
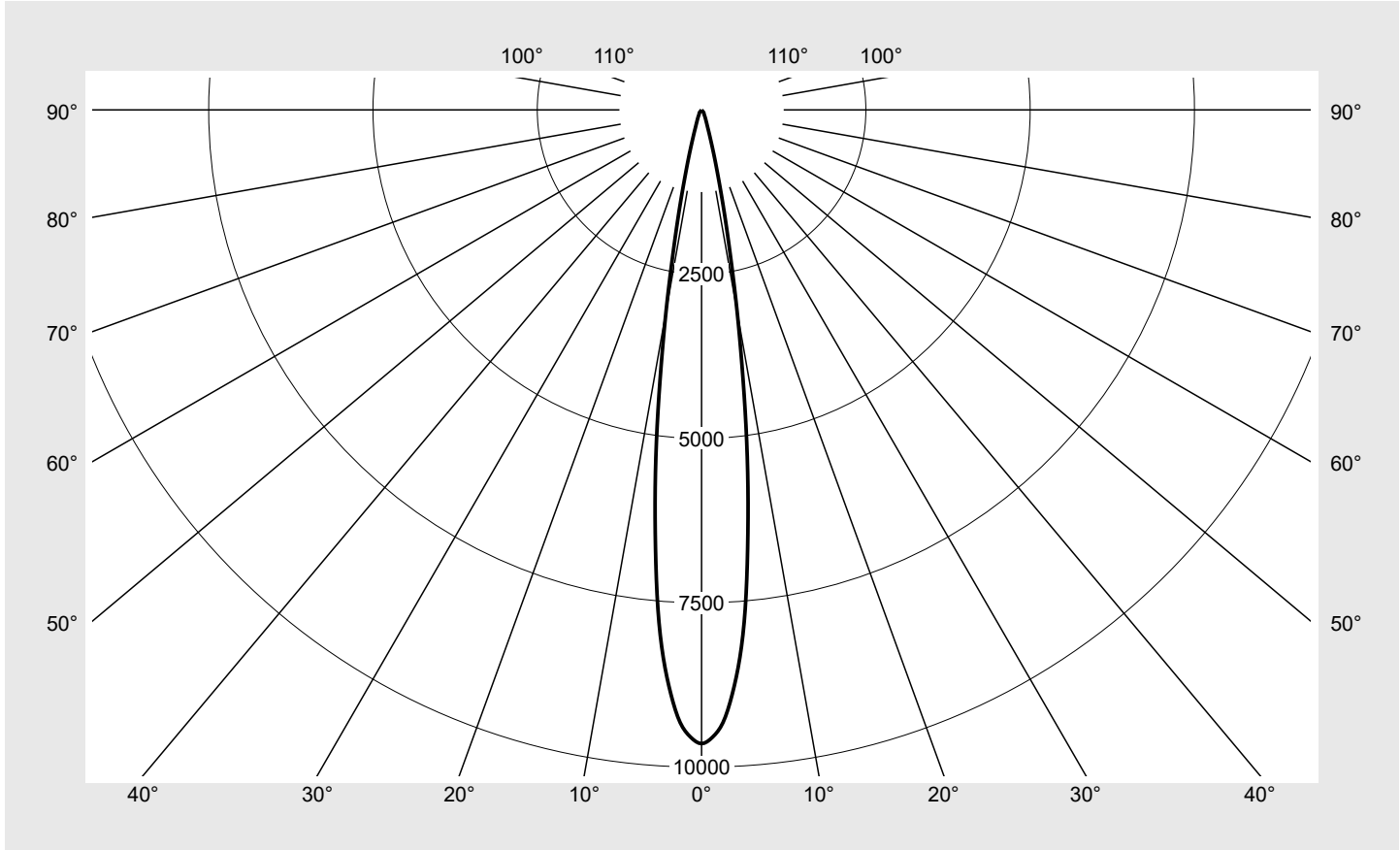


Photometric test report

Family Spot 31 slim	Order number: 51SF127FA1B EAN: 4058352746202	LP number 59469_5
	Version Combined lens and reflector optics, narrow beam (2x8°) Lamps LED 2700 K CRI ≥ 90 Controlgear ECG	serial documentation 09.08.2023
	Rated values Net luminous flux = 2090 lm Power consumption = 16.3 W Luminous efficacy = 128.3 lm/W	

Luminous intensity in cd/klm C180-0 **I_{max}: 9642 cd/klm**



Classifications	
DIN 5040	A 8 0
CIE	N1=94 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°	9641.6	2.3	2.3
1°	9544.9	18.3	20.6
2°	9328.0	35.7	56.3
3°	8904.8	51.1	107.4
4°	8352.9	63.9	171.3
5°	7620.7	72.8	244.1
6°	6706.1	76.9	321.0
7°	5790.4	77.4	398.4
8°	4856.3	74.1	472.5
9°	3926.0	67.3	539.8
10°	3114.5	59.3	599.1
11°	2385.4	49.9	649.0
12°	1823.0	41.6	690.6
13°	1378.0	34.0	724.6
14°	1029.9	27.3	751.9
15°	786.6	22.3	774.3
16°	597.5	18.1	792.3
17°	459.8	14.7	807.1
18°	366.3	12.4	819.5
19°	293.5	10.5	830.0
20°	247.1	9.3	839.2
21°	213.6	8.4	847.6
22°	186.0	7.6	855.3
23°	165.8	7.1	862.4
24°	148.3	6.6	869.0
25°	131.8	6.1	875.1
26°	118.1	5.7	880.8
27°	103.8	5.2	885.9
28°	92.8	4.8	890.7
29°	83.7	4.5	895.2
30°	76.7	4.2	899.4
31°	71.9	4.1	903.4
32°	68.2	4.0	907.4
33°	65.4	3.9	911.3
34°	63.1	3.9	915.2
35°	61.0	3.8	919.0
36°	59.9	3.9	922.9
37°	56.8	3.7	926.6
38°	53.0	3.6	930.2
39°	50.5	3.5	933.7
40°	47.1	3.3	937.0
41°	46.0	3.3	940.3
42°	43.0	3.2	943.5
43°	40.5	3.0	946.5
44°	39.3	3.0	949.5
45°	36.6	2.8	952.3
46°	34.3	2.7	955.0

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
47°	32.8	2.6	957.6
48°	32.4	2.6	960.3
49°	30.2	2.5	962.8
50°	28.7	2.4	965.2
51°	26.7	2.3	967.5
52°	24.7	2.1	969.6
53°	22.2	1.9	971.5
54°	20.9	1.9	973.4
55°	18.8	1.7	975.1
56°	18.0	1.6	976.7
57°	15.8	1.4	978.2
58°	15.2	1.4	979.6
59°	13.4	1.3	980.8
60°	12.0	1.1	982.0
61°	11.2	1.1	983.0
62°	10.3	1.0	984.0
63°	9.3	0.9	985.0
64°	7.7	0.8	985.7
65°	7.1	0.7	986.4
66°	6.5	0.6	987.1
67°	5.7	0.6	987.6
68°	5.3	0.5	988.2
69°	5.2	0.5	988.7
70°	4.6	0.5	989.2
71°	4.7	0.5	989.7
72°	4.7	0.5	990.2
73°	4.9	0.5	990.7
74°	5.8	0.6	991.3
75°	5.0	0.5	991.8
76°	5.3	0.6	992.4
77°	5.1	0.5	992.9
78°	5.1	0.6	993.5
79°	5.1	0.5	994.0
80°	5.5	0.6	994.6
81°	5.2	0.6	995.2
82°	4.1	0.4	995.6
83°	4.5	0.5	996.1
84°	5.4	0.6	996.7
85°	4.8	0.5	997.2
86°	5.8	0.6	997.9
87°	5.5	0.6	998.5
88°	5.8	0.6	999.1
89°	5.5	0.6	999.7
90°	5.3	0.6	1000.3

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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	18.4	19.3	18.8	19.6	19.9	18.4	19.3	18.8	19.6	19.9
	3H	18.7	19.4	19.1	19.7	20.1	18.7	19.4	19.1	19.7	20.1
	4H	19.0	19.6	19.4	20.0	20.4	19.0	19.6	19.4	20.0	20.4
	6H	19.4	20.1	19.8	20.5	20.9	19.4	20.1	19.8	20.5	20.9
	8H	19.9	20.5	20.3	20.9	21.3	19.9	20.5	20.3	20.9	21.3
	12H	20.5	21.1	20.9	21.5	21.9	20.5	21.1	20.9	21.5	21.9
4H	2H	18.5	19.1	18.9	19.5	19.9	18.5	19.1	18.9	19.5	19.9
	3H	18.8	19.4	19.2	19.8	20.2	18.8	19.4	19.2	19.8	20.2
	4H	19.3	19.8	19.7	20.2	20.7	19.3	19.8	19.7	20.2	20.7
	6H	20.0	20.6	20.5	21.0	21.5	20.0	20.6	20.5	21.0	21.5
	8H	20.7	21.1	21.2	21.6	22.0	20.7	21.1	21.2	21.6	22.0
	12H	21.5	21.9	22.0	22.4	22.9	21.5	21.9	22.0	22.4	22.9
8H	4H	19.5	19.9	20.0	20.3	20.8	19.5	19.9	20.0	20.3	20.8
	6H	20.8	21.0	21.3	21.5	22.0	20.8	21.0	21.3	21.5	22.0
	8H	21.4	21.6	21.9	22.1	22.7	21.4	21.6	21.9	22.1	22.7
	12H	22.4	22.8	22.9	23.3	23.8	22.4	22.8	22.9	23.3	23.8
12H	4H	19.4	19.8	19.9	20.3	20.8	19.4	19.8	19.9	20.3	20.8
	6H	20.7	21.1	21.2	21.6	22.1	20.7	21.1	21.2	21.6	22.1
	8H	21.5	21.8	22.0	22.3	22.9	21.5	21.8	22.0	22.3	22.9

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 52
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C-planes	0°
γ	Luminance in cd/m ²
45°	50891.1
50°	44012.4
55°	32217.0
60°	23530.4
65°	16579.9
70°	13336.7
75°	19194.3
80°	30949.4
85°	54662.4

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°

