

## Photometric test report

**Family**  
**Spot 21 Modario®**

**Order number: 51SM14DB11D2C**  
**EAN: 4069025531452**

**LP number**  
**59886\_17**



<b>Version</b>	reflector, cover, polycarbonate, rotationally symmetrical wide distribution
<b>Lamps</b>	LED 4000 K   CRI ≥ 90
<b>Controlgear</b>	ECG-DALI-Multilumen
<b>Setting</b>	factory setting: DIP-Step=10
<b>Rated values</b>	Net luminous flux = 4170 lm Power consumption = 30.8 W Luminous efficacy = 135.4 lm/W

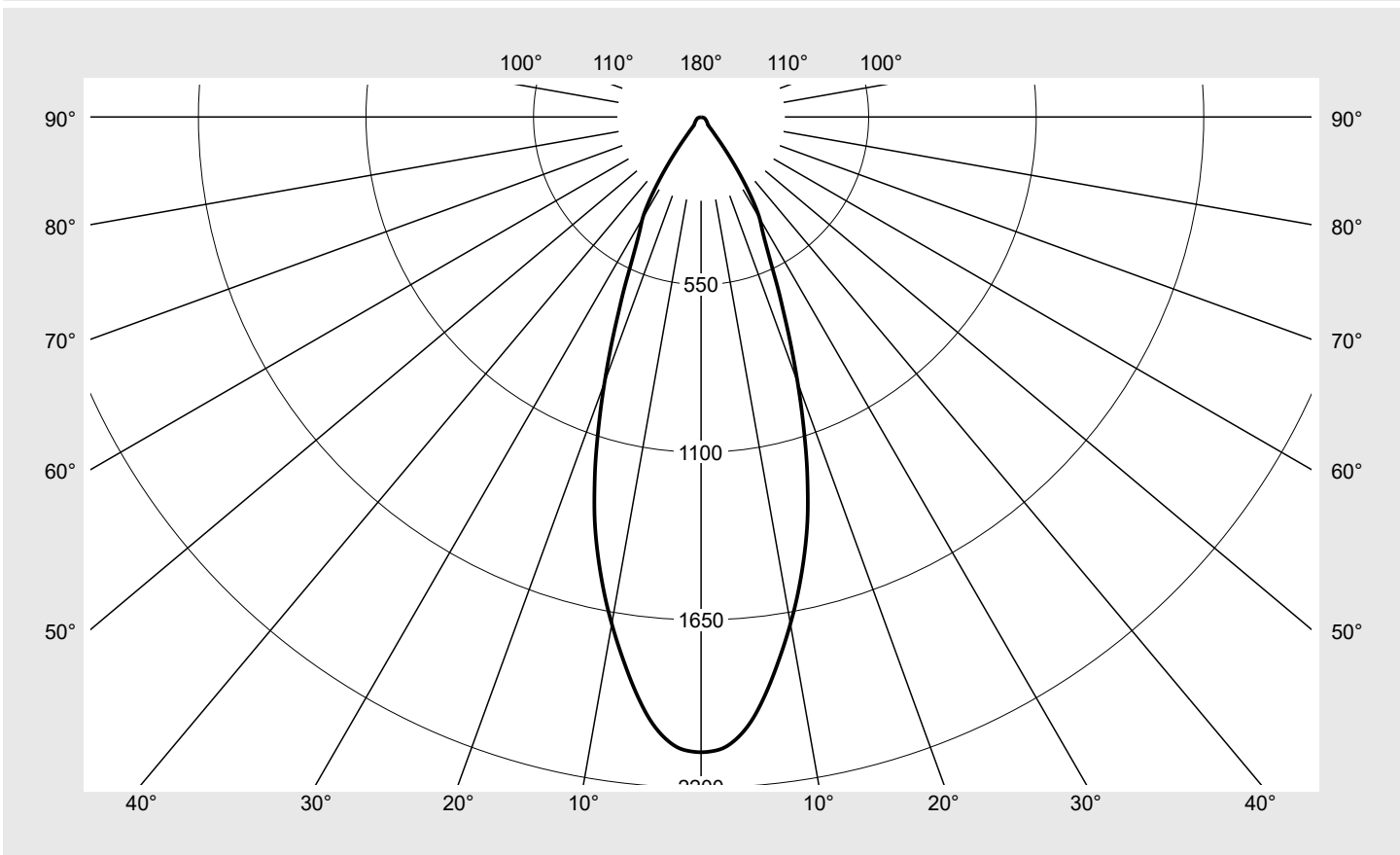
**serial**  
**documentation**  
**21.05.2026**

**sITeco**

**Luminous intensity in cd/klm**

**C180-0**

**Imax: 2084 cd/klm**



### Classifications

DIN 5040 A 7 0  
CIE N1=93 N2=97 N3=99  
N4=100 N5=100

### Luminaire light output ratios

$\eta_{LB}$  100.0%  
 $\phi_u$  100.0%  
 $\phi_o$  0.0%

### Measurement conditions

DIN EN 13032 and DIN 5032

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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
<b>siteco</b>		

C-planes	0°	Phi-zone	Total Phi-zone
$\gamma$	Luminous intensity in cd/klm		Luminous flux in lm/klm
0°	2084.2	0.5	0.5
1°	2081.2	4.0	4.5
2°	2072.1	7.9	12.4
3°	2050.8	11.8	24.2
4°	2019.3	15.4	39.6
5°	1977.7	18.9	58.5
6°	1925.9	22.1	80.6
7°	1869.1	25.0	105.6
8°	1809.3	27.6	133.2
9°	1749.4	30.0	163.2
10°	1688.5	32.2	195.4
11°	1626.6	34.0	229.4
12°	1561.7	35.6	265.0
13°	1494.7	36.9	301.9
14°	1425.7	37.8	339.7
15°	1351.6	38.4	378.1
16°	1269.4	38.4	416.4
17°	1186.2	38.0	454.5
18°	1097.9	37.2	491.7
19°	1011.8	36.1	527.8
20°	926.4	34.7	562.5
21°	843.7	33.2	595.7
22°	765.0	31.4	627.1
23°	690.3	29.6	656.7
24°	626.6	27.9	684.6
25°	563.1	26.1	710.7
26°	510.4	24.5	735.3
27°	467.8	23.3	758.6
28°	433.7	22.3	780.9
29°	407.7	21.7	802.6
30°	384.1	21.1	823.6
31°	352.2	19.9	843.5
32°	313.7	18.2	861.7
33°	272.0	16.2	878.0
34°	229.5	14.1	892.1
35°	187.4	11.8	903.9
36°	146.9	9.5	913.3
37°	109.3	7.2	920.5
38°	76.0	5.1	925.7
39°	57.5	4.0	929.6
40°	39.2	2.8	932.4
41°	36.2	2.6	935.0
42°	33.7	2.5	937.5
43°	32.3	2.4	939.9
44°	31.1	2.4	942.3
45°	29.8	2.3	944.6
46°	28.8	2.3	946.8

C-planes	0°	Phi-zone	Total Phi-zone
$\gamma$	Luminous intensity in cd/klm		Luminous flux in lm/klm
47°	27.8	2.2	949.1
48°	26.8	2.2	951.3
49°	25.9	2.1	953.4
50°	24.9	2.1	955.5
51°	24.0	2.0	957.5
52°	23.1	2.0	959.5
53°	22.3	2.0	961.5
54°	21.5	1.9	963.4
55°	20.8	1.9	965.3
56°	20.0	1.8	967.1
57°	19.4	1.8	968.9
58°	18.7	1.7	970.6
59°	18.1	1.7	972.3
60°	17.5	1.7	974.0
61°	17.0	1.6	975.6
62°	16.4	1.6	977.2
63°	15.9	1.6	978.8
64°	15.4	1.5	980.3
65°	14.9	1.5	981.8
66°	14.4	1.4	983.2
67°	13.9	1.4	984.6
68°	13.4	1.4	986.0
69°	12.9	1.3	987.3
70°	12.4	1.3	988.6
71°	11.9	1.2	989.8
72°	11.4	1.2	991.0
73°	10.9	1.1	992.1
74°	10.4	1.1	993.2
75°	9.7	1.0	994.3
76°	9.0	1.0	995.2
77°	7.5	0.8	996.0
78°	6.3	0.7	996.7
79°	5.7	0.6	997.3
80°	5.0	0.5	997.9
81°	4.4	0.5	998.3
82°	3.8	0.4	998.7
83°	3.2	0.3	999.1
84°	2.6	0.3	999.4
85°	2.1	0.2	999.6
86°	1.6	0.2	999.8
87°	1.1	0.1	999.9
88°	0.7	0.1	1000.0
89°	0.2	0.0	1000.0
90°	0.1	0.0	1000.0

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<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
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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	20.7	21.8	21.1	22.1	22.4	20.7	21.8	21.1	22.1	22.4
	3H	21.4	22.3	21.8	22.7	23.0	21.4	22.3	21.8	22.7	23.0
	4H	21.8	22.7	22.2	23.0	23.4	21.8	22.7	22.2	23.0	23.4
	6H	22.1	22.8	22.5	23.2	23.6	22.1	22.8	22.5	23.2	23.6
	8H	22.2	22.9	22.7	23.3	23.7	22.2	22.9	22.7	23.3	23.7
	12H	22.3	22.8	22.7	23.2	23.7	22.3	22.8	22.7	23.2	23.7
4H	2H	20.8	21.7	21.2	22.1	22.4	20.8	21.7	21.2	22.1	22.4
	3H	21.7	22.5	22.2	22.9	23.3	21.7	22.5	22.2	22.9	23.3
	4H	22.3	23.0	22.7	23.4	23.8	22.3	23.0	22.7	23.4	23.8
	6H	22.6	23.2	23.1	23.6	24.1	22.6	23.2	23.1	23.6	24.1
	8H	22.8	23.3	23.3	23.7	24.2	22.8	23.3	23.3	23.7	24.2
	12H	22.9	23.3	23.4	23.7	24.2	22.9	23.3	23.4	23.7	24.2
8H	4H	22.5	23.0	23.0	23.4	23.9	22.5	23.0	23.0	23.4	23.9
	6H	22.9	23.3	23.4	23.8	24.3	22.9	23.3	23.4	23.8	24.3
	8H	23.1	23.4	23.6	23.9	24.4	23.1	23.4	23.6	23.9	24.4
	12H	23.2	23.5	23.7	24.0	24.5	23.2	23.5	23.7	24.0	24.5
12H	4H	22.5	22.9	23.0	23.4	23.9	22.5	22.9	23.0	23.4	23.9
	6H	22.9	23.3	23.5	23.7	24.3	22.9	23.3	23.5	23.7	24.3
	8H	23.1	23.4	23.6	23.9	24.4	23.1	23.4	23.6	23.9	24.4

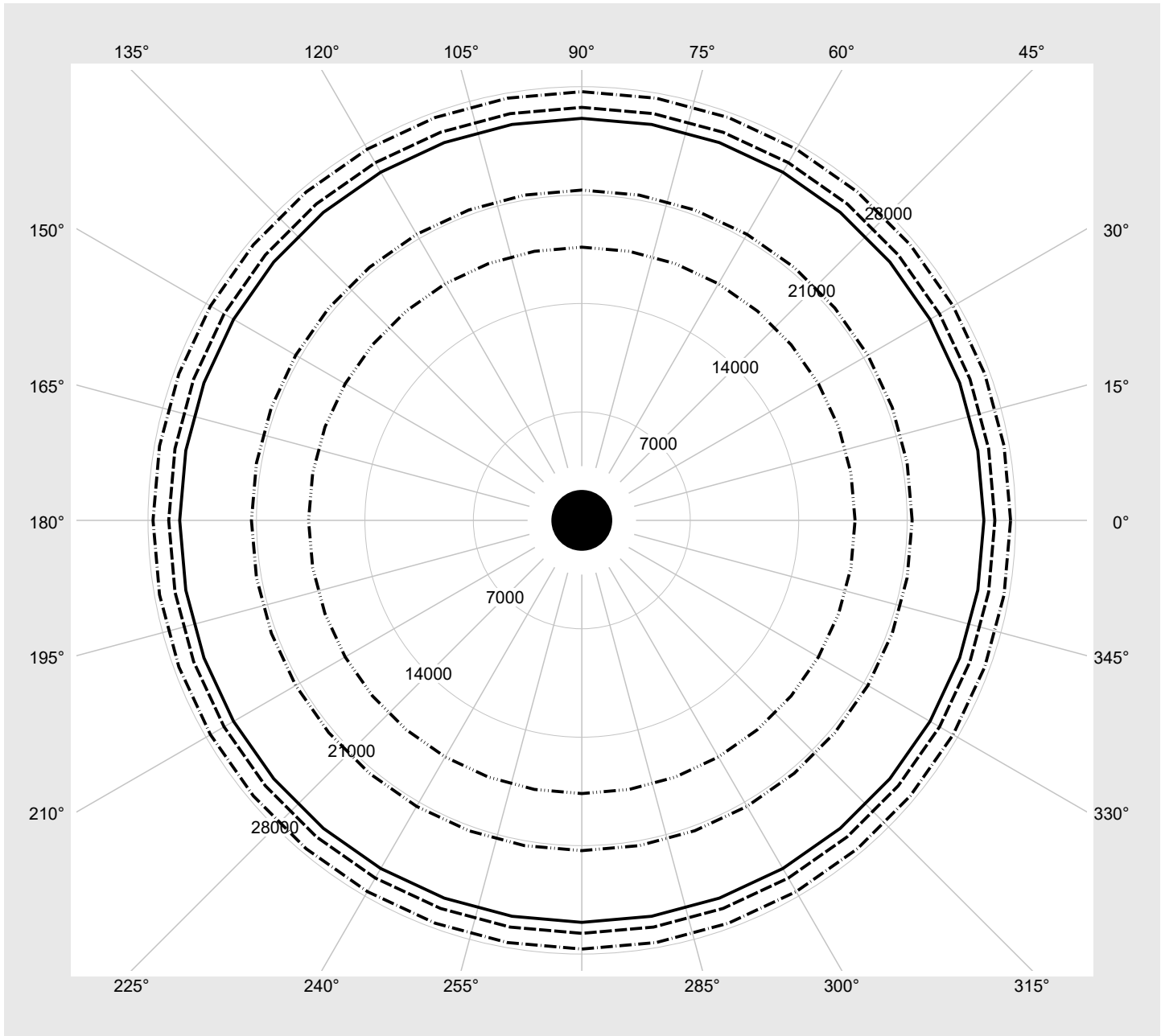
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm: D = 85</b>
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<b>C-planes</b>	<b>0°</b>
$\gamma$	<b>Luminance in cd/m<sup>2</sup></b>
45°	30973.0
50°	28433.7
55°	26637.4
60°	25711.5
65°	25955.7
70°	26664.2
75°	27677.5
80°	21324.7
85°	17639.0

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**Luminance values in cd/m<sup>2</sup>**        $\gamma$  65°      $\gamma$  70°      $\gamma$  75°      $\gamma$  80°      $\gamma$  85°



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<b>Multilumen Table</b>	environmental temperature: 25°C	<b>siteco</b>
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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