

## Photometric test report

Family  
Round 21 M

Order number: 51MR36GM8421W  
EAN: 4058352881743

LP number  
59513\_1



**Version** Suspended luminaire, cover, opal, PMMA, symmetric extremely wide distribution, direct-/indirect distribution, aluminium housing, white

**Lamps** LED 4000 K | CRI ≥ 80

**Controlgear** ECG Multilumen

**Rated values** Net luminous flux = 8190 lm  
Power consumption = 60.8 W  
Luminous efficacy = 134.7 lm/W

serial  
documentation  
08.11.2023

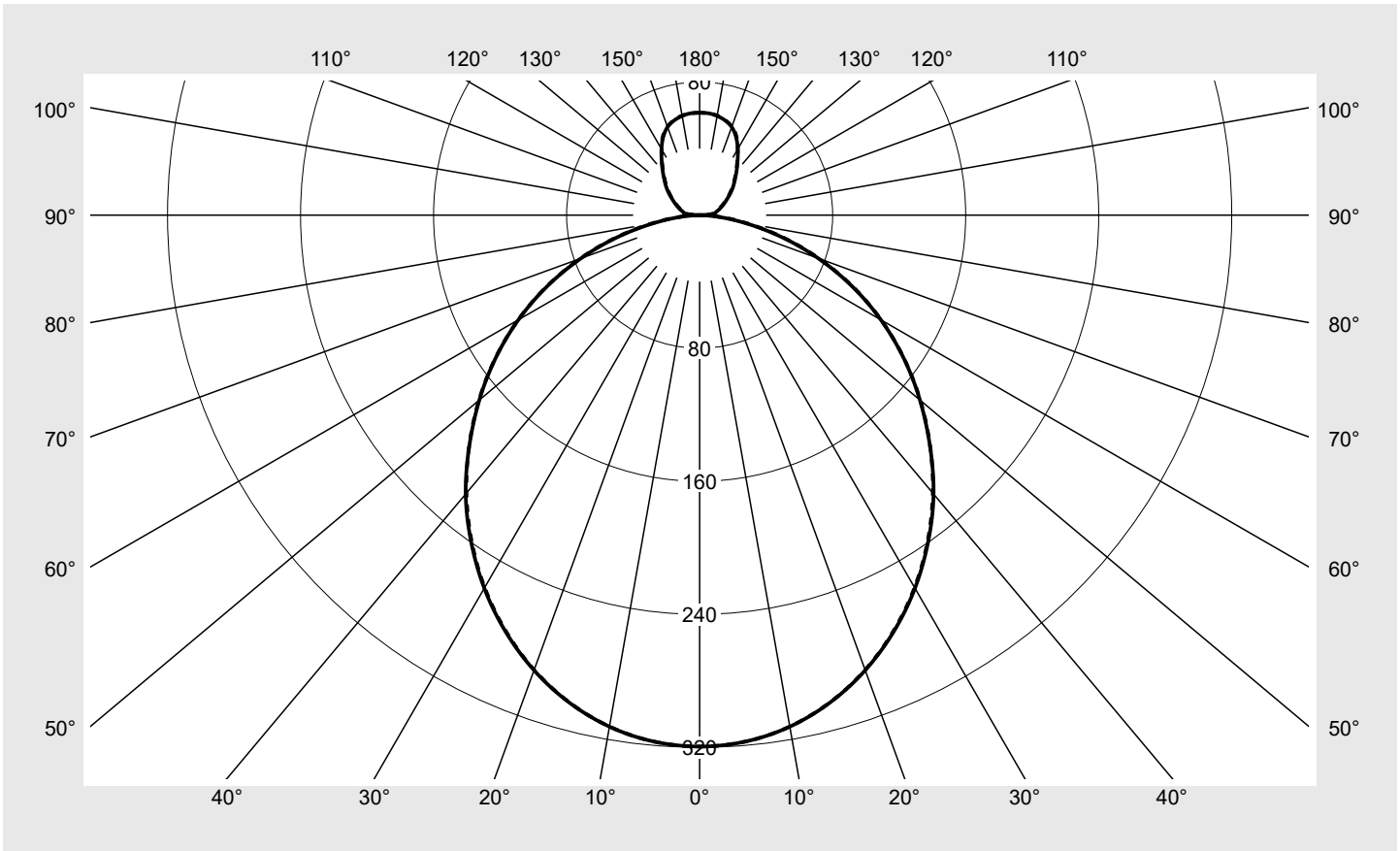
sitEco

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

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<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

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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	18.6	20.0	19.2	20.6	21.2	18.6	20.0	19.2	20.6	21.2
	3H	20.1	21.3	20.7	21.9	22.6	20.1	21.3	20.7	21.9	22.6
	4H	20.7	21.9	21.3	22.5	23.1	20.7	21.9	21.3	22.5	23.1
	6H	21.1	22.2	21.7	22.8	23.5	21.1	22.2	21.7	22.8	23.5
	8H	21.2	22.2	21.8	22.8	23.5	21.2	22.2	21.8	22.8	23.6
	12H	21.3	22.2	21.9	22.8	23.6	21.3	22.3	21.9	22.9	23.6
4H	2H	19.3	20.5	19.9	21.1	21.7	19.3	20.5	19.9	21.0	21.7
	3H	21.0	22.0	21.6	22.6	23.3	21.0	22.0	21.6	22.6	23.3
	4H	21.7	22.6	22.3	23.2	23.9	21.7	22.5	22.3	23.2	23.9
	6H	22.2	23.0	22.8	23.6	24.4	22.2	23.0	22.8	23.6	24.4
	8H	22.3	23.0	23.0	23.7	24.4	22.3	23.0	23.0	23.7	24.4
	12H	22.4	23.0	23.1	23.7	24.5	22.5	23.1	23.1	23.8	24.5
8H	4H	21.9	22.6	22.6	23.3	24.1	21.9	22.6	22.6	23.3	24.1
	6H	22.5	23.1	23.2	23.8	24.6	22.5	23.1	23.2	23.8	24.6
	8H	22.7	23.2	23.4	23.9	24.8	22.7	23.2	23.4	24.0	24.8
	12H	22.9	23.4	23.6	24.1	24.9	22.9	23.4	23.7	24.1	24.9
12H	4H	22.0	22.6	22.7	23.3	24.1	22.0	22.6	22.7	23.3	24.1
	6H	22.6	23.1	23.3	23.8	24.6	22.6	23.1	23.3	23.8	24.6
	8H	22.9	23.3	23.6	24.0	24.8	22.9	23.3	23.6	24.0	24.8

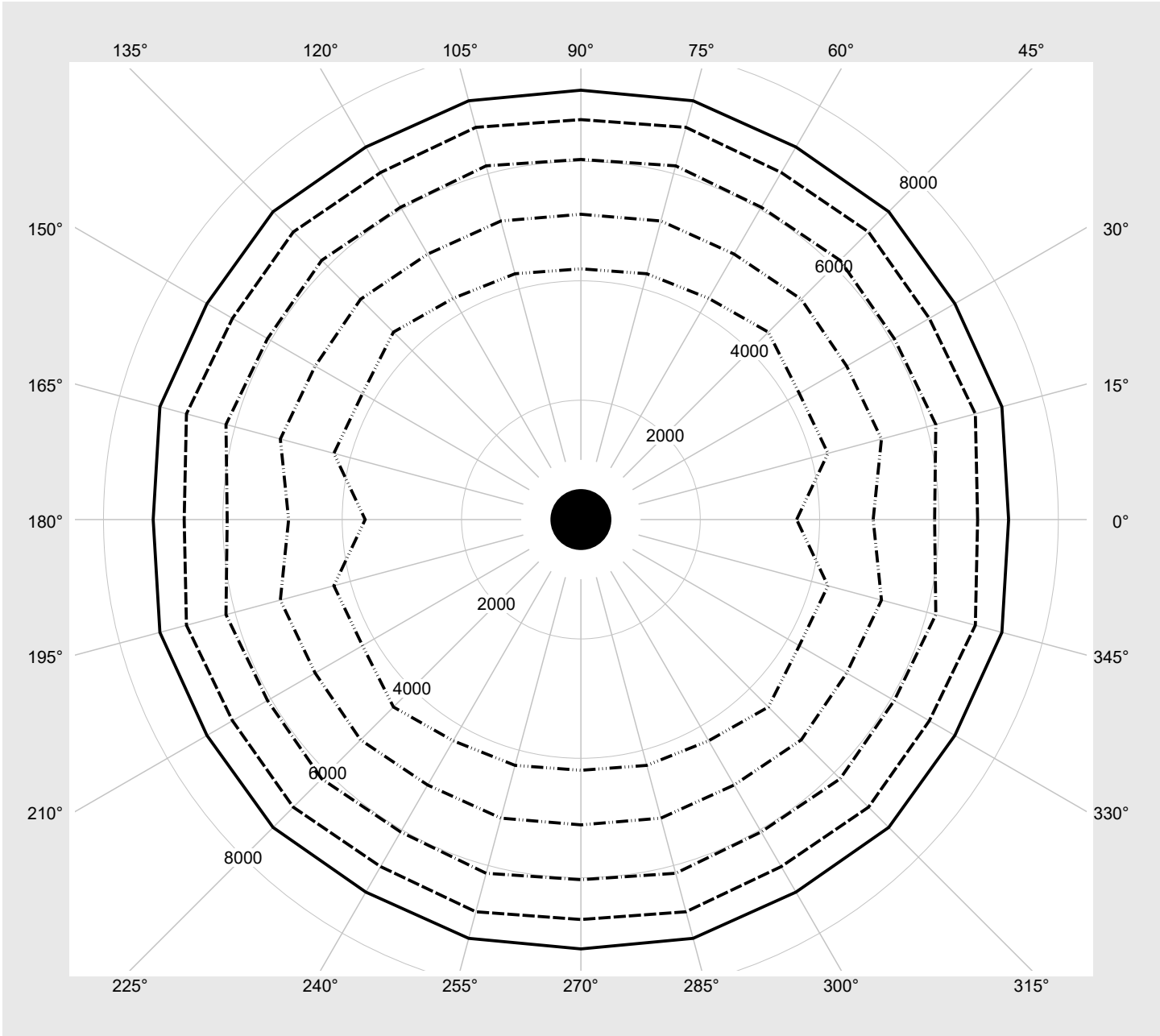
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 590						
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C-planes	$\gamma$	0° 180°	15°	30°	45°	60°	75°	90° 270°
			165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°	
Luminance in cd/m <sup>2</sup>								
45°		8296.4	8374.7	8338.0	8354.6	8315.1	8342.9	8302.9
50°		8059.6	8151.8	8112.1	8128.4	8088.1	8115.3	8074.5
55°		7820.8	7919.6	7871.6	7900.9	7846.5	7873.8	7831.8
60°		7539.1	7650.9	7594.5	7632.9	7565.7	7588.1	7552.4
65°		7167.2	7303.7	7235.5	7295.2	7207.8	7264.4	7194.1
70°		6647.8	6843.1	6742.3	6815.6	6714.1	6803.5	6701.3
75°		5927.4	6157.1	6063.9	6143.0	6043.2	6135.9	6034.0
80°		4897.8	5214.4	5142.6	5221.3	5136.0	5179.3	5115.5
85°		3615.2	4285.4	4225.9	4442.1	4280.2	4264.1	4201.2

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**Luminance values in cd/m<sup>2</sup>**
γ 65°
γ 70°
γ 75°
γ 80°
γ 85°
siteco



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Multilumen Table	environmental temperature: 25°C	<b>siteco</b>
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DIP-Step	Switch Setting				Luminous flux [lm]	Power consumption [W]
	1	2	3	4		
15	ON	ON	ON	ON	8190	60.8
14	ON	ON	ON	OFF	7900	58.5
13	ON	ON	OFF	ON	7610	56.2
12	ON	ON	OFF	OFF	7320	54.1
11	ON	OFF	ON	ON	7100	51.9
10	ON	OFF	ON	OFF	6800	49.6
9	ON	OFF	OFF	ON	6510	47.4
8	ON	OFF	OFF	OFF	6210	45.1
7	OFF	ON	ON	ON	5970	43.0
6	OFF	ON	ON	OFF	5670	40.8
5	OFF	ON	OFF	ON	5370	38.5
4	OFF	ON	OFF	OFF	5070	36.3
3	OFF	OFF	ON	ON	4810	34.2
2	OFF	OFF	ON	OFF	4510	32.0
1	OFF	OFF	OFF	ON	4200	29.6
0	OFF	OFF	OFF	OFF	3900	27.7