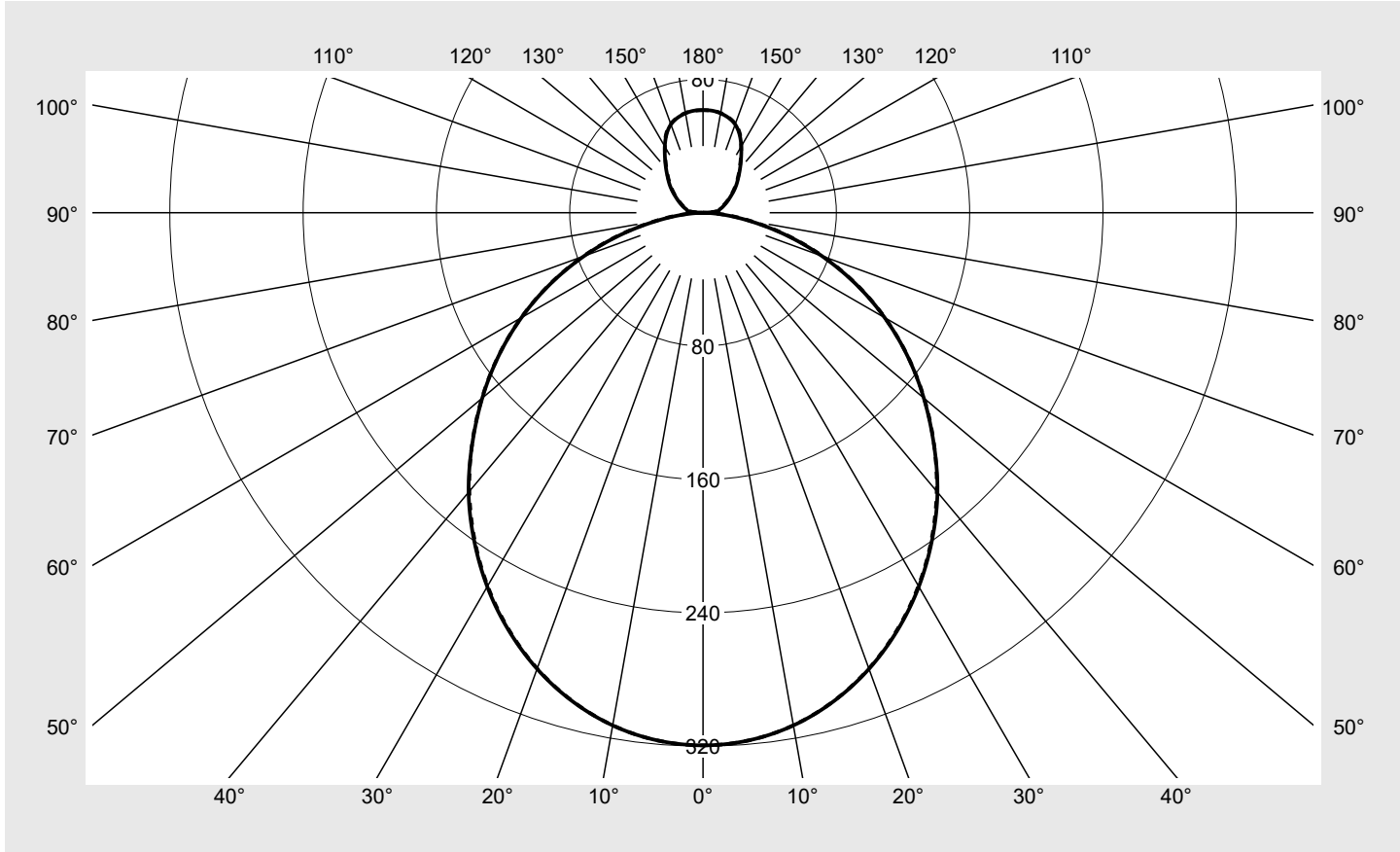


Photometric test report

Family Round 21 M	Order number: 51MR36GD0421W EAN: 4058352881668	LP number 59510_16
	Version	Suspended luminaire, cover, opal, PMMA, extremely wide distribution, direct-/ indirect distribution, aluminium housing, white, UGR≤22
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 7870 lm Power consumption = 54.6 W Luminous efficacy = 144.1 lm/W
		serial documentation 31.07.2024
		

Luminous intensity in cd/klm
C180-0
C270-90
Imax: 320 cd/klm



Classifications	
DIN 5040	B 4 3
CIE	N1=49 N2=80 N3=96 N4=85 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	85.0%
ϕ_o	15.0%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Round 21 M	Order number: 51MR36GD0421W EAN: 4058352881668	LP number 59510_16
Table of values for luminous intensities		Maximum luminous intensity
		siteco

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°	319.5	319.5	319.5	319.5	319.5	319.5	319.5	1.9	1.9
5°	317.7	317.8	317.8	317.7	317.7	317.7	317.7	15.2	17.1
10°	312.3	312.3	312.3	312.2	312.2	312.2	312.2	29.7	46.8
15°	303.3	303.5	303.4	303.3	303.3	303.3	303.2	43.0	89.8
20°	291.2	291.3	291.2	291.2	291.0	291.0	291.0	54.6	144.4
25°	276.2	276.6	276.2	276.3	275.9	276.0	275.9	64.0	208.4
30°	259.0	259.3	259.0	258.9	258.6	258.6	258.5	70.9	279.4
35°	239.6	240.1	239.7	239.7	239.3	239.3	239.1	75.3	354.7
40°	218.9	219.3	218.8	219.0	218.3	218.8	218.1	77.1	431.8
45°	195.8	197.7	196.8	197.2	196.3	196.9	196.0	76.3	508.0
50°	172.9	174.9	174.1	174.4	173.6	174.1	173.3	73.1	581.1
55°	149.7	151.6	150.7	151.3	150.2	150.8	150.0	67.7	648.8
60°	125.8	127.7	126.8	127.4	126.3	126.7	126.1	60.2	709.0
65°	101.1	103.0	102.1	102.9	101.7	102.5	101.5	50.8	759.8
70°	75.9	78.1	77.0	77.8	76.7	77.7	76.5	39.8	799.6
75°	51.2	53.2	52.4	53.1	52.2	53.0	52.1	27.8	827.4
80°	28.4	30.2	29.8	30.3	29.8	30.0	29.7	16.1	843.5
85°	10.5	12.5	12.3	12.9	12.5	12.4	12.2	6.7	850.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	850.3
95°	7.6	7.9	7.6	7.8	7.5	7.5	7.0	4.2	854.4
100°	9.9	10.0	10.0	10.0	9.8	9.8	9.4	5.3	859.7
105°	11.7	11.8	11.8	11.8	11.7	11.7	11.2	6.2	865.9
110°	13.7	13.9	13.9	13.9	13.9	13.7	13.2	7.1	873.1
115°	16.1	16.4	16.4	16.4	16.2	16.1	15.7	8.1	881.1
120°	18.9	19.1	19.2	19.4	19.0	18.9	18.6	9.0	890.2
125°	22.3	22.4	22.3	22.6	22.2	22.1	21.9	10.0	900.2
130°	26.1	26.1	26.0	26.2	25.8	25.9	25.5	10.9	911.1
135°	30.0	30.1	30.1	30.1	30.0	30.0	29.5	11.6	922.7
140°	34.5	34.5	34.7	34.6	34.7	34.6	34.1	12.2	934.9
145°	39.8	39.6	39.8	39.8	39.7	39.7	39.5	12.5	947.4
150°	45.9	45.3	45.7	45.5	46.0	45.9	45.8	12.5	959.9
155°	51.8	51.9	51.7	52.5	52.1	52.4	52.3	12.1	972.0
160°	56.4	56.5	56.5	56.6	56.5	56.5	56.6	10.6	982.6
165°	59.0	59.0	59.0	59.0	59.1	59.1	59.2	8.4	990.9
170°	60.6	60.5	60.6	60.6	60.7	60.7	60.8	5.8	996.7
175°	61.5	61.3	61.3	61.4	61.4	61.4	61.4	2.9	999.6
180°	61.5	61.5	61.5	61.5	61.5	61.5	61.5	0.4	1000.0

Photometric test report

Family Round 21 M	Order number: 51MR36GD0421W EAN: 4058352881668	LP number 59510_16
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UGR-Table		Standard room									
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	18.5	19.9	19.0	20.4	21.1	18.5	19.9	19.0	20.4	21.0
	3H	20.0	21.2	20.5	21.8	22.5	20.0	21.2	20.5	21.8	22.4
	4H	20.6	21.7	21.2	22.3	23.0	20.6	21.7	21.2	22.3	23.0
	6H	21.0	22.1	21.6	22.7	23.3	21.0	22.1	21.6	22.7	23.4
	8H	21.1	22.1	21.7	22.7	23.4	21.1	22.1	21.7	22.7	23.4
	12H	21.1	22.1	21.8	22.7	23.4	21.2	22.1	21.8	22.8	23.5
4H	2H	19.2	20.3	19.8	20.9	21.6	19.2	20.3	19.7	20.9	21.6
	3H	20.8	21.8	21.5	22.5	23.2	20.8	21.8	21.5	22.4	23.2
	4H	21.5	22.4	22.2	23.1	23.8	21.5	22.4	22.2	23.0	23.8
	6H	22.1	22.8	22.7	23.5	24.2	22.1	22.8	22.7	23.5	24.2
	8H	22.1	22.8	22.8	23.5	24.3	22.2	22.9	22.8	23.5	24.3
	12H	22.3	22.9	23.0	23.6	24.4	22.3	22.9	23.0	23.6	24.4
8H	4H	21.8	22.5	22.5	23.2	23.9	21.8	22.5	22.4	23.1	23.9
	6H	22.3	22.9	23.0	23.6	24.4	22.3	22.9	23.0	23.6	24.4
	8H	22.6	23.1	23.3	23.8	24.6	22.6	23.1	23.3	23.8	24.6
	12H	22.8	23.2	23.5	23.9	24.8	22.8	23.2	23.5	24.0	24.8
12H	4H	21.9	22.5	22.5	23.2	23.9	21.8	22.5	22.5	23.1	23.9
	6H	22.5	23.0	23.2	23.7	24.5	22.5	23.0	23.2	23.7	24.5
	8H	22.7	23.2	23.4	23.9	24.7	22.7	23.2	23.4	23.9	24.7

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		D = 590		
C-planes	γ	0°	15°	30°	45°	60°	75°	90°
		180°	165°	150°	135°	120°	105°	270°
		195°	210°	225°	240°	255°	270°	
		345°	330°	315°	300°	285°		
Luminance in cd/m ²								
45°		7972.2	8047.5	8012.2	8028.2	7990.2	8017.0	7978.5
50°		7744.7	7833.3	7795.2	7810.8	7772.1	7798.2	7759.0
55°		7515.3	7610.1	7564.1	7592.2	7539.9	7566.1	7525.8
60°		7244.5	7351.9	7297.8	7334.7	7270.1	7291.7	7257.3
65°		6887.2	7018.3	6952.8	7010.2	6926.2	6980.6	6913.0
70°		6388.1	6575.7	6478.8	6549.3	6451.8	6537.6	6439.4
75°		5695.8	5916.5	5826.9	5903.0	5807.0	5896.1	5798.3
80°		4706.4	5010.6	4941.7	5017.2	4935.4	4977.0	4915.6
85°		3473.9	4118.0	4060.8	4268.6	4113.0	4097.5	4037.0

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Family Round 21 M	Order number: 51MR36GD0421W EAN: 4058352881668	LP number 59510_16
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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**

