

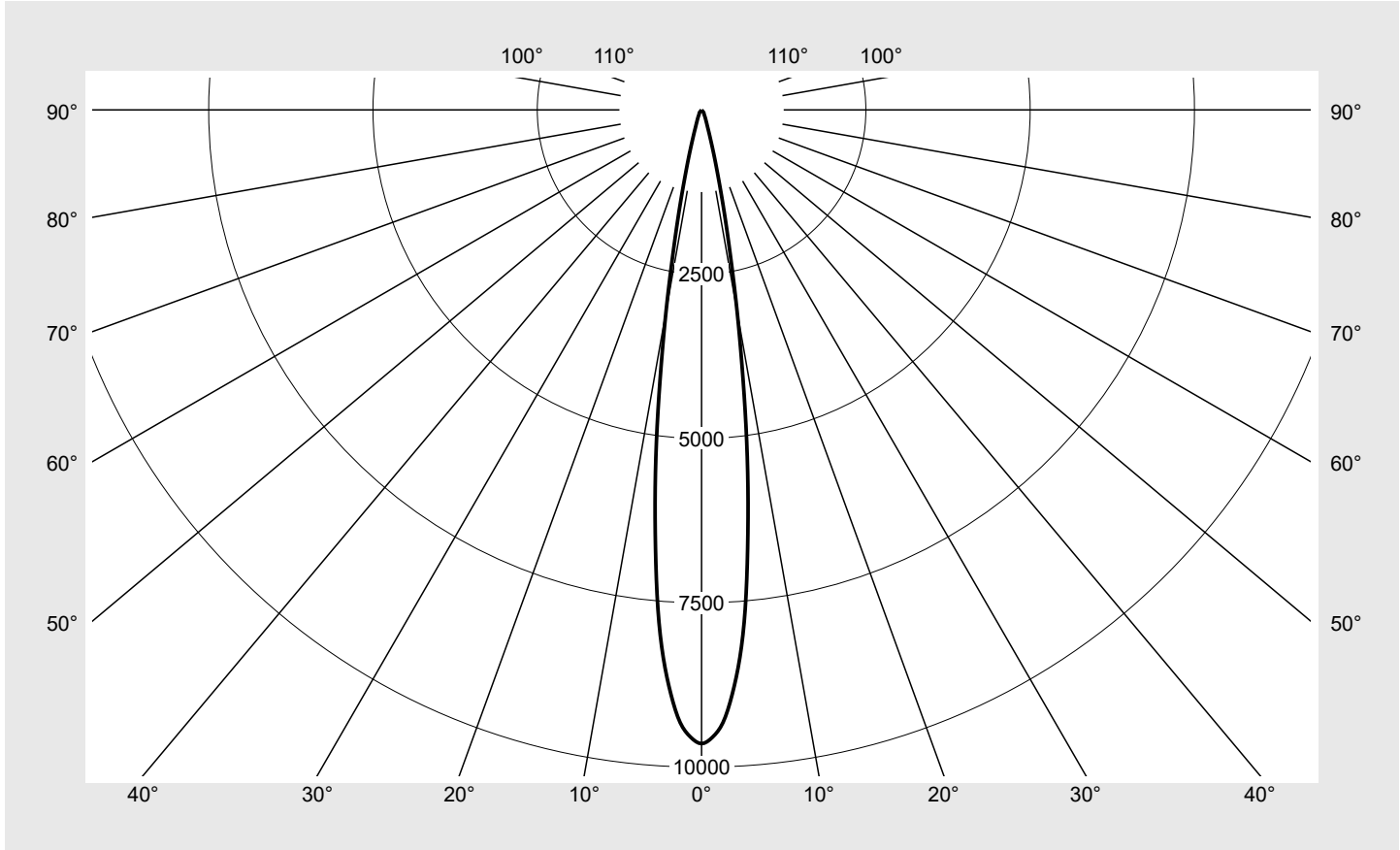


# Photometric test report

<b>Family</b> <b>Spot 31 slim</b>	<b>Order number: 51SF327FB2B</b> <b>EAN: 4058352746264</b>	<b>LP number</b> <b>59469_4</b>
	<b>Version</b> Combined lens and reflector optics, narrow beam (2x8°)	<b>serial documentation</b> <b>09.08.2023</b>
	<b>Lamps</b> LED 3000 K   CRI ≥ 90 <b>Controlgear</b> ECG <b>Rated values</b> Net luminous flux = 1970 lm Power consumption = 16.2 W Luminous efficacy = 121.6 lm/W	
		

**Luminous intensity in cd/klm** C180-0 **Imax: 9642 cd/klm**



Classifications	
DIN 5040	A 8 0
CIE	N1=94 N2=98 N3=99 N4=100 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	100.0%
$\phi_o$	0.0%

**Measurement conditions**  
 DIN EN 13032 and DIN 5032

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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

C-planes	0°	Phi-zone	Total Phi-zone
$\gamma$	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
$\gamma$	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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<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
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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	18.2	19.0	18.5	19.4	19.7	18.2	19.0	18.5	19.4	19.7
	3H	18.5	19.2	18.9	19.5	19.9	18.5	19.2	18.9	19.5	19.9
	4H	18.8	19.4	19.2	19.8	20.2	18.8	19.4	19.2	19.8	20.2
	6H	19.2	19.9	19.6	20.3	20.7	19.2	19.9	19.6	20.3	20.7
	8H	19.7	20.3	20.1	20.7	21.1	19.7	20.3	20.1	20.7	21.1
	12H	20.3	20.9	20.7	21.3	21.7	20.3	20.9	20.7	21.3	21.7
4H	2H	18.3	18.9	18.7	19.3	19.7	18.3	18.9	18.7	19.3	19.7
	3H	18.6	19.2	19.0	19.6	20.0	18.6	19.2	19.0	19.6	20.0
	4H	19.1	19.6	19.5	20.0	20.4	19.1	19.6	19.5	20.0	20.4
	6H	19.8	20.4	20.3	20.8	21.3	19.8	20.4	20.3	20.8	21.3
	8H	20.5	20.9	21.0	21.3	21.8	20.5	20.9	21.0	21.3	21.8
	12H	21.3	21.7	21.7	22.2	22.7	21.3	21.7	21.7	22.2	22.7
8H	4H	19.3	19.6	19.8	20.1	20.6	19.3	19.6	19.8	20.1	20.6
	6H	20.6	20.8	21.1	21.3	21.8	20.6	20.8	21.1	21.3	21.8
	8H	21.2	21.4	21.7	21.9	22.5	21.2	21.4	21.7	21.9	22.5
	12H	22.2	22.6	22.7	23.1	23.6	22.2	22.6	22.7	23.1	23.6
12H	4H	19.2	19.6	19.7	20.1	20.6	19.2	19.6	19.7	20.1	20.6
	6H	20.5	20.9	21.0	21.4	21.9	20.5	20.9	21.0	21.4	21.9
	8H	21.3	21.6	21.8	22.1	22.7	21.3	21.6	21.8	22.1	22.7

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm: D = 52</b>
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<b>C-planes</b>	<b>0°</b>
$\gamma$	<b>Luminance in cd/m<sup>2</sup></b>
45°	47969.2
50°	41485.3
55°	30367.2
60°	22179.4
65°	15627.9
70°	12570.9
75°	18092.3
80°	29172.4
85°	51523.9

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**Luminance values in cd/m<sup>2</sup>**    γ 65°    γ 70°    γ 75°    γ 80°    γ 85°    **siteco**

