

Photometric test report

Family
Spot 21 Modario®

Order number: 51SM13MB11D2C
EAN: 4069025531360

LP number
59885_14



Version reflector, cover, polycarbonate, rotationally symmetrical medium distribution

Lamps LED 4000 K | CRI ≥ 90

Controlgear ECG Multilumen

Setting factory setting: DIP-Step=9

Rated values Net luminous flux = 4050 lm
Power consumption = 28.8 W
Luminous efficacy = 140.6 lm/W

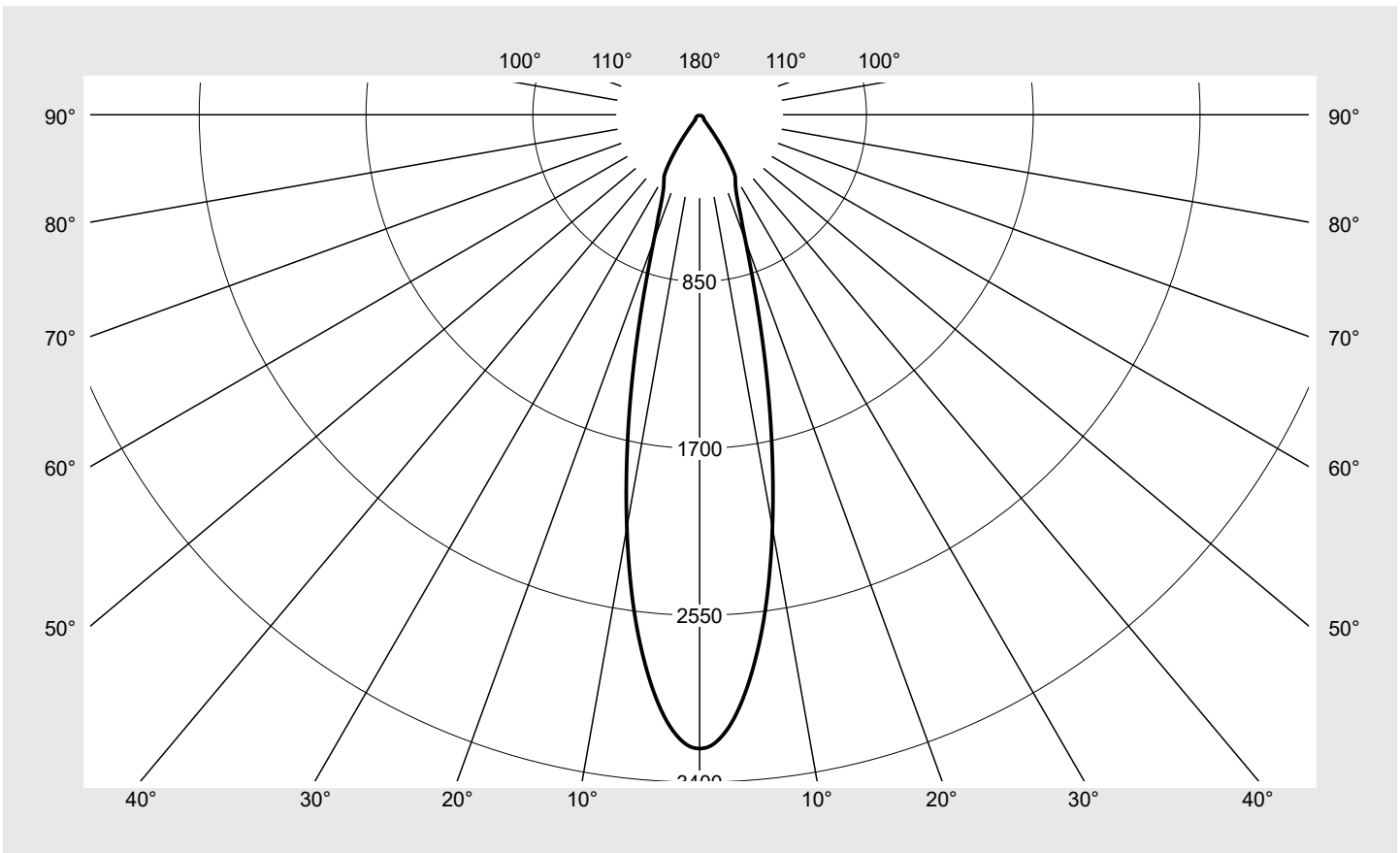
serial
documentation
21.05.2026

sitEco

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	20.5	21.6	20.9	21.9	22.2	20.5	21.6	20.9	21.9	22.2
	3H	21.1	22.0	21.5	22.4	22.7	21.1	22.0	21.5	22.4	22.7
	4H	21.5	22.3	21.9	22.7	23.1	21.5	22.3	21.9	22.7	23.1
	6H	21.8	22.5	22.2	22.9	23.3	21.8	22.5	22.2	22.9	23.3
	8H	21.9	22.5	22.3	22.9	23.3	21.9	22.5	22.3	22.9	23.3
	12H	22.0	22.5	22.4	22.9	23.3	22.0	22.5	22.4	22.9	23.3
4H	2H	20.7	21.5	21.1	21.9	22.2	20.7	21.5	21.1	21.9	22.2
	3H	21.4	22.1	21.9	22.5	22.9	21.4	22.1	21.9	22.5	22.9
	4H	21.9	22.6	22.4	23.0	23.4	21.9	22.6	22.4	23.0	23.4
	6H	22.3	22.8	22.8	23.3	23.7	22.3	22.8	22.8	23.3	23.7
	8H	22.4	22.9	22.9	23.3	23.8	22.4	22.9	22.9	23.3	23.8
	12H	22.5	22.9	23.0	23.3	23.8	22.5	22.9	23.0	23.3	23.8
8H	4H	22.1	22.6	22.6	23.0	23.5	22.1	22.6	22.6	23.0	23.5
	6H	22.5	22.9	23.0	23.4	23.9	22.5	22.9	23.0	23.4	23.9
	8H	22.7	23.0	23.2	23.5	24.0	22.7	23.0	23.2	23.5	24.0
	12H	22.8	23.1	23.4	23.6	24.1	22.8	23.1	23.4	23.6	24.1
12H	4H	22.1	22.5	22.6	23.0	23.5	22.1	22.5	22.6	23.0	23.5
	6H	22.6	22.9	23.1	23.4	23.9	22.6	22.9	23.1	23.4	23.9
	8H	22.8	23.0	23.3	23.5	24.1	22.8	23.0	23.3	23.5	24.1

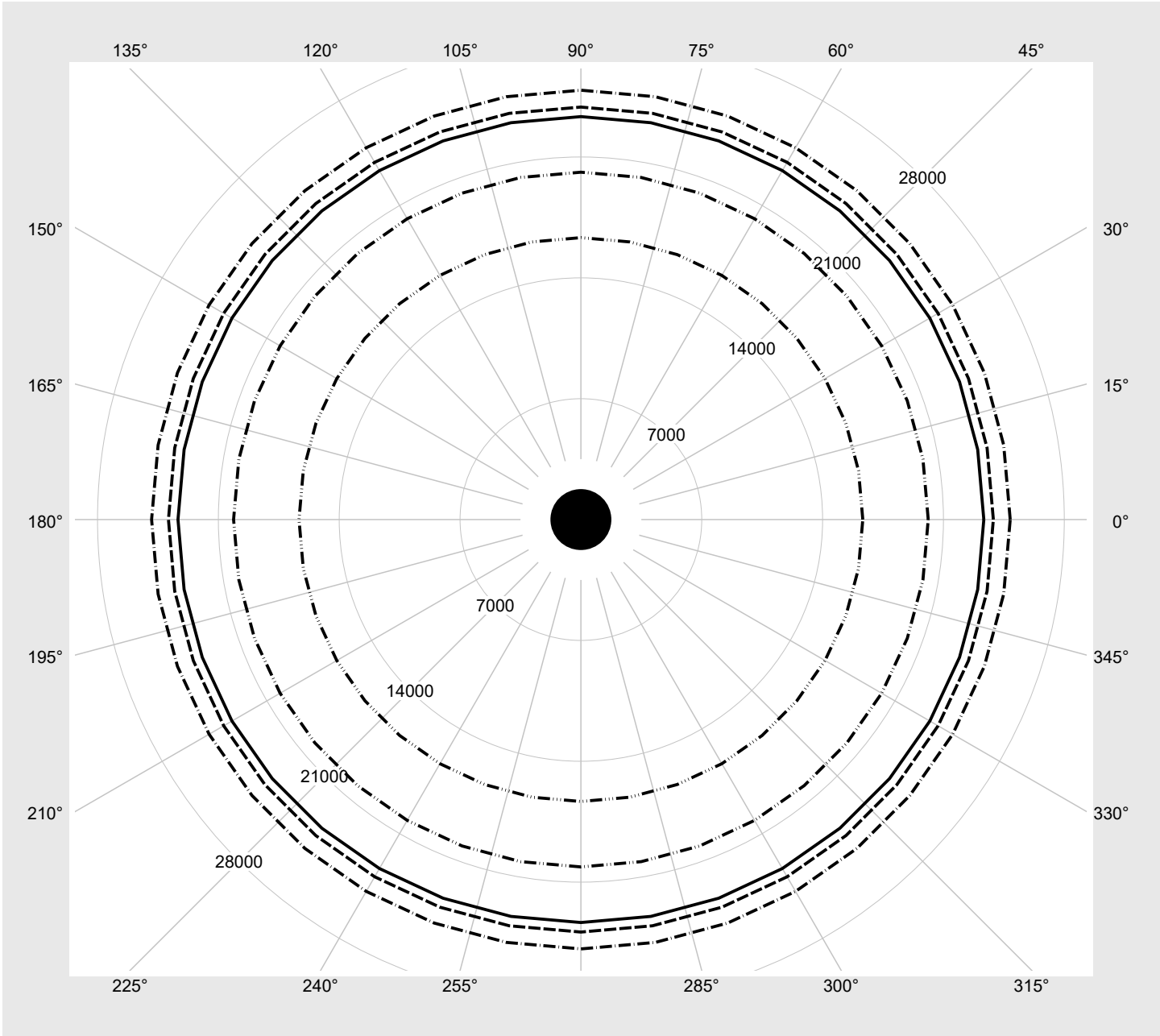
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 85
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C-planes	0°
γ	Luminance in cd/m²
45°	31518.0
50°	29327.7
55°	27243.4
60°	25004.4
65°	23339.3
70°	23891.5
75°	24868.0
80°	20119.2
85°	16328.9

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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	5300	40.6
14	ON	ON	ON	OFF	5110	38.6
13	ON	ON	OFF	ON	4920	36.8
12	ON	ON	OFF	OFF	4710	34.8
11	ON	OFF	ON	ON	4490	32.7
10	ON	OFF	ON	OFF	4270	30.7
9	ON	OFF	OFF	ON	4050	28.8
8	ON	OFF	OFF	OFF	3830	26.8
7	OFF	ON	ON	ON	3520	24.4
6	OFF	ON	ON	OFF	3280	22.4
5	OFF	ON	OFF	ON	3030	20.6
4	OFF	ON	OFF	OFF	2780	18.7
3	OFF	OFF	ON	ON	2500	16.6
2	OFF	OFF	ON	OFF	2240	14.8
1	OFF	OFF	OFF	ON	1980	13.0
0	OFF	OFF	OFF	OFF	1720	11.2