

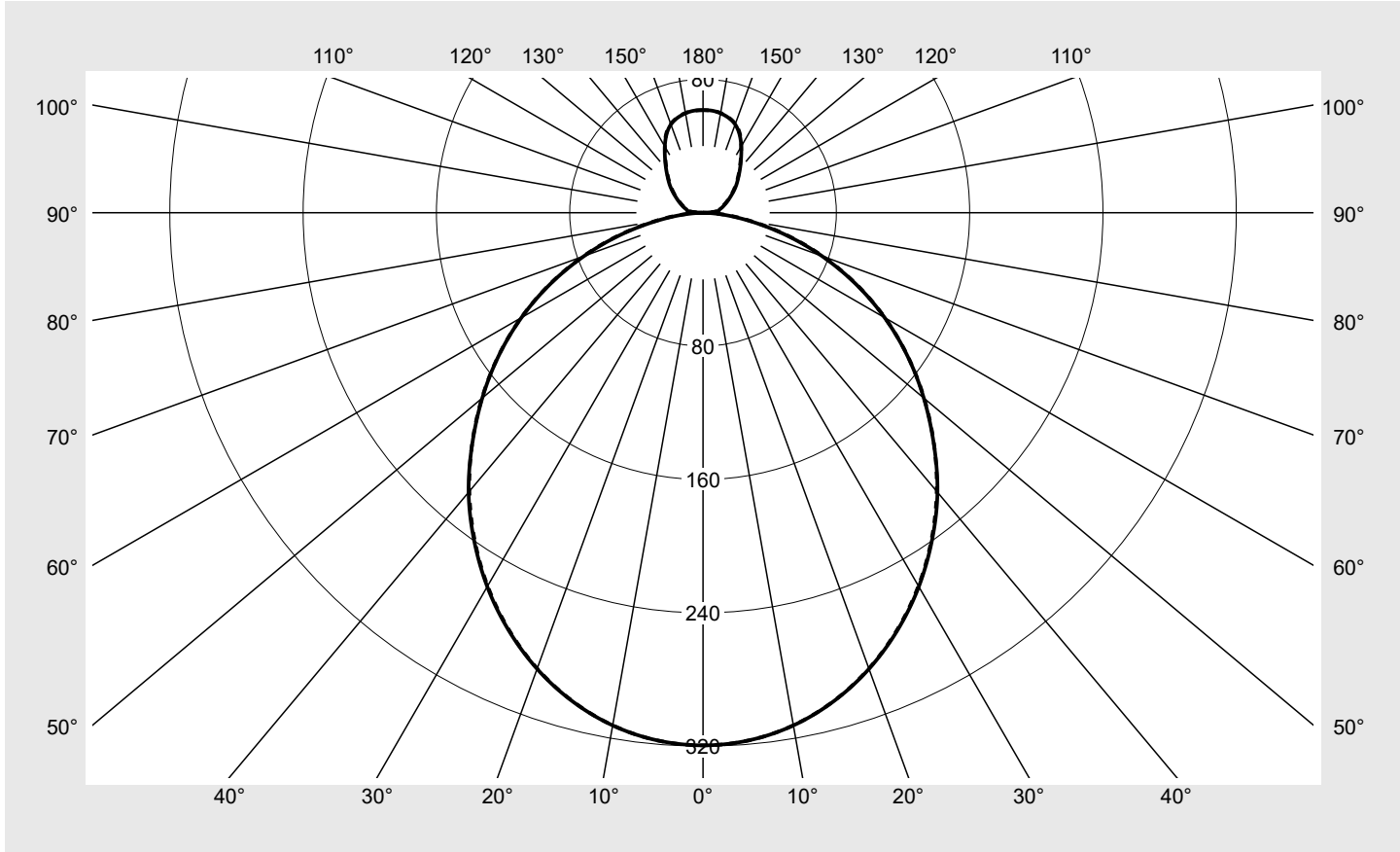


# Photometric test report

<b>Family</b> <b>Round 21 M</b>	<b>Order number: 51MR36GM8321W</b> <b>EAN: 4058352881705</b>	<b>LP number</b> <b>59513_4</b>
	<b>Version</b> Suspended luminaire, cover, opal, PMMA, symmetric extremely wide distribution, direct-/indirect distribution, aluminium housing, white	<b>serial documentation</b> <b>08.11.2023</b>
	<b>Lamps</b> LED 3000 K   CRI ≥ 80 <b>Controlgear</b> ECG Multilumen <b>Rated values</b> Net luminous flux = 7820 lm Power consumption = 60.8 W Luminous efficacy = 128.6 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

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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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<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
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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	21.0	18.5	19.9	19.0	20.4	21.0
	3H	19.9	21.2	20.5	21.8	22.4	19.9	21.2	20.5	21.8	22.4
	4H	20.6	21.7	21.1	22.3	23.0	20.5	21.7	21.1	22.3	23.0
	6H	21.0	22.0	21.6	22.6	23.3	21.0	22.1	21.6	22.7	23.3
	8H	21.0	22.0	21.7	22.7	23.4	21.1	22.1	21.7	22.7	23.4
	12H	21.1	22.1	21.7	22.7	23.4	21.2	22.1	21.8	22.7	23.4
4H	2H	19.2	20.3	19.7	20.9	21.6	19.1	20.3	19.7	20.9	21.6
	3H	20.8	21.8	21.4	22.4	23.1	20.8	21.8	21.4	22.4	23.1
	4H	21.5	22.4	22.1	23.0	23.8	21.5	22.4	22.1	23.0	23.8
	6H	22.0	22.8	22.7	23.5	24.2	22.0	22.8	22.7	23.5	24.2
	8H	22.1	22.8	22.8	23.5	24.3	22.1	22.8	22.8	23.5	24.3
	12H	22.3	22.9	22.9	23.6	24.3	22.3	22.9	23.0	23.6	24.4
8H	4H	21.8	22.5	22.4	23.1	23.9	21.7	22.4	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	24.7	22.8	23.2	23.5	23.9	24.8
12H	4H	21.8	22.5	22.5	23.1	23.9	21.8	22.4	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	23.1	23.4	23.8	24.7	22.7	23.1	23.4	23.9	24.7

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>D = 590</b>
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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°		7921.6	7996.3	7961.3	7977.2	7939.5	7966.0	7927.8
50°		7695.5	7783.5	7745.6	7761.2	7722.7	7748.7	7709.7
55°		7467.5	7561.8	7516.0	7544.0	7492.0	7518.0	7477.9
60°		7198.5	7305.2	7251.4	7288.1	7223.9	7245.3	7211.2
65°		6843.4	6973.7	6908.6	6965.6	6882.2	6936.3	6869.0
70°		6347.5	6533.9	6437.7	6507.7	6410.8	6496.1	6398.5
75°		5659.6	5878.9	5789.9	5865.5	5770.1	5858.7	5761.4
80°		4676.5	4978.8	4910.3	4985.4	4904.0	4945.3	4884.4
85°		3451.8	4091.8	4035.0	4241.4	4086.9	4071.4	4011.4

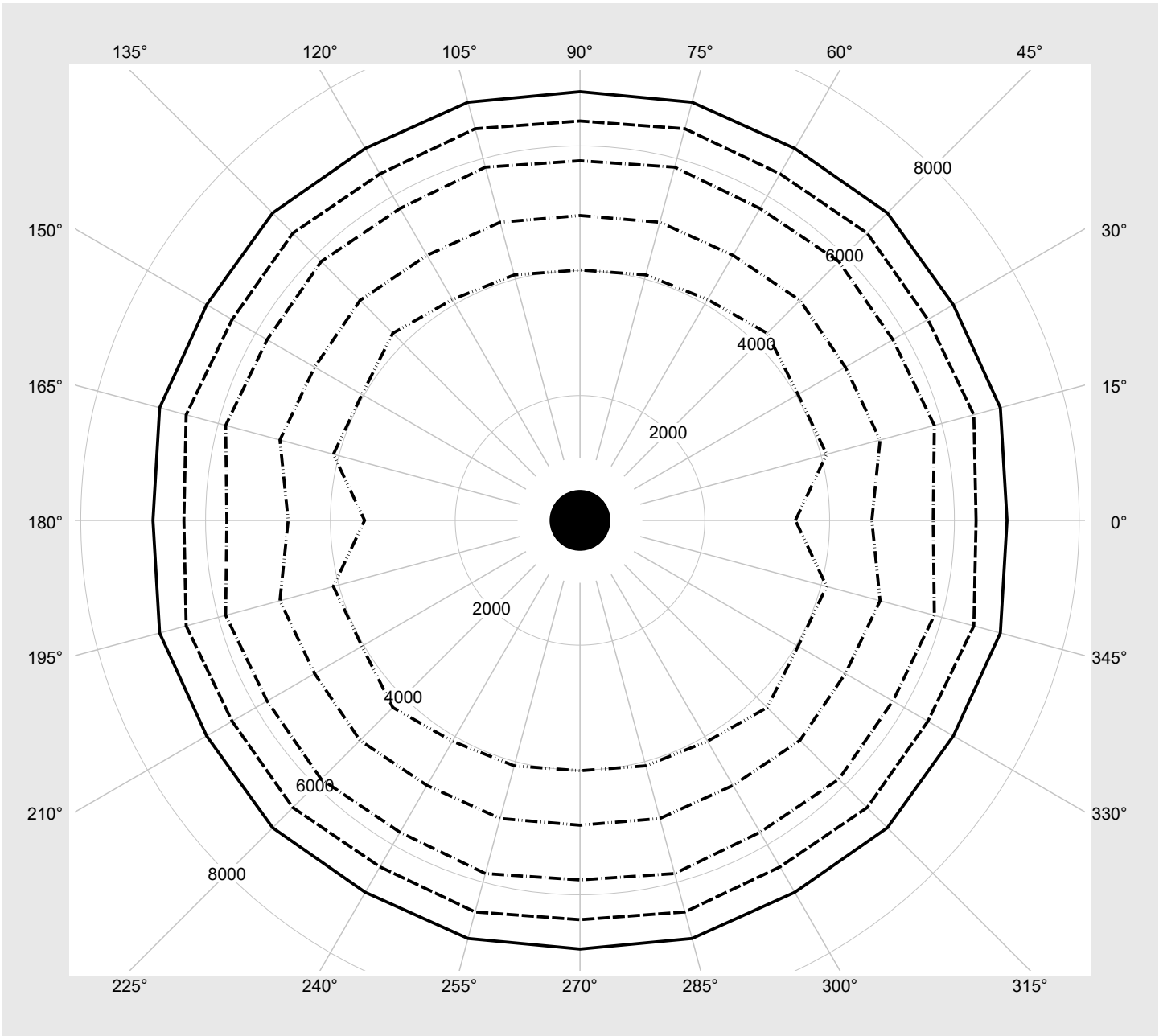
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°

**siteco**



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<b>Multilumen Table</b>	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	7820	60.8
14	ON	ON	ON	OFF	7550	58.5
13	ON	ON	OFF	ON	7270	56.2
12	ON	ON	OFF	OFF	6990	54.1
11	ON	OFF	ON	ON	6780	51.9
10	ON	OFF	ON	OFF	6500	49.6
9	ON	OFF	OFF	ON	6210	47.4
8	ON	OFF	OFF	OFF	5930	45.1
7	OFF	ON	ON	ON	5700	43.0
6	OFF	ON	ON	OFF	5410	40.8
5	OFF	ON	OFF	ON	5130	38.5
4	OFF	ON	OFF	OFF	4840	36.3
3	OFF	OFF	ON	ON	4590	34.2
2	OFF	OFF	ON	OFF	4310	32.0
1	OFF	OFF	OFF	ON	4010	29.6
0	OFF	OFF	OFF	OFF	3720	27.7