



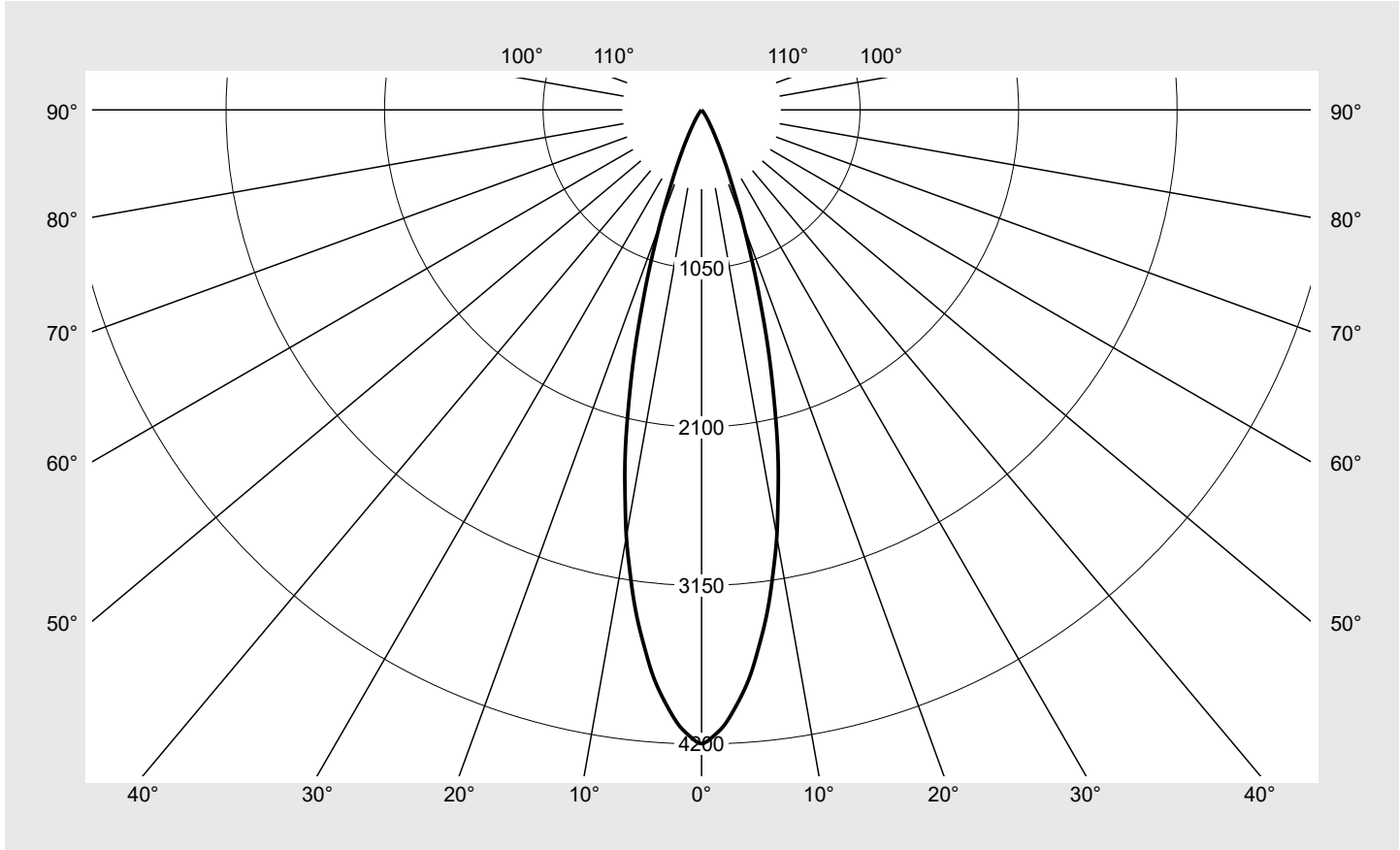
Photometric test report

Family Spot 31 slim	Order number: 51SF117FB3B EAN: 4058352746196	LP number 59471_1
	Version Combined lens and reflector optics, anti-glare louver, narrow distribution Lamps LED 3000 K CRI ≥ 90 Controlgear ECG Rated values Net luminous flux = 2180 lm Power consumption = 23.7 W Luminous efficacy = 92 lm/W	serial documentation 09.08.2023





Luminous intensity in cd/klm C180-0 **Imax: 4197 cd/klm**



Classifications	
DIN 5040	A 8 0
CIE	N1=99 N2=100 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°	4197.4	1.0	1.0
1°	4153.8	7.9	9.0
2°	4087.8	15.6	24.6
3°	3989.1	22.9	47.5
4°	3877.2	29.7	77.2
5°	3748.4	35.8	113.0
6°	3590.2	41.2	154.1
7°	3430.8	45.9	200.0
8°	3254.0	49.7	249.6
9°	3061.1	52.5	302.2
10°	2870.4	54.7	356.8
11°	2651.8	55.5	412.3
12°	2445.2	55.8	468.1
13°	2224.2	54.9	522.9
14°	1988.8	52.8	575.7
15°	1768.5	50.2	625.9
16°	1549.8	46.8	672.7
17°	1333.3	42.7	715.5
18°	1144.3	38.8	754.2
19°	960.6	34.3	788.5
20°	810.2	30.4	818.9
21°	677.5	26.6	845.6
22°	556.1	22.8	868.4
23°	464.7	19.9	888.3
24°	385.3	17.2	905.5
25°	316.1	14.7	920.1
26°	261.1	12.6	932.7
27°	211.2	10.5	943.2
28°	174.8	9.0	952.2
29°	143.0	7.6	959.8
30°	115.8	6.4	966.2
31°	95.5	5.4	971.6
32°	78.7	4.6	976.1
33°	63.4	3.8	979.9
34°	52.0	3.2	983.1
35°	41.6	2.6	985.7
36°	34.2	2.2	987.9
37°	28.1	1.9	989.8
38°	23.1	1.6	991.3
39°	19.4	1.3	992.7
40°	15.9	1.1	993.8
41°	13.4	1.0	994.8
42°	11.2	0.8	995.6
43°	9.5	0.7	996.3
44°	8.0	0.6	996.9
45°	6.6	0.5	997.4
46°	5.5	0.4	997.9

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm Luminous flux in lm/klm		
47°	4.7	0.4	998.2
48°	4.0	0.3	998.6
49°	3.4	0.3	998.8
50°	2.8	0.2	999.1
51°	2.4	0.2	999.3
52°	2.0	0.2	999.5
53°	1.7	0.1	999.6
54°	1.3	0.1	999.7
55°	1.0	0.1	999.8
56°	0.8	0.1	999.9
57°	0.6	0.1	999.9
58°	0.4	0.0	1000.0
59°	0.3	0.0	1000.0
60°	0.1	0.0	1000.0
61°	0.0	0.0	1000.0
62°	0.0	0.0	1000.0
63°	0.0	0.0	1000.0
64°	0.0	0.0	1000.0
65°	0.0	0.0	1000.0
66°	0.0	0.0	1000.0
67°	0.0	0.0	1000.0
68°	0.0	0.0	1000.0
69°	0.0	0.0	1000.0
70°	0.0	0.0	1000.0
71°	0.0	0.0	1000.0
72°	0.0	0.0	1000.0
73°	0.0	0.0	1000.0
74°	0.0	0.0	1000.0
75°	0.0	0.0	1000.0
76°	0.0	0.0	1000.0
77°	0.0	0.0	1000.0
78°	0.0	0.0	1000.0
79°	0.0	0.0	1000.0
80°	0.0	0.0	1000.0
81°	0.0	0.0	1000.0
82°	0.0	0.0	1000.0
83°	0.0	0.0	1000.0
84°	0.0	0.0	1000.0
85°	0.0	0.0	1000.0
86°	0.0	0.0	1000.0
87°	0.0	0.0	1000.0
88°	0.0	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	11.2	12.1	11.6	12.4	12.7	11.2	12.1	11.6	12.4	12.7
	3H	11.0	11.8	11.4	12.1	12.5	11.0	11.8	11.4	12.1	12.5
	4H	10.9	11.6	11.3	12.0	12.3	10.9	11.6	11.3	12.0	12.3
	6H	10.9	11.4	11.3	11.8	12.2	10.9	11.4	11.3	11.8	12.2
	8H	10.9	11.3	11.3	11.7	12.1	10.9	11.3	11.3	11.7	12.1
	12H	10.8	11.2	11.3	11.6	12.1	10.8	11.2	11.3	11.6	12.1
4H	2H	10.9	11.6	11.3	12.0	12.3	10.9	11.6	11.3	12.0	12.3
	3H	10.7	11.3	11.1	11.6	12.1	10.7	11.3	11.1	11.6	12.1
	4H	10.5	11.1	11.0	11.5	11.9	10.5	11.1	11.0	11.5	11.9
	6H	10.4	10.9	10.9	11.3	11.8	10.4	10.9	10.9	11.3	11.8
	8H	10.4	10.7	10.9	11.2	11.7	10.4	10.7	10.9	11.2	11.7
	12H	10.3	10.6	10.8	11.1	11.6	10.3	10.6	10.8	11.1	11.6
8H	4H	10.4	10.7	10.9	11.2	11.7	10.4	10.7	10.9	11.2	11.7
	6H	10.3	10.5	10.8	11.0	11.5	10.3	10.5	10.8	11.0	11.5
	8H	10.2	10.4	10.7	10.9	11.5	10.2	10.4	10.7	10.9	11.5
	12H	10.1	10.3	10.6	10.8	11.4	10.1	10.3	10.6	10.8	11.4
12H	4H	10.3	10.6	10.8	11.1	11.6	10.3	10.6	10.8	11.1	11.6
	6H	10.2	10.4	10.7	10.9	11.4	10.2	10.4	10.7	10.9	11.4
	8H	10.1	10.3	10.6	10.8	11.4	10.1	10.3	10.6	10.8	11.4

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/m²
45°	9629.1
50°	4530.6
55°	1719.9
60°	186.8
65°	0.0
70°	0.0
75°	0.0
80°	0.0
85°	0.0

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

