

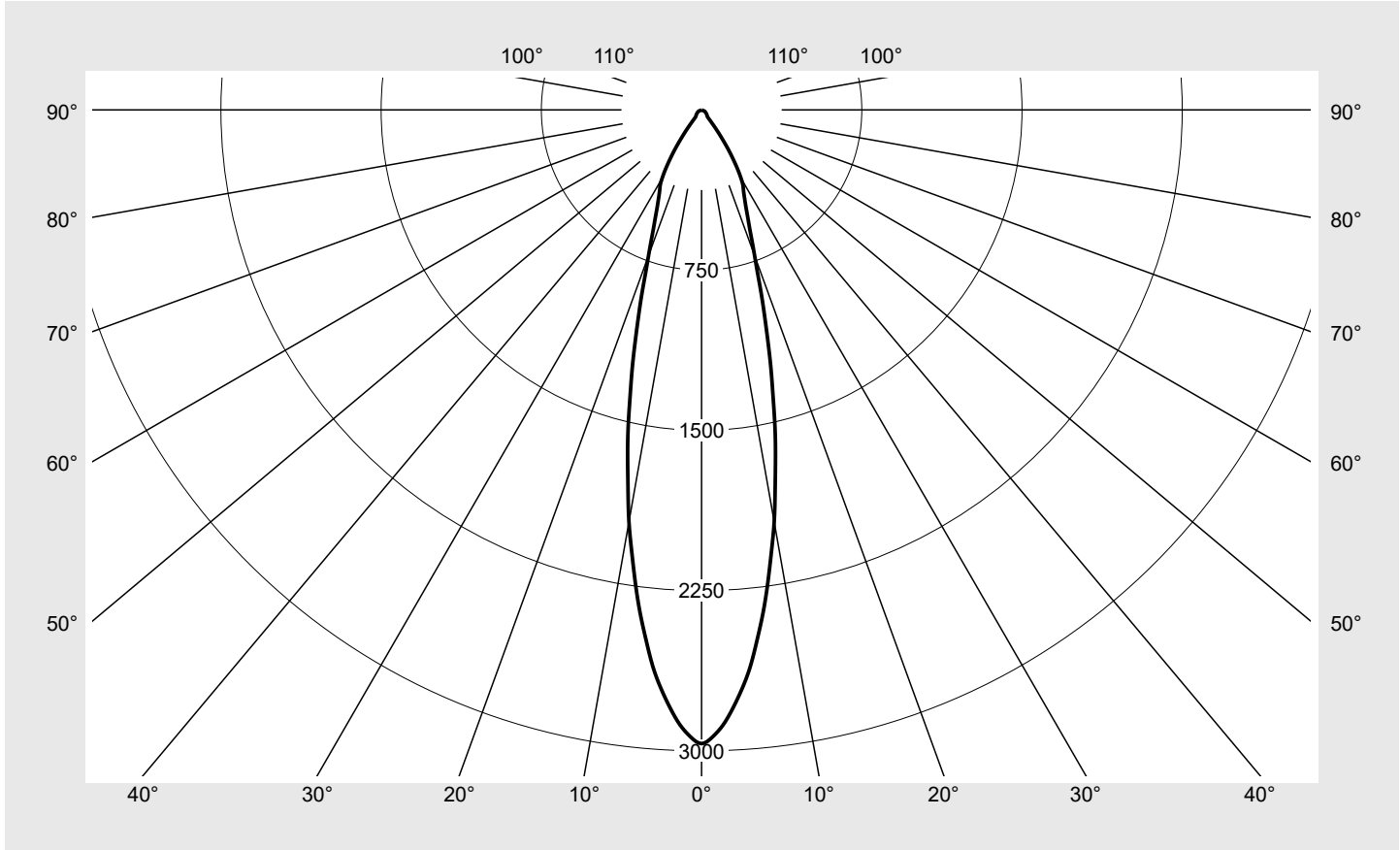


# Photometric test report

<b>Family</b> <b>Spot 31</b>	<b>Order number: 51SF63MAD4B</b> <b>EAN: 4058352769980</b>	<b>LP number</b> <b>59382_6</b>
	<b>Version</b> reflector, cover, polycarbonate, medium distribution	<b>serial documentation</b> <b>20.01.2023</b>
	<b>Lamps</b> LED 4000 K   CRI ≥ 90 <b>Controlgear</b> ECG Multilumen <b>Setting</b> factory setting: DIP-Step=14 <b>Rated values</b> Net luminous flux = 4980 lm Power consumption = 39.4 W Luminous efficacy = 126.4 lm/W	

**Luminous intensity in cd/klm** C180-0 **I<sub>max</sub>: 2966 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=92 N2=97 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°	2966.0	0.7	0.7
1°	2935.3	5.6	6.3
2°	2880.8	11.0	17.4
3°	2803.7	16.1	33.4
4°	2715.9	20.8	54.2
5°	2615.6	25.0	79.2
6°	2492.2	28.6	107.8
7°	2367.9	31.6	139.4
8°	2231.3	34.1	173.5
9°	2091.5	35.9	209.4
10°	1957.8	37.3	246.6
11°	1804.9	37.8	284.4
12°	1664.3	37.9	322.4
13°	1528.2	37.7	360.1
14°	1383.5	36.7	396.8
15°	1255.3	35.6	432.4
16°	1127.0	34.1	466.5
17°	1009.5	32.4	498.8
18°	903.9	30.6	529.4
19°	802.9	28.7	558.1
20°	726.0	27.2	585.3
21°	660.5	26.0	611.3
22°	603.1	24.8	636.1
23°	558.2	23.9	660.0
24°	518.6	23.1	683.1
25°	485.6	22.5	705.6
26°	458.6	22.0	727.7
27°	434.7	21.6	749.3
28°	416.1	21.4	770.7
29°	397.5	21.1	791.9
30°	368.6	20.2	812.1
31°	335.4	18.9	831.0
32°	298.6	17.4	848.4
33°	261.5	15.6	864.0
34°	225.0	13.8	877.8
35°	185.8	11.7	889.5
36°	149.8	9.7	899.1
37°	117.2	7.7	906.9
38°	85.2	5.8	912.6
39°	61.6	4.2	916.9
40°	45.9	3.2	920.1
41°	41.9	3.0	923.1
42°	40.0	2.9	926.1
43°	37.9	2.8	928.9
44°	37.0	2.8	931.7
45°	36.2	2.8	934.5
46°	35.1	2.8	937.3

C-planes	0°	Phi-zone	Total Phi-zone
$\gamma$	Luminous intensity in cd/klm		Luminous flux in lm/klm
47°	33.8	2.7	940.0
48°	32.6	2.7	942.7
49°	31.6	2.6	945.3
50°	30.5	2.6	947.8
51°	29.3	2.5	950.3
52°	28.6	2.5	952.8
53°	27.2	2.4	955.2
54°	26.0	2.3	957.5
55°	25.2	2.3	959.7
56°	24.0	2.2	961.9
57°	22.7	2.1	964.0
58°	22.0	2.0	966.1
59°	20.9	2.0	968.0
60°	20.3	1.9	970.0
61°	19.0	1.8	971.8
62°	18.6	1.8	973.6
63°	17.5	1.7	975.3
64°	16.9	1.7	977.0
65°	16.1	1.6	978.6
66°	15.7	1.6	980.1
67°	14.9	1.5	981.6
68°	14.5	1.5	983.1
69°	13.8	1.4	984.5
70°	13.7	1.4	985.9
71°	12.9	1.3	987.3
72°	12.3	1.3	988.6
73°	11.8	1.2	989.8
74°	11.2	1.2	991.0
75°	10.5	1.1	992.1
76°	9.7	1.0	993.1
77°	8.3	0.9	994.0
78°	7.2	0.8	994.8
79°	6.7	0.7	995.5
80°	6.4	0.7	996.2
81°	5.7	0.6	996.8
82°	5.0	0.5	997.3
83°	4.7	0.5	997.9
84°	4.0	0.4	998.3
85°	3.5	0.4	998.7
86°	3.2	0.4	999.0
87°	2.7	0.3	999.3
88°	2.6	0.3	999.6
89°	2.4	0.3	999.9
90°	2.4	0.3	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	22.2	23.3	22.5	23.6	23.9	22.2	23.3	22.5	23.6	23.9
	3H	22.9	23.8	23.3	24.2	24.5	22.9	23.8	23.3	24.2	24.5
	4H	23.3	24.2	23.7	24.5	24.9	23.3	24.2	23.7	24.5	24.9
	6H	23.7	24.4	24.1	24.8	25.2	23.7	24.4	24.1	24.8	25.2
	8H	23.9	24.5	24.3	24.9	25.3	23.9	24.5	24.3	24.9	25.3
	12H	24.0	24.6	24.4	25.0	25.4	24.0	24.6	24.4	25.0	25.4
4H	2H	22.3	23.2	22.7	23.6	23.9	22.3	23.2	22.7	23.6	23.9
	3H	23.3	24.0	23.7	24.4	24.8	23.3	24.0	23.7	24.4	24.8
	4H	23.9	24.5	24.3	24.9	25.4	23.9	24.5	24.3	24.9	25.4
	6H	24.3	24.8	24.8	25.3	25.8	24.3	24.8	24.8	25.3	25.8
	8H	24.5	25.0	25.0	25.4	25.9	24.5	25.0	25.0	25.4	25.9
	12H	24.7	25.1	25.2	25.6	26.1	24.7	25.1	25.2	25.6	26.1
8H	4H	24.1	24.5	24.5	25.0	25.5	24.1	24.5	24.5	25.0	25.5
	6H	24.6	25.0	25.1	25.5	26.0	24.6	25.0	25.1	25.5	26.0
	8H	24.9	25.2	25.4	25.7	26.2	24.9	25.2	25.4	25.7	26.2
	12H	25.2	25.4	25.7	25.9	26.5	25.2	25.4	25.7	25.9	26.5
12H	4H	24.1	24.5	24.6	24.9	25.4	24.1	24.5	24.6	24.9	25.4
	6H	24.7	25.0	25.2	25.5	26.0	24.7	25.0	25.2	25.5	26.0
	8H	25.0	25.2	25.5	25.8	26.3	25.0	25.2	25.5	25.8	26.3

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 79
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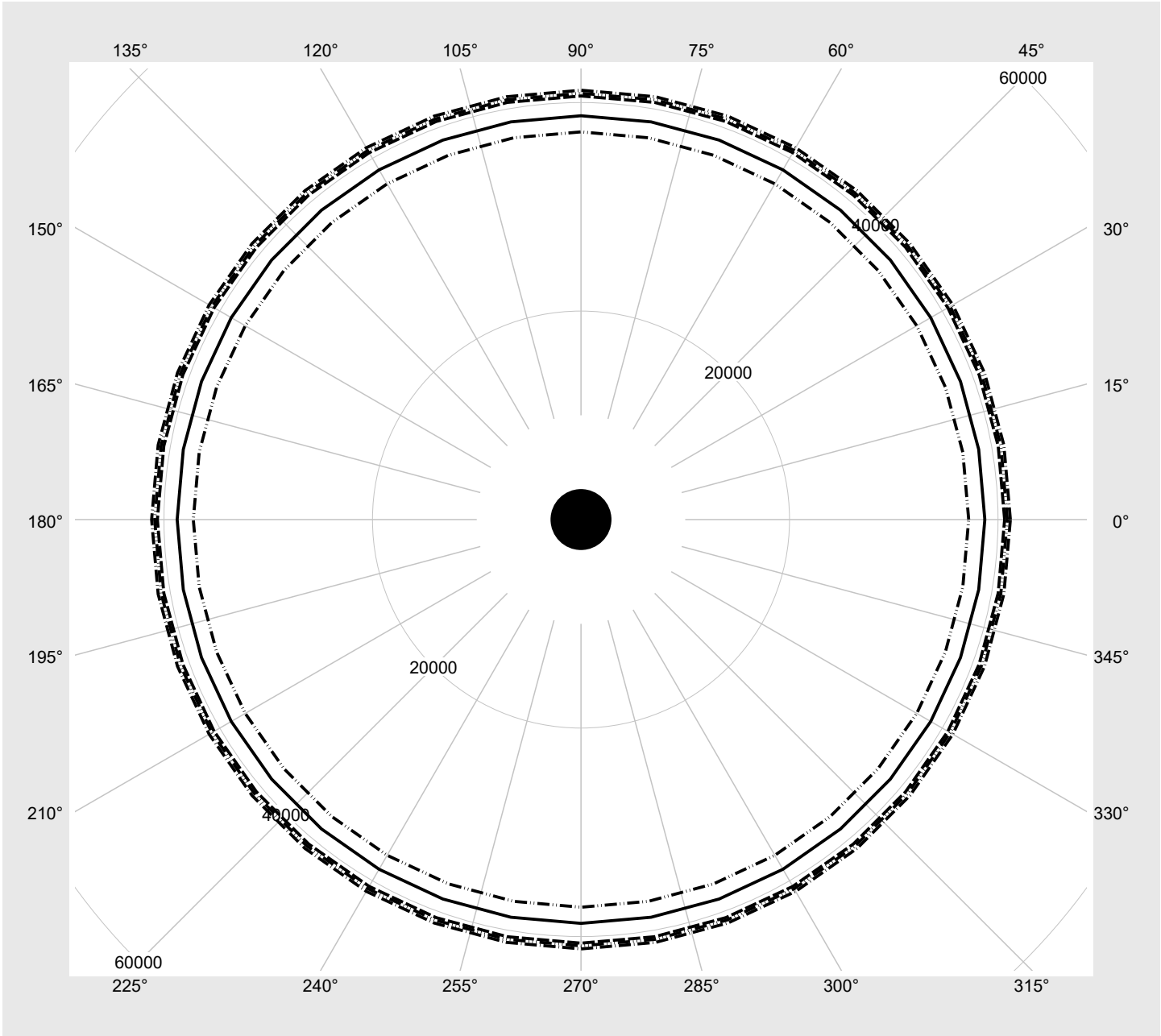
C-planes	0°
$\gamma$	Luminance in cd/m <sup>2</sup>
45°	51989.6
50°	48141.4
55°	44596.2
60°	41259.0
65°	38735.9
70°	40633.8
75°	41185.8
80°	37187.7
85°	40893.0

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**Luminance values in cd/m<sup>2</sup>**

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°



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<b>Multilumen Table</b>	environmental temperature: 25°C	<b>siteco</b>
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DIP-Step	Switch Setting				Luminous flux [lm]	Power consumption [W]
	1	2	3	4		
15	ON	ON	ON	ON	5190	41.5
14	ON	ON	ON	OFF	4980	39.4
13	ON	ON	OFF	ON	4780	37.4
12	ON	ON	OFF	OFF	4540	35.3
11	ON	OFF	ON	ON	4360	33.4
10	ON	OFF	ON	OFF	4130	31.4
9	ON	OFF	OFF	ON	3880	29.4
8	ON	OFF	OFF	OFF	3680	27.3
7	OFF	ON	ON	ON	3470	25.8
6	OFF	ON	ON	OFF	3220	23.9
5	OFF	ON	OFF	ON	2990	21.8
4	OFF	ON	OFF	OFF	2740	19.9
3	OFF	OFF	ON	ON	2470	17.7
2	OFF	OFF	ON	OFF	2210	15.9
1	OFF	OFF	OFF	ON	1860	13.8
0	OFF	OFF	OFF	OFF	1600	11.9