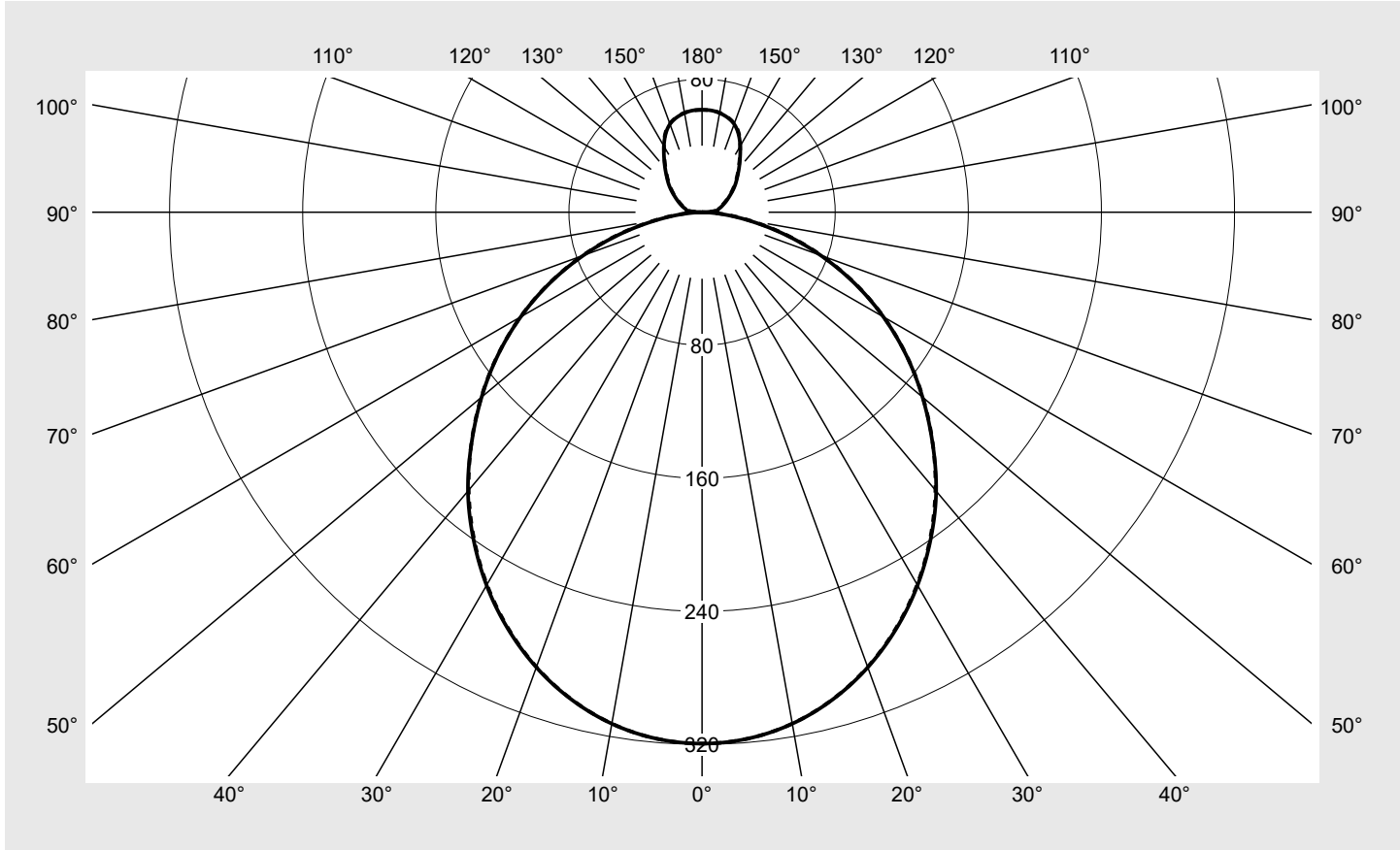


Photometric test report

Family Round 21 M	Order number: 51MR36GD0421S EAN: 4058352881651	LP number 59510_18
	Version Suspended luminaire, cover, opal, PMMA, extremely wide distribution, direct-/ indirect distribution, aluminium housing, silver, UGR≤22	serial documentation 31.07.2024
	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	

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: 51MR36GD0421S EAN: 4058352881651	LP number 59510_18
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Table of values for luminous intensities	Maximum luminous intensity
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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: 51MR36GD0421S EAN: 4058352881651	LP number 59510_18
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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	18.5	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						
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C-planes	γ	0° 180°	15°	30°	45°	60°	75°	90° 270°
			165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 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

Photometric test report

Family Round 21 M	Order number: 51MR36GD0421S EAN: 4058352881651	LP number 59510_18
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

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