

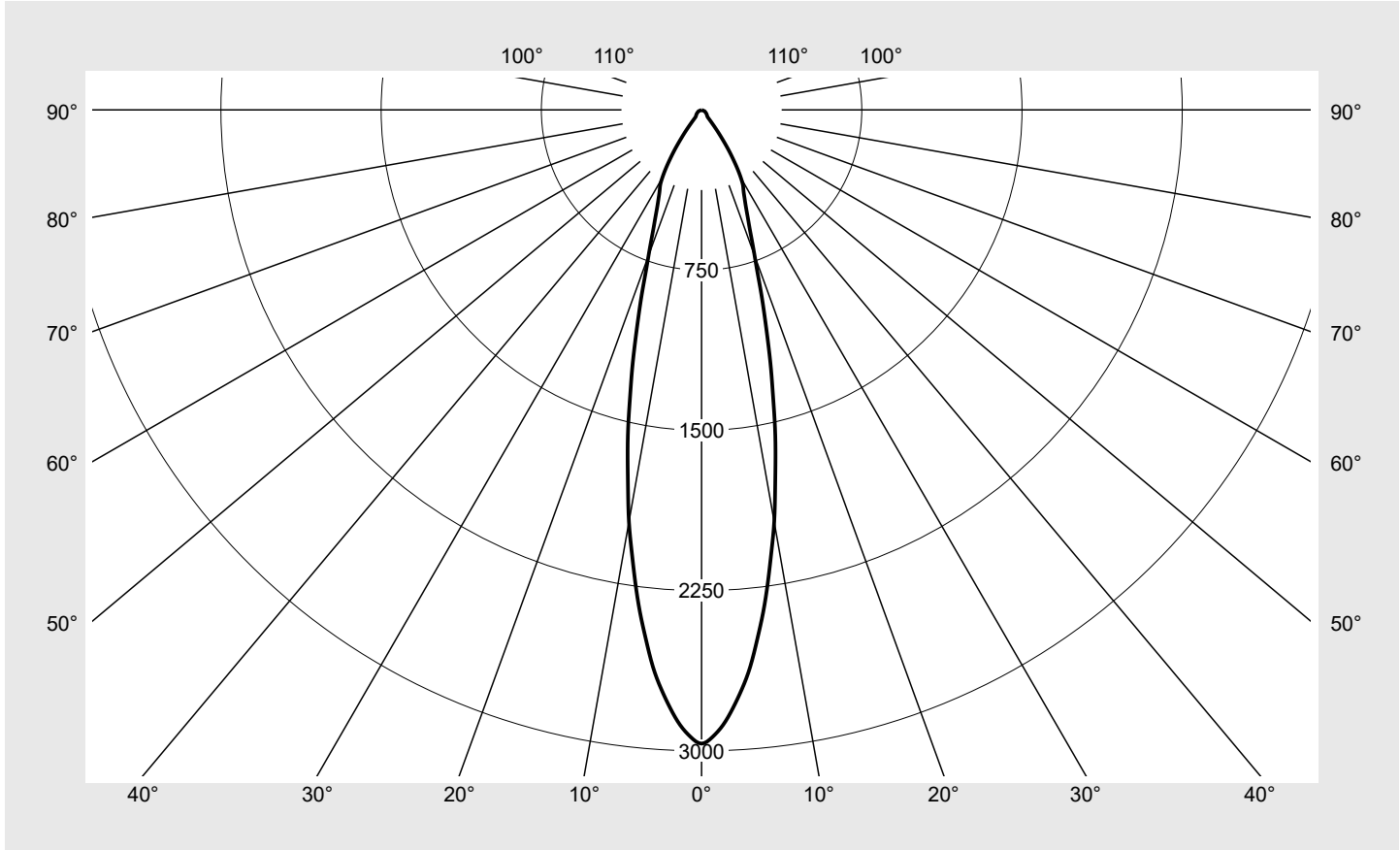


# Photometric test report

<b>Family</b> <b>Spot 31</b>	<b>Order number: 51SF33MAB4B</b> <b>EAN: 4058352721148</b>	<b>LP number</b> <b>59382_3</b>
	<b>Version</b> reflector, cover, polycarbonate, medium distribution <b>Lamps</b> LED 3000 K   CRI ≥ 90 <b>Controlgear</b> ECG Multilumen <b>Setting</b> factory setting: DIP-Step=14	<b>serial documentation</b> <b>20.01.2023</b>
	<b>Rated values</b> Net luminous flux = 4830 lm Power consumption = 39.6 W Luminous efficacy = 122 lm/W	

**Luminous intensity in cd/klm** C180-0 **Imax: 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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Family Spot 31	Order number: 51SF33MAB4B EAN: 4058352721148	LP number 59382_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	22.1	23.2	22.4	23.5	23.8	22.1	23.2	22.4	23.5	23.8
	3H	22.8	23.7	23.2	24.1	24.4	22.8	23.7	23.2	24.1	24.4
	4H	23.2	24.1	23.6	24.4	24.8	23.2	24.1	23.6	24.4	24.8
	6H	23.5	24.3	24.0	24.7	25.1	23.5	24.3	24.0	24.7	25.1
	8H	23.8	24.4	24.2	24.8	25.2	23.8	24.4	24.2	24.8	25.2
	12H	23.9	24.5	24.3	24.9	25.3	23.9	24.5	24.3	24.9	25.3
4H	2H	22.2	23.1	22.6	23.5	23.8	22.2	23.1	22.6	23.5	23.8
	3H	23.2	23.9	23.6	24.3	24.7	23.2	23.9	23.6	24.3	24.7
	4H	23.8	24.4	24.2	24.8	25.3	23.8	24.4	24.2	24.8	25.3
	6H	24.2	24.7	24.7	25.2	25.7	24.2	24.7	24.7	25.2	25.7
	8H	24.4	24.9	24.9	25.3	25.8	24.4	24.9	24.9	25.3	25.8
	12H	24.6	25.0	25.1	25.5	26.0	24.6	25.0	25.1	25.5	26.0
8H	4H	24.0	24.4	24.4	24.9	25.4	24.0	24.4	24.4	24.9	25.4
	6H	24.5	24.9	25.0	25.4	25.9	24.5	24.9	25.0	25.4	25.9
	8H	24.8	25.1	25.3	25.6	26.1	24.8	25.1	25.3	25.6	26.1
	12H	25.0	25.3	25.6	25.8	26.4	25.0	25.3	25.6	25.8	26.4
12H	4H	24.0	24.4	24.5	24.8	25.3	24.0	24.4	24.5	24.8	25.3
	6H	24.6	24.9	25.1	25.4	25.9	24.6	24.9	25.1	25.4	25.9
	8H	24.9	25.1	25.4	25.6	26.2	24.9	25.1	25.4	25.6	26.2

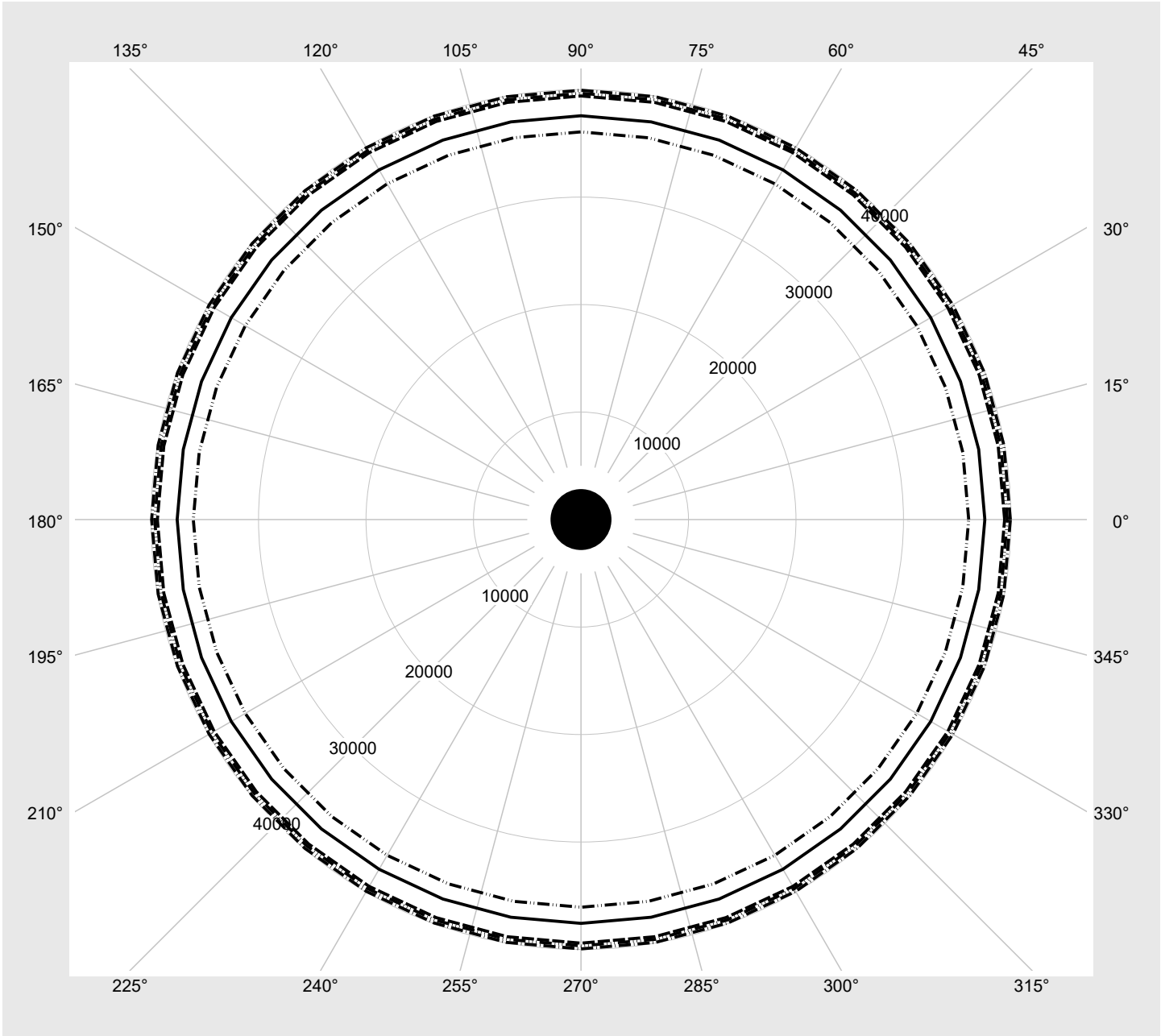
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 79
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C-planes	0°
$\gamma$	Luminance in cd/m <sup>2</sup>
45°	50423.7
50°	46691.4
55°	43253.0
60°	40016.2
65°	37569.1
70°	39409.9
75°	39945.2
80°	36067.6
85°	39661.3

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



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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	5030	41.7
14	ON	ON	ON	OFF	4830	39.6
13	ON	ON	OFF	ON	4630	37.4
12	ON	ON	OFF	OFF	4410	34.8
11	ON	OFF	ON	ON	4230	33.6
10	ON	OFF	ON	OFF	4010	31.6
9	ON	OFF	OFF	ON	3770	29.5
8	ON	OFF	OFF	OFF	3570	27.5
7	OFF	ON	ON	ON	3360	25.9
6	OFF	ON	ON	OFF	3120	23.9
5	OFF	ON	OFF	ON	2900	21.9
4	OFF	ON	OFF	OFF	2660	20.0
3	OFF	OFF	ON	ON	2390	17.8
2	OFF	OFF	ON	OFF	2150	15.9
1	OFF	OFF	OFF	ON	1800	13.8
0	OFF	OFF	OFF	OFF	1560	12.0