

Photometric test report

Family Spot 21



Order number: 51SE14MBD5B
EAN: 4058352716663

LP number
59386_3

Version	reflector, cover panel, PC, wide distribution
Lamps	LED 4000 K CRI ≥ 90
Controlgear	ECG Multilumen
Setting	factory setting: DIP-Step=14
Rated values	Net luminous flux = 5270 lm Power consumption = 39.5 W Luminous efficacy = 133.4 lm/W

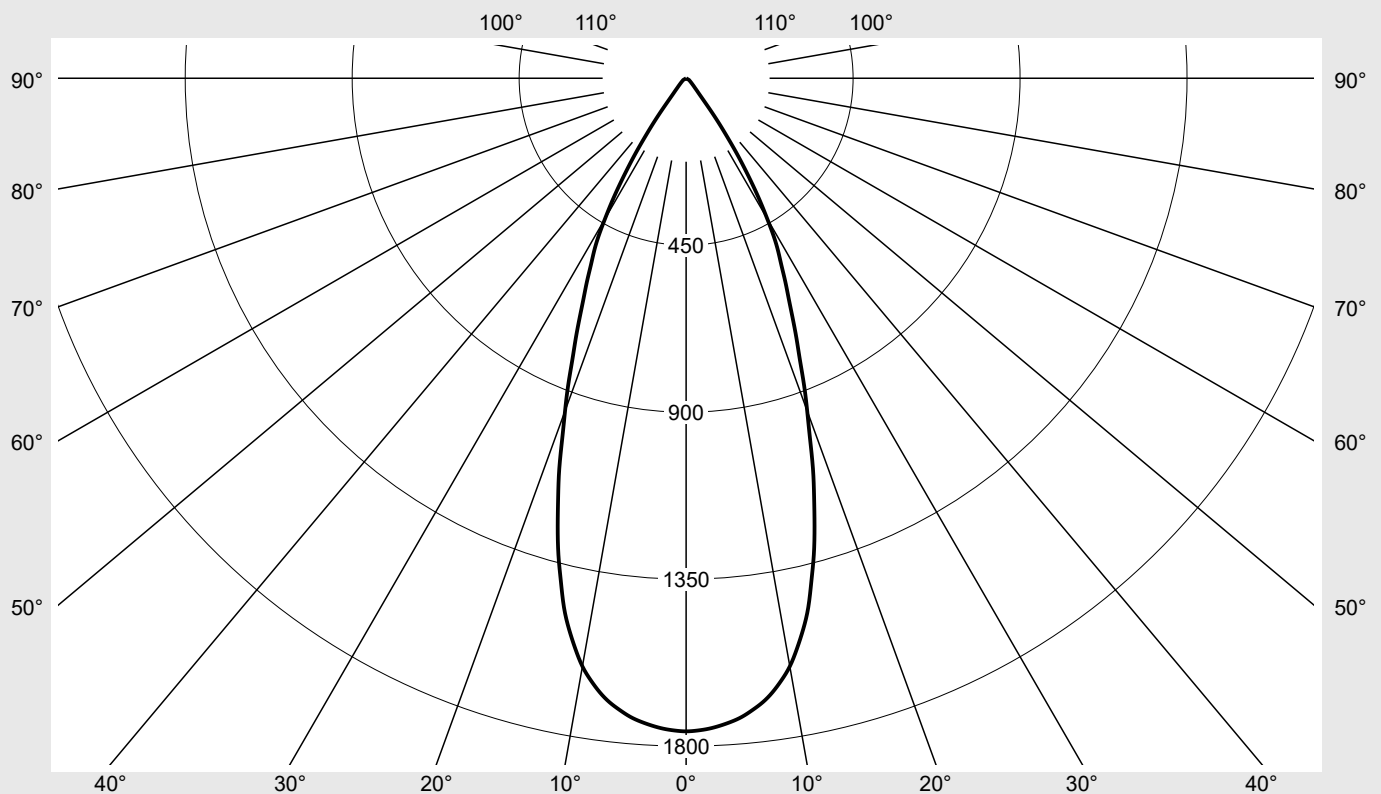
serial
documentation
14.02.2023

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

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
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C-planes	0°	Phi-zone	Total Phi-zone
γ	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
γ	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	21.6	22.7	22.0	23.0	23.4	21.6	22.7	22.0	23.0	23.4
	3H	21.7	22.6	22.1	23.0	23.3	21.7	22.6	22.1	23.0	23.3
	4H	21.7	22.6	22.1	23.0	23.3	21.7	22.6	22.1	23.0	23.3
	6H	21.9	22.6	22.3	23.0	23.4	21.9	22.6	22.3	23.0	23.4
	8H	22.0	22.6	22.4	23.0	23.4	22.0	22.6	22.4	23.0	23.4
	12H	22.0	22.6	22.5	23.0	23.4	22.0	22.6	22.5	23.0	23.4
4H	2H	21.5	22.4	21.9	22.7	23.1	21.5	22.4	21.9	22.7	23.1
	3H	21.6	22.3	22.0	22.7	23.1	21.6	22.3	22.0	22.7	23.1
	4H	21.7	22.4	22.2	22.8	23.2	21.7	22.4	22.2	22.8	23.2
	6H	21.9	22.4	22.4	22.9	23.4	21.9	22.4	22.4	22.9	23.4
	8H	22.0	22.5	22.5	22.9	23.4	22.0	22.5	22.5	22.9	23.4
	12H	22.1	22.4	22.6	22.9	23.4	22.1	22.4	22.6	22.9	23.4
8H	4H	21.7	22.2	22.2	22.6	23.1	21.7	22.2	22.2	22.6	23.1
	6H	22.0	22.4	22.5	22.8	23.4	22.0	22.4	22.5	22.8	23.4
	8H	22.1	22.4	22.6	22.9	23.4	22.1	22.4	22.6	22.9	23.4
	12H	22.2	22.4	22.7	22.9	23.5	22.2	22.4	22.7	22.9	23.5
12H	4H	21.8	22.1	22.3	22.6	23.1	21.8	22.1	22.3	22.6	23.1
	6H	22.0	22.3	22.5	22.8	23.3	22.0	22.3	22.5	22.8	23.3
	8H	22.1	22.4	22.7	22.9	23.4	22.1	22.4	22.7	22.9	23.4

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°	40558.9
50°	28192.1
55°	21957.4
60°	18894.6
65°	17731.7
70°	17682.2
75°	18502.1
80°	19812.8
85°	13964.2

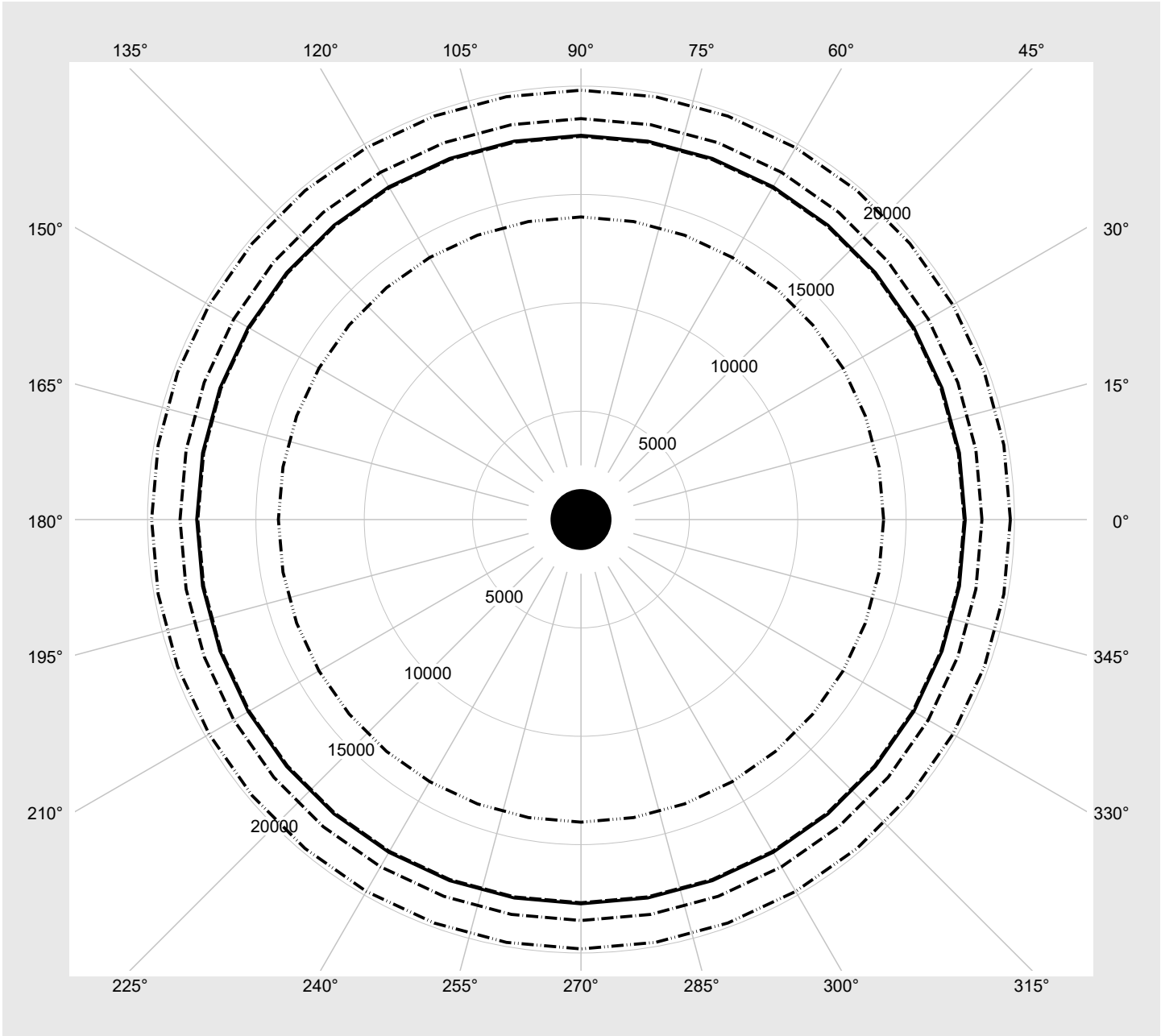
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Luminance values in cd/m²

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	5490	41.5
14	ON	ON	ON	OFF	5270	39.5
13	ON	ON	OFF	ON	5060	37.5
12	ON	ON	OFF	OFF	4840	35.5
11	ON	OFF	ON	ON	4580	33.4
10	ON	OFF	ON	OFF	4350	31.4
9	ON	OFF	OFF	ON	4100	29.4
8	ON	OFF	OFF	OFF	3850	27.3
7	OFF	ON	ON	ON	3650	25.8
6	OFF	ON	ON	OFF	3400	23.9
5	OFF	ON	OFF	ON	3140	21.9
4	OFF	ON	OFF	OFF	2890	20.0
3	OFF	OFF	ON	ON	2570	17.8
2	OFF	OFF	ON	OFF	2310	15.9
1	OFF	OFF	OFF	ON	2020	13.8
0	OFF	OFF	OFF	OFF	1740	12.0