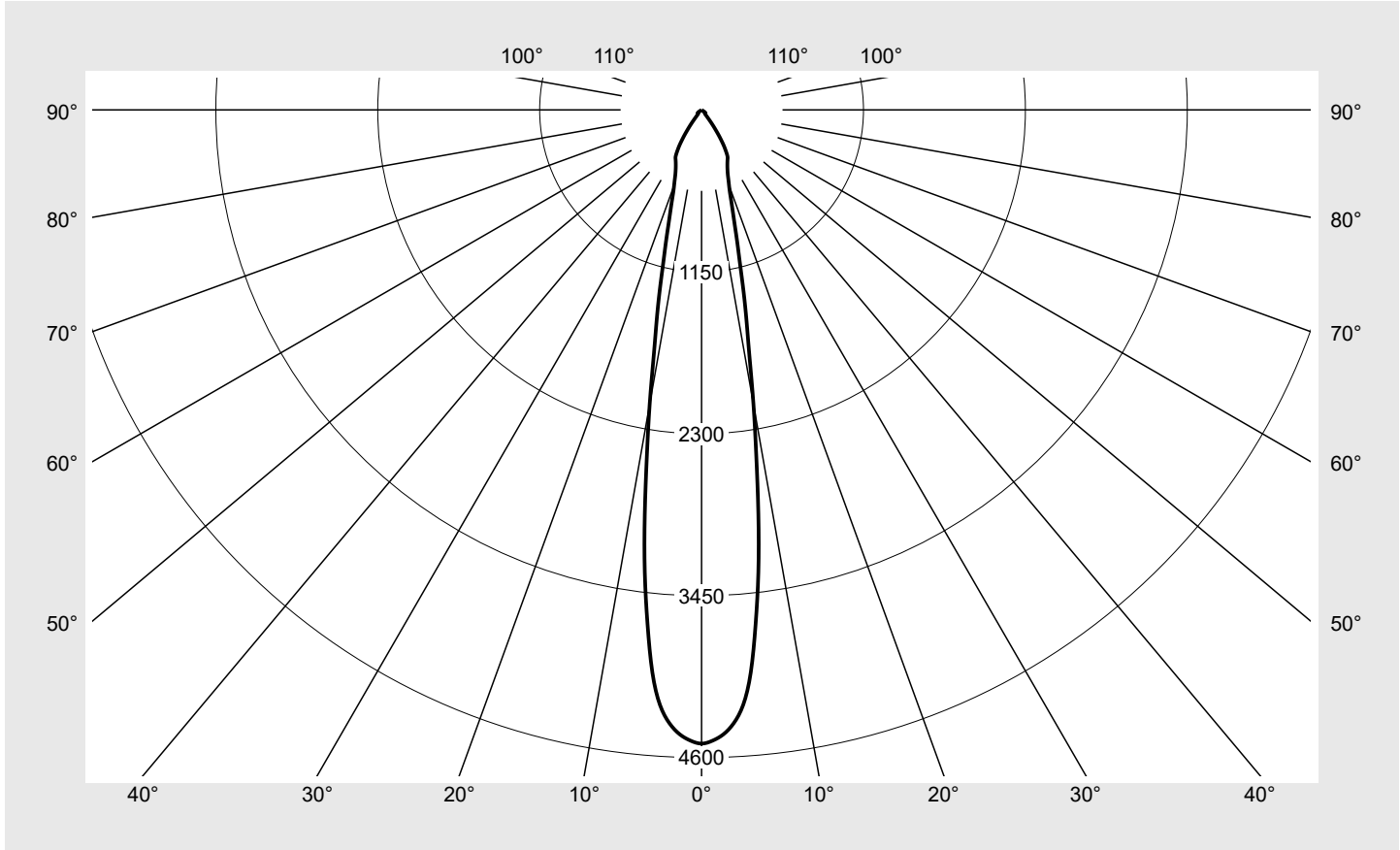


# Photometric test report

<b>Family</b> <b>Spot 31</b>	<b>Order number: 51SF12MAB4B</b> <b>EAN: 4058352721063</b>	<b>LP number</b> <b>59381_1</b>
	<b>Version</b> reflector, cover, polycarbonate, narrow distribution <b>Lamps</b> LED 3000 K   CRI ≥ 90 <b>Controlgear</b> ECG Multilumen <b>Setting</b> factory setting: DIP-Step=14 <b>Rated values</b> Net luminous flux = 4790 lm Power consumption = 39.8 W Luminous efficacy = 120.4 lm/W	<b>serial documentation</b> <b>20.01.2023</b>

**Luminous intensity in cd/klm** C180-0 **Imax: 4501 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=93 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

## Photometric test report

<b>Family</b> <b>Spot 31</b>	<b>Order number: 51SF12MAB4B</b> <b>EAN: 4058352721063</b>	<b>LP number</b> <b>59381_1</b>
<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°	4500.5	1.1	1.1
1°	4480.3	8.6	9.7
2°	4437.5	17.0	26.6
3°	4362.0	25.0	51.7
4°	4236.1	32.4	84.1
5°	4010.1	38.3	122.4
6°	3672.5	42.1	164.5
7°	3309.8	44.2	208.7
8°	2898.6	44.2	253.0
9°	2482.5	42.6	295.6
10°	2122.6	40.4	336.0
11°	1782.7	37.3	373.3
12°	1538.7	35.1	408.4
13°	1327.4	32.7	441.1
14°	1130.4	30.0	471.1
15°	985.0	28.0	499.1
16°	859.9	26.0	525.0
17°	761.9	24.4	549.5
18°	683.9	23.2	572.6
19°	616.9	22.0	594.7
20°	570.3	21.4	616.1
21°	532.3	20.9	637.0
22°	498.2	20.5	657.4
23°	472.4	20.2	677.7
24°	451.2	20.1	697.8
25°	433.6	20.1	717.9
26°	418.4	20.1	738.0
27°	405.2	20.2	758.2
28°	393.9	20.3	778.5
29°	380.9	20.3	798.7
30°	356.4	19.5	818.3
31°	326.4	18.4	836.7
32°	294.9	17.1	853.8
33°	256.7	15.3	869.2
34°	220.2	13.5	882.7
35°	180.4	11.3	894.0
36°	146.1	9.4	903.4
37°	111.1	7.3	910.8
38°	79.1	5.3	916.1
39°	56.1	3.9	920.0
40°	40.9	2.9	922.8
41°	37.1	2.7	925.5
42°	35.5	2.6	928.1
43°	33.6	2.5	930.6
44°	33.1	2.5	933.2
45°	33.1	2.6	935.7
46°	32.9	2.6	938.3

C-planes	0°	Phi-zone	Total Phi-zone
$\gamma$	Luminous intensity in cd/klm		Luminous flux in lm/klm
47°	33.1	2.7	941.0
48°	33.6	2.7	943.7
49°	34.5	2.9	946.6
50°	35.6	3.0	949.6
51°	36.2	3.1	952.6
52°	35.7	3.1	955.7
53°	33.7	2.9	958.7
54°	30.9	2.7	961.4
55°	27.6	2.5	963.9
56°	23.6	2.1	966.1
57°	21.0	1.9	968.0
58°	19.1	1.8	969.8
59°	17.3	1.6	971.4
60°	16.3	1.5	972.9
61°	15.8	1.5	974.5
62°	15.5	1.5	976.0
63°	15.1	1.5	977.4
64°	14.4	1.4	978.9
65°	14.1	1.4	980.3
66°	13.7	1.4	981.6
67°	13.0	1.3	982.9
68°	12.9	1.3	984.3
69°	12.5	1.3	985.5
70°	12.0	1.2	986.8
71°	11.4	1.2	988.0
72°	11.1	1.2	989.1
73°	10.6	1.1	990.2
74°	10.1	1.1	991.3
75°	9.5	1.0	992.3
76°	8.7	0.9	993.2
77°	7.7	0.8	994.0
78°	6.8	0.7	994.8
79°	6.5	0.7	995.5
80°	6.1	0.7	996.1
81°	5.4	0.6	996.7
82°	5.2	0.6	997.3
83°	4.8	0.5	997.8
84°	4.1	0.5	998.2
85°	3.8	0.4	998.7
86°	3.1	0.3	999.0
87°	3.1	0.3	999.3
88°	2.5	0.3	999.6
89°	2.2	0.2	999.9
90°	2.5	0.3	1000.1

## Photometric test report

Family Spot 31	Order number: 51SF12MAB4B EAN: 4058352721063	LP number 59381_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	21.9	23.0	22.3	23.3	23.6	21.9	23.0	22.3	23.3	23.6
	3H	22.5	23.4	22.9	23.7	24.1	22.5	23.4	22.9	23.7	24.1
	4H	22.9	23.7	23.3	24.1	24.4	22.9	23.7	23.3	24.1	24.4
	6H	23.1	23.9	23.6	24.3	24.7	23.1	23.9	23.6	24.3	24.7
	8H	23.4	24.0	23.8	24.4	24.8	23.4	24.0	23.8	24.4	24.8
	12H	23.5	24.1	23.9	24.5	24.9	23.5	24.1	23.9	24.5	24.9
4H	2H	22.0	22.9	22.4	23.2	23.6	22.0	22.9	22.4	23.2	23.6
	3H	22.8	23.5	23.2	23.9	24.3	22.8	23.5	23.2	23.9	24.3
	4H	23.3	23.9	23.8	24.4	24.8	23.3	23.9	23.8	24.4	24.8
	6H	23.7	24.3	24.2	24.7	25.2	23.7	24.3	24.2	24.7	25.2
	8H	24.0	24.4	24.5	24.9	25.4	24.0	24.4	24.5	24.9	25.4
	12H	24.2	24.6	24.7	25.1	25.6	24.2	24.6	24.7	25.1	25.6
8H	4H	23.5	23.9	24.0	24.4	24.9	23.5	23.9	24.0	24.4	24.9
	6H	24.1	24.4	24.6	24.9	25.4	24.1	24.4	24.6	24.9	25.4
	8H	24.4	24.7	24.9	25.2	25.7	24.4	24.7	24.9	25.2	25.7
	12H	24.7	25.0	25.2	25.5	26.0	24.7	25.0	25.2	25.5	26.0
12H	4H	23.5	23.9	24.0	24.3	24.8	23.5	23.9	24.0	24.3	24.8
	6H	24.1	24.4	24.6	24.9	25.4	24.1	24.4	24.6	24.9	25.4
	8H	24.4	24.7	24.9	25.2	25.8	24.4	24.7	24.9	25.2	25.8

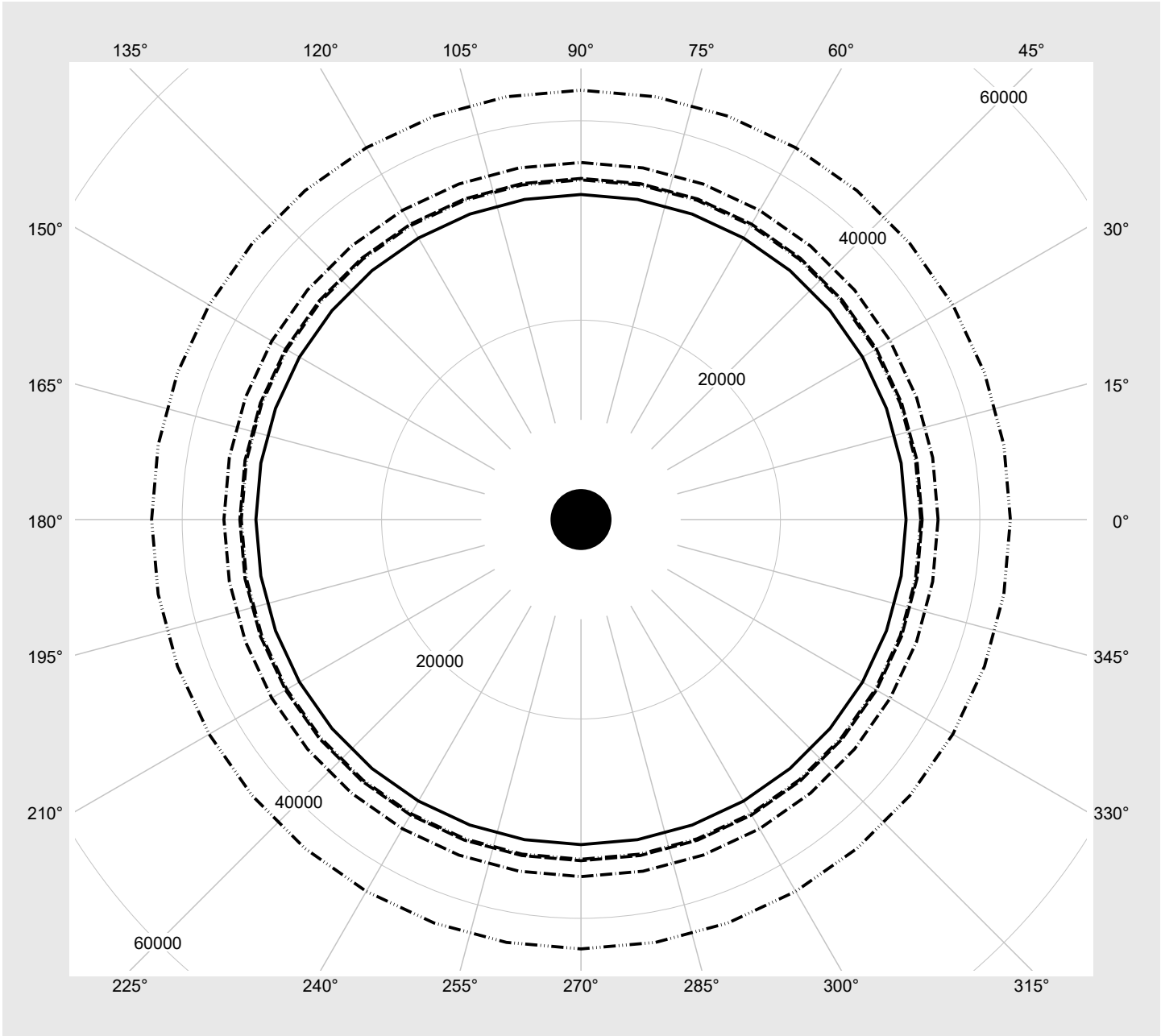
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 79
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C-planes	0°
$\gamma$	Luminance in cd/m <sup>2</sup>
45°	45716.4
50°	54179.8
55°	47096.1
60°	31890.5
65°	32605.7
70°	34217.8
75°	35816.1
80°	34075.0
85°	43066.5

**Photometric test report**

<b>Family</b> <b>Spot 31</b>	<b>Order number: 51SF12MAB4B</b> <b>EAN: 4058352721063</b>	<b>LP number</b> <b>59381_1</b>
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**Luminance values in cd/m<sup>2</sup>**      $\gamma$  65°      $\gamma$  70°      $\gamma$  75°      $\gamma$  80°      $\gamma$  85°



## Photometric test report

Family <b>Spot 31</b>	Order number: <b>51SF12MAB4B</b> EAN: <b>4058352721063</b>	LP number <b>59381_1</b>
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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	4980	41.8
14	ON	ON	ON	OFF	4790	39.8
13	ON	ON	OFF	ON	4590	37.8
12	ON	ON	OFF	OFF	4360	35.8
11	ON	OFF	ON	ON	4180	33.6
10	ON	OFF	ON	OFF	3970	31.6
9	ON	OFF	OFF	ON	3730	29.6
8	ON	OFF	OFF	OFF	3540	27.6
7	OFF	ON	ON	ON	3330	25.9
6	OFF	ON	ON	OFF	3090	23.8
5	OFF	ON	OFF	ON	2870	22.0
4	OFF	ON	OFF	OFF	2630	20.0
3	OFF	OFF	ON	ON	2370	17.8
2	OFF	OFF	ON	OFF	2120	15.9
1	OFF	OFF	OFF	ON	1790	13.9
0	OFF	OFF	OFF	OFF	1540	12.0