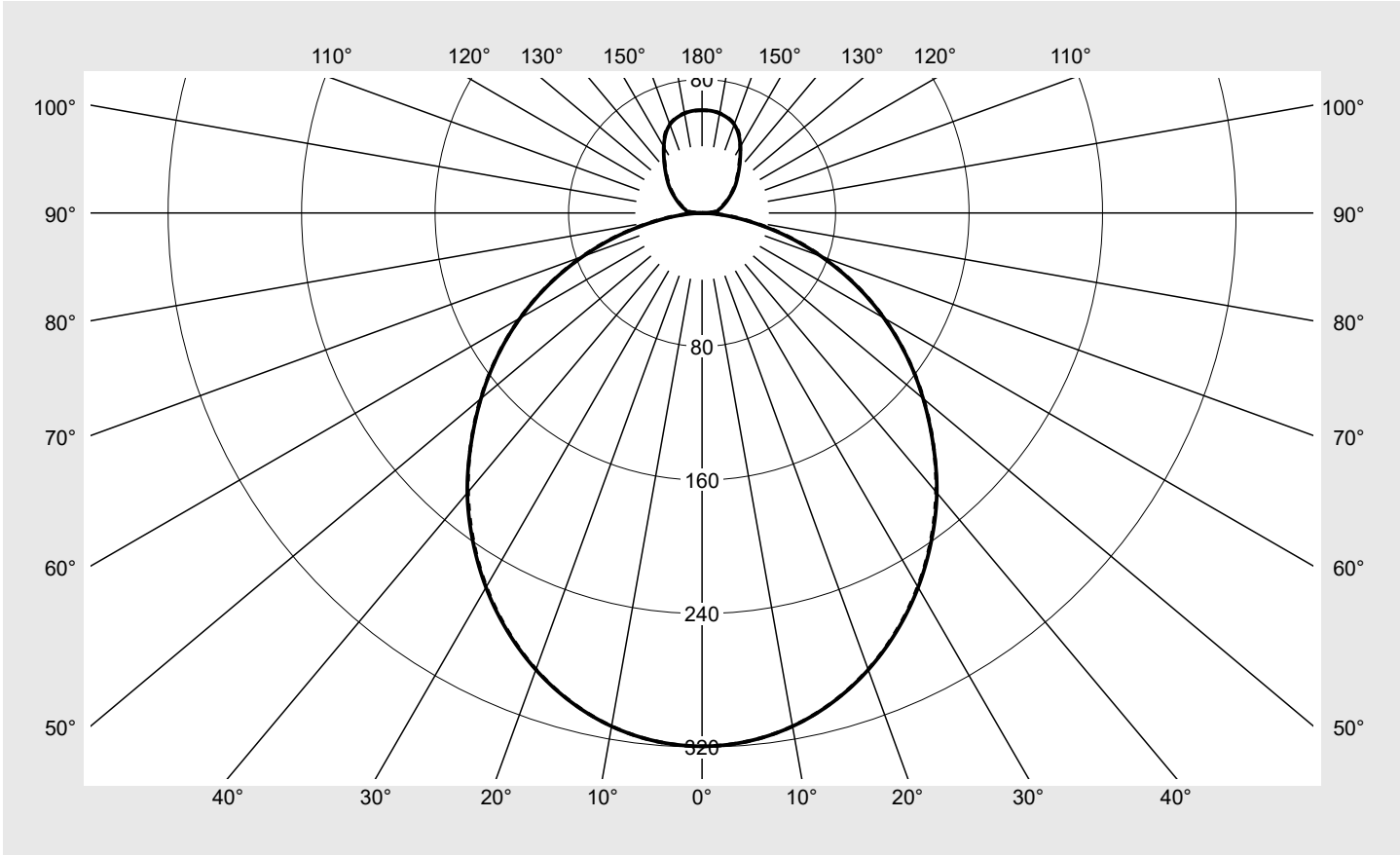


Photometric test report

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	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: 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	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	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°		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: 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°

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