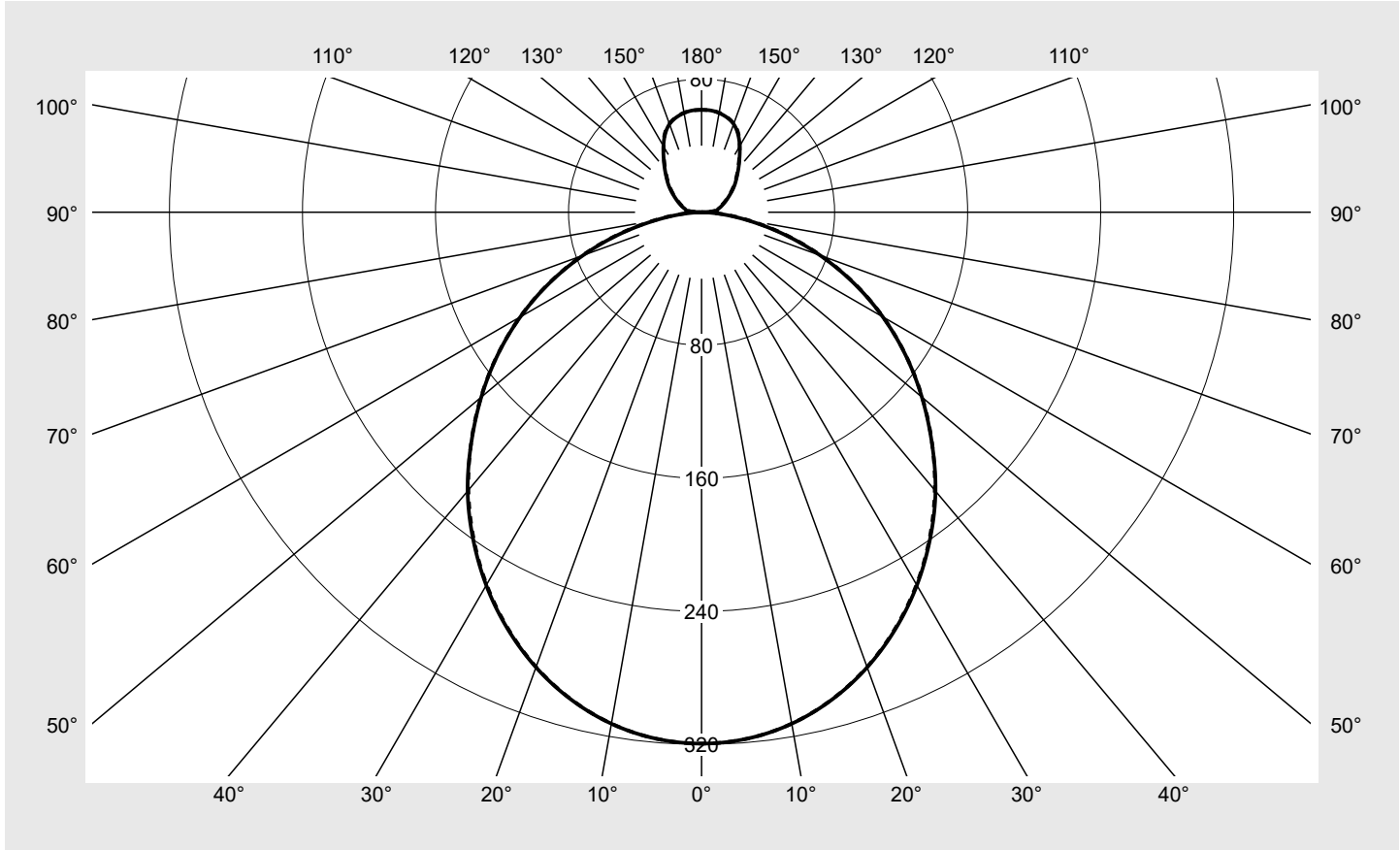


# Photometric test report

<b>Family</b> <b>Round 21 M</b>	<b>Order number: 51MR36GD0321S</b> <b>EAN: 4058352881613</b>	<b>LP number</b> <b>59510_6</b>
	<b>Version</b> Suspended luminaire, cover, opal, PMMA, symmetric extremely wide distribution, direct-/indirect distribution, aluminium housing, silver	<b>serial documentation</b> <b>08.11.2023</b>
	<b>Lamps</b> LED 3000 K   CRI ≥ 80	<b>Controlgear</b> ECG-DALI
<b>Rated values</b>	Net luminous flux = 6840 lm Power consumption = 54.5 W Luminous efficacy = 125.5 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	
$\eta_{LB}$	100.0%
$\phi_u$	85.0%
$\phi_o$	15.0%

**Measurement conditions**  
 DIN EN 13032 and DIN 5032

## Photometric test report

<b>Family</b> Round 21 M	<b>Order number: 51MR36GD0321S</b> <b>EAN: 4058352881613</b>	<b>LP number</b> 59510_6
<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

C-planes $\gamma$	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: 51MR36GD0321S EAN: 4058352881613	LP number 59510_6
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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	18.0	19.4	18.6	20.0	20.6	18.0	19.4	18.5	19.9	20.6
	3H	19.5	20.7	20.1	21.3	22.0	19.5	20.7	20.0	21.3	21.9
	4H	20.1	21.3	20.7	21.8	22.5	20.1	21.2	20.7	21.8	22.5
	6H	20.5	21.6	21.1	22.2	22.9	20.5	21.6	21.1	22.2	22.9
	8H	20.6	21.6	21.2	22.2	22.9	20.6	21.6	21.2	22.2	22.9
	12H	20.6	21.6	21.3	22.2	22.9	20.7	21.6	21.3	22.3	23.0
4H	2H	18.7	19.9	19.3	20.4	21.1	18.7	19.8	19.3	20.4	21.1
	3H	20.4	21.3	21.0	22.0	22.7	20.3	21.3	21.0	22.0	22.7
	4H	21.0	21.9	21.7	22.6	23.3	21.0	21.9	21.7	22.6	23.3
	6H	21.6	22.3	22.2	23.0	23.7	21.6	22.3	22.2	23.0	23.7
	8H	21.7	22.4	22.3	23.0	23.8	21.7	22.4	22.3	23.0	23.8
	12H	21.8	22.4	22.5	23.1	23.9	21.8	22.5	22.5	23.1	23.9
8H	4H	21.3	22.0	22.0	22.7	23.4	21.3	22.0	22.0	22.7	23.4
	6H	21.9	22.4	22.6	23.1	23.9	21.9	22.4	22.6	23.1	23.9
	8H	22.1	22.6	22.8	23.3	24.1	22.1	22.6	22.8	23.3	24.1
	12H	22.3	22.7	23.0	23.4	24.3	22.3	22.8	23.0	23.5	24.3
12H	4H	21.4	22.0	22.0	22.7	23.5	21.4	22.0	22.0	22.7	23.4
	6H	22.0	22.5	22.7	23.2	24.0	22.0	22.5	22.7	23.2	24.0
	8H	22.2	22.7	22.9	23.4	24.2	22.2	22.7	23.0	23.4	24.2

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 590						
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C-planes	$\gamma$	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 <sup>2</sup>								
45°	6928.8	6994.2	6963.6	6977.5	6944.5	6967.7	6934.3	
50°	6731.1	6808.1	6775.0	6788.6	6754.9	6777.6	6743.5	
55°	6531.7	6614.1	6574.1	6598.6	6553.1	6575.9	6540.8	
60°	6296.4	6389.7	6342.7	6374.7	6318.6	6337.3	6307.5	
65°	5985.8	6099.8	6042.9	6092.7	6019.7	6067.0	6008.2	
70°	5552.0	5715.1	5630.9	5692.2	5607.4	5682.0	5596.7	
75°	4950.4	5142.2	5064.3	5130.5	5047.0	5124.5	5039.4	
80°	4090.5	4354.8	4294.9	4360.6	4289.4	4325.6	4272.3	
85°	3019.3	3579.0	3529.3	3709.9	3574.7	3561.2	3508.7	

**Photometric test report**

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**Luminance values in cd/m<sup>2</sup>**

  $\gamma$  65°
 

  $\gamma$  70°
 

  $\gamma$  75°
 

  $\gamma$  80°
 

  $\gamma$  85°
 
siteco

