
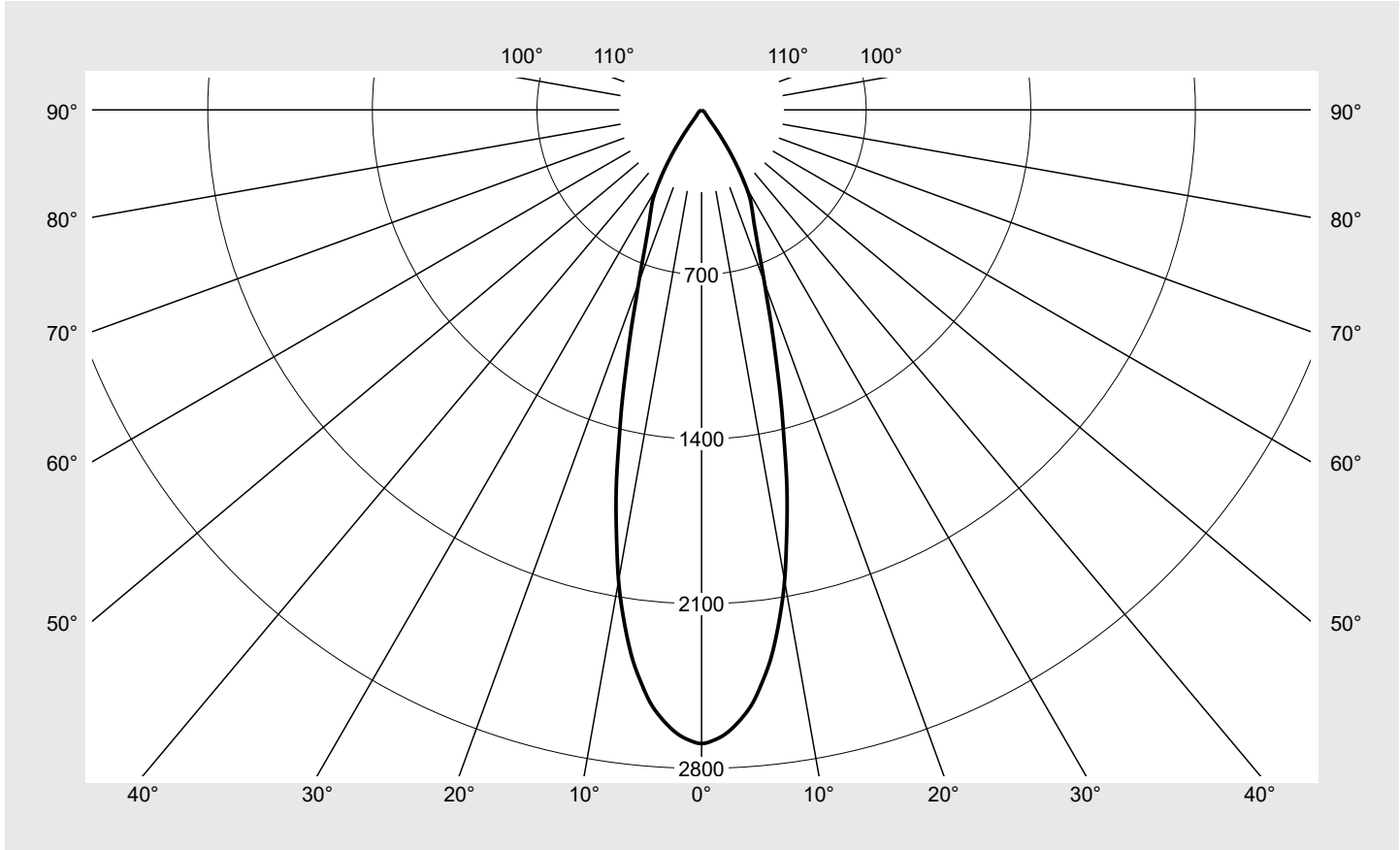


Photometric test report

Family Spot 21	Order number: 51SE13DBB5B EAN: 4058352767825	LP number 59385_11
	Version reflector, cover panel, PC, medium distribution Lamps LED 3000 K CRI ≥ 90 Controlgear ECG-DALI Setting factory setting: DIP-Step=14 Rated values Net luminous flux = 4960 lm Power consumption = 40.4 W Luminous efficacy = 122.8 lm/W	serial documentation 14.02.2023
		

Luminous intensity in cd/klm C180-0 **Imax: 2695 cd/klm**



Classifications	
DIN 5040	A 8 0
CIE	N1=95 N2=98 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
		siteco

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
0°	2694.7	0.6	0.6
1°	2682.9	5.1	5.8
2°	2661.3	10.2	16.0
3°	2626.5	15.1	31.0
4°	2582.0	19.8	50.8
5°	2526.7	24.1	74.9
6°	2451.1	28.1	103.0
7°	2369.6	31.7	134.7
8°	2268.5	34.6	169.3
9°	2155.9	37.0	206.3
10°	2033.1	38.7	245.0
11°	1889.1	39.5	284.5
12°	1749.6	39.9	324.4
13°	1606.3	39.6	364.1
14°	1451.7	38.5	402.6
15°	1316.6	37.4	439.9
16°	1182.9	35.8	475.7
17°	1063.4	34.1	509.8
18°	958.3	32.5	542.3
19°	860.0	30.7	573.0
20°	782.1	29.3	602.3
21°	713.2	28.0	630.3
22°	652.6	26.8	657.1
23°	603.4	25.9	683.0
24°	562.1	25.1	708.1
25°	526.2	24.4	732.5
26°	498.5	24.0	756.4
27°	471.8	23.5	779.9
28°	447.7	23.1	803.0
29°	418.5	22.2	825.2
30°	379.9	20.8	846.0
31°	337.7	19.1	865.1
32°	295.4	17.2	882.3
33°	252.5	15.1	897.4
34°	211.9	13.0	910.4
35°	167.9	10.6	920.9
36°	131.9	8.5	929.4
37°	96.9	6.4	935.8
38°	68.0	4.6	940.4
39°	50.9	3.5	943.9
40°	42.0	3.0	946.9
41°	36.2	2.6	949.5
42°	31.8	2.3	951.8
43°	28.9	2.2	954.0
44°	26.7	2.0	956.0
45°	24.8	1.9	957.9
46°	23.2	1.8	959.8

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
47°	22.0	1.8	961.5
48°	20.4	1.7	963.2
49°	19.4	1.6	964.8
50°	17.8	1.5	966.3
51°	17.1	1.5	967.8
52°	16.0	1.4	969.1
53°	15.3	1.3	970.5
54°	14.6	1.3	971.8
55°	14.2	1.3	973.0
56°	13.3	1.2	974.2
57°	12.9	1.2	975.4
58°	12.3	1.1	976.6
59°	12.0	1.1	977.7
60°	11.7	1.1	978.8
61°	11.3	1.1	979.9
62°	11.2	1.1	981.0
63°	10.7	1.0	982.0
64°	10.6	1.0	983.1
65°	10.0	1.0	984.1
66°	9.9	1.0	985.0
67°	9.6	1.0	986.0
68°	9.2	0.9	986.9
69°	9.0	0.9	987.9
70°	8.7	0.9	988.8
71°	8.2	0.9	989.6
72°	7.9	0.8	990.4
73°	7.8	0.8	991.3
74°	7.5	0.8	992.0
75°	7.5	0.8	992.8
76°	6.8	0.7	993.6
77°	6.7	0.7	994.3
78°	6.6	0.7	995.0
79°	6.3	0.7	995.7
80°	5.8	0.6	996.3
81°	5.5	0.6	996.9
82°	5.1	0.6	997.4
83°	4.5	0.5	997.9
84°	4.1	0.4	998.4
85°	3.4	0.4	998.8
86°	3.0	0.3	999.1
87°	2.6	0.3	999.4
88°	2.2	0.2	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	20.8	21.9	21.2	22.2	22.5	20.8	21.9	21.2	22.2	22.5
	3H	21.2	22.1	21.6	22.5	22.8	21.2	22.1	21.6	22.5	22.8
	4H	21.5	22.4	21.9	22.7	23.1	21.5	22.4	21.9	22.7	23.1
	6H	22.0	22.7	22.4	23.1	23.5	22.0	22.7	22.4	23.1	23.5
	8H	22.3	22.9	22.7	23.3	23.7	22.3	22.9	22.7	23.3	23.7
	12H	22.5	23.0	23.0	23.4	23.9	22.5	23.0	23.0	23.4	23.9
4H	2H	20.8	21.7	21.2	22.0	22.4	20.8	21.7	21.2	22.0	22.4
	3H	21.4	22.1	21.8	22.5	22.9	21.4	22.1	21.8	22.5	22.9
	4H	21.8	22.5	22.3	22.9	23.3	21.8	22.5	22.3	22.9	23.3
	6H	22.5	23.0	23.0	23.4	23.9	22.5	23.0	23.0	23.4	23.9
	8H	22.8	23.3	23.3	23.7	24.2	22.8	23.3	23.3	23.7	24.2
	12H	23.2	23.5	23.7	24.0	24.5	23.2	23.5	23.7	24.0	24.5
8H	4H	22.0	22.5	22.5	22.9	23.4	22.0	22.5	22.5	22.9	23.4
	6H	22.9	23.2	23.4	23.7	24.2	22.9	23.2	23.4	23.7	24.2
	8H	23.3	23.6	23.8	24.1	24.7	23.3	23.6	23.8	24.1	24.7
	12H	23.8	24.0	24.3	24.5	25.1	23.8	24.0	24.3	24.5	25.1
12H	4H	22.1	22.5	22.6	22.9	23.4	22.1	22.5	22.6	22.9	23.4
	6H	23.0	23.3	23.5	23.8	24.3	23.0	23.3	23.5	23.8	24.3
	8H	23.5	23.7	24.0	24.3	24.8	23.5	23.7	24.0	24.3	24.8

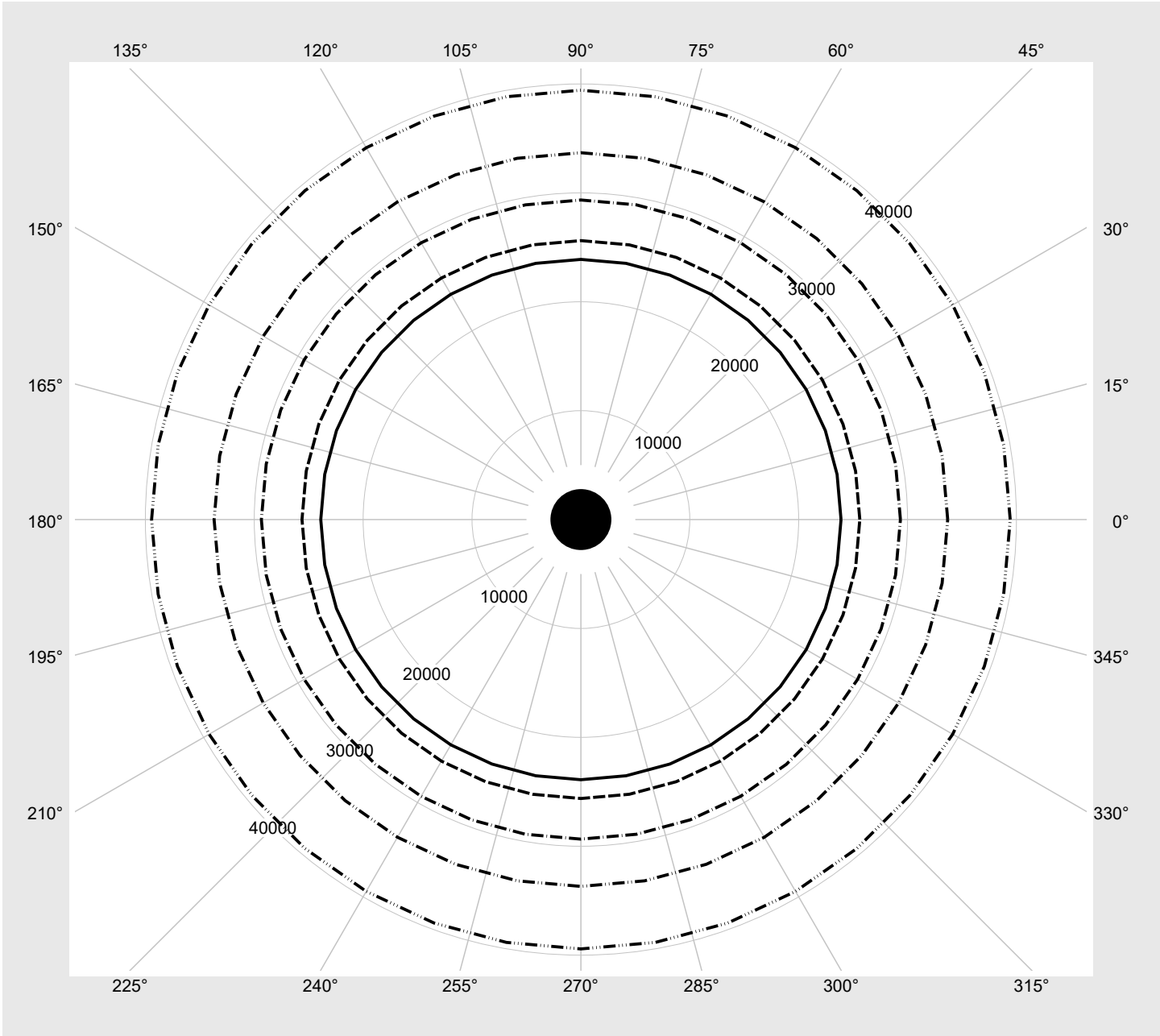
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 79
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C-planes	0°
γ	Luminance in cd/m ²
45°	35519.9
50°	28004.1
55°	25028.6
60°	23577.3
65°	23890.9
70°	25615.5
75°	29346.1
80°	33687.6
85°	39428.4

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



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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	5160	42.4
14	ON	ON	ON	OFF	4960	40.4
13	ON	ON	OFF	ON	4750	38.3
12	ON	ON	OFF	OFF	4540	36.2
11	ON	OFF	ON	ON	4430	34.0
10	ON	OFF	ON	OFF	4090	31.9
9	ON	OFF	OFF	ON	3860	29.9
8	ON	OFF	OFF	OFF	3620	27.5
7	OFF	ON	ON	ON	3430	26.2
6	OFF	ON	ON	OFF	3200	24.3
5	OFF	ON	OFF	ON	2950	22.2
4	OFF	ON	OFF	OFF	2710	20.3
3	OFF	OFF	ON	ON	2420	18.0
2	OFF	OFF	ON	OFF	2170	16.1
1	OFF	OFF	OFF	ON	1900	14.0
0	OFF	OFF	OFF	OFF	1630	12.1