

Photometric test report

Family
Spot 21 Modario®

Order number: 51SM13DB11B2C
EAN: 4069025531247

LP number
59885_16



Version reflector, cover, polycarbonate, rotationally symmetrical medium distribution

Lamps LED 3000 K | CRI ≥ 90

Controlgear ECG-DALI-Multilumen

Setting factory setting: DIP-Step=10

Rated values Net luminous flux = 4010 lm
Power consumption = 30.9 W
Luminous efficacy = 129.8 lm/W

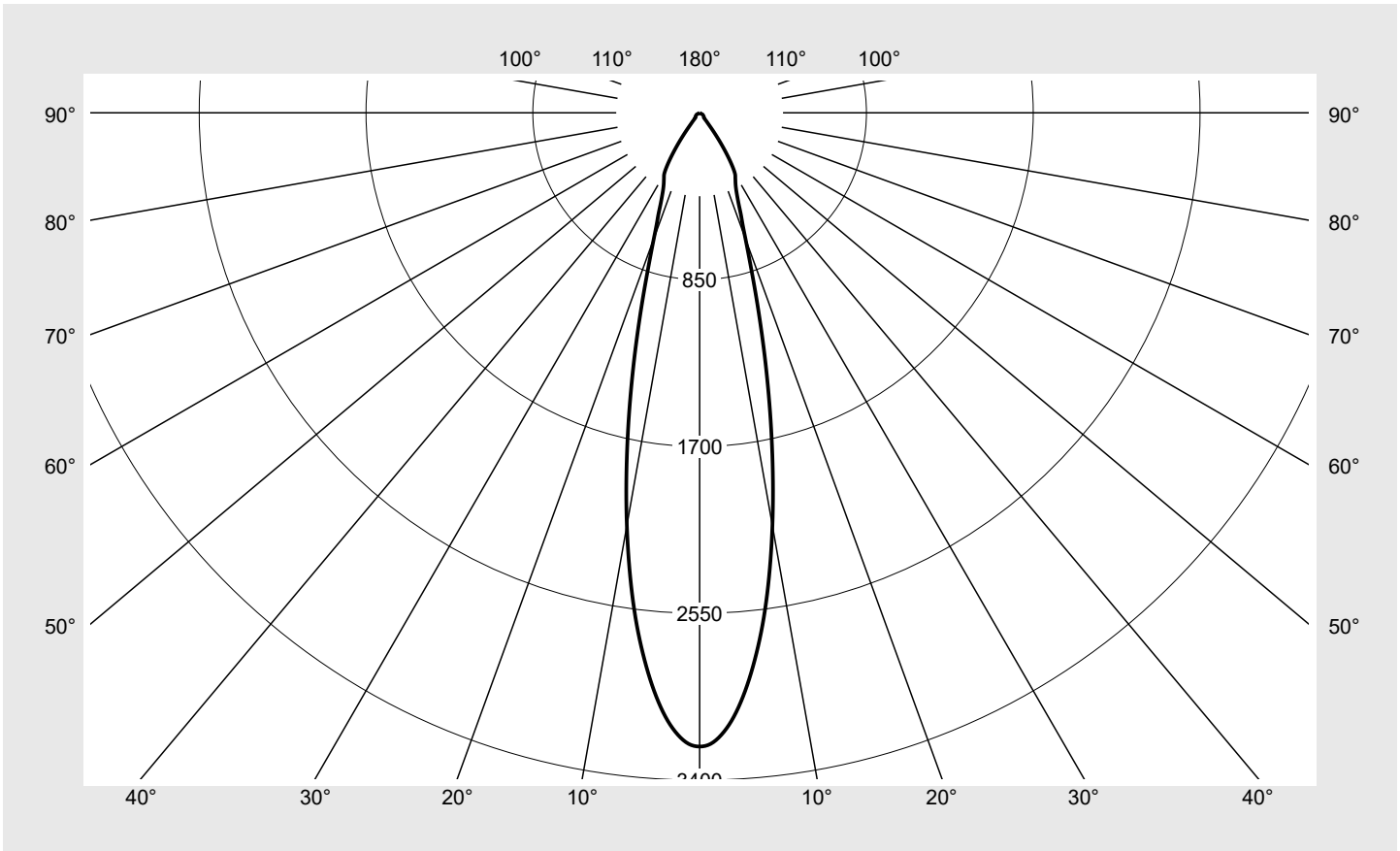
serial
documentation
21.05.2026

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
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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	22.3	22.7	21.1	22.0	21.5	22.3	22.7
	4H	21.5	22.3	21.9	22.7	23.0	21.5	22.3	21.9	22.7	23.0
	6H	21.7	22.5	22.2	22.8	23.2	21.7	22.5	22.2	22.8	23.2
	8H	21.9	22.5	22.3	22.9	23.3	21.9	22.5	22.3	22.9	23.3
	12H	21.9	22.5	22.4	22.9	23.3	21.9	22.5	22.4	22.9	23.3
4H	2H	20.6	21.5	21.0	21.8	22.2	20.6	21.5	21.0	21.8	22.2
	3H	21.4	22.1	21.8	22.5	22.9	21.4	22.1	21.8	22.5	22.9
	4H	21.9	22.5	22.4	22.9	23.4	21.9	22.5	22.4	22.9	23.4
	6H	22.3	22.8	22.8	23.2	23.7	22.3	22.8	22.8	23.2	23.7
	8H	22.4	22.8	22.9	23.3	23.8	22.4	22.8	22.9	23.3	23.8
	12H	22.5	22.8	23.0	23.3	23.8	22.5	22.8	23.0	23.3	23.8
8H	4H	22.1	22.5	22.6	23.0	23.5	22.1	22.5	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	23.0	23.3	23.5	24.1	22.8	23.0	23.3	23.5	24.1
12H	4H	22.1	22.4	22.6	22.9	23.4	22.1	22.4	22.6	22.9	23.4
	6H	22.5	22.8	23.1	23.3	23.9	22.5	22.8	23.1	23.3	23.9
	8H	22.7	23.0	23.2	23.5	24.0	22.7	23.0	23.2	23.5	24.0

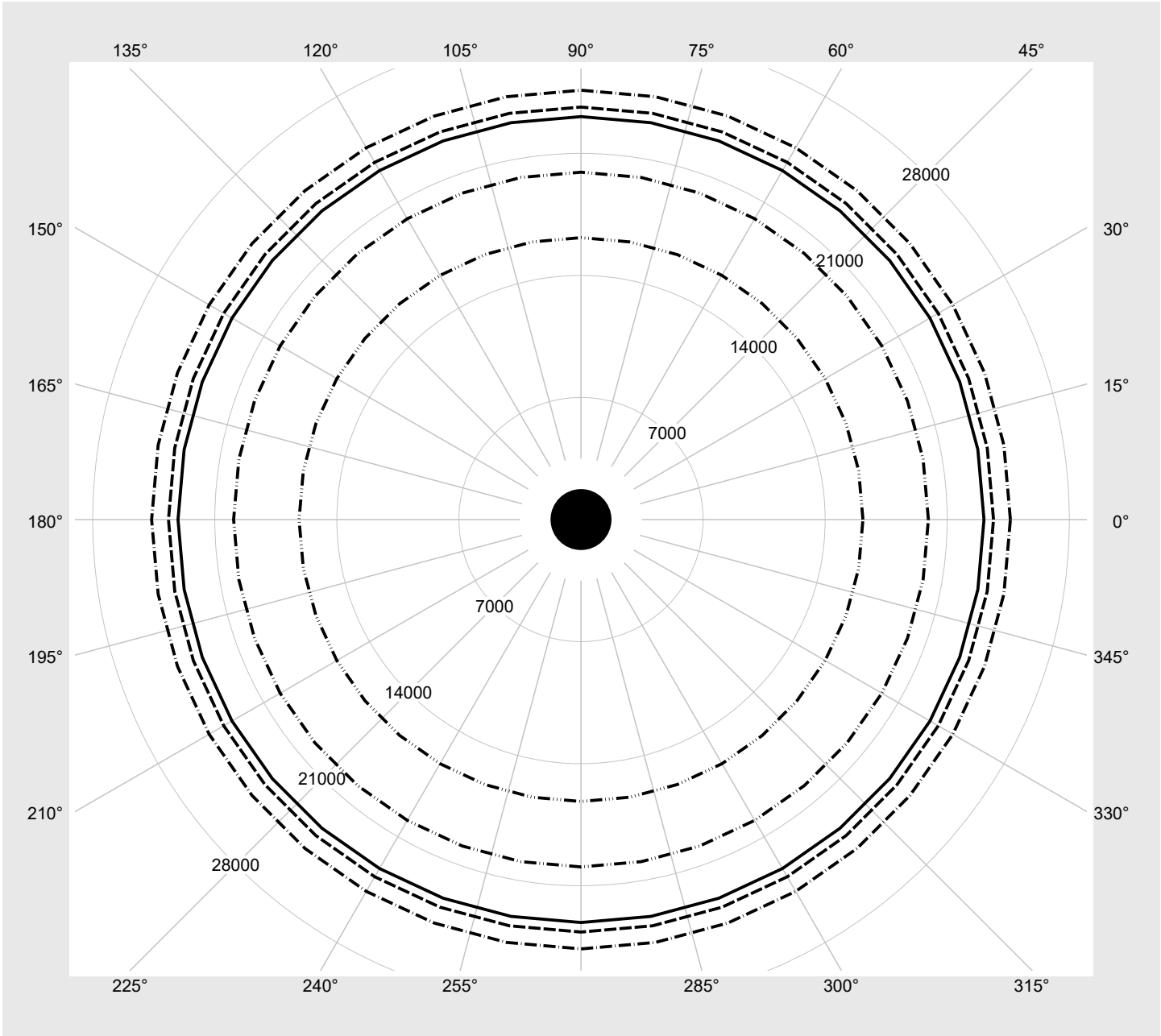
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 85
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C-planes	0°
γ	Luminance in cd/m²
45°	31206.7
50°	29038.0
55°	26974.3
60°	24757.5
65°	23108.7
70°	23655.5
75°	24622.4
80°	19920.4
85°	16167.6

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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	5080	41.4
14	ON	ON	ON	OFF	4830	39.2
13	ON	ON	OFF	ON	4630	37.0
12	ON	ON	OFF	OFF	4430	35.0
11	ON	OFF	ON	ON	4230	33.0
10	ON	OFF	ON	OFF	4010	30.9
9	ON	OFF	OFF	ON	3790	28.9
8	ON	OFF	OFF	OFF	3570	26.9
7	OFF	ON	ON	ON	3340	24.9
6	OFF	ON	ON	OFF	3110	22.9
5	OFF	ON	OFF	ON	2870	20.9
4	OFF	ON	OFF	OFF	2630	19.0
3	OFF	OFF	ON	ON	2390	17.2
2	OFF	OFF	ON	OFF	2140	15.3
1	OFF	OFF	OFF	ON	1890	13.5
0	OFF	OFF	OFF	OFF	1650	11.7