

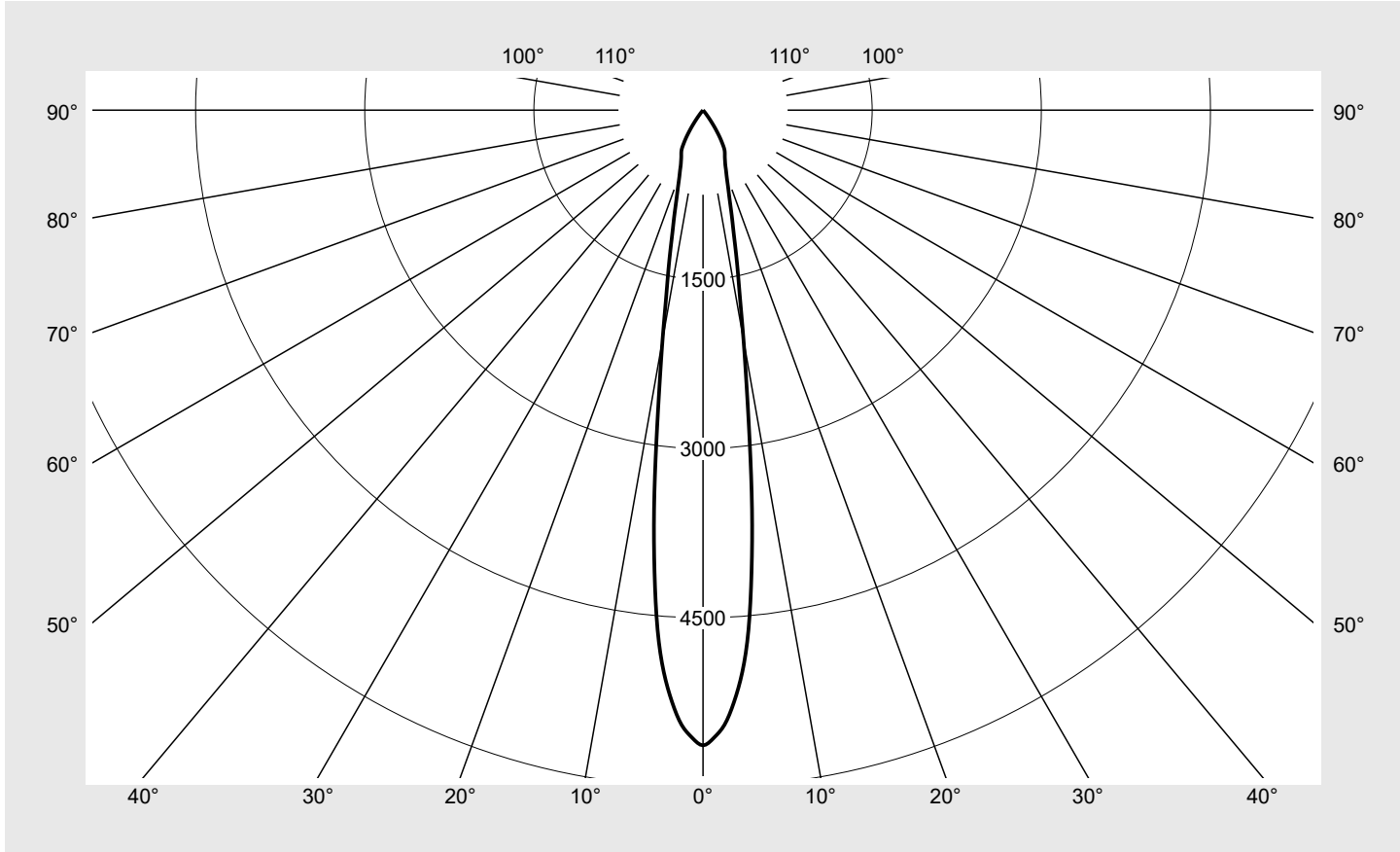


Photometric test report

Family Spot 21	Order number: 51SE12MBB5B EAN: 4058352716595	LP number 59384_10										
	<table border="0"> <tr> <td>Version</td> <td>reflector, cover panel, PC, narrow 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=14</td> </tr> <tr> <td>Rated values</td> <td> Net luminous flux = 5100 lm Power consumption = 39.8 W Luminous efficacy = 128.2 lm/W </td> </tr> </table>	Version	reflector, cover panel, PC, narrow distribution	Lamps	LED 3000 K CRI ≥ 90	Controlgear	ECG Multilumen	Setting	factory setting: DIP-Step=14	Rated values	Net luminous flux = 5100 lm Power consumption = 39.8 W Luminous efficacy = 128.2 lm/W	serial documentation 27.02.2023
Version	reflector, cover panel, PC, narrow distribution											
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Luminous intensity in cd/klm C180-0 **Imax: 5631 cd/klm**



Classifications	
DIN 5040	A 8 0
CIE	N1=95 N2=98 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°	5630.9	1.3	1.3
1°	5563.8	10.6	12.0
2°	5452.3	20.9	32.9
3°	5253.2	30.1	63.0
4°	4992.9	38.2	101.2
5°	4624.7	44.2	145.4
6°	4116.1	47.2	192.6
7°	3563.6	47.6	240.2
8°	2975.5	45.4	285.6
9°	2466.1	42.3	327.9
10°	2068.6	39.4	367.3
11°	1734.5	36.3	403.6
12°	1497.3	34.1	437.8
13°	1298.1	32.0	469.8
14°	1124.5	29.8	499.6
15°	997.0	28.3	527.9
16°	883.3	26.7	554.6
17°	791.2	25.4	580.0
18°	719.9	24.4	604.4
19°	657.0	23.5	627.8
20°	607.4	22.8	650.6
21°	567.0	22.3	672.9
22°	528.8	21.7	694.6
23°	501.0	21.5	716.1
24°	477.4	21.3	737.4
25°	457.0	21.2	758.5
26°	440.6	21.2	779.7
27°	425.0	21.2	800.9
28°	408.0	21.0	821.9
29°	383.2	20.4	842.3
30°	346.7	19.0	861.3
31°	309.5	17.5	878.8
32°	269.8	15.7	894.4
33°	226.5	13.5	908.0
34°	186.7	11.4	919.4
35°	144.7	9.1	928.5
36°	108.4	7.0	935.5
37°	75.1	5.0	940.5
38°	48.0	3.2	943.7
39°	33.2	2.3	946.0
40°	25.7	1.8	947.8
41°	21.0	1.5	949.3
42°	18.4	1.3	950.7
43°	17.3	1.3	952.0
44°	16.5	1.3	953.2
45°	15.9	1.2	954.4
46°	15.7	1.2	955.7

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
47°	15.2	1.2	956.9
48°	15.2	1.2	958.1
49°	14.8	1.2	959.4
50°	14.9	1.3	960.6
51°	15.0	1.3	961.9
52°	15.1	1.3	963.2
53°	15.9	1.4	964.6
54°	16.8	1.5	966.1
55°	18.1	1.6	967.7
56°	19.7	1.8	969.5
57°	20.9	1.9	971.4
58°	21.3	2.0	973.4
59°	20.6	1.9	975.3
60°	18.8	1.8	977.1
61°	16.0	1.5	978.7
62°	13.5	1.3	980.0
63°	11.7	1.1	981.1
64°	10.7	1.1	982.2
65°	10.2	1.0	983.2
66°	9.8	1.0	984.2
67°	9.3	0.9	985.1
68°	9.1	0.9	986.0
69°	8.8	0.9	986.9
70°	8.5	0.9	987.8
71°	8.5	0.9	988.7
72°	8.6	0.9	989.6
73°	8.4	0.9	990.5
74°	8.1	0.9	991.3
75°	7.7	0.8	992.1
76°	7.8	0.8	993.0
77°	7.7	0.8	993.8
78°	7.1	0.8	994.6
79°	7.0	0.8	995.3
80°	6.6	0.7	996.0
81°	6.2	0.7	996.7
82°	5.6	0.6	997.3
83°	4.9	0.5	997.8
84°	4.2	0.5	998.3
85°	3.7	0.4	998.7
86°	3.1	0.3	999.1
87°	2.8	0.3	999.4
88°	2.2	0.2	999.6
89°	2.5	0.3	999.9
90°	2.2	0.2	1000.1

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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	20.7	21.7	21.1	22.0	22.3	20.7	21.7	21.1	22.0	22.3
	3H	21.2	22.0	21.6	22.3	22.7	21.2	22.0	21.6	22.3	22.7
	4H	21.5	22.3	21.9	22.7	23.1	21.5	22.3	21.9	22.7	23.1
	6H	21.9	22.8	22.3	23.1	23.5	21.9	22.8	22.3	23.1	23.5
	8H	22.4	23.0	22.8	23.4	23.8	22.4	23.0	22.8	23.4	23.8
	12H	22.5	23.2	23.0	23.6	24.0	22.5	23.2	23.0	23.6	24.0
4H	2H	20.8	21.6	21.2	21.9	22.3	20.8	21.6	21.2	21.9	22.3
	3H	21.4	22.1	21.8	22.5	22.9	21.4	22.1	21.8	22.5	22.9
	4H	22.0	22.6	22.4	23.0	23.4	22.0	22.6	22.4	23.0	23.4
	6H	22.6	23.2	23.1	23.7	24.1	22.6	23.2	23.1	23.7	24.1
	8H	23.2	23.6	23.7	24.1	24.6	23.2	23.6	23.7	24.1	24.6
	12H	23.4	23.9	23.8	24.3	24.8	23.4	23.9	23.8	24.3	24.8
8H	4H	22.2	22.7	22.7	23.1	23.6	22.2	22.7	22.7	23.1	23.6
	6H	23.3	23.6	23.8	24.1	24.6	23.3	23.6	23.8	24.1	24.6
	8H	23.7	24.1	24.2	24.6	25.1	23.7	24.1	24.2	24.6	25.1
	12H	24.0	24.4	24.5	24.9	25.5	24.0	24.4	24.5	24.9	25.5
12H	4H	22.1	22.6	22.6	23.1	23.6	22.1	22.6	22.6	23.1	23.6
	6H	23.2	23.6	23.7	24.1	24.6	23.2	23.6	23.7	24.1	24.6
	8H	23.7	24.1	24.3	24.6	25.2	23.7	24.1	24.3	24.6	25.2

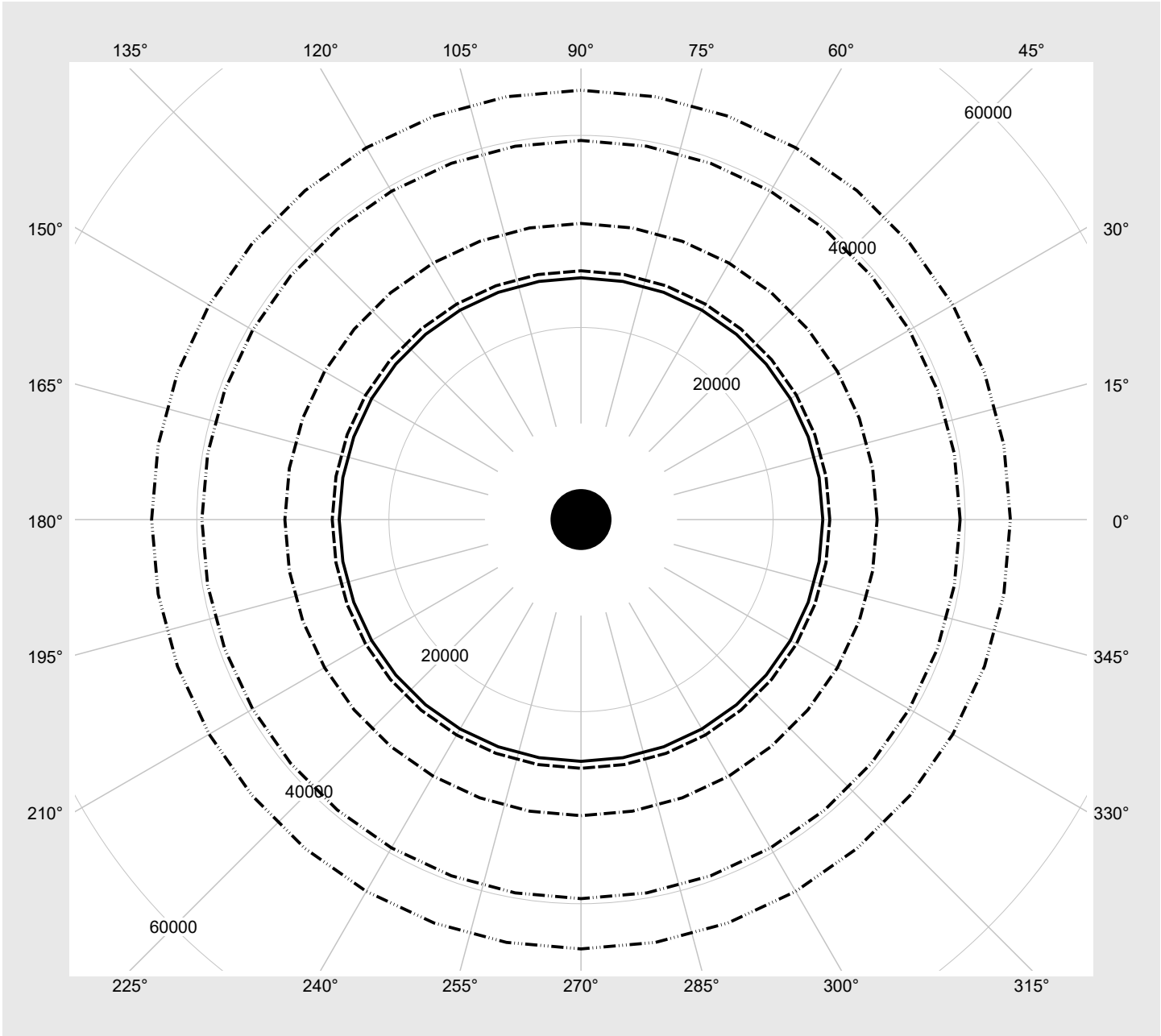
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 79
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C-planes	0°
γ	Luminance in cd/m ²
45°	23350.2
50°	24097.2
55°	32920.3
60°	39071.4
65°	25178.3
70°	25903.5
75°	30833.7
80°	39473.8
85°	44707.7

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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	5300	41.7
14	ON	ON	ON	OFF	5100	39.8
13	ON	ON	OFF	ON	4890	37.7
12	ON	ON	OFF	OFF	4670	35.7
11	ON	OFF	ON	ON	4420	33.4
10	ON	OFF	ON	OFF	4200	31.3
9	ON	OFF	OFF	ON	3960	29.4
8	ON	OFF	OFF	OFF	3720	27.2
7	OFF	ON	ON	ON	3520	25.8
6	OFF	ON	ON	OFF	3280	23.9
5	OFF	ON	OFF	ON	3030	21.9
4	OFF	ON	OFF	OFF	2790	19.8
3	OFF	OFF	ON	ON	2490	17.8
2	OFF	OFF	ON	OFF	2230	15.9
1	OFF	OFF	OFF	ON	1950	13.9
0	OFF	OFF	OFF	OFF	1680	12.0