

## Photometric test report

Family  
Spot 21 Modario®

Order number: 51SM14DB11B2C  
EAN: 4069025531421

LP number  
59886\_16



<b>Version</b>	reflector, cover, polycarbonate, rotationally symmetrical wide distribution
<b>Lamps</b>	LED 3000 K   CRI ≥ 90
<b>Controlgear</b>	ECG-DALI-Multilumen
<b>Setting</b>	factory setting: DIP-Step=10
<b>Rated values</b>	Net luminous flux = 4010 lm Power consumption = 30.9 W Luminous efficacy = 129.8 lm/W

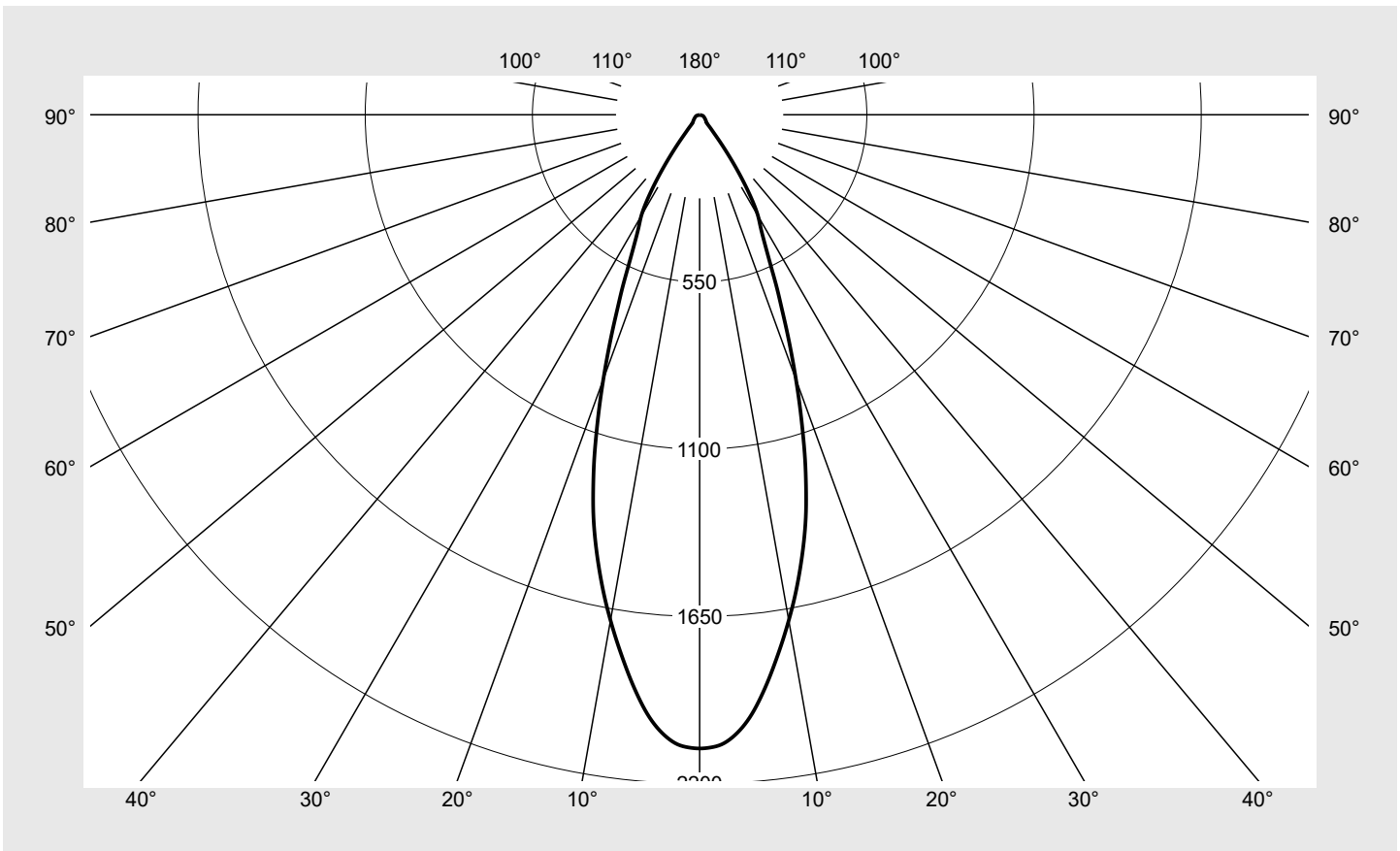
serial  
documentation  
21.05.2026

siteco

Luminous intensity in cd/klm

C180-0

Imax: 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	20.6	21.7	20.9	22.0	22.3	20.6	21.7	20.9	22.0	22.3
	3H	21.2	22.2	21.6	22.5	22.9	21.2	22.2	21.6	22.5	22.9
	4H	21.7	22.5	22.1	22.9	23.3	21.7	22.5	22.1	22.9	23.3
	6H	21.9	22.7	22.3	23.1	23.5	21.9	22.7	22.3	23.1	23.5
	8H	22.1	22.7	22.5	23.1	23.5	22.1	22.7	22.5	23.1	23.5
	12H	22.1	22.7	22.6	23.1	23.5	22.1	22.7	22.6	23.1	23.5
4H	2H	20.7	21.6	21.1	21.9	22.3	20.7	21.6	21.1	21.9	22.3
	3H	21.6	22.3	22.0	22.7	23.1	21.6	22.3	22.0	22.7	23.1
	4H	22.2	22.8	22.6	23.2	23.7	22.2	22.8	22.6	23.2	23.7
	6H	22.5	23.1	23.0	23.5	24.0	22.5	23.1	23.0	23.5	24.0
	8H	22.6	23.1	23.1	23.6	24.1	22.6	23.1	23.1	23.6	24.1
	12H	22.7	23.1	23.2	23.6	24.1	22.7	23.1	23.2	23.6	24.1
8H	4H	22.4	22.8	22.8	23.3	23.8	22.4	22.8	22.8	23.3	23.8
	6H	22.8	23.2	23.3	23.6	24.2	22.8	23.2	23.3	23.6	24.2
	8H	22.9	23.3	23.4	23.8	24.3	22.9	23.3	23.4	23.8	24.3
	12H	23.1	23.3	23.6	23.8	24.4	23.1	23.3	23.6	23.8	24.4
12H	4H	22.4	22.7	22.9	23.2	23.7	22.4	22.7	22.9	23.2	23.7
	6H	22.8	23.1	23.3	23.6	24.1	22.8	23.1	23.3	23.6	24.1
	8H	23.0	23.2	23.5	23.8	24.3	23.0	23.2	23.5	23.8	24.3

<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°	29784.6
50°	27342.8
55°	25615.4
60°	24725.0
65°	24959.8
70°	25641.1
75°	26615.6
80°	20506.5
85°	16962.2

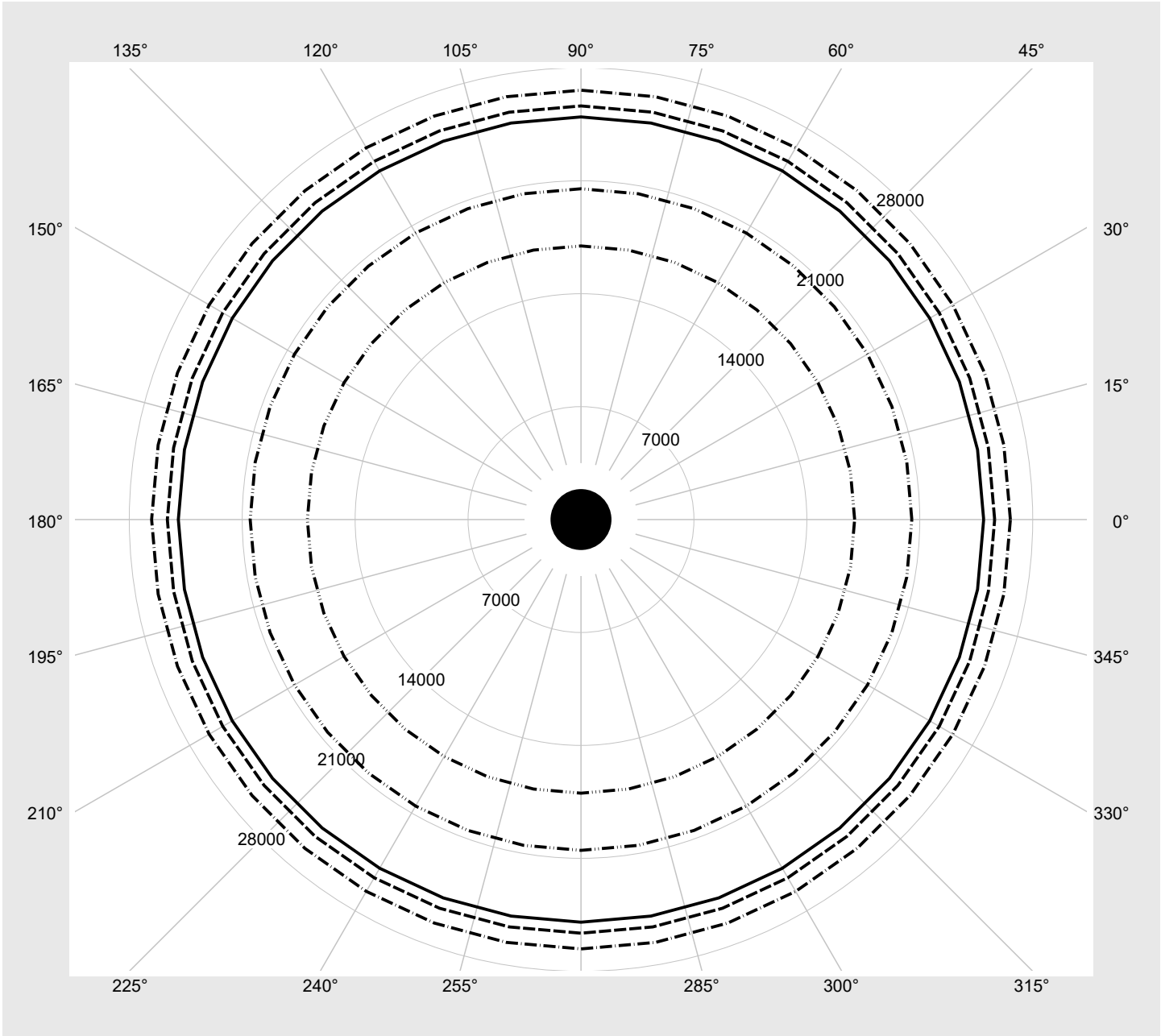
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  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	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