

# LM-79

## Test Report

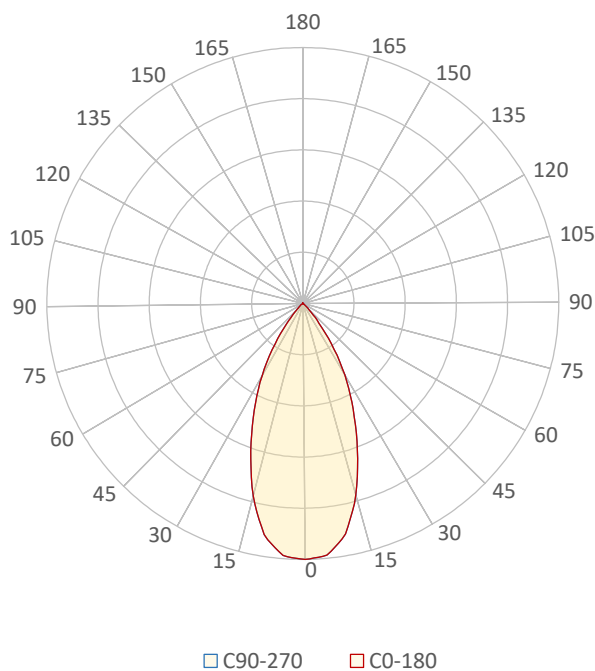
# LM79-MIKA-COLOURFLOW-RGBW-MEDIUM [all on]

### General Discription

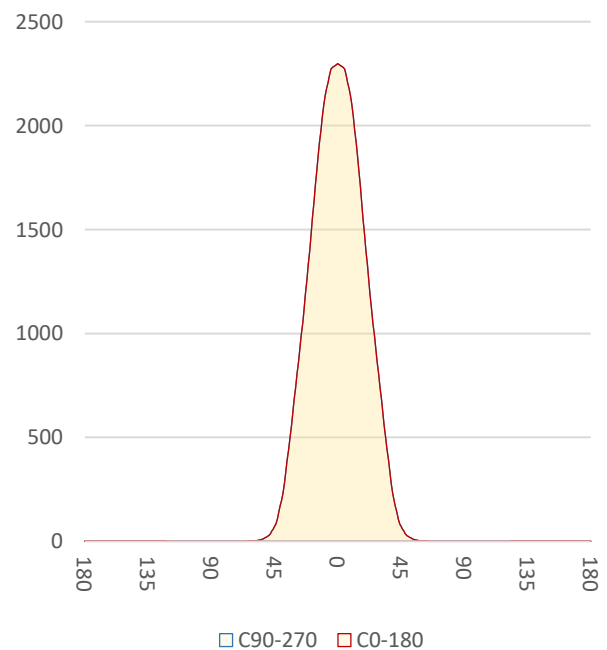
Item number	M-XXX-X-
Date and time	1-5-2020 11:58:06
CCT (Kelvin)	10413 K
Beam angle	47 x 47°
Luminous flux	1524 lm
Efficiency	56 lm/watt
Weighted energy	27,3 kWh/1000h
Power factor	0,56
CRI (RA)	34,5
Fidelity index Rf	Rf 0,0
Gammut index Rg	Rg n/a
Peak	2298 cd



Polar diagram



Cartesian diagram



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Beam details	1m	2m	3m	4m	5m														
<b>Lux*</b>	2298 lx	575 lx	255 lx	144 lx	92 lx														
<i>*measured at center of beam</i>																			
<b>Footcandles*</b>	213,5 fcd	53,4 fcd	23,7 fcd	13,3 fcd	8,5 fcd														
<b>Beam width (meter)</b>	0,9 m	1,7 m	2,6 m	3,5 m	4,3 m														
<b>Beam width 90° (meter)</b>	0,9 m	1,7 m	2,6 m	3,5 m	4,3 m														
<b>Beam width (Feet)</b>	2,9 ft	5,7 ft	8,6 ft	11,4 ft	14,3 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
2298lx	575lx	255lx	144lx	92lx	64lx	47lx	36lx	28lx	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
213,5fcd	53,4fcd	23,7fcd	13,3fcd	8,5fcd	5,9fcd	4,4fcd	3,3fcd	2,6fcd	2,1fcd	1,8fcd	1,5fcd	1,3fcd	1,1fcd	0,9fcd	0,8fcd	0,7fcd	0,7fcd	0,6fcd	0,5fcd
<b>Intensities in 0° c-plane</b>																			
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2298	2294	2281	2268	2191	2110	2000	1859	1717	1557	1397	1252	1115	981	864	746	623	498	380	278
100%	100%	99%	99%	95%	92%	87%	81%	75%	68%	61%	54%	48%	43%	38%	32%	27%	22%	17%	12%
<b>Intensities in 90° c-plane</b>																			
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2298	2294	2281	2268	2191	2110	2000	1859	1717	1557	1397	1252	1115	981	864	746	623	498	380	278
100%	100%	99%	99%	95%	92%	87%	81%	75%	68%	61%	54%	48%	43%	38%	32%	27%	22%	17%	12%
<b>Intensities in 180° c-plane</b>																			
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2298	2294	2281	2268	2191	2110	2000	1859	1717	1557	1397	1252	1115	981	864	746	623	498	380	278
100%	100%	99%	99%	95%	92%	87%	81%	75%	68%	61%	54%	48%	43%	38%	32%	27%	22%	17%	12%
<b>Intensities in 270° c-plane</b>																			
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2298	2294	2281	2268	2191	2110	2000	1859	1717	1557	1397	1252	1115	981	864	746	623	498	380	278
100%	100%	99%	99%	95%	92%	87%	81%	75%	68%	61%	54%	48%	43%	38%	32%	27%	22%	17%	12%
<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>					
47°		77,9°				90,1°				99,6%				98,2%					



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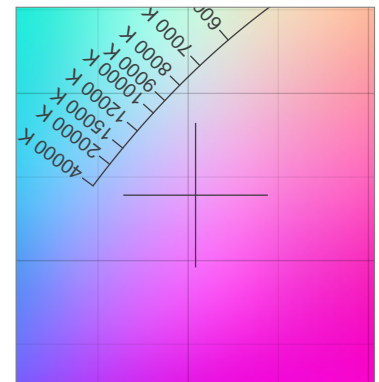
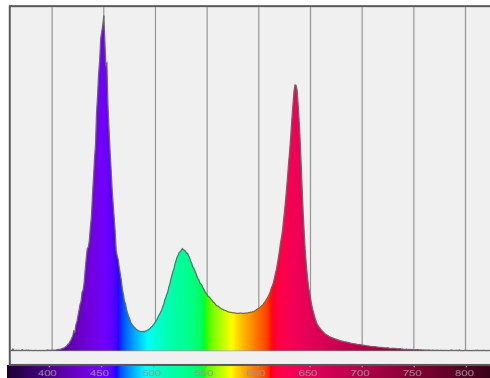
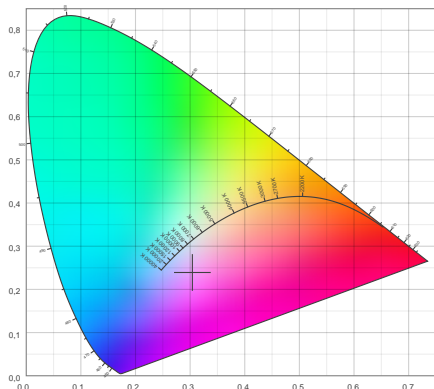
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# LM-79

## Test Report

# LM79-MIKA-COLOURFLOW-RGBW-MEDIUM [allon]

### Color details



CIE 1931

x: 0,304



Spectra

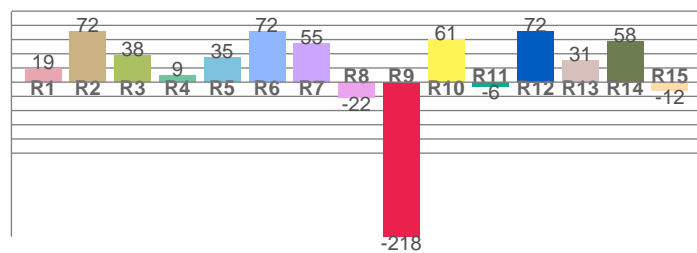
CIE 1931 ZOOM

10413 K

y: 0,239

$\Delta uv$ : -0,0488

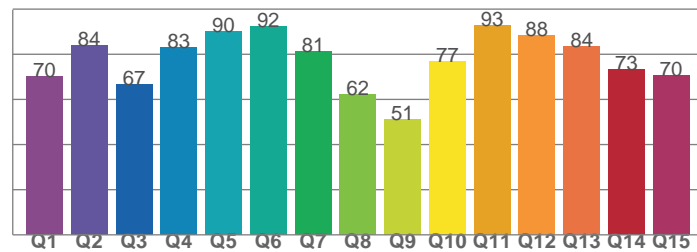
CRI: 34,5 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8
18,9	71,5	37,8	9,1	34,6	71,8	55,0	-22,5
R9	R10	R11	R12	R13	R14	R15	
-217,6	60,6	-5,8	71,9	31,2	58,1	-12,4	

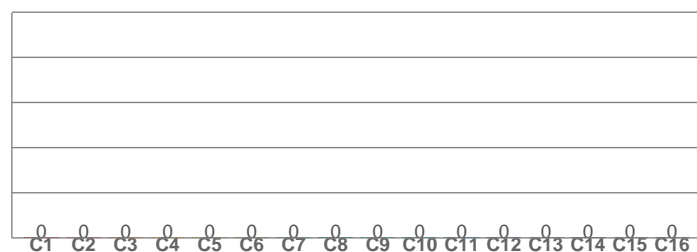
CQS: 74,9



CQS values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
70,1	84,0	66,7	83,1	90,4	92,2	81,2	62,1
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
51,3	76,8	92,7	88,5	83,7	73,2	70,5	

TM30: 0,0



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

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	$\Delta uv$



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## Test Report

# LM79-MIKA-COLOURFLOW-RGBW-MEDIUM [all on]

10413 K    34,5    -217,6    0,0    n/a    74,9    0,304    0,239    0,231    0,273    -0,0488

### TM30 details

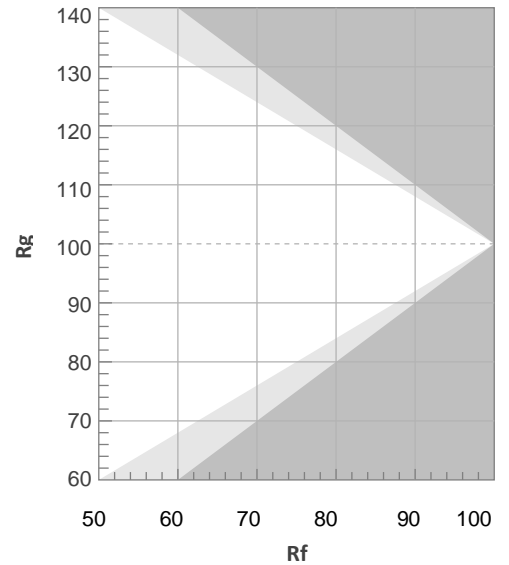
Rf 0,0

Fidelity index Rf

Rg n/a

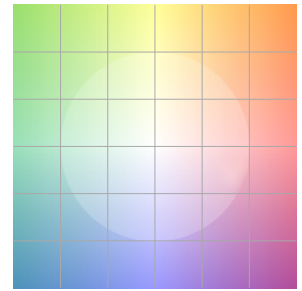
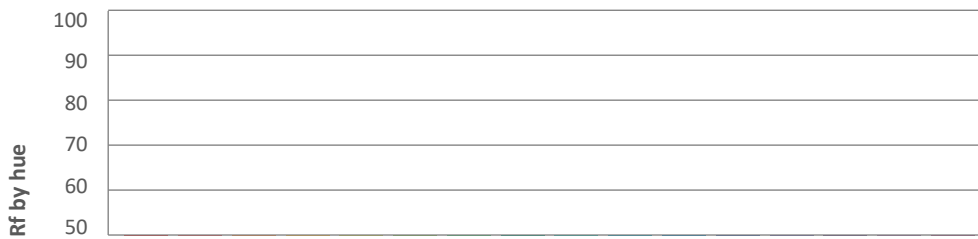
Gammut index Rg

Hue Bin	R <sub>f</sub>	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%



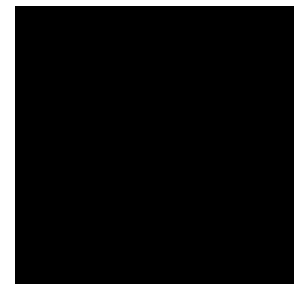
### Hue binH

### Color vector graphics



### Hue bin

### Color distortion graphics



### Color Evaluation Sample



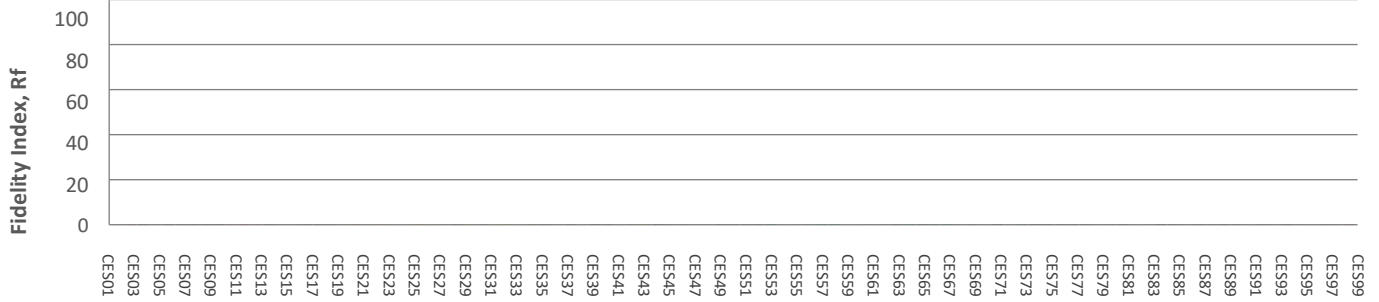
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## Test Report

# LM79-MIKA-COLOURFLOW-RGBW-MEDIUM [all on]



### 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

Variation of the observer position for the luminaire distance S



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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 1524lm total luminous flux		



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