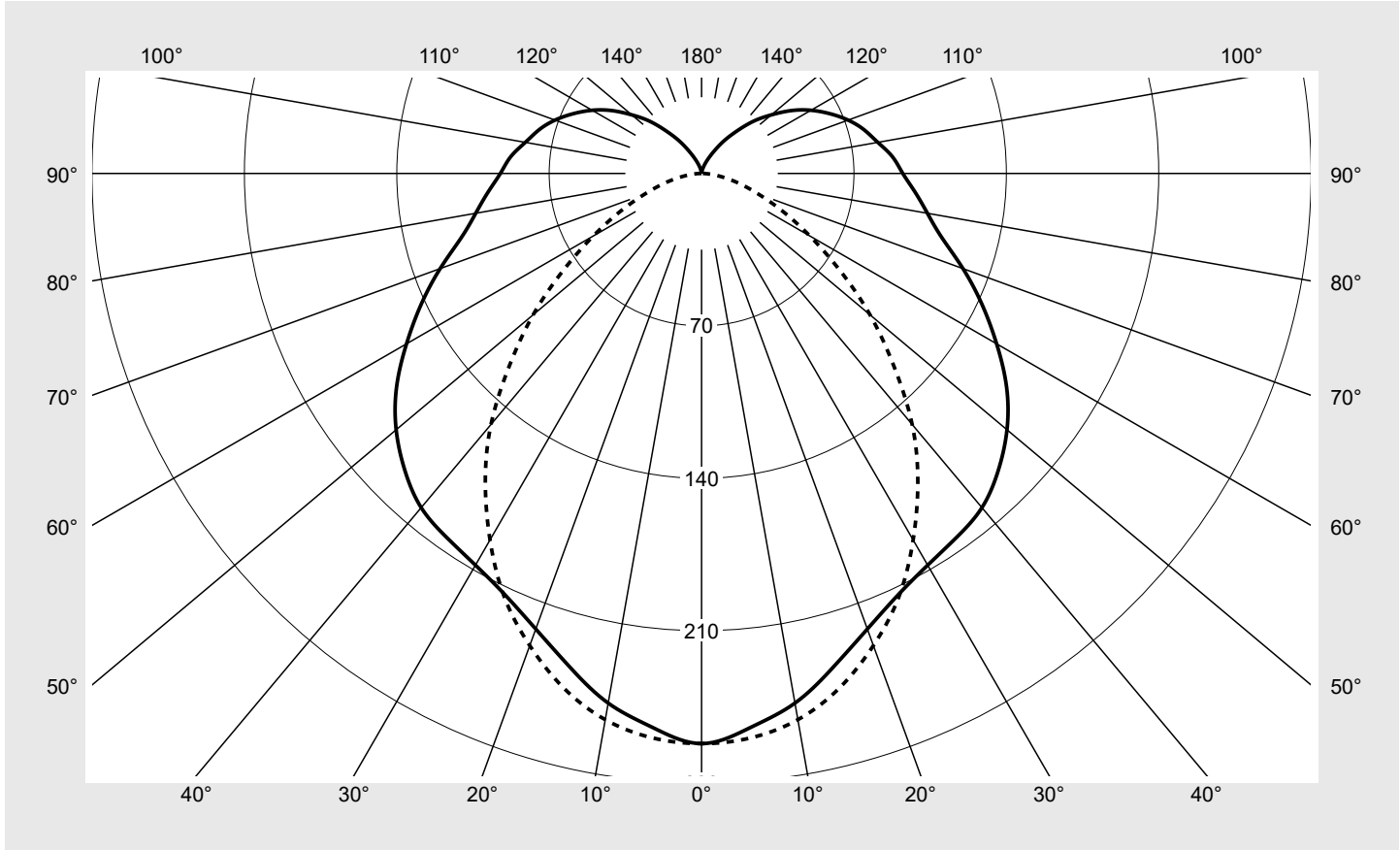


Photometric test report

Family Mira® 21	Order number: 51FR527K444A EAN: 4058352672501	LP number 59366_5
	Version clean room luminaire, cover frosted, PMMA, wide distribution	serial documentation 21.12.2022
	Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Rated values Net luminous flux = 4030 lm Power consumption = 27.0 W Luminous efficacy = 149.3 lm/W	
		

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	
η_{LB}	100.0%
ϕ_u	80.8%
ϕ_o	19.2%

Measurement conditions
 DIN EN 13032 and DIN 5032

Photometric test report

Family Mira® 21	Order number: 51FR527K444A EAN: 4058352672501	LP number 59366_5
Table of values for luminous intensities		Maximum luminous intensity



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

Photometric test report

Family Mira® 21	Order number: 51FR527K444A EAN: 4058352672501	LP number 59366_5
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UGR-Table	Standard room	siteco
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Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	View crosswise (C0)					View endwise (C90)					
x	y										
2H	2H	18.7	20.2	19.2	20.7	21.3	16.9	18.4	17.4	18.9	19.5
	3H	20.5	21.9	21.0	22.4	23.0	17.9	19.3	18.4	19.8	20.4
	4H	21.4	22.7	21.9	23.2	23.9	18.2	19.6	18.8	20.1	20.7
	6H	22.3	23.4	22.8	24.0	24.7	18.5	19.7	19.0	20.3	20.9
	8H	22.7	23.7	23.3	24.4	25.1	18.5	19.7	19.1	20.3	20.9
	12H	23.1	24.1	23.7	24.7	25.5	18.5	19.6	19.1	20.2	20.9
4H	2H	19.3	20.6	19.8	21.1	21.8	17.9	19.2	18.4	19.7	20.4
	3H	21.3	22.5	21.9	23.0	23.7	19.2	20.3	19.8	20.9	21.6
	4H	22.3	23.4	23.0	24.0	24.7	19.8	20.8	20.4	21.4	22.1
	6H	23.4	24.3	24.0	24.9	25.7	20.2	21.2	20.9	21.8	22.5
	8H	23.9	24.7	24.6	25.4	26.2	20.4	21.2	21.0	21.9	22.6
	12H	24.4	25.2	25.1	25.8	26.7	20.4	21.2	21.1	21.9	22.7
8H	4H	22.7	23.5	23.3	24.2	24.9	20.5	21.3	21.2	22.0	22.8
	6H	23.9	24.6	24.6	25.3	26.1	21.3	22.0	22.0	22.7	23.5
	8H	24.6	25.2	25.3	25.9	26.8	21.7	22.3	22.4	23.0	23.8
	12H	25.3	25.8	26.0	26.6	27.4	21.9	22.5	22.6	23.2	24.0
12H	4H	22.7	23.5	23.4	24.1	24.9	20.7	21.4	21.4	22.1	22.9
	6H	24.0	24.7	24.7	25.4	26.2	21.6	22.2	22.4	23.0	23.8
	8H	24.8	25.4	25.5	26.1	26.9	22.1	22.7	22.8	23.4	24.2

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1196	H(C0) = 65	H(C180) = 65
			B = 55	H(C90) = 0	H(C270) = 0

C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		7655.6	7678.6	7668.4	7614.0	7720.3	8495.4	10811.9	
50°		7247.7	7254.3	7270.3	7177.1	7080.8	7479.6	9625.2	
55°		6797.1	6814.8	6869.1	6747.5	6539.8	6579.8	8276.4	
60°		6293.5	6323.8	6392.2	6322.1	6090.9	5750.1	7036.1	
65°		5827.9	5847.7	5937.6	5909.6	5675.7	5119.8	5962.8	
70°		5389.8	5423.3	5543.8	5517.7	5343.1	4677.5	4990.8	
75°		5002.6	5055.8	5177.9	5239.4	5074.5	4262.4	4284.7	
80°		4825.5	4872.1	5037.0	5109.0	4956.1	4153.8	3567.3	
85°		4770.3	4840.8	5035.0	5122.6	5005.3	4154.3	2966.4	

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**

