

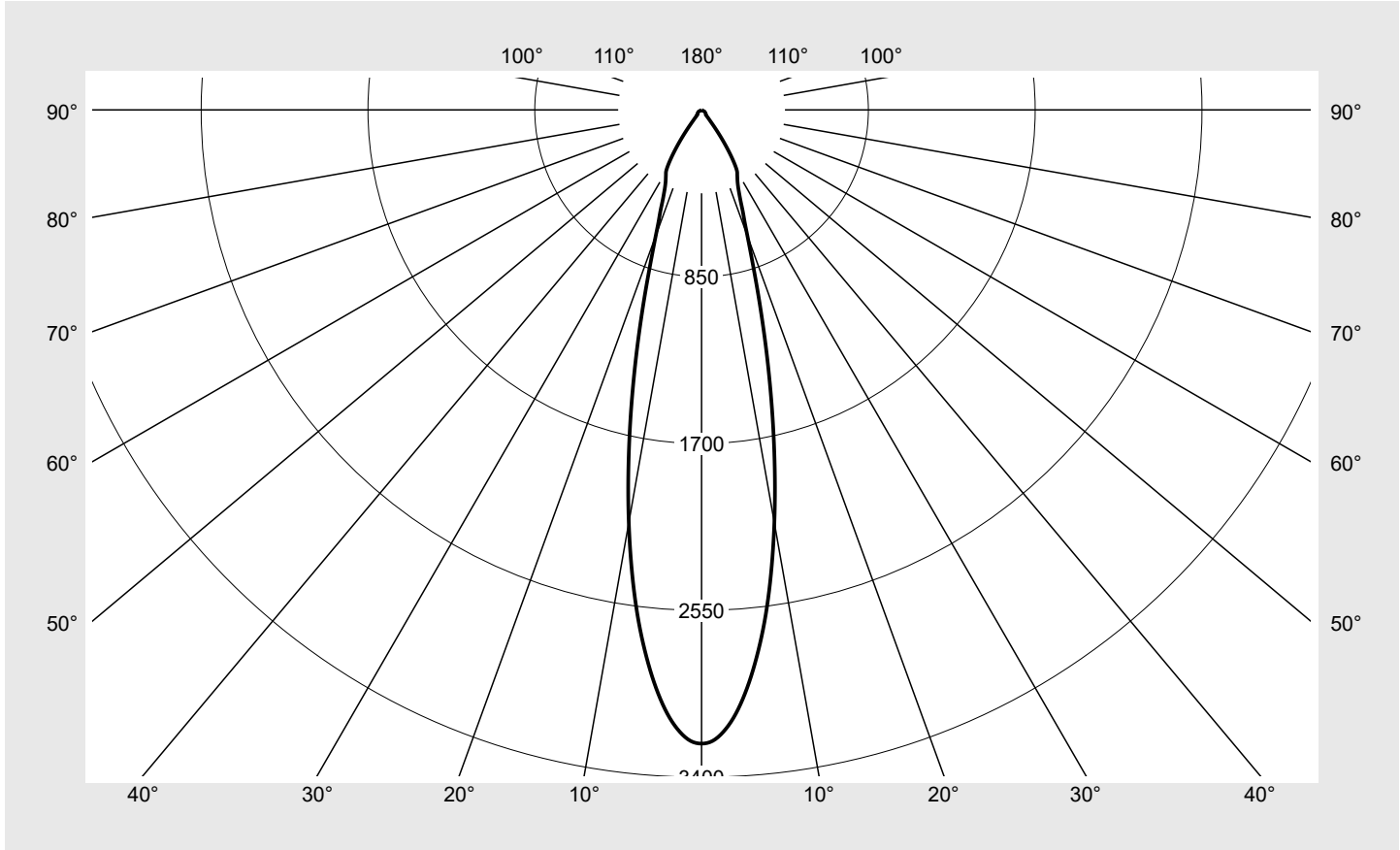


Photometric test report

Family Spot 21 Modario®	Order number: 51SM13DB11A2C EAN: 4069025531216	LP number 59885_15
	Version reflector, cover, polycarbonate, rotationally symmetrical medium distribution Lamps LED 2700 K CRI ≥ 90 Controlgear ECG-DALI-Multilumen Setting factory setting: DIP-Step=10	serial documentation 21.05.2026
	Rated values Net luminous flux = 3790 lm Power consumption = 31.0 W Luminous efficacy = 122.3 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	20.3	21.4	20.7	21.7	22.0	20.3	21.4	20.7	21.7	22.0
	3H	20.9	21.8	21.3	22.1	22.5	20.9	21.8	21.3	22.1	22.5
	4H	21.3	22.1	21.7	22.5	22.8	21.3	22.1	21.7	22.5	22.8
	6H	21.5	22.3	22.0	22.6	23.0	21.5	22.3	22.0	22.6	23.0
	8H	21.7	22.3	22.1	22.7	23.1	21.7	22.3	22.1	22.7	23.1
	12H	21.7	22.3	22.2	22.7	23.1	21.7	22.3	22.2	22.7	23.1
4H	2H	20.4	21.3	20.8	21.6	22.0	20.4	21.3	20.8	21.6	22.0
	3H	21.2	21.9	21.6	22.3	22.7	21.2	21.9	21.6	22.3	22.7
	4H	21.7	22.3	22.2	22.8	23.2	21.7	22.3	22.2	22.8	23.2
	6H	22.1	22.6	22.6	23.0	23.5	22.1	22.6	22.6	23.0	23.5
	8H	22.2	22.6	22.7	23.1	23.6	22.2	22.6	22.7	23.1	23.6
	12H	22.3	22.6	22.8	23.1	23.6	22.3	22.6	22.8	23.1	23.6
8H	4H	21.9	22.3	22.4	22.8	23.3	21.9	22.3	22.4	22.8	23.3
	6H	22.3	22.7	22.8	23.2	23.7	22.3	22.7	22.8	23.2	23.7
	8H	22.5	22.8	23.0	23.3	23.8	22.5	22.8	23.0	23.3	23.8
	12H	22.6	22.8	23.1	23.3	23.9	22.6	22.8	23.1	23.3	23.9
12H	4H	21.9	22.3	22.4	22.7	23.2	21.9	22.3	22.4	22.7	23.2
	6H	22.3	22.6	22.9	23.1	23.7	22.3	22.6	22.9	23.1	23.7
	8H	22.5	22.8	23.1	23.3	23.8	22.5	22.8	23.1	23.3	23.8

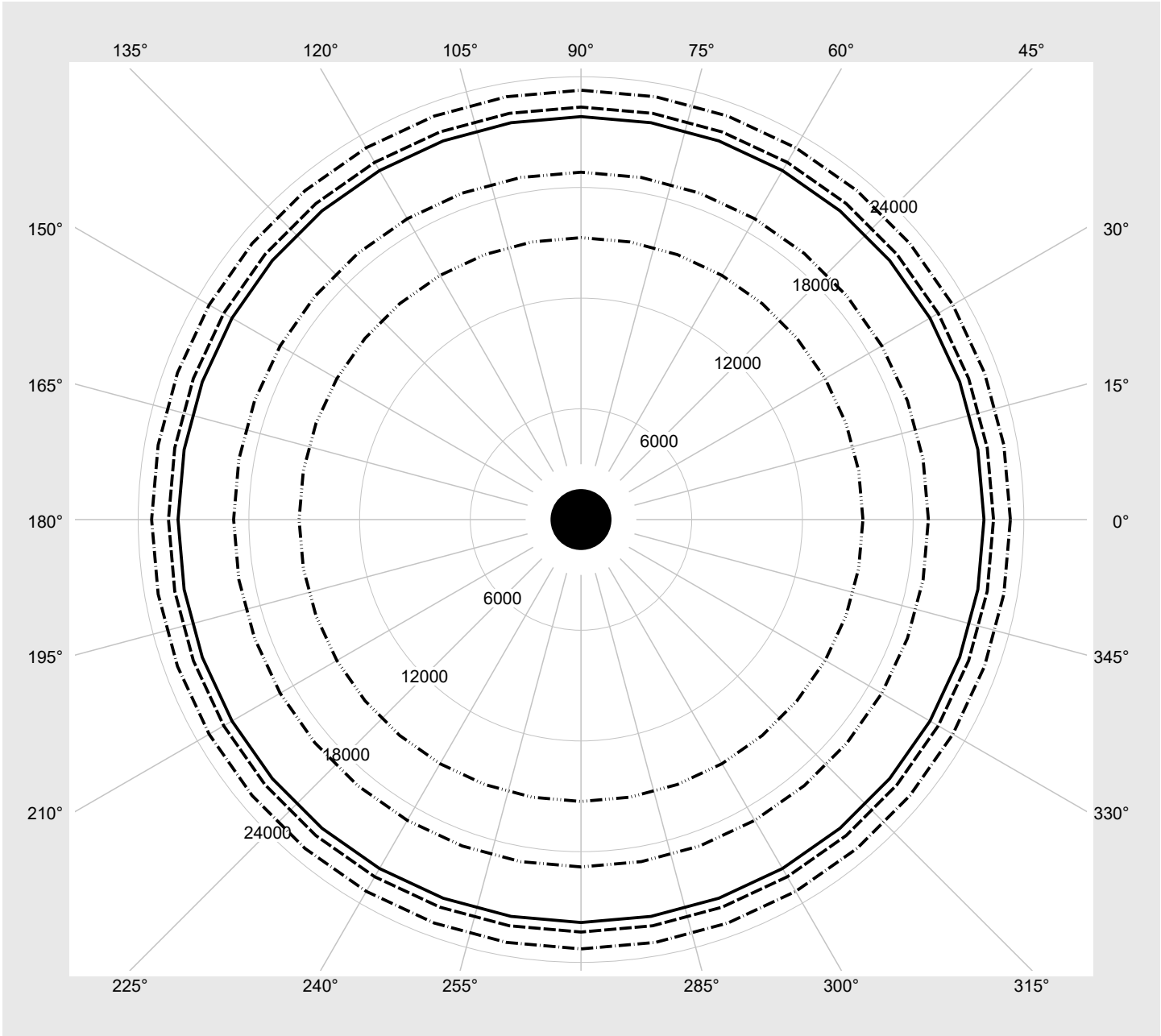
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 85
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C-planes	0°
γ	Luminance in cd/m²
45°	29494.6
50°	27444.9
55°	25494.4
60°	23399.2
65°	21840.9
70°	22357.7
75°	23271.6
80°	18827.6
85°	15280.6

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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	4760	41.4
14	ON	ON	ON	OFF	4580	39.3
13	ON	ON	OFF	ON	4390	37.1
12	ON	ON	OFF	OFF	4190	35.1
11	ON	OFF	ON	ON	4000	33.0
10	ON	OFF	ON	OFF	3790	31.0
9	ON	OFF	OFF	ON	3580	28.9
8	ON	OFF	OFF	OFF	3370	26.9
7	OFF	ON	ON	ON	3150	24.9
6	OFF	ON	ON	OFF	2930	22.9
5	OFF	ON	OFF	ON	2700	21.0
4	OFF	ON	OFF	OFF	2480	19.0
3	OFF	OFF	ON	ON	2250	17.2
2	OFF	OFF	ON	OFF	2020	15.3
1	OFF	OFF	OFF	ON	1780	13.5
0	OFF	OFF	OFF	OFF	1540	11.7