
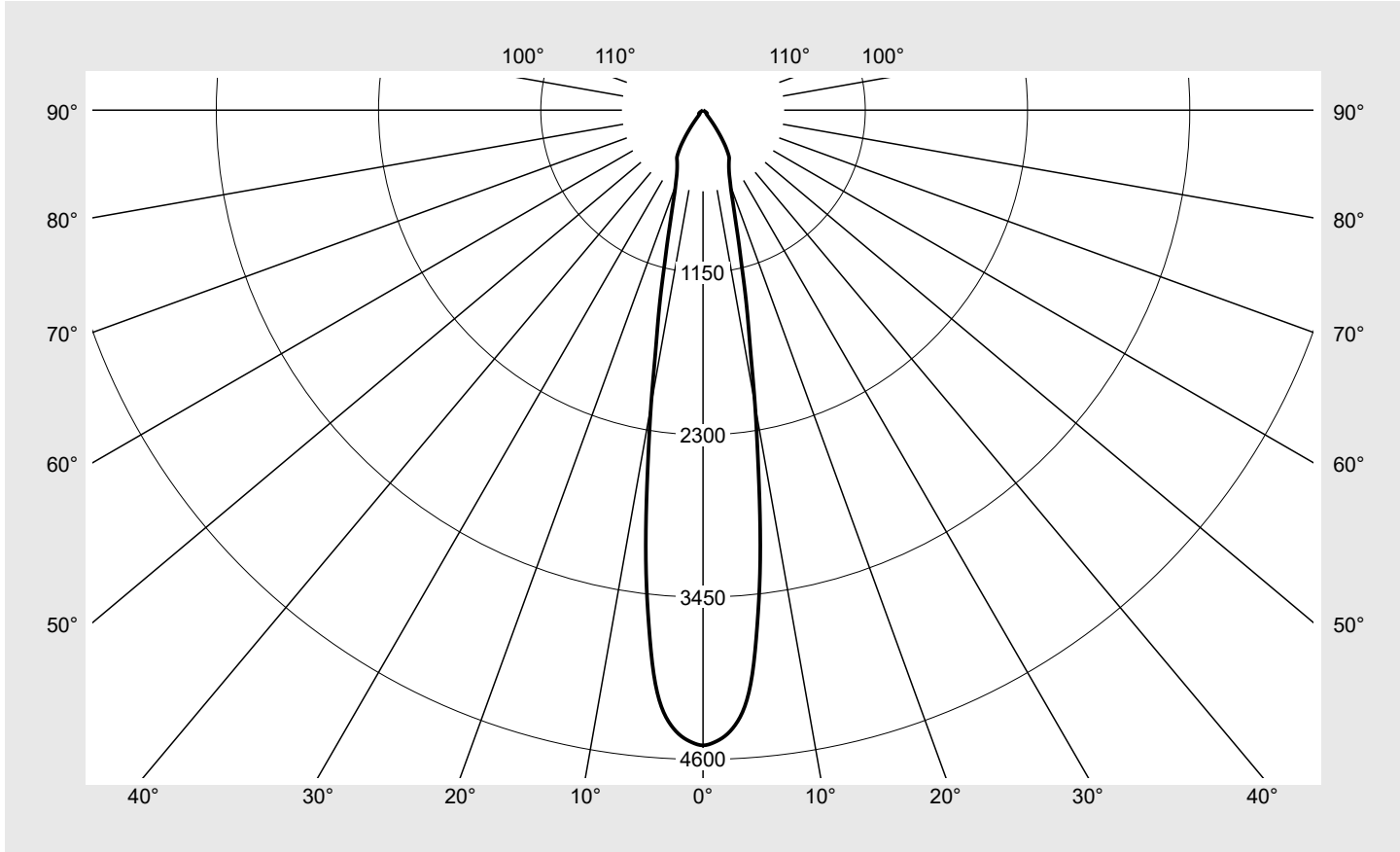


Photometric test report

Family Spot 31	Order number: 51SF32MAD4B EAN: 4058352721131	LP number 59381_4
	Version reflector, cover, polycarbonate, narrow distribution Lamps LED 4000 K CRI ≥ 90 Controlgear ECG Multilumen Setting factory setting: DIP-Step=14 Rated values Net luminous flux = 4930 lm Power consumption = 39.5 W Luminous efficacy = 124.8 lm/W	serial documentation 20.01.2023



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	
η_{LB}	100.0%
ϕ_u	100.0%
ϕ_o	0.0%

Measurement conditions
DIN EN 13032 and DIN 5032

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Table of values for luminous intensities	Maximum luminous intensity
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C-planes	0°	Phi-zone	Total Phi-zone
γ	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
γ	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

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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	22.0	23.1	22.4	23.4	23.7	22.0	23.1	22.4	23.4	23.7
	3H	22.6	23.5	23.0	23.8	24.2	22.6	23.5	23.0	23.8	24.2
	4H	23.0	23.8	23.4	24.2	24.5	23.0	23.8	23.4	24.2	24.5
	6H	23.2	24.0	23.7	24.4	24.8	23.2	24.0	23.7	24.4	24.8
	8H	23.5	24.1	23.9	24.5	24.9	23.5	24.1	23.9	24.5	24.9
	12H	23.6	24.2	24.0	24.6	25.0	23.6	24.2	24.0	24.6	25.0
4H	2H	22.1	23.0	22.5	23.3	23.7	22.1	23.0	22.5	23.3	23.7
	3H	22.9	23.6	23.3	24.0	24.4	22.9	23.6	23.3	24.0	24.4
	4H	23.4	24.0	23.9	24.5	24.9	23.4	24.0	23.9	24.5	24.9
	6H	23.8	24.4	24.3	24.8	25.3	23.8	24.4	24.3	24.8	25.3
	8H	24.1	24.5	24.6	25.0	25.5	24.1	24.5	24.6	25.0	25.5
	12H	24.3	24.7	24.8	25.2	25.7	24.3	24.7	24.8	25.2	25.7
8H	4H	23.6	24.0	24.1	24.5	25.0	23.6	24.0	24.1	24.5	25.0
	6H	24.2	24.5	24.7	25.0	25.5	24.2	24.5	24.7	25.0	25.5
	8H	24.5	24.8	25.0	25.3	25.8	24.5	24.8	25.0	25.3	25.8
	12H	24.8	25.1	25.3	25.6	26.1	24.8	25.1	25.3	25.6	26.1
12H	4H	23.6	24.0	24.1	24.4	24.9	23.6	24.0	24.1	24.4	24.9
	6H	24.2	24.5	24.7	25.0	25.5	24.2	24.5	24.7	25.0	25.5
	8H	24.5	24.8	25.0	25.3	25.9	24.5	24.8	25.0	25.3	25.9

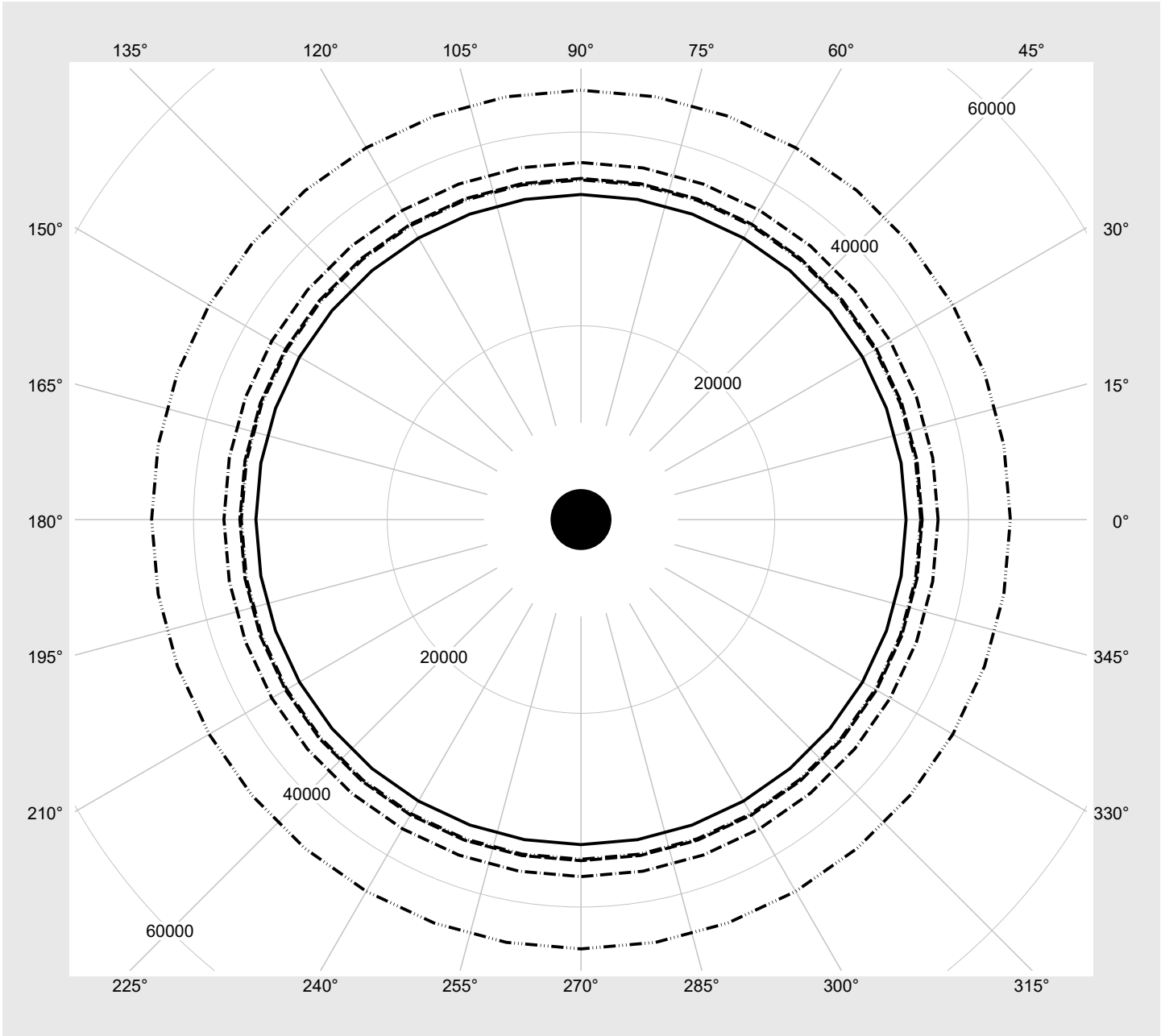
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 79
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C-planes	0°
γ	Luminance in cd/m ²
45°	47052.6
50°	55763.3
55°	48472.6
60°	32822.6
65°	33558.7
70°	35217.9
75°	36862.9
80°	35070.9
85°	44325.2

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



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Multilumen Table	environmental temperature: 25°C	siteco
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DIP-Step	Switch Setting				Luminous flux [lm]	Power consumption [W]
	1	2	3	4		
15	ON	ON	ON	ON	5140	41.6
14	ON	ON	ON	OFF	4930	39.5
13	ON	ON	OFF	ON	4730	37.5
12	ON	ON	OFF	OFF	4500	35.1
11	ON	OFF	ON	ON	4310	33.4
10	ON	OFF	ON	OFF	4090	31.5
9	ON	OFF	OFF	ON	3850	28.9
8	ON	OFF	OFF	OFF	3650	26.9
7	OFF	ON	ON	ON	3430	25.8
6	OFF	ON	ON	OFF	3190	23.8
5	OFF	ON	OFF	ON	2960	21.8
4	OFF	ON	OFF	OFF	2710	19.9
3	OFF	OFF	ON	ON	2440	17.8
2	OFF	OFF	ON	OFF	2190	15.8
1	OFF	OFF	OFF	ON	1840	13.8
0	OFF	OFF	OFF	OFF	1590	11.9