

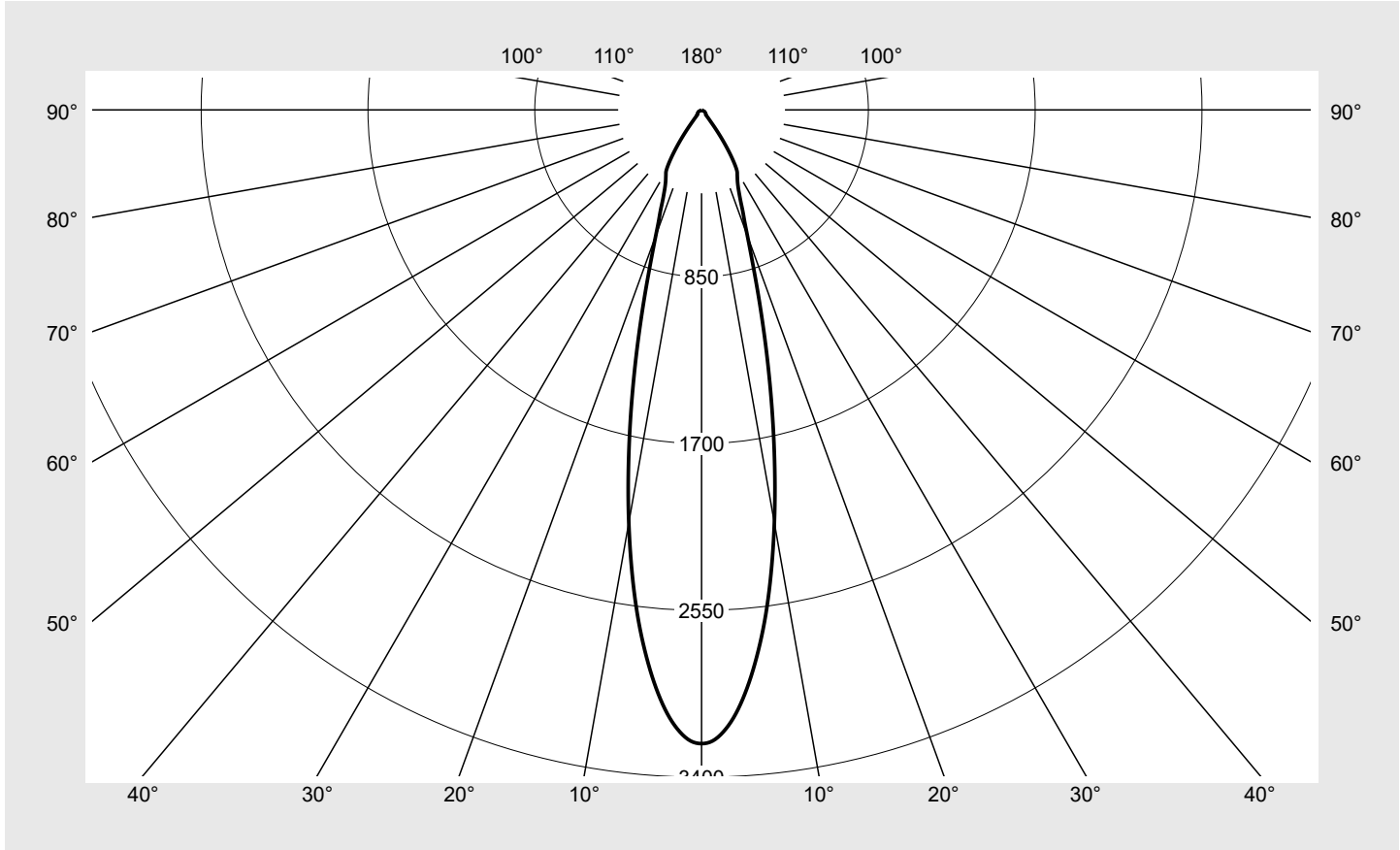


Photometric test report

Family Spot 21 Modario®	Order number: 51SM13MB11B2C EAN: 4069025531353	LP number 59885_13
	Version reflector, cover, polycarbonate, rotationally symmetrical medium distribution Lamps LED 3000 K CRI ≥ 90 Controlgear ECG Multilumen	serial documentation 21.05.2026
	Setting factory setting: DIP-Step=9 Rated values Net luminous flux = 3910 lm Power consumption = 28.7 W Luminous efficacy = 136.2 lm/W	

Luminous intensity in cd/klm C180-0 **Imax: 3229 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=93 N2=97 N3=99 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

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm Luminous flux in lm/klm		
0°	3228.9	0.8	0.8
1°	3215.7	6.2	6.9
2°	3171.2	12.1	19.1
3°	3102.3	17.8	36.9
4°	3009.1	23.0	59.9
5°	2896.6	27.7	87.6
6°	2768.9	31.7	119.3
7°	2629.1	35.1	154.4
8°	2474.1	37.8	192.2
9°	2308.0	39.6	231.8
10°	2135.7	40.7	272.5
11°	1959.4	41.0	313.5
12°	1782.1	40.6	354.1
13°	1608.9	39.7	393.8
14°	1439.7	38.2	432.0
15°	1279.6	36.3	468.3
16°	1128.7	34.1	502.4
17°	992.1	31.8	534.2
18°	870.1	29.5	563.7
19°	767.9	27.4	591.1
20°	682.9	25.6	616.7
21°	613.3	24.1	640.8
22°	563.3	23.1	664.0
23°	513.5	22.0	686.0
24°	475.0	21.2	707.2
25°	444.4	20.6	727.8
26°	420.8	20.2	748.0
27°	402.6	20.0	768.0
28°	388.1	20.0	788.0
29°	374.9	19.9	807.9
30°	361.5	19.8	827.8
31°	336.1	19.0	846.7
32°	302.0	17.6	864.3
33°	263.7	15.8	880.0
34°	223.0	13.7	893.7
35°	182.3	11.5	905.2
36°	142.1	9.2	914.3
37°	103.8	6.9	921.2
38°	71.5	4.8	926.0
39°	54.5	3.8	929.8
40°	37.8	2.7	932.5
41°	35.2	2.5	935.0
42°	33.2	2.4	937.4
43°	32.6	2.4	939.9
44°	32.0	2.4	942.3
45°	31.2	2.4	944.7
46°	30.4	2.4	947.1

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm Luminous flux in lm/klm		
47°	29.4	2.4	949.5
48°	28.4	2.3	951.8
49°	27.4	2.3	954.1
50°	26.4	2.2	956.3
51°	25.6	2.2	958.5
52°	24.6	2.1	960.6
53°	23.7	2.1	962.6
54°	22.8	2.0	964.7
55°	21.9	2.0	966.6
56°	20.9	1.9	968.5
57°	20.1	1.8	970.4
58°	19.2	1.8	972.2
59°	18.4	1.7	973.9
60°	17.5	1.7	975.6
61°	16.8	1.6	977.2
62°	15.9	1.5	978.7
63°	15.2	1.5	980.2
64°	14.4	1.4	981.6
65°	13.8	1.4	983.0
66°	13.2	1.3	984.3
67°	12.8	1.3	985.6
68°	12.3	1.3	986.9
69°	11.9	1.2	988.1
70°	11.4	1.2	989.3
71°	11.0	1.1	990.4
72°	10.6	1.1	991.5
73°	10.1	1.1	992.6
74°	9.6	1.0	993.6
75°	9.0	1.0	994.5
76°	8.3	0.9	995.4
77°	7.1	0.8	996.2
78°	6.2	0.7	996.8
79°	5.5	0.6	997.4
80°	4.9	0.5	998.0
81°	4.3	0.5	998.4
82°	3.7	0.4	998.8
83°	3.1	0.3	999.2
84°	2.5	0.3	999.4
85°	2.0	0.2	999.7
86°	1.5	0.2	999.8
87°	1.0	0.1	999.9
88°	0.5	0.1	1000.0
89°	0.1	0.0	1000.0
90°	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	20.4	21.5	20.8	21.8	22.1	20.4	21.5	20.8	21.8	22.1
	3H	21.0	21.9	21.4	22.3	22.6	21.0	21.9	21.4	22.3	22.6
	4H	21.4	22.2	21.8	22.6	22.9	21.4	22.2	21.8	22.6	22.9
	6H	21.7	22.4	22.1	22.8	23.1	21.7	22.4	22.1	22.8	23.1
	8H	21.8	22.4	22.2	22.8	23.2	21.8	22.4	22.2	22.8	23.2
	12H	21.8	22.4	22.3	22.8	23.2	21.8	22.4	22.3	22.8	23.2
4H	2H	20.5	21.4	20.9	21.7	22.1	20.5	21.4	20.9	21.7	22.1
	3H	21.3	22.0	21.7	22.4	22.8	21.3	22.0	21.7	22.4	22.8
	4H	21.8	22.4	22.3	22.9	23.3	21.8	22.4	22.3	22.9	23.3
	6H	22.2	22.7	22.7	23.1	23.6	22.2	22.7	22.7	23.1	23.6
	8H	22.3	22.7	22.8	23.2	23.7	22.3	22.7	22.8	23.2	23.7
	12H	22.4	22.7	22.9	23.2	23.7	22.4	22.7	22.9	23.2	23.7
8H	4H	22.0	22.4	22.5	22.9	23.4	22.0	22.4	22.5	22.9	23.4
	6H	22.4	22.8	22.9	23.3	23.8	22.4	22.8	22.9	23.3	23.8
	8H	22.6	22.9	23.1	23.4	23.9	22.6	22.9	23.1	23.4	23.9
	12H	22.7	22.9	23.2	23.5	24.0	22.7	22.9	23.2	23.5	24.0
12H	4H	22.0	22.4	22.5	22.8	23.3	22.0	22.4	22.5	22.8	23.3
	6H	22.5	22.7	23.0	23.2	23.8	22.5	22.7	23.0	23.2	23.8
	8H	22.6	22.9	23.2	23.4	23.9	22.6	22.9	23.2	23.4	23.9

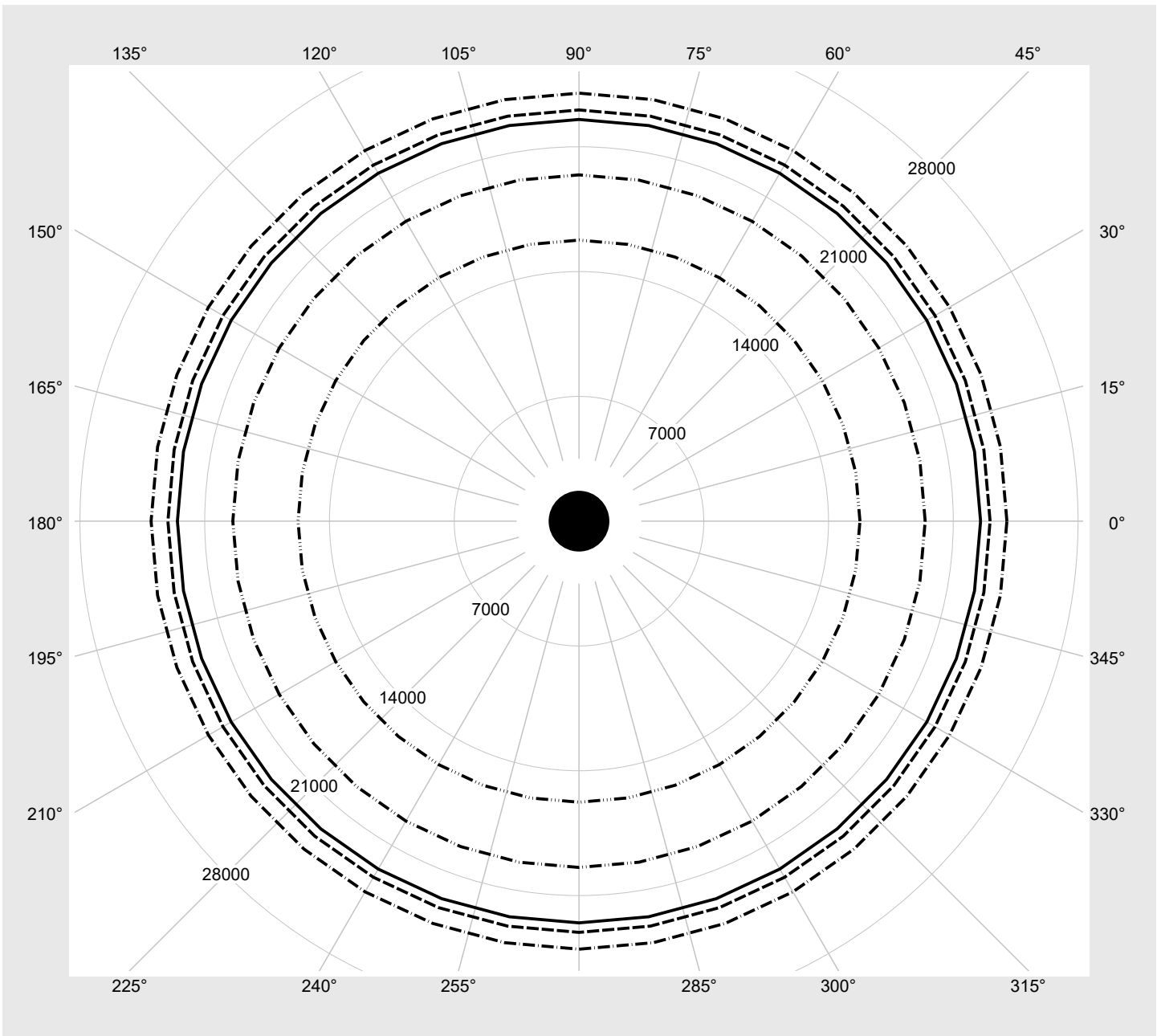
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 85
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C-planes	0°
γ	Luminance in cd/m²
45°	30428.5
50°	28313.9
55°	26301.6
60°	24140.1
65°	22532.5
70°	23065.6
75°	24008.4
80°	19423.7
85°	15764.4

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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	5100	40.4
14	ON	ON	ON	OFF	4920	38.5
13	ON	ON	OFF	ON	4730	36.6
12	ON	ON	OFF	OFF	4540	34.7
11	ON	OFF	ON	ON	4330	32.6
10	ON	OFF	ON	OFF	4120	30.7
9	ON	OFF	OFF	ON	3910	28.7
8	ON	OFF	OFF	OFF	3690	26.8
7	OFF	ON	ON	ON	3400	24.3
6	OFF	ON	ON	OFF	3170	22.4
5	OFF	ON	OFF	ON	2930	20.6
4	OFF	ON	OFF	OFF	2690	18.7
3	OFF	OFF	ON	ON	2420	16.6
2	OFF	OFF	ON	OFF	2170	14.8
1	OFF	OFF	OFF	ON	1920	13.0
0	OFF	OFF	OFF	OFF	1660	11.2