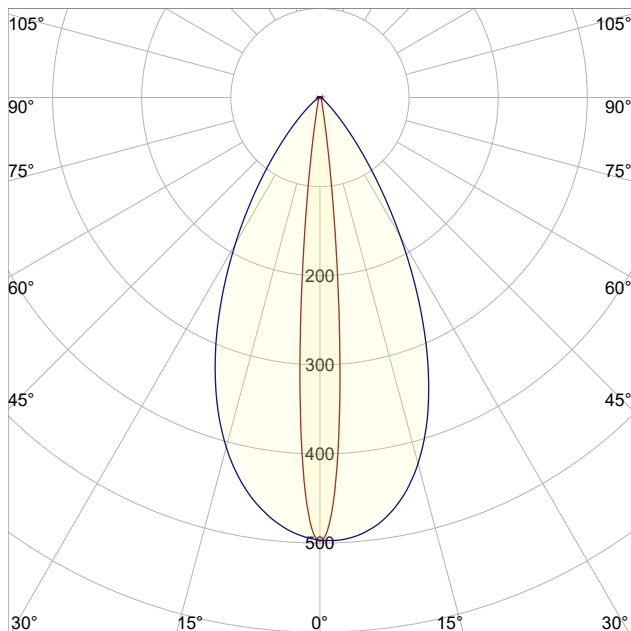
# LM-79

## Test Report

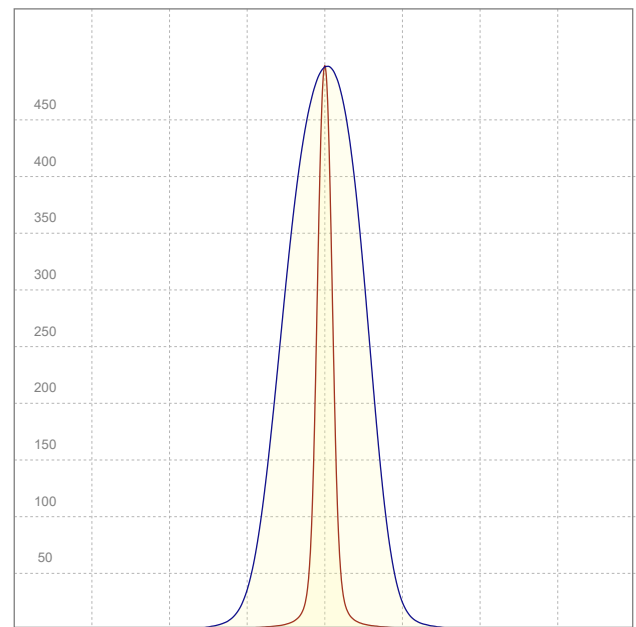
# LM79-FOCUS-G4-3000K-CRI95-SPOT-ELLIPTICAL BEAMSHAPER

### General Description

Item number	FS-XX-X-3595-Z
Date and time	26-9-2022 15:54:18
CCT (Kelvin)	3060 K
Beam angle	52,4°
Luminous flux	100 lm
Efficiency	15 lm/watt
Weighted energy	6,6 kWh/1000h
Power factor	0,79
CRI (RA)	94,3
Fidelity index Rf	Rf 92,0
Gammut index Rg	Rg 101,2
Peak	498 cd



*Polar curve*



*Linear distribution diagram*



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Beam details	1m	2m	3m	4m	5m																			
Lux*	496 lx	124 lx	55 lx	31 lx	20 lx																			
<p>20,3°</p> <p>20,3m</p>																								
*measured at center of beam																								
Footcandles*	46,1 fcd	11,5 fcd	5,1 fcd	2,9 fcd	1,8 fcd																			
Beam width (meter)	0,4 m	0,7 m	1,1 m	1,4 m	1,8 m																			
Beam width (Feet)	1,2 ft	2,3 ft	3,5 ft	4,7 ft	5,9 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					
496lx	124lx	55lx	31lx	20lx	14lx	10lx	8lx	6lx	5lx	4lx	3lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx					
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					
46,1fcd	11,5fcd	5,1fcd	2,9fcd	1,8fcd	1,3fcd	0,9fcd	0,7fcd	0,6fcd	0,5fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,2fcd	0,1fcd	0,1fcd	0,1fcd					
<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°					
496	484	448	392	321	247	178	121	81	54	37	27	20	16	14	12	10	9	8	7					
100%	98%	90%	79%	65%	50%	36%	24%	16%	11%	7%	5%	4%	3%	3%	2%	2%	2%	2%	1%					
<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°					
496	497	497	496	495	493	490	486	482	476	470	463	455	446	436	425	413	400	387	372					
100%	100%	100%	100%	100%	99%	99%	98%	97%	96%	95%	93%	92%	90%	88%	86%	83%	81%	78%	75%					
<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°					
496	484	448	391	321	247	178	123	83	56	39	28	21	17	14	12	10	9	8	7					
100%	98%	90%	79%	65%	50%	36%	25%	17%	11%	8%	6%	4%	3%	3%	2%	2%	2%	2%	1%					
<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°					
496	495	493	490	487	483	478	473	467	460	453	445	436	427	417	406	394	382	370	356					
100%	100%	99%	99%	98%	97%	96%	95%	94%	93%	91%	90%	88%	86%	84%	82%	79%	77%	74%	72%					
<b>Beam angle 50%</b>					<b>Field angle 10%</b>					<b>Cutoff angle 2,5%</b>					<b>Intensity ratio in 120° cone</b>					<b>Intensity ratio in 90° cone</b>				
20,3°					35,9°					50,4°					98,4%					94,9%				



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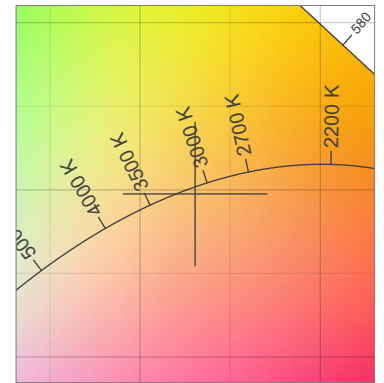
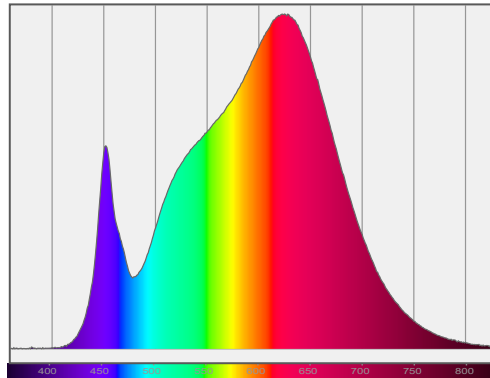
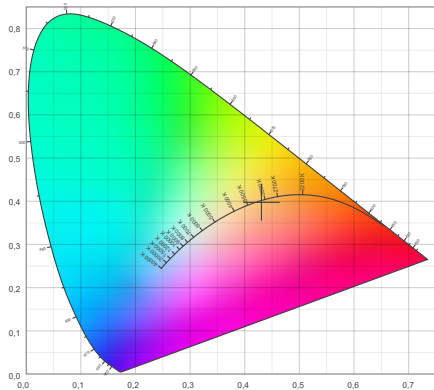
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# LM-79

## Test Report

# LM79-FOCUS-G4-3000K-CRI95-SPOT-ELLIPTICAL BEAMSHAPER

### Color details



CIE 1931

x: 0,431



Spectra

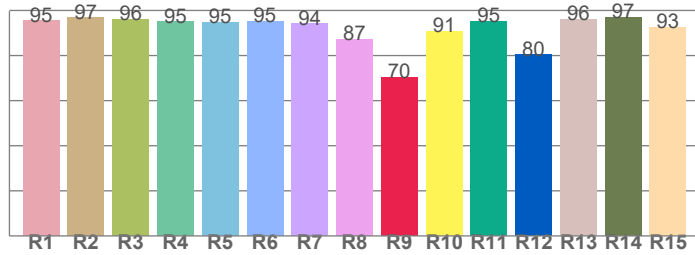
CIE 1931 ZOOM

3060 K

y: 0,398

$\Delta uv: -0,0017$

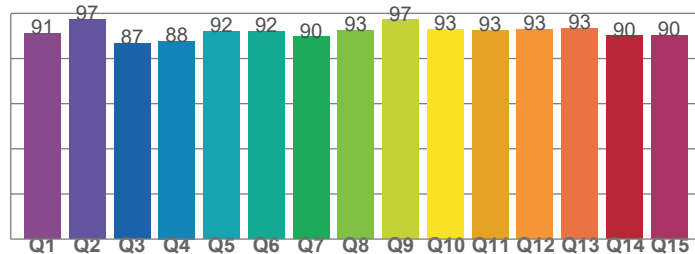
**CRI: 94,3 (R1-R8)**



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

R1	R2	R3	R4	R5	R6	R7	R8
95,4	96,7	96,0	95,0	94,7	95,1	94,1	87,3
R9	R10	R11	R12	R13	R14	R15	
70,5	90,7	95,2	80,3	95,9	96,9	92,6	

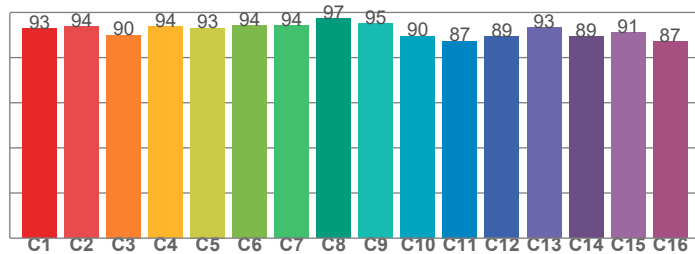
**CQS: 91,3**



*CQS values*

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
91,2	97,2	86,7	87,8	92,1	92,1	89,6	92,5
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
97,1	92,9	92,7	92,9	93,5	90,1	90,2	

**TM30: 92,0**



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

C1	C2	C3	C4	C5	C6	C7	C8
93,0	93,7	90,0	93,8	93,1	94,3	94,1	97,2
C9	C10	C11	C12	C13	C14	C15	
95,2	89,6	87,4	89,3	93,3	89,4	91,2	

### 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	$\Delta uv$
3060 K	94,3	70,5	92,0	101,2	91,3	0,431	0,398	0,249	0,345	-0,0017



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# LM-79

## Test Report

# LM79-FOCUS-G4-3000K-CRI95-SPOT-ELLIPTICAL BEAMSHAPER

### TM30 details

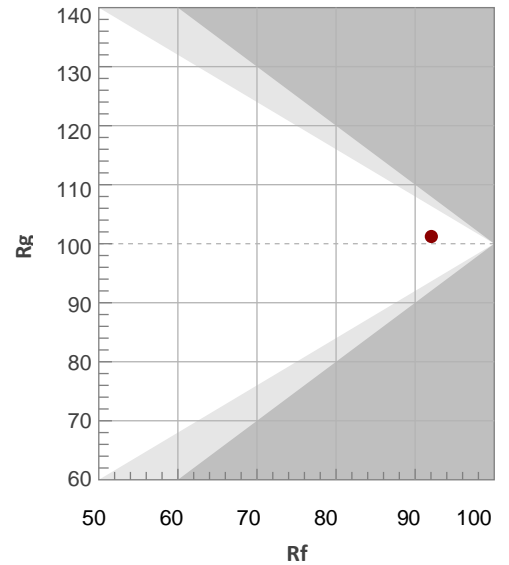
Rf 92,0

Fidelity index Rf

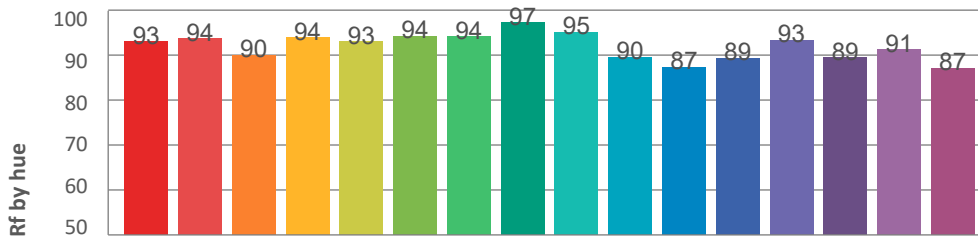
Rg 101,2

Gamut index Rg

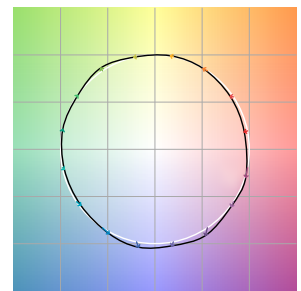
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	93	-4%	0%
2	94	-3%	2%
3	90	-1%	5%
4	94	0%	3%
5	93	0%	3%
6	94	4%	0%
7	94	0%	-2%
8	97	0%	-2%
9	95	-2%	2%
10	90	-2%	6%
11	87	1%	9%
12	89	5%	3%
13	93	4%	-3%
14	89	6%	-6%
15	91	1%	-6%
16	87	0%	-10%



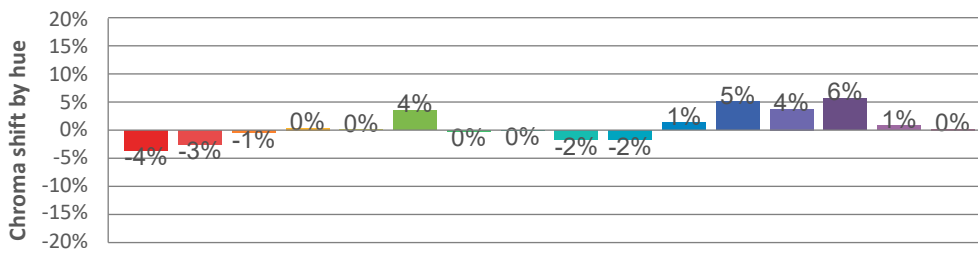
### Hue binH



### Color vector graphics



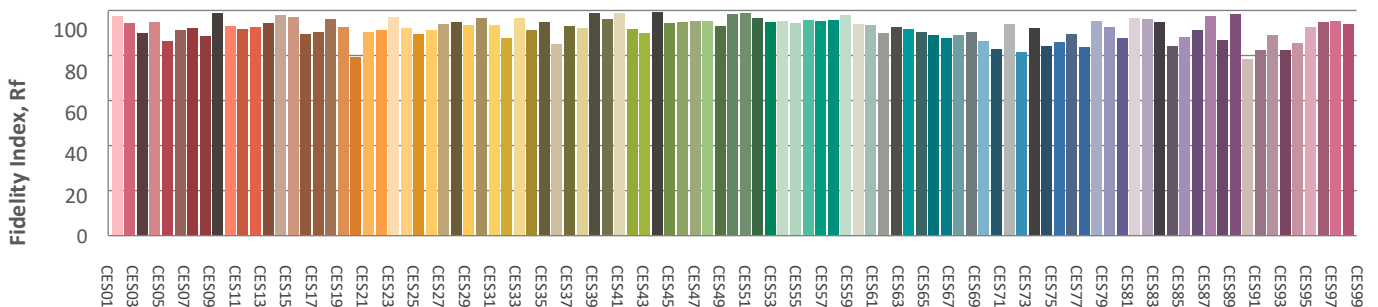
### Hue bin



### Color distortion graphics



### Color Evaluation Sample



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# LM-79

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# LM79-FOCUS-G4-3000K-CRI95-SPOT-ELLIPTICAL BEAMSHAPER

### 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				
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

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

n/a	n/a	n/a
n/a	n/a	n/a
n/a	n/a	n/a
Standard table	n/a	n/a
Correction summand	n/a	n/a

### Corrected glare indices referring to 100lm total luminous flux



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