
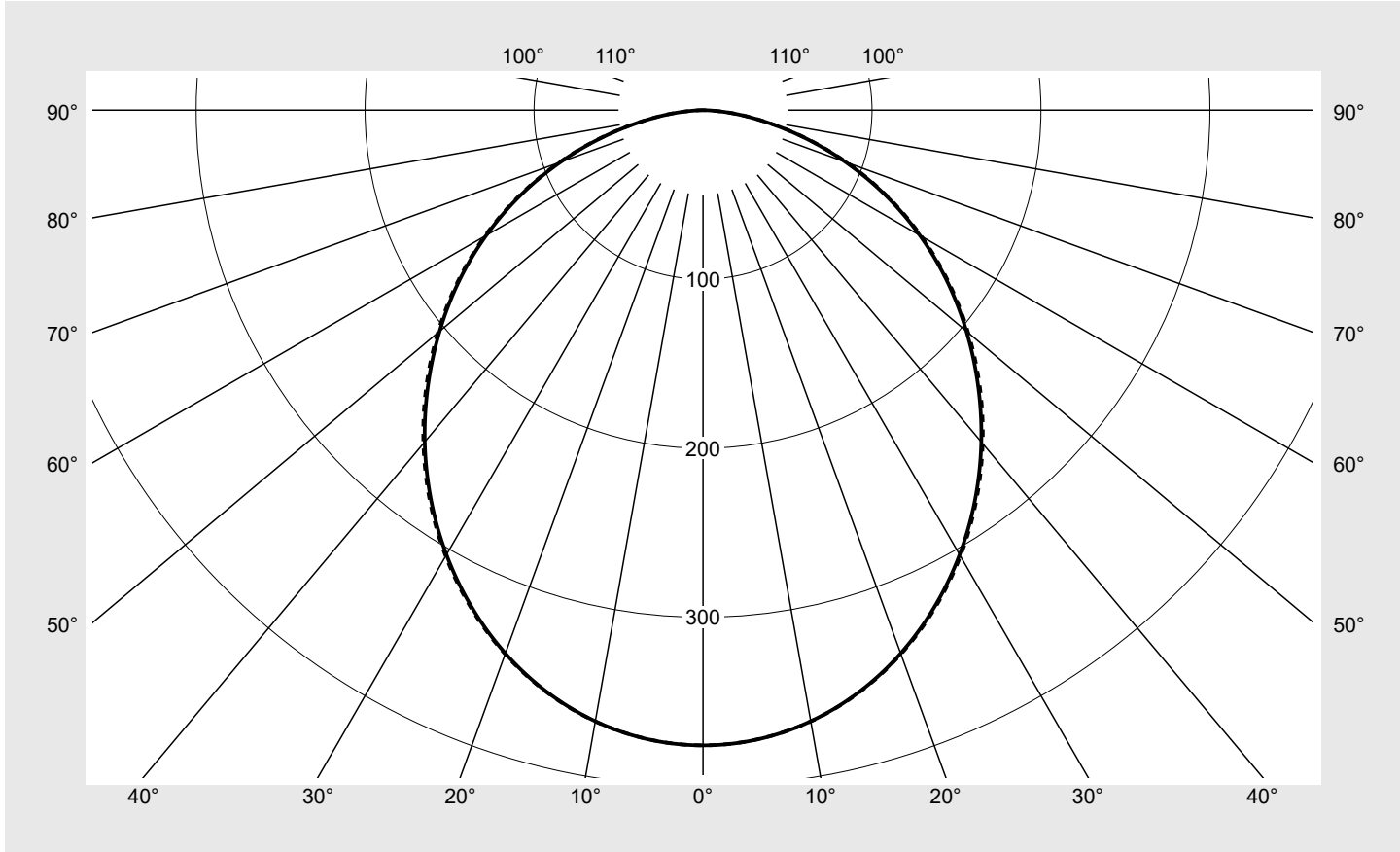


Photometric test report

Family Round 21 M	Order number: 51MR36FM8421B EAN: 4058352829912	LP number 59512_2
	Version surface-mounted and suspended luminaire, cover, opal, PMMA, symmetric extremely wide distribution, direct distribution, aluminium housing, black	serial documentation 08.11.2023
	Lamps LED 4000 K CRI ≥ 80	Controlgear ECG Multilumen
Rated values	Net luminous flux = 8140 lm Power consumption = 61.1 W Luminous efficacy = 133.2 lm/W	



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 376 cd/klm**



Classifications	
DIN 5040	A 4 0
CIE	N1=49 N2=80 N3=96 N4=100 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	100.0%
ϕ_o	0.0%

Measurement conditions
 DIN EN 13032 and DIN 5032

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Table of values for luminous intensities	Maximum luminous intensity	sITeco
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C-planes	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°			
γ	Luminous intensity in cd/klm							Luminous flux in lm/klm	
0°	375.8	375.8	375.8	375.8	375.8	375.8	375.8	2.2	2.2
5°	373.6	373.6	373.6	373.6	373.7	373.6	373.6	17.8	20.1
10°	367.1	367.0	367.1	367.1	367.2	367.1	367.2	34.9	55.0
15°	356.4	356.5	356.5	356.7	356.7	356.7	356.7	50.6	105.6
20°	342.0	342.1	342.1	342.4	342.4	342.5	342.5	64.2	169.8
25°	324.2	324.6	324.4	324.9	324.8	325.3	324.9	75.2	245.0
30°	303.7	304.3	303.9	304.6	304.5	305.2	304.6	83.4	328.5
35°	280.8	281.7	281.1	282.4	281.8	282.9	282.0	88.6	417.1
40°	256.2	257.4	256.5	258.0	257.2	258.5	257.4	90.7	507.8
45°	230.2	231.7	230.5	232.2	231.4	232.8	231.7	89.8	597.5
50°	203.5	204.9	203.8	205.4	204.7	206.0	204.9	86.0	683.6
55°	176.3	177.6	175.5	178.1	177.3	178.7	177.4	79.6	763.2
60°	148.1	149.5	147.4	150.0	149.0	150.6	149.2	70.8	834.0
65°	119.2	120.8	118.4	121.2	120.0	121.6	120.1	59.7	893.7
70°	89.7	91.5	88.8	91.9	90.4	92.3	90.6	46.8	940.5
75°	60.9	62.5	60.0	63.4	61.5	63.0	61.6	32.8	973.3
80°	34.5	35.9	33.5	36.8	35.0	36.0	35.0	19.1	992.4
85°	13.2	14.6	12.4	14.8	13.6	14.5	13.7	7.6	1000.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	20.0	21.7	20.4	22.0	22.3	20.1	21.7	20.4	22.0	22.4
	3H	21.6	23.1	22.0	23.4	23.8	21.6	23.1	22.0	23.5	23.8
	4H	22.2	23.6	22.6	23.9	24.3	22.2	23.6	22.6	24.0	24.4
	6H	22.6	23.9	23.0	24.3	24.7	22.7	24.0	23.1	24.3	24.7
	8H	22.8	24.0	23.2	24.4	24.8	22.8	24.0	23.2	24.4	24.8
	12H	22.8	24.0	23.3	24.4	24.8	22.9	24.0	23.3	24.4	24.8
4H	2H	20.8	22.2	21.2	22.5	22.9	20.8	22.2	21.2	22.6	22.9
	3H	22.5	23.7	22.9	24.1	24.5	22.5	23.7	23.0	24.1	24.5
	4H	23.2	24.3	23.6	24.7	25.1	23.3	24.3	23.7	24.7	25.2
	6H	23.7	24.7	24.2	25.1	25.6	23.8	24.7	24.2	25.2	25.6
	8H	23.9	24.8	24.4	25.2	25.7	24.0	24.8	24.4	25.3	25.7
	12H	24.0	24.8	24.5	25.2	25.7	24.1	24.9	24.6	25.3	25.8
8H	4H	23.5	24.4	24.0	24.8	25.3	23.6	24.4	24.0	24.9	25.3
	6H	24.1	24.9	24.6	25.3	25.8	24.2	24.9	24.7	25.4	25.9
	8H	24.4	25.0	24.9	25.5	26.0	24.4	25.1	24.9	25.6	26.1
	12H	24.5	25.1	25.1	25.6	26.1	24.6	25.2	25.1	25.6	26.2
12H	4H	23.6	24.3	24.0	24.8	25.3	23.6	24.4	24.1	24.8	25.3
	6H	24.2	24.8	24.7	25.3	25.8	24.3	24.9	24.8	25.4	25.9
	8H	24.5	25.0	25.0	25.5	26.0	24.5	25.1	25.1	25.6	26.1

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°		9692.2	9757.7	9706.5	9776.7	9742.8	9801.0	9756.2	
50°		9425.4	9492.5	9440.6	9514.4	9479.7	9543.3	9488.8	
55°		9150.5	9220.1	9111.8	9245.3	9201.2	9275.5	9210.3	
60°		8820.6	8904.6	8774.4	8933.9	8873.1	8966.7	8883.5	
65°		8397.3	8507.5	8337.9	8535.5	8450.9	8566.8	8462.5	
70°		7810.8	7969.3	7733.0	7998.9	7871.2	8031.5	7884.0	
75°		7011.1	7191.9	6904.0	7298.2	7079.1	7249.0	7088.3	
80°		5914.6	6147.3	5745.6	6310.0	5992.8	6173.0	6006.6	
85°		4515.4	4991.0	4240.1	5047.3	4652.1	4968.8	4682.8	

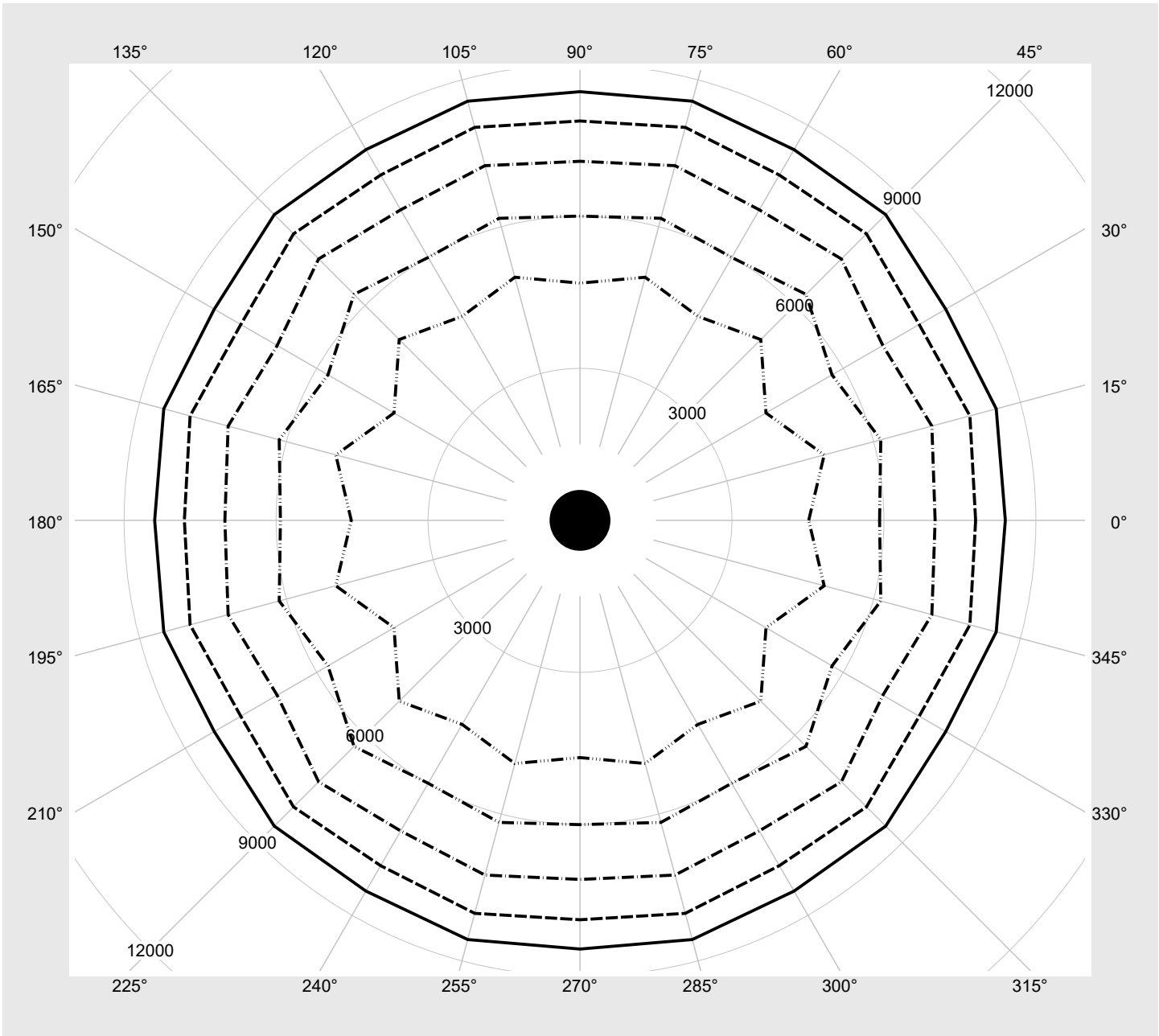
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco



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Multilumen Table	environmental temperature: 25°C	siteco
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DIP-Step	Switch Setting				Luminous flux [lm]	Power consumption [W]
	1	2	3	4		
15	ON	ON	ON	ON	8140	61.1
14	ON	ON	ON	OFF	7850	58.8
13	ON	ON	OFF	ON	7570	56.6
12	ON	ON	OFF	OFF	7280	54.3
11	ON	OFF	ON	ON	6990	52.0
10	ON	OFF	ON	OFF	6760	49.9
9	ON	OFF	OFF	ON	6470	47.6
8	ON	OFF	OFF	OFF	6180	45.4
7	OFF	ON	ON	ON	5890	43.1
6	OFF	ON	ON	OFF	5640	41.0
5	OFF	ON	OFF	ON	5300	38.7
4	OFF	ON	OFF	OFF	5050	36.5
3	OFF	OFF	ON	ON	4790	34.4
2	OFF	OFF	ON	OFF	4490	32.1
1	OFF	OFF	OFF	ON	4190	29.9
0	OFF	OFF	OFF	OFF	3890	27.7