

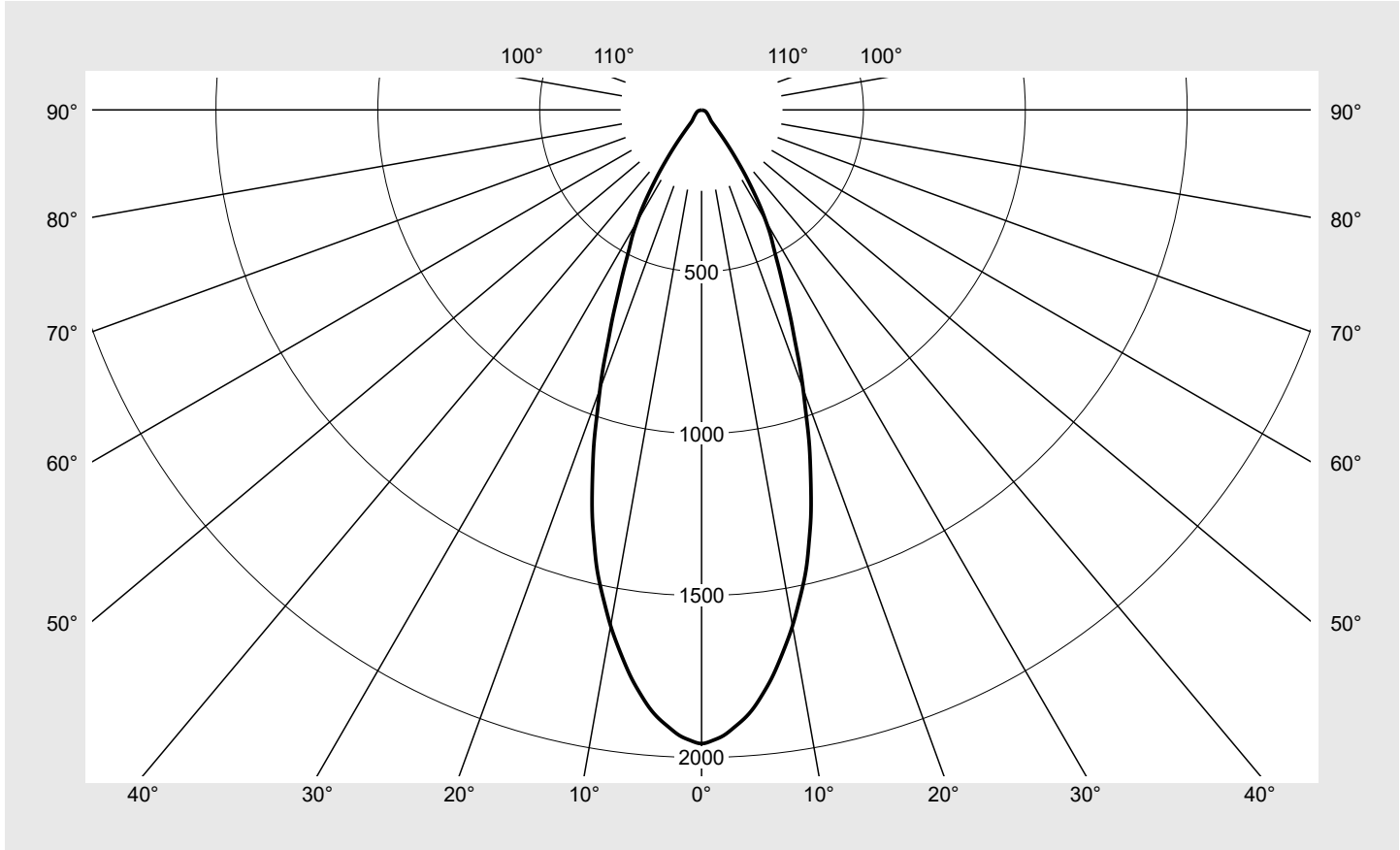


# Photometric test report

<b>Family</b> <b>Spot 31</b>	<b>Order number: 51SF34MAD4B</b> <b>EAN: 4058352721179</b>	<b>LP number</b> <b>59383_4</b>
	<b>Version</b> reflector, cover, polycarbonate, wide distribution <b>Lamps</b> LED 4000 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 = 5040 lm Power consumption = 39.2 W Luminous efficacy = 128.6 lm/W	

**Luminous intensity in cd/klm** C180-0 **Imax: 1957 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=93 N2=97 N3=100 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°	1957.2	0.5	0.5
1°	1947.9	3.7	4.2
2°	1933.7	7.4	11.6
3°	1910.2	11.0	22.6
4°	1885.0	14.4	37.0
5°	1853.1	17.7	54.7
6°	1812.8	20.8	75.5
7°	1769.9	23.7	99.1
8°	1720.6	26.3	125.4
9°	1670.0	28.6	154.0
10°	1618.0	30.8	184.8
11°	1560.5	32.7	217.5
12°	1503.8	34.3	251.8
13°	1443.5	35.6	287.4
14°	1372.9	36.4	323.8
15°	1303.8	37.0	360.8
16°	1226.3	37.1	397.9
17°	1149.0	36.8	434.7
18°	1073.5	36.4	471.1
19°	990.1	35.4	506.4
20°	917.2	34.4	540.8
21°	845.5	33.2	574.1
22°	770.3	31.6	605.7
23°	709.0	30.4	636.1
24°	648.2	28.9	665.0
25°	594.2	27.5	692.5
26°	547.0	26.3	718.8
27°	503.0	25.0	743.9
28°	468.0	24.1	768.0
29°	436.1	23.2	791.2
30°	397.9	21.8	813.0
31°	360.0	20.3	833.3
32°	318.2	18.5	851.8
33°	275.9	16.5	868.3
34°	236.3	14.5	882.8
35°	195.2	12.3	895.1
36°	158.3	10.2	905.3
37°	123.4	8.1	913.4
38°	90.3	6.1	919.5
39°	65.5	4.5	924.0
40°	49.4	3.5	927.5
41°	44.2	3.2	930.7
42°	41.5	3.0	933.7
43°	38.8	2.9	936.6
44°	37.0	2.8	939.4
45°	35.2	2.7	942.2
46°	33.5	2.6	944.8

C-planes	0°	Phi-zone	Total Phi-zone
$\gamma$	Luminous intensity in cd/klm		Luminous flux in lm/klm
47°	31.9	2.6	947.4
48°	30.5	2.5	949.8
49°	29.1	2.4	952.3
50°	27.9	2.3	954.6
51°	26.6	2.3	956.9
52°	25.6	2.2	959.1
53°	24.6	2.2	961.2
54°	23.5	2.1	963.3
55°	22.7	2.0	965.4
56°	21.8	2.0	967.3
57°	21.0	1.9	969.3
58°	20.3	1.9	971.1
59°	19.5	1.8	973.0
60°	18.8	1.8	974.8
61°	18.2	1.7	976.5
62°	17.5	1.7	978.2
63°	16.9	1.7	979.9
64°	16.2	1.6	981.5
65°	15.6	1.6	983.0
66°	15.1	1.5	984.5
67°	14.5	1.5	986.0
68°	13.8	1.4	987.4
69°	13.2	1.3	988.7
70°	12.5	1.3	990.0
71°	11.9	1.2	991.3
72°	11.2	1.2	992.4
73°	10.5	1.1	993.5
74°	9.7	1.0	994.6
75°	8.8	0.9	995.5
76°	7.7	0.8	996.3
77°	6.2	0.7	997.0
78°	5.2	0.6	997.5
79°	4.6	0.5	998.0
80°	4.0	0.4	998.5
81°	3.5	0.4	998.8
82°	3.0	0.3	999.2
83°	2.4	0.3	999.4
84°	1.9	0.2	999.6
85°	1.5	0.2	999.8
86°	1.0	0.1	999.9
87°	0.6	0.1	1000.0
88°	0.2	0.0	1000.0
89°	0.1	0.0	1000.0
90°	0.1	0.0	1000.0

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Family Spot 31	Order number: 51SF34MAD4B EAN: 4058352721179	LP number 59383_4
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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	22.6	23.7	24.0	22.2	23.3	22.6	23.7	24.0
	3H	22.9	23.8	23.2	24.2	24.5	22.9	23.8	23.2	24.2	24.5
	4H	23.2	24.1	23.6	24.4	24.8	23.2	24.1	23.6	24.4	24.8
	6H	23.3	24.1	23.7	24.5	24.9	23.3	24.1	23.7	24.5	24.9
	8H	23.5	24.1	23.9	24.5	24.9	23.5	24.1	23.9	24.5	24.9
	12H	23.5	24.0	23.9	24.4	24.9	23.5	24.0	23.9	24.4	24.9
4H	2H	22.4	23.3	22.8	23.6	24.0	22.4	23.3	22.8	23.6	24.0
	3H	23.2	23.9	23.6	24.3	24.7	23.2	23.9	23.6	24.3	24.7
	4H	23.6	24.3	24.1	24.7	25.1	23.6	24.3	24.1	24.7	25.1
	6H	23.8	24.4	24.3	24.8	25.3	23.8	24.4	24.3	24.8	25.3
	8H	23.9	24.4	24.4	24.8	25.3	23.9	24.4	24.4	24.8	25.3
	12H	23.9	24.3	24.4	24.8	25.3	23.9	24.3	24.4	24.8	25.3
8H	4H	23.7	24.2	24.2	24.7	25.2	23.7	24.2	24.2	24.7	25.2
	6H	24.0	24.4	24.5	24.8	25.4	24.0	24.4	24.5	24.8	25.4
	8H	24.0	24.4	24.6	24.9	25.4	24.0	24.4	24.6	24.9	25.4
	12H	24.1	24.4	24.6	24.9	25.4	24.1	24.4	24.6	24.9	25.4
12H	4H	23.7	24.1	24.2	24.6	25.1	23.7	24.1	24.2	24.6	25.1
	6H	24.0	24.3	24.5	24.8	25.3	24.0	24.3	24.5	24.8	25.3
	8H	24.1	24.3	24.6	24.8	25.4	24.1	24.3	24.6	24.8	25.4

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 79
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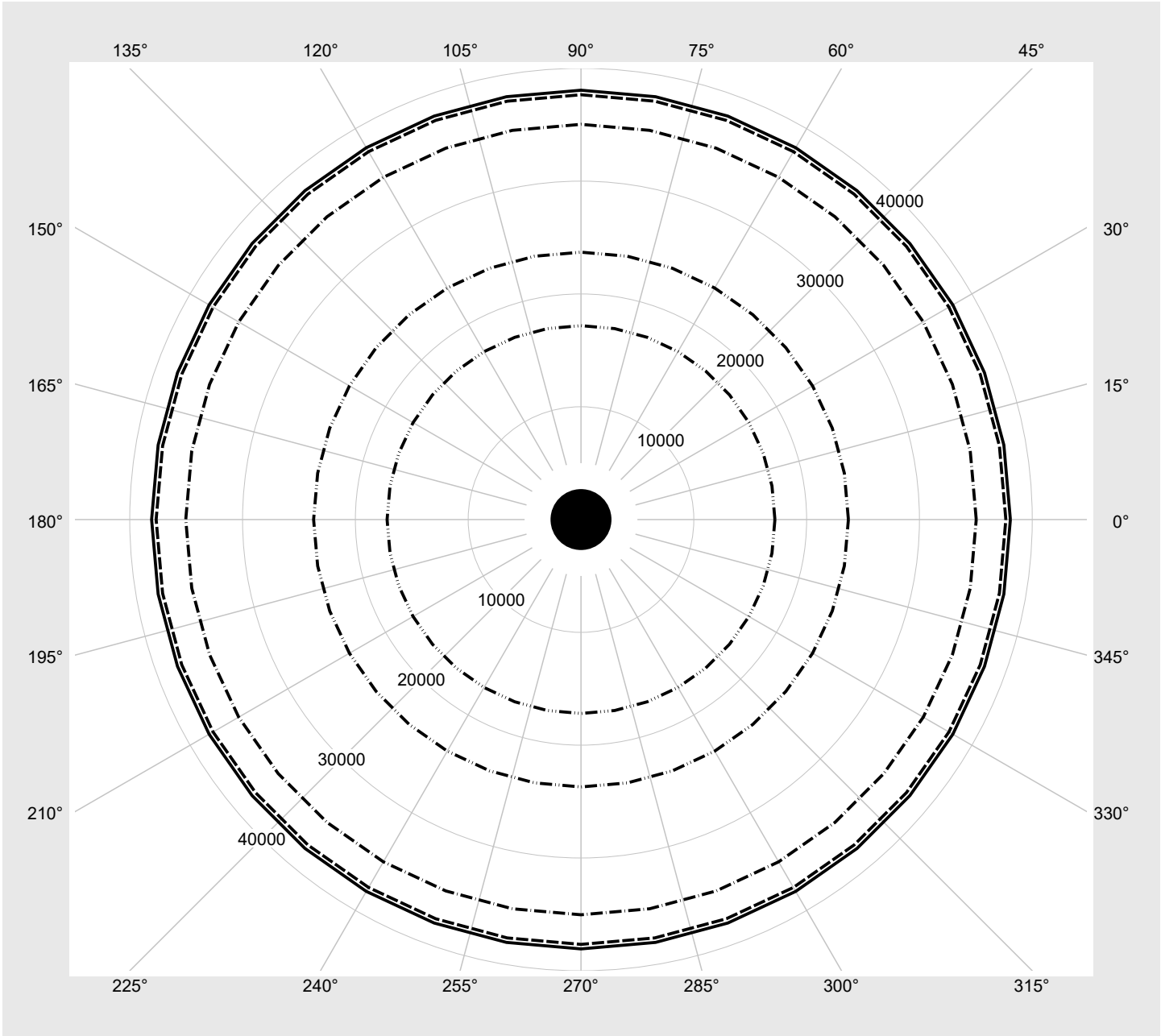
C-planes	0°
$\gamma$	Luminance in cd/m <sup>2</sup>
45°	51127.0
50°	44570.4
55°	40686.0
60°	38685.8
65°	38061.5
70°	37660.1
75°	35035.6
80°	23702.9
85°	17189.0

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**Luminance values in cd/m<sup>2</sup>**     $\gamma$  65°     $\gamma$  70°     $\gamma$  75°     $\gamma$  80°     $\gamma$  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	5250	41.4
14	ON	ON	ON	OFF	5040	39.2
13	ON	ON	OFF	ON	4830	36.9
12	ON	ON	OFF	OFF	4520	34.5
11	ON	OFF	ON	ON	4410	33.4
10	ON	OFF	ON	OFF	4180	31.4
9	ON	OFF	OFF	ON	3930	29.4
8	ON	OFF	OFF	OFF	3720	27.4
7	OFF	ON	ON	ON	3500	25.8
6	OFF	ON	ON	OFF	3260	23.9
5	OFF	ON	OFF	ON	3020	21.8
4	OFF	ON	OFF	OFF	2780	19.9
3	OFF	OFF	ON	ON	2500	17.7
2	OFF	OFF	ON	OFF	2240	15.8
1	OFF	OFF	OFF	ON	1880	13.8
0	OFF	OFF	OFF	OFF	1620	11.9