

## Photometric test report

Family  
Mira® 21

Order number: 51FR527G454A  
EAN: 4058352672495

LP number  
59366\_4



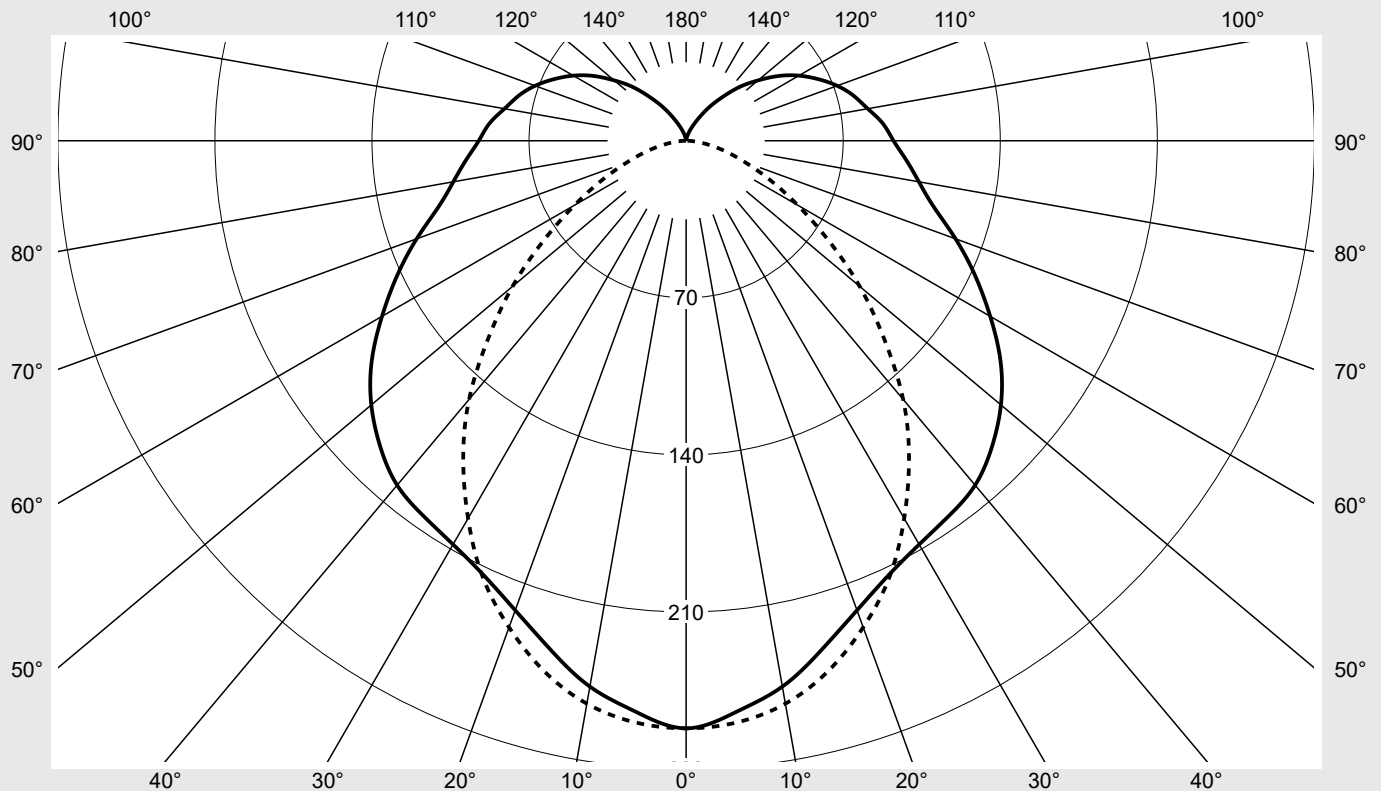
**Version** clean room luminaire, cover frosted, PMMA, wide distribution  
**Lamps** LED 4000 K | CRI ≥ 80  
**Controlgear** ECG  
**Rated values** Net luminous flux = 5500 lm  
Power consumption = 39.0 W  
Luminous efficacy = 141 lm/W

serial  
documentation  
21.12.2022

siteco

Luminous intensity in cd/klm **C180-0** **C270-90**

Imax: 262 cd/klm



### Classifications

DIN 5040 B 3 1  
CIE N1=40 N2=68 N3=87  
N4=81 N5=100

### Luminaire light output ratios

$\eta_{LB}$  100.0%  
 $\phi_u$  80.8%  
 $\phi_o$  19.2%

### Measurement conditions

DIN EN 13032 and DIN 5032

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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

C-planes γ	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Luminous intensity in cd/klm								Luminous flux in lm/klm	
0°	261.9	261.9	261.9	261.9	261.9	261.9	261.9	1.6	1.6
5°	255.5	259.2	258.9	260.7	260.8	259.9	260.2	12.4	14.0
10°	247.0	249.9	250.4	252.7	253.4	253.8	254.7	24.0	37.9
15°	234.5	237.1	237.7	240.0	241.7	243.4	244.7	34.0	72.0
20°	222.7	224.5	223.4	225.1	226.7	228.5	230.8	42.3	114.3
25°	213.6	213.4	210.6	209.4	208.9	211.3	214.5	48.9	163.3
30°	207.7	206.9	201.4	195.9	192.0	192.3	194.4	54.3	217.6
35°	204.1	201.9	193.7	184.1	175.1	171.6	173.2	58.4	276.0
40°	200.4	197.1	187.3	172.6	158.0	150.3	150.5	61.1	337.1
45°	192.8	189.8	179.1	161.3	141.8	128.0	124.8	61.9	399.1
50°	183.1	179.7	169.3	150.3	126.6	107.1	101.0	61.2	460.3
55°	171.0	167.8	158.3	138.6	112.9	88.5	77.5	59.1	519.5
60°	156.5	153.7	144.7	126.3	100.6	71.8	57.4	55.7	575.2
65°	142.1	139.1	130.9	113.8	88.8	58.5	41.1	51.6	626.7
70°	127.8	125.2	118.0	101.5	78.3	48.1	27.9	47.1	673.8
75°	114.3	112.4	105.4	91.2	68.7	38.6	18.1	42.6	716.4
80°	105.3	103.2	97.1	83.1	61.1	32.2	10.1	39.1	755.5
85°	98.5	96.7	91.0	76.9	55.2	26.6	4.2	36.2	791.7
90°	92.4	90.8	84.6	71.1	49.2	21.4	0.7	33.2	824.9
95°	88.0	85.5	79.4	64.9	43.4	17.5	0.7	30.5	855.4
100°	82.2	80.5	73.7	59.1	38.0	13.6	0.4	27.5	883.0
105°	77.3	74.7	67.6	53.5	32.8	10.6	0.9	24.6	907.5
110°	71.6	69.0	62.0	47.0	27.4	8.2	0.3	21.4	928.9
115°	65.0	62.7	55.3	41.0	22.5	5.9	0.7	18.2	947.2
120°	58.0	55.5	48.1	34.6	17.7	4.6	0.7	15.0	962.2
125°	50.3	48.0	40.9	28.0	13.3	3.6	0.3	11.9	974.1
130°	41.9	40.1	33.0	22.0	9.9	2.5	0.8	9.0	983.1
135°	34.1	31.8	26.0	16.4	7.1	2.1	0.3	6.5	989.6
140°	25.7	24.3	19.1	11.3	5.0	1.6	0.6	4.4	994.0
145°	18.8	17.3	13.1	7.9	3.5	1.2	0.5	2.8	996.7
150°	12.5	11.7	8.6	5.1	2.6	1.2	0.6	1.6	998.4
155°	7.9	7.1	5.1	3.4	1.9	0.9	0.5	0.9	999.2
160°	4.8	4.1	3.1	2.4	1.4	0.8	0.8	0.5	999.7
165°	2.6	2.1	1.9	1.3	1.0	0.7	0.4	0.2	999.9
170°	1.0	1.1	0.9	1.0	0.8	0.7	0.6	0.1	1000.0
175°	0.5	0.5	0.6	0.7	0.7	0.6	0.8	0.0	1000.0
180°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	1000.0

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UGR-Table		Standard room									
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	20.8	22.3	21.3	22.8	23.4	19.0	20.5	19.5	21.0	21.6
	3H	22.6	24.0	23.1	24.5	25.1	19.9	21.4	20.5	21.9	22.5
	4H	23.5	24.8	24.0	25.3	26.0	20.3	21.6	20.8	22.2	22.8
	6H	24.3	25.5	24.9	26.1	26.8	20.5	21.8	21.1	22.4	23.0
	8H	24.7	25.8	25.4	26.4	27.2	20.6	21.8	21.1	22.3	23.0
	12H	25.2	26.2	25.8	26.8	27.6	20.6	21.7	21.2	22.3	23.0
4H	2H	21.3	22.7	21.9	23.2	23.8	20.0	21.2	20.5	21.8	22.4
	3H	23.4	24.5	24.0	25.1	25.8	21.3	22.4	21.9	23.0	23.7
	4H	24.4	25.5	25.0	26.1	26.8	21.9	22.9	22.5	23.5	24.2
	6H	25.5	26.4	26.1	27.0	27.8	22.3	23.2	22.9	23.9	24.6
	8H	26.0	26.8	26.7	27.5	28.3	22.4	23.3	23.1	24.0	24.7
	12H	26.5	27.2	27.2	27.9	28.7	22.5	23.3	23.2	24.0	24.8
8H	4H	24.7	25.6	25.4	26.3	27.0	22.6	23.4	23.3	24.1	24.9
	6H	26.0	26.7	26.7	27.4	28.2	23.4	24.1	24.1	24.8	25.6
	8H	26.7	27.3	27.4	28.0	28.9	23.7	24.4	24.4	25.1	25.9
	12H	27.4	27.9	28.1	28.7	29.5	24.0	24.6	24.7	25.3	26.1
12H	4H	24.8	25.5	25.4	26.2	27.0	22.8	23.5	23.5	24.2	25.0
	6H	26.1	26.8	26.8	27.5	28.3	23.7	24.3	24.4	25.0	25.9
	8H	26.9	27.4	27.6	28.2	29.0	24.2	24.7	24.9	25.5	26.3

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 896	H(C0) = 65	H(C180) = 65
						B = 55	H(C90) = 0	H(C270) = 0
C-planes	$\gamma$	0°	15°	30°	45°	60°	75°	90°
		180°	165°	150°	135°	120°	105°	270°
		195°	210°	225°	240°	255°	285°	
		345°	330°	315°	300°			
Luminance in cd/m <sup>2</sup>								
45°		13946.3	13988.2	13969.7	13870.5	14064.2	15476.2	19696.2
50°		13203.2	13215.3	13244.5	13074.6	12899.2	13625.8	17534.4
55°		12382.4	12414.6	12513.5	12292.0	11913.7	11986.4	15077.3
60°		11464.9	11520.2	11644.8	11517.1	11095.9	10475.0	12817.9
65°		10616.7	10652.8	10816.7	10765.7	10339.5	9326.8	10862.6
70°		9818.6	9879.7	10099.2	10051.6	9733.6	8521.1	9091.9
75°		9113.4	9210.2	9432.6	9544.8	9244.4	7764.9	7805.5
80°		8790.6	8875.6	9176.1	9307.2	9028.7	7567.0	6498.5
85°		8690.2	8818.6	9172.3	9332.0	9118.3	7567.9	5403.9

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**Luminance values in cd/m²**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°

