

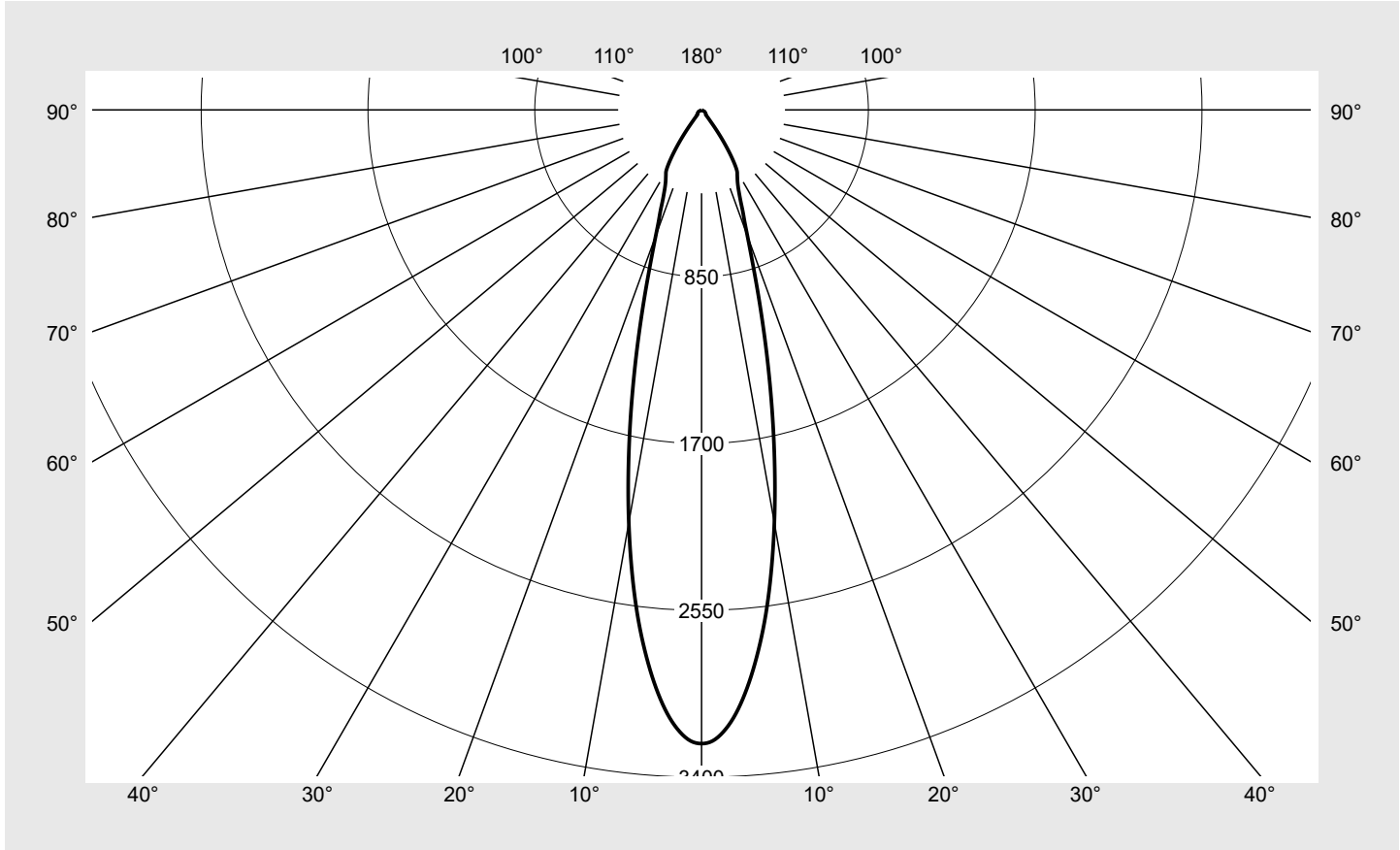


Photometric test report

Family Spot 21 Modario®	Order number: 51SM13DB11D2C EAN: 4069025531278	LP number 59885_17										
	<table border="0"> <tr> <td>Version</td> <td>reflector, cover, polycarbonate, rotationally symmetrical medium distribution</td> </tr> <tr> <td>Lamps</td> <td>LED 4000 K CRI ≥ 90</td> </tr> <tr> <td>Controlgear</td> <td>ECG-DALI-Multilumen</td> </tr> <tr> <td>Setting</td> <td>factory setting: DIP-Step=10</td> </tr> <tr> <td>Rated values</td> <td> Net luminous flux = 4170 lm Power consumption = 30.8 W Luminous efficacy = 135.4 lm/W </td> </tr> </table>	Version	reflector, cover, polycarbonate, rotationally symmetrical medium distribution	Lamps	LED 4000 K CRI ≥ 90	Controlgear	ECG-DALI-Multilumen	Setting	factory setting: DIP-Step=10	Rated values	Net luminous flux = 4170 lm Power consumption = 30.8 W Luminous efficacy = 135.4 lm/W	serial documentation 21.05.2026 
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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	20.6	21.7	21.0	22.0	22.3	20.6	21.7	21.0	22.0	22.3
	3H	21.2	22.1	21.6	22.5	22.8	21.2	22.1	21.6	22.5	22.8
	4H	21.6	22.4	22.0	22.8	23.2	21.6	22.4	22.0	22.8	23.2
	6H	21.9	22.6	22.3	23.0	23.4	21.9	22.6	22.3	23.0	23.4
	8H	22.0	22.6	22.4	23.0	23.4	22.0	22.6	22.4	23.0	23.4
	12H	22.1	22.6	22.5	23.0	23.4	22.1	22.6	22.5	23.0	23.4
4H	2H	20.8	21.6	21.2	22.0	22.3	20.8	21.6	21.2	22.0	22.3
	3H	21.5	22.2	22.0	22.6	23.0	21.5	22.2	22.0	22.6	23.0
	4H	22.0	22.7	22.5	23.1	23.5	22.0	22.7	22.5	23.1	23.5
	6H	22.4	22.9	22.9	23.4	23.8	22.4	22.9	22.9	23.4	23.8
	8H	22.5	23.0	23.0	23.4	23.9	22.5	23.0	23.0	23.4	23.9
	12H	22.6	23.0	23.1	23.4	23.9	22.6	23.0	23.1	23.4	23.9
8H	4H	22.2	22.7	22.7	23.1	23.6	22.2	22.7	22.7	23.1	23.6
	6H	22.6	23.0	23.1	23.5	24.0	22.6	23.0	23.1	23.5	24.0
	8H	22.8	23.1	23.3	23.6	24.1	22.8	23.1	23.3	23.6	24.1
	12H	22.9	23.2	23.5	23.7	24.2	22.9	23.2	23.5	23.7	24.2
12H	4H	22.2	22.6	22.7	23.1	23.6	22.2	22.6	22.7	23.1	23.6
	6H	22.7	23.0	23.2	23.5	24.0	22.7	23.0	23.2	23.5	24.0
	8H	22.9	23.1	23.4	23.6	24.2	22.9	23.1	23.4	23.6	24.2

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°	32451.9
50°	30196.6
55°	28050.6
60°	25745.3
65°	24030.8
70°	24599.4
75°	25604.9
80°	20715.3
85°	16812.7

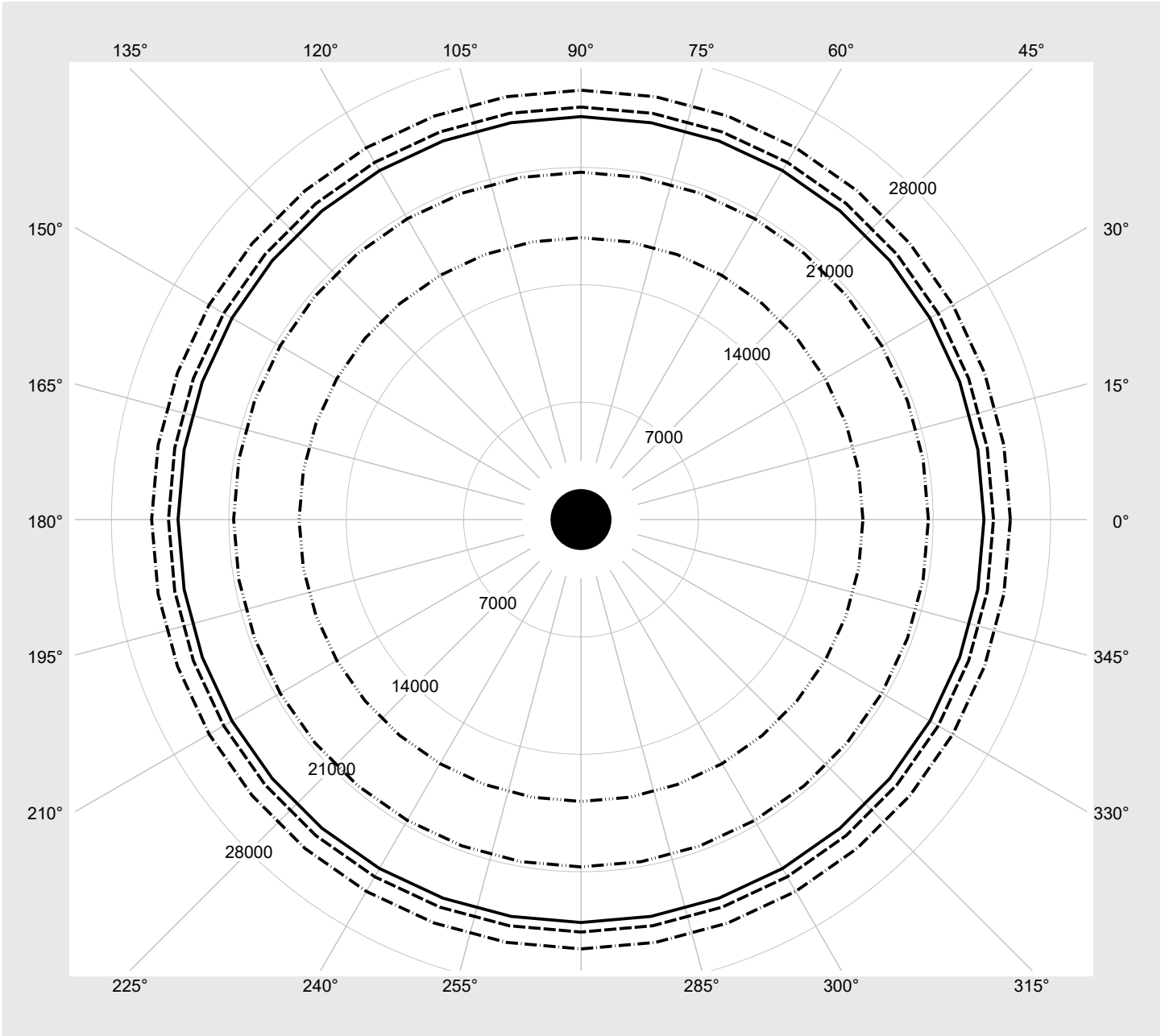
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



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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	5220	41.1
14	ON	ON	ON	OFF	5020	39.1
13	ON	ON	OFF	ON	4810	36.9
12	ON	ON	OFF	OFF	4610	34.9
11	ON	OFF	ON	ON	4390	32.9
10	ON	OFF	ON	OFF	4170	30.8
9	ON	OFF	OFF	ON	3940	28.8
8	ON	OFF	OFF	OFF	3710	26.8
7	OFF	ON	ON	ON	3470	24.8
6	OFF	ON	ON	OFF	3230	22.8
5	OFF	ON	OFF	ON	2980	20.9
4	OFF	ON	OFF	OFF	2730	19.0
3	OFF	OFF	ON	ON	2480	17.1
2	OFF	OFF	ON	OFF	2220	15.3
1	OFF	OFF	OFF	ON	1970	13.5
0	OFF	OFF	OFF	OFF	1710	11.7