

## Photometric test report

Family  
Spot 21

Order number: **51SE14MBB5B**  
EAN: **4058352716656**

LP number  
**59386\_2**



<b>Version</b>	reflector, cover panel, PC, wide distribution
<b>Lamps</b>	LED 3000 K   CRI ≥ 90
<b>Controlgear</b>	ECG Multilumen
<b>Setting</b>	factory setting: DIP-Step=14
<b>Rated values</b>	Net luminous flux = 5110 lm Power consumption = 39.6 W Luminous efficacy = 129 lm/W

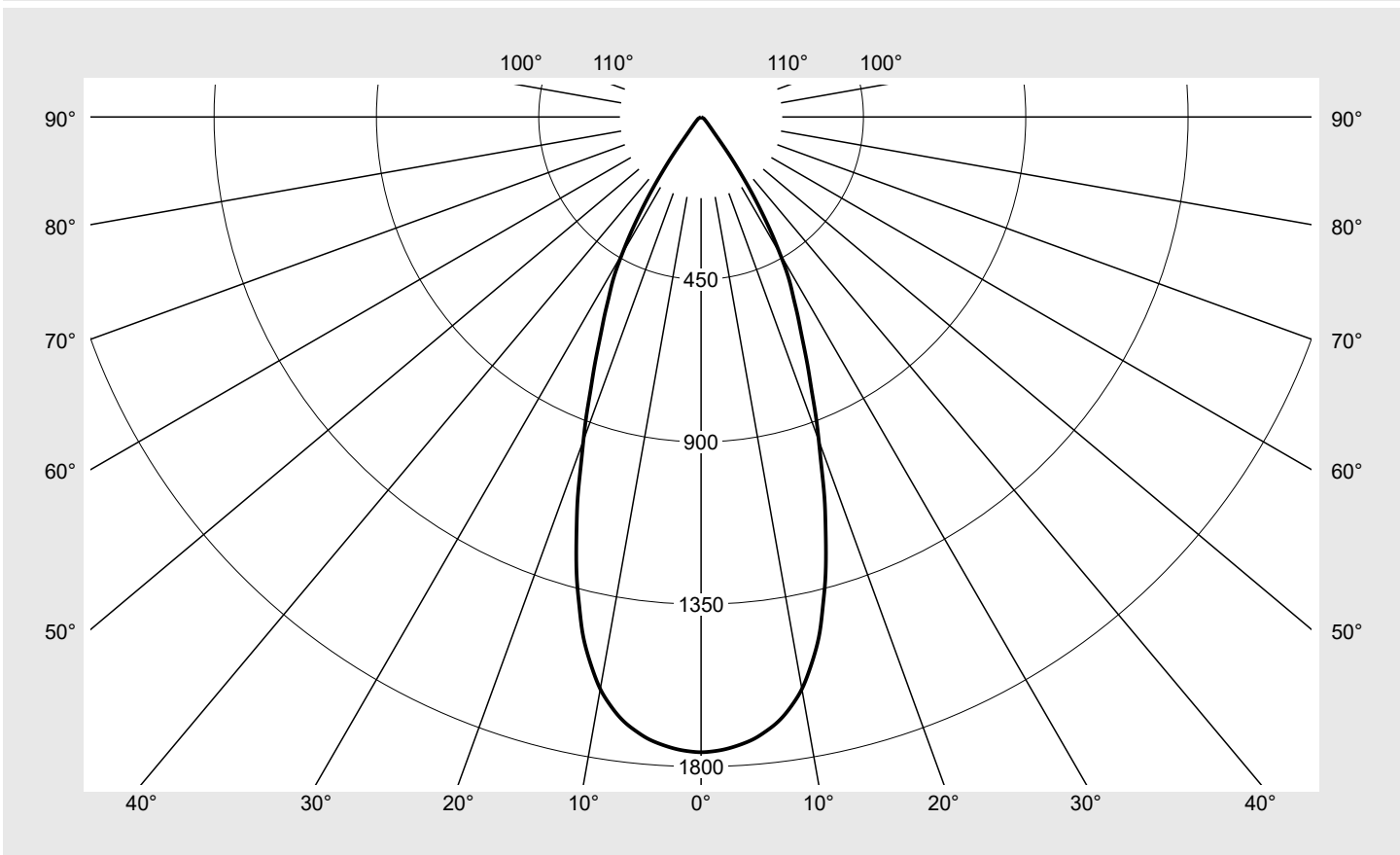
serial  
documentation  
14.02.2023

sitEco

Luminous intensity in cd/klm

C180-0

Imax: 1760 cd/klm



### Classifications

DIN 5040 A 7 0  
CIE N1=96 N2=99 N3=100  
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°	1760.1	0.4	0.4
1°	1758.2	3.4	3.8
2°	1754.1	6.7	10.5
3°	1747.3	10.0	20.5
4°	1738.6	13.3	33.8
5°	1727.5	16.5	50.3
6°	1712.0	19.6	70.0
7°	1694.4	22.6	92.6
8°	1671.3	25.5	118.1
9°	1642.7	28.2	146.3
10°	1609.5	30.6	176.9
11°	1565.8	32.8	209.7
12°	1518.0	34.6	244.3
13°	1463.5	36.1	280.4
14°	1395.9	37.0	317.5
15°	1329.8	37.7	355.2
16°	1255.6	38.0	393.1
17°	1179.7	37.8	431.0
18°	1106.2	37.5	468.5
19°	1025.0	36.6	505.0
20°	954.0	35.8	540.8
21°	887.6	34.9	575.7
22°	818.8	33.6	609.3
23°	761.0	32.6	642.0
24°	704.7	31.4	673.4
25°	653.5	30.3	703.7
26°	609.7	29.3	733.0
27°	565.7	28.2	761.1
28°	528.8	27.2	788.4
29°	487.3	25.9	814.3
30°	436.9	24.0	838.2
31°	388.6	21.9	860.2
32°	338.1	19.6	879.8
33°	288.5	17.2	897.1
34°	242.2	14.9	911.9
35°	194.7	12.2	924.2
36°	154.7	10.0	934.1
37°	117.6	7.8	941.9
38°	85.4	5.8	947.6
39°	64.8	4.5	952.1
40°	52.3	3.7	955.8
41°	44.6	3.2	959.0
42°	38.1	2.8	961.8
43°	33.3	2.5	964.3
44°	29.9	2.3	966.6
45°	26.7	2.1	968.6
46°	24.0	1.9	970.5

C-planes	0°	Phi-zone	Total Phi-zone
$\gamma$	Luminous intensity in cd/klm		Luminous flux in lm/klm
47°	21.9	1.8	972.3
48°	19.9	1.6	973.9
49°	18.3	1.5	975.4
50°	16.9	1.4	976.9
51°	15.6	1.3	978.2
52°	14.5	1.2	979.4
53°	13.4	1.2	980.6
54°	12.4	1.1	981.7
55°	11.7	1.1	982.8
56°	11.0	1.0	983.8
57°	10.3	1.0	984.7
58°	9.8	0.9	985.6
59°	9.2	0.9	986.5
60°	8.8	0.8	987.3
61°	8.4	0.8	988.1
62°	8.0	0.8	988.9
63°	7.6	0.7	989.6
64°	7.3	0.7	990.4
65°	7.0	0.7	991.0
66°	6.7	0.7	991.7
67°	6.4	0.6	992.4
68°	6.1	0.6	993.0
69°	5.9	0.6	993.6
70°	5.6	0.6	994.2
71°	5.4	0.6	994.7
72°	5.2	0.5	995.3
73°	4.9	0.5	995.8
74°	4.7	0.5	996.3
75°	4.5	0.5	996.8
76°	4.2	0.4	997.2
77°	4.0	0.4	997.6
78°	3.8	0.4	998.0
79°	3.5	0.4	998.4
80°	3.2	0.3	998.8
81°	2.9	0.3	999.1
82°	2.5	0.3	999.3
83°	2.0	0.2	999.6
84°	1.6	0.2	999.7
85°	1.1	0.1	999.9
86°	0.8	0.1	999.9
87°	0.4	0.0	1000.0
88°	0.1	0.0	1000.0
89°	0.0	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	21.5	22.6	21.9	22.9	23.2	21.5	22.6	21.9	22.9	23.2
	3H	21.6	22.5	22.0	22.9	23.2	21.6	22.5	22.0	22.9	23.2
	4H	21.6	22.5	22.0	22.9	23.2	21.6	22.5	22.0	22.9	23.2
	6H	21.7	22.5	22.2	22.9	23.3	21.7	22.5	22.2	22.9	23.3
	8H	21.9	22.5	22.3	22.9	23.3	21.9	22.5	22.3	22.9	23.3
	12H	21.9	22.4	22.3	22.8	23.3	21.9	22.4	22.3	22.8	23.3
4H	2H	21.4	22.3	21.8	22.6	23.0	21.4	22.3	21.8	22.6	23.0
	3H	21.5	22.2	21.9	22.6	23.0	21.5	22.2	21.9	22.6	23.0
	4H	21.6	22.3	22.1	22.7	23.1	21.6	22.3	22.1	22.7	23.1
	6H	21.8	22.3	22.3	22.8	23.2	21.8	22.3	22.3	22.8	23.2
	8H	21.9	22.3	22.4	22.8	23.3	21.9	22.3	22.4	22.8	23.3
	12H	22.0	22.3	22.5	22.8	23.3	22.0	22.3	22.5	22.8	23.3
8H	4H	21.6	22.1	22.1	22.5	23.0	21.6	22.1	22.1	22.5	23.0
	6H	21.9	22.3	22.4	22.7	23.2	21.9	22.3	22.4	22.7	23.2
	8H	22.0	22.3	22.5	22.8	23.3	22.0	22.3	22.5	22.8	23.3
	12H	22.1	22.3	22.6	22.8	23.4	22.1	22.3	22.6	22.8	23.4
12H	4H	21.7	22.0	22.1	22.5	23.0	21.7	22.0	22.1	22.5	23.0
	6H	21.9	22.2	22.4	22.7	23.2	21.9	22.2	22.4	22.7	23.2
	8H	22.0	22.3	22.6	22.8	23.3	22.0	22.3	22.6	22.8	23.3

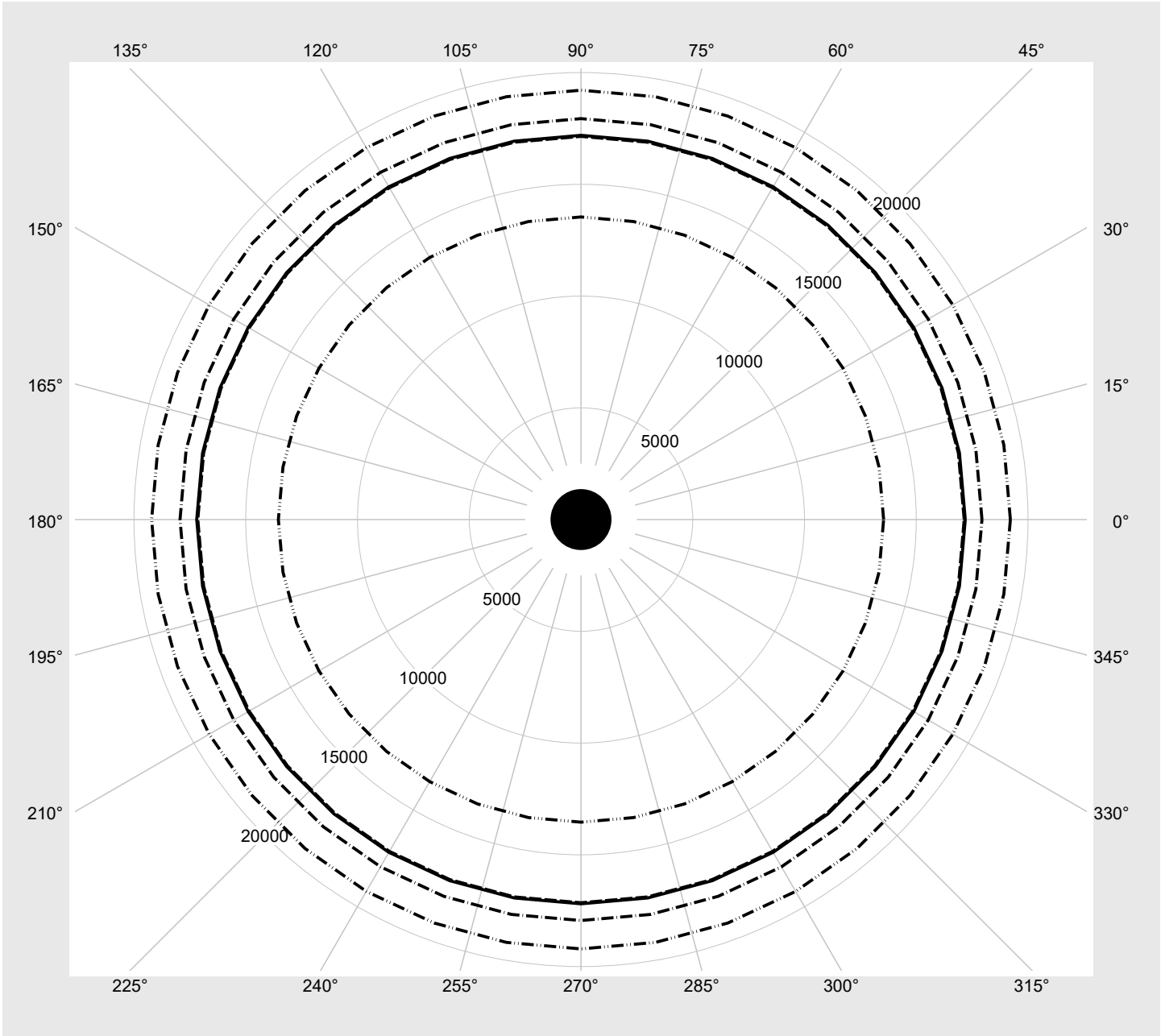
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 79
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C-planes	0°
$\gamma$	Luminance in cd/m <sup>2</sup>
45°	39327.5
50°	27336.2
55°	21290.7
60°	18320.9
65°	17193.4
70°	17145.4
75°	17940.3
80°	19211.3
85°	13540.3

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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	5530	41.8
14	ON	ON	ON	OFF	5110	39.6
13	ON	ON	OFF	ON	4910	37.5
12	ON	ON	OFF	OFF	4700	35.2
11	ON	OFF	ON	ON	4440	33.5
10	ON	OFF	ON	OFF	4220	31.5
9	ON	OFF	OFF	ON	3980	29.4
8	ON	OFF	OFF	OFF	3740	27.3
7	OFF	ON	ON	ON	3540	25.8
6	OFF	ON	ON	OFF	3300	23.9
5	OFF	ON	OFF	ON	3050	21.9
4	OFF	ON	OFF	OFF	2800	20.0
3	OFF	OFF	ON	ON	2500	17.7
2	OFF	OFF	ON	OFF	2240	15.9
1	OFF	OFF	OFF	ON	1960	13.8
0	OFF	OFF	OFF	OFF	1690	11.9