
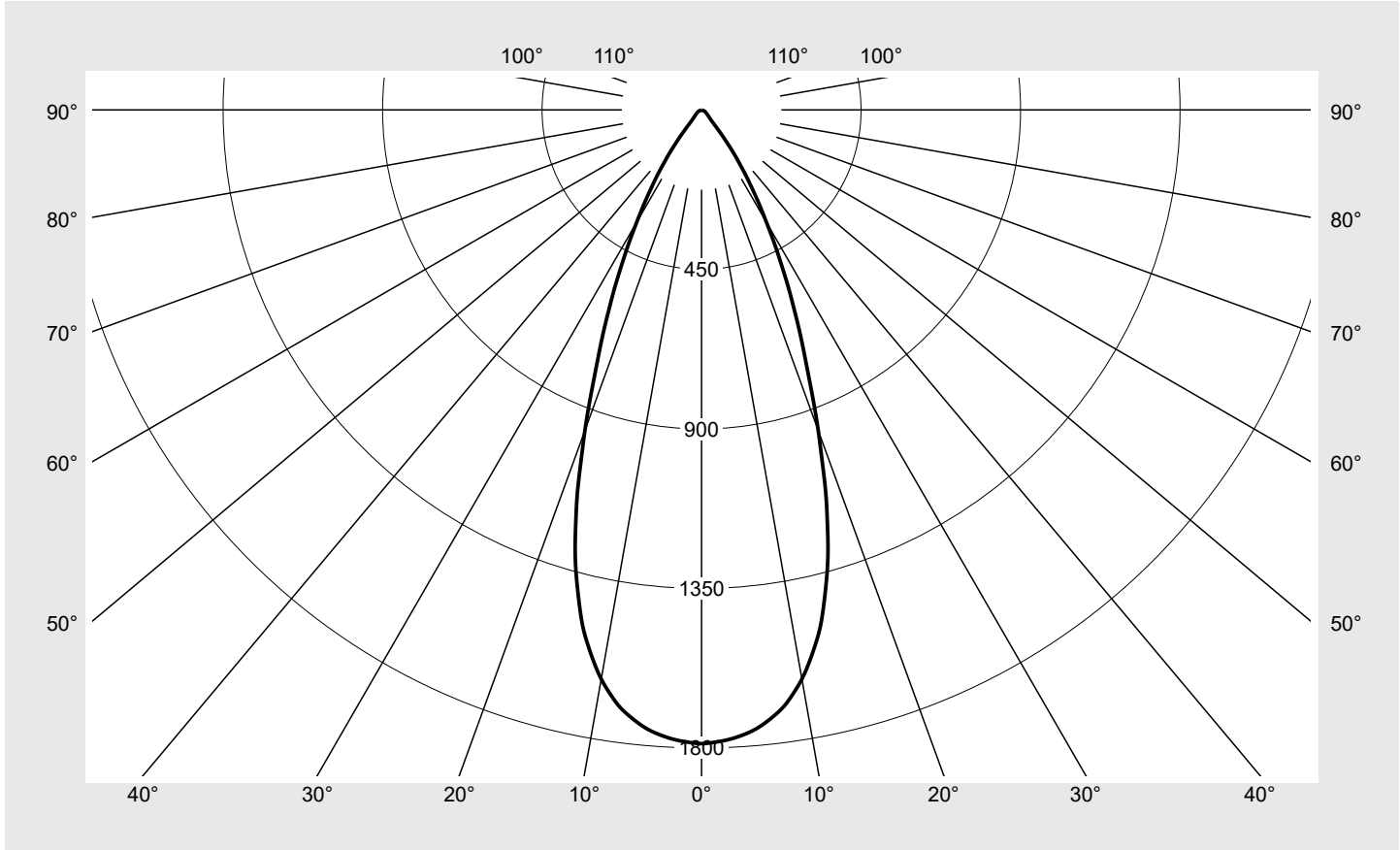


Photometric test report

Family Spot 11	Order number: 51SD14MAB5A EAN: 4058352716359	LP number 59368_2										
	<table border="0"> <tr> <td>Version</td> <td>reflector, cover panel, PC, clear, wide distribution</td> </tr> <tr> <td>Lamps</td> <td>LED 3000 K CRI ≥ 90</td> </tr> <tr> <td>Controlgear</td> <td>ECG Multilumen</td> </tr> <tr> <td>Setting</td> <td>factory setting: DIP-Step=10</td> </tr> <tr> <td>Rated values</td> <td> Net luminous flux = 5630 lm Power consumption = 37.8 W Luminous efficacy = 148.9 lm/W </td> </tr> </table>	Version	reflector, cover panel, PC, clear, wide distribution	Lamps	LED 3000 K CRI ≥ 90	Controlgear	ECG Multilumen	Setting	factory setting: DIP-Step=10	Rated values	Net luminous flux = 5630 lm Power consumption = 37.8 W Luminous efficacy = 148.9 lm/W	serial documentation 23.12.2022 
Version	reflector, cover panel, PC, clear, wide distribution											
Lamps	LED 3000 K CRI ≥ 90											
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Luminous intensity in cd/klm C180-0 **I_{max}: 1788 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=95 N2=98 N3=100 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°	1787.8	0.4	0.4
1°	1785.0	3.4	3.8
2°	1780.6	6.8	10.7
3°	1774.1	10.2	20.8
4°	1765.1	13.5	34.3
5°	1753.5	16.8	51.1
6°	1737.2	19.9	71.0
7°	1718.0	23.0	94.0
8°	1695.0	25.9	119.8
9°	1664.4	28.6	148.4
10°	1630.4	31.0	179.4
11°	1588.8	33.2	212.7
12°	1543.0	35.2	247.9
13°	1492.7	36.8	284.7
14°	1429.8	37.9	322.6
15°	1364.5	38.7	361.3
16°	1294.1	39.1	400.5
17°	1213.5	38.9	439.4
18°	1133.2	38.4	477.8
19°	1043.5	37.3	515.0
20°	962.6	36.1	551.1
21°	880.9	34.6	585.7
22°	803.1	33.0	618.7
23°	736.5	31.6	650.3
24°	675.3	30.1	680.4
25°	614.8	28.5	708.9
26°	561.0	27.0	735.9
27°	506.2	25.2	761.1
28°	457.2	23.5	784.6
29°	410.6	21.8	806.4
30°	366.1	20.1	826.5
31°	327.4	18.5	845.0
32°	290.6	16.9	861.9
33°	255.7	15.3	877.2
34°	225.3	13.8	891.0
35°	193.5	12.2	903.2
36°	166.5	10.7	913.9
37°	139.9	9.2	923.1
38°	114.0	7.7	930.8
39°	91.9	6.3	937.2
40°	71.2	5.0	942.2
41°	55.8	4.0	946.2
42°	45.5	3.3	949.5
43°	39.2	2.9	952.5
44°	34.9	2.7	955.1
45°	32.1	2.5	957.6
46°	29.6	2.3	960.0

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
47°	27.8	2.2	962.2
48°	25.7	2.1	964.3
49°	24.0	2.0	966.3
50°	22.5	1.9	968.2
51°	21.0	1.8	969.9
52°	19.7	1.7	971.7
53°	18.6	1.6	973.3
54°	17.4	1.5	974.8
55°	16.5	1.5	976.3
56°	15.5	1.4	977.7
57°	14.7	1.4	979.1
58°	14.0	1.3	980.4
59°	13.3	1.2	981.6
60°	12.7	1.2	982.8
61°	12.0	1.2	984.0
62°	11.5	1.1	985.1
63°	10.9	1.1	986.2
64°	10.4	1.0	987.2
65°	9.9	1.0	988.2
66°	9.4	0.9	989.1
67°	9.0	0.9	990.0
68°	8.5	0.9	990.9
69°	8.1	0.8	991.7
70°	7.7	0.8	992.5
71°	7.3	0.8	993.3
72°	6.8	0.7	994.0
73°	6.5	0.7	994.7
74°	6.1	0.6	995.3
75°	5.7	0.6	995.9
76°	5.4	0.6	996.5
77°	5.0	0.5	997.0
78°	4.7	0.5	997.5
79°	4.4	0.5	998.0
80°	4.0	0.4	998.4
81°	3.5	0.4	998.8
82°	3.1	0.3	999.1
83°	2.5	0.3	999.4
84°	2.0	0.2	999.6
85°	1.5	0.2	999.8
86°	1.0	0.1	999.9
87°	0.6	0.1	1000.0
88°	0.2	0.0	1000.0
89°	0.1	0.0	1000.0
90°	0.1	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	21.9	23.0	22.2	23.3	23.6	21.9	23.0	22.2	23.3	23.6
	3H	22.1	23.1	22.5	23.4	23.7	22.1	23.1	22.5	23.4	23.7
	4H	22.2	23.1	22.6	23.5	23.9	22.2	23.1	22.6	23.5	23.9
	6H	22.4	23.2	22.8	23.6	24.0	22.4	23.2	22.8	23.6	24.0
	8H	22.6	23.2	23.0	23.6	24.0	22.6	23.2	23.0	23.6	24.0
	12H	22.6	23.2	23.1	23.6	24.0	22.6	23.2	23.1	23.6	24.0
4H	2H	21.8	22.7	22.2	23.0	23.4	21.8	22.7	22.2	23.0	23.4
	3H	22.2	22.9	22.6	23.3	23.7	22.2	22.9	22.6	23.3	23.7
	4H	22.4	23.0	22.9	23.5	23.9	22.4	23.0	22.9	23.5	23.9
	6H	22.7	23.2	23.1	23.7	24.1	22.7	23.2	23.1	23.7	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	22.9	23.0	23.4	23.9	22.5	22.9	23.0	23.4	23.9
	6H	22.9	23.2	23.4	23.7	24.2	22.9	23.2	23.4	23.7	24.2
	8H	23.0	23.3	23.5	23.8	24.4	23.0	23.3	23.5	23.8	24.4
	12H	23.1	23.4	23.6	23.9	24.4	23.1	23.4	23.6	23.9	24.4
12H	4H	22.5	22.9	23.0	23.3	23.8	22.5	22.9	23.0	23.3	23.8
	6H	22.9	23.2	23.4	23.7	24.2	22.9	23.2	23.4	23.7	24.2
	8H	23.0	23.3	23.6	23.8	24.4	23.0	23.3	23.6	23.8	24.4

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 79
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C-planes	0°
γ	Luminance in cd/m ²
45°	52190.3
50°	40171.0
55°	33001.2
60°	29091.4
65°	26895.3
70°	25767.8
75°	25282.2
80°	26312.3
85°	19240.7

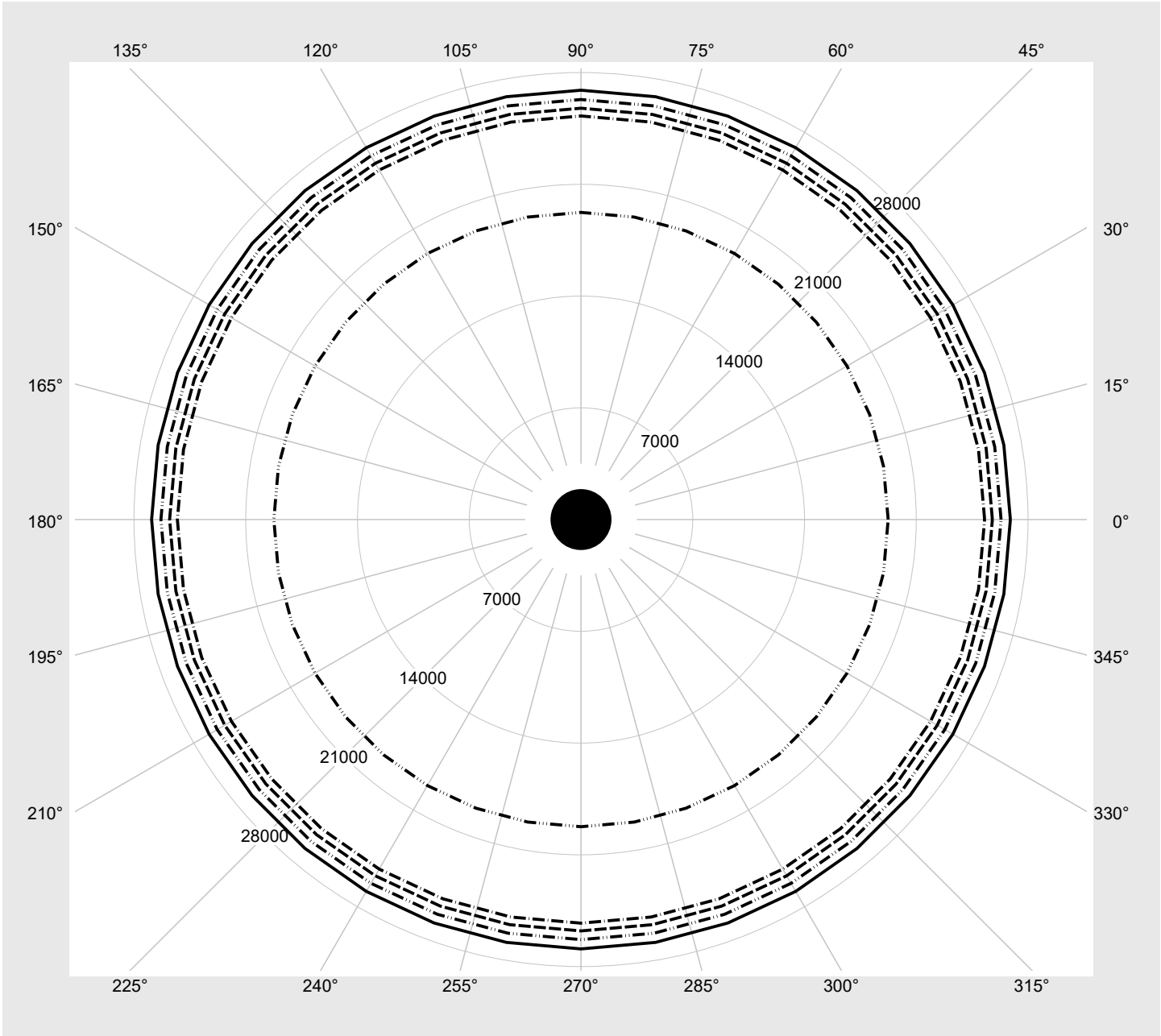
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Luminance values in cd/m²

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	7340	50.2
14	ON	ON	ON	OFF	7030	47.8
13	ON	ON	OFF	ON	6670	45.2
12	ON	ON	OFF	OFF	6360	42.8
11	ON	OFF	ON	ON	5960	40.1
10	ON	OFF	ON	OFF	5630	37.8
9	ON	OFF	OFF	ON	5270	35.4
8	ON	OFF	OFF	OFF	4930	33.1
7	OFF	ON	ON	ON	4640	31.0
6	OFF	ON	ON	OFF	4330	28.7
5	OFF	ON	OFF	ON	3980	26.2
4	OFF	ON	OFF	OFF	3660	23.9
3	OFF	OFF	ON	ON	3320	21.4
2	OFF	OFF	ON	OFF	2950	19.0
1	OFF	OFF	OFF	ON	2570	16.6
0	OFF	OFF	OFF	OFF	2210	14.2