

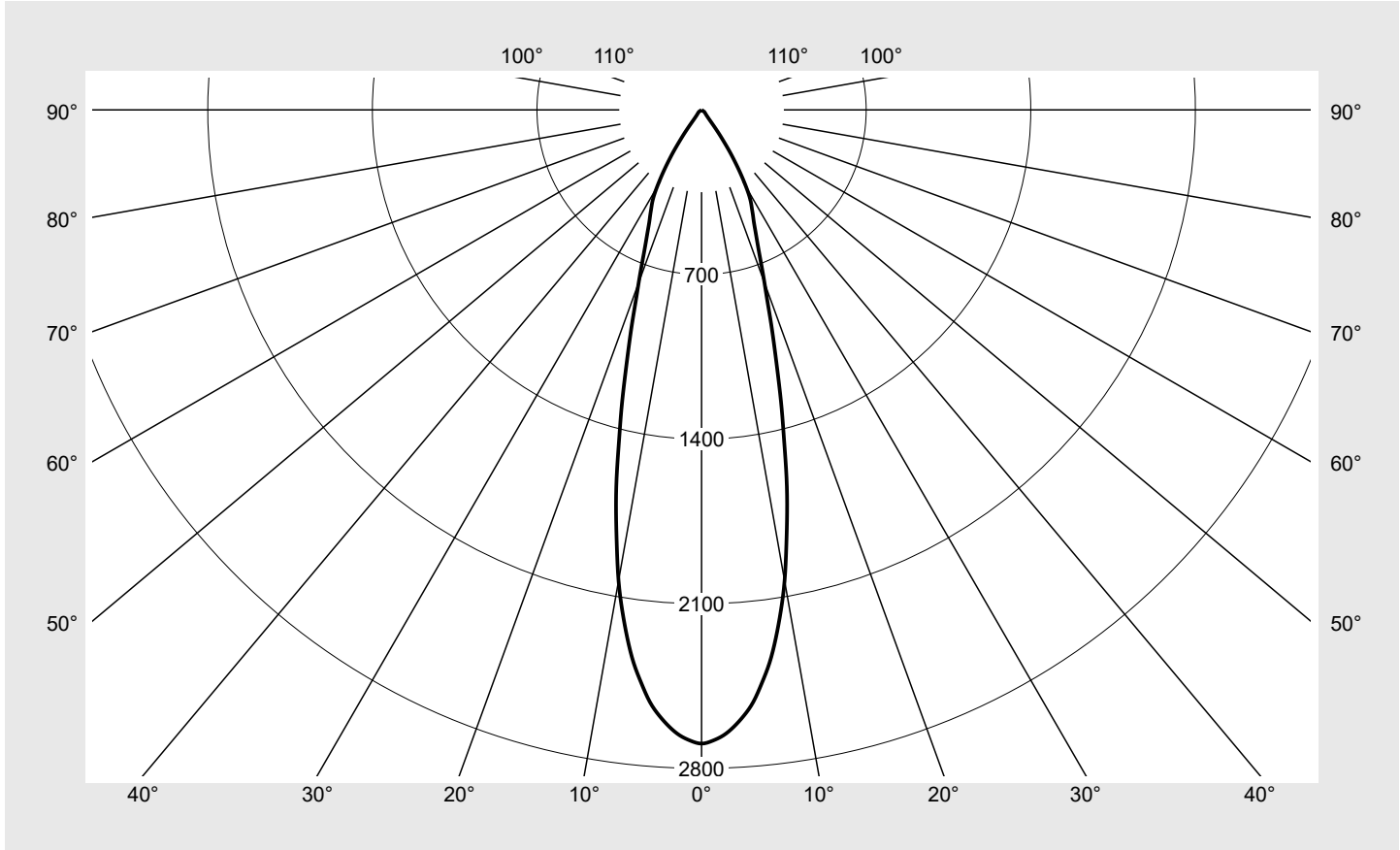


Photometric test report

Family Spot 21	Order number: 51SE13DBA5B EAN: 4058352767818	LP number 59385_19
	Version reflector, cover panel, PC, medium distribution Lamps LED 2700 K CRI ≥ 90 Controlgear ECG-DALI Setting factory setting: DIP-Step=14 Rated values Net luminous flux = 5120 lm Power consumption = 40.4 W Luminous efficacy = 126.7 lm/W	serial documentation 27.02.2023
		

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	20.9	22.0	21.3	22.3	22.6	20.9	22.0	21.3	22.3	22.6
	3H	21.3	22.2	21.7	22.6	22.9	21.3	22.2	21.7	22.6	22.9
	4H	21.6	22.5	22.0	22.8	23.2	21.6	22.5	22.0	22.8	23.2
	6H	22.1	22.8	22.5	23.2	23.6	22.1	22.8	22.5	23.2	23.6
	8H	22.4	23.0	22.8	23.4	23.8	22.4	23.0	22.8	23.4	23.8
	12H	22.6	23.2	23.1	23.5	24.0	22.6	23.2	23.1	23.5	24.0
4H	2H	20.9	21.8	21.3	22.1	22.5	20.9	21.8	21.3	22.1	22.5
	3H	21.5	22.2	21.9	22.6	23.0	21.5	22.2	21.9	22.6	23.0
	4H	22.0	22.6	22.4	23.0	23.4	22.0	22.6	22.4	23.0	23.4
	6H	22.6	23.1	23.1	23.6	24.0	22.6	23.1	23.1	23.6	24.0
	8H	22.9	23.4	23.4	23.9	24.3	22.9	23.4	23.4	23.9	24.3
	12H	23.3	23.6	23.8	24.1	24.6	23.3	23.6	23.8	24.1	24.6
8H	4H	22.2	22.6	22.6	23.1	23.5	22.2	22.6	22.6	23.1	23.5
	6H	23.0	23.3	23.5	23.8	24.3	23.0	23.3	23.5	23.8	24.3
	8H	23.4	23.8	23.9	24.2	24.8	23.4	23.8	23.9	24.2	24.8
	12H	23.9	24.1	24.4	24.6	25.2	23.9	24.1	24.4	24.6	25.2
12H	4H	22.2	22.6	22.7	23.0	23.5	22.2	22.6	22.7	23.0	23.5
	6H	23.1	23.4	23.6	23.9	24.4	23.1	23.4	23.6	23.9	24.4
	8H	23.6	23.9	24.2	24.4	24.9	23.6	23.9	24.2	24.4	24.9

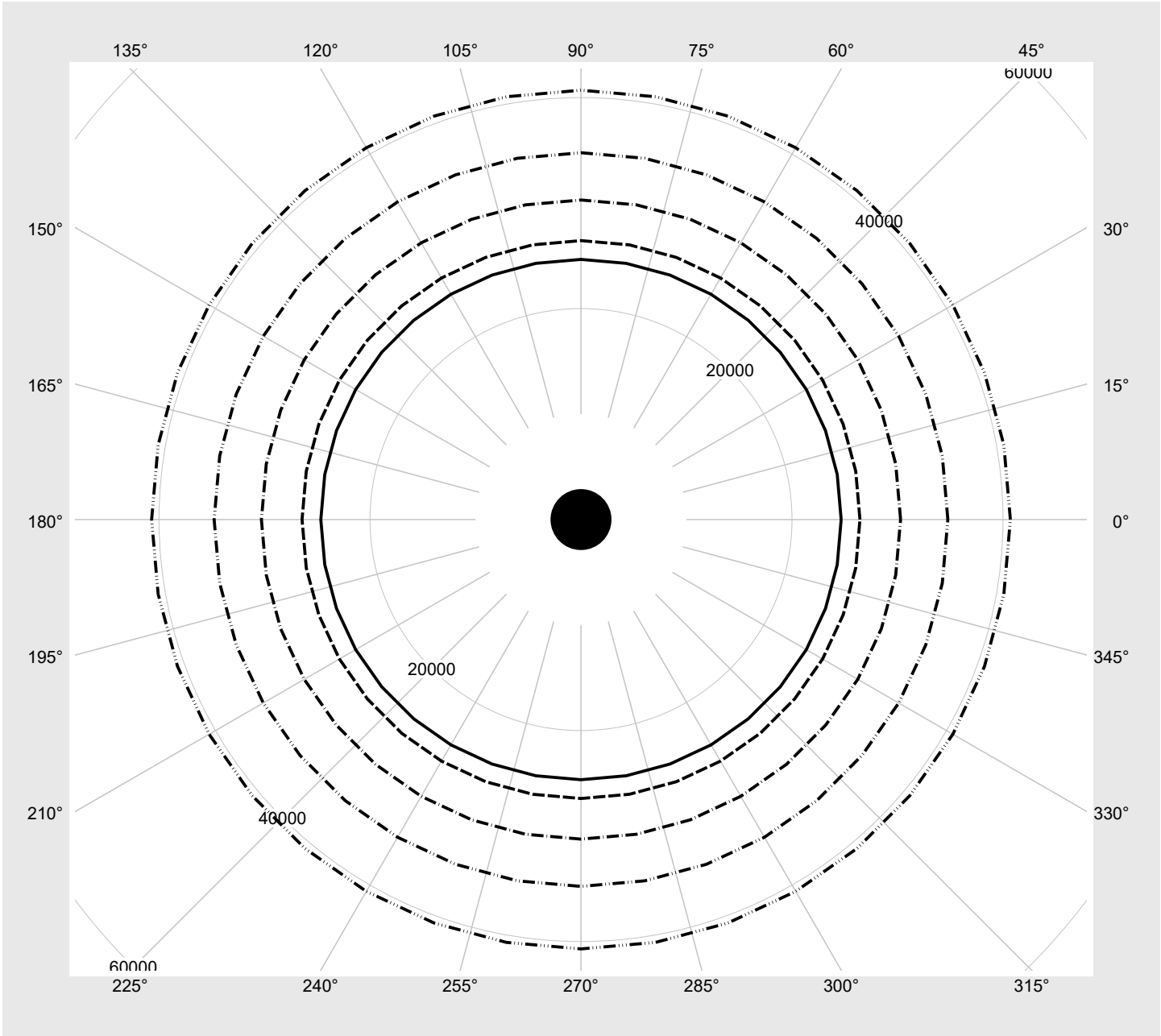
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 79
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C-planes	0°
γ	Luminance in cd/m ²
45°	36665.7
50°	28907.5
55°	25836.0
60°	24337.8
65°	24661.6
70°	26441.8
75°	30292.7
80°	34774.3
85°	40700.3

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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	5190	42.4
14	ON	ON	ON	OFF	5120	40.4
13	ON	ON	OFF	ON	4900	38.4
12	ON	ON	OFF	OFF	4690	36.3
11	ON	OFF	ON	ON	4430	34.1
10	ON	OFF	ON	OFF	4210	32.2
9	ON	OFF	OFF	ON	3980	30.1
8	ON	OFF	OFF	OFF	3730	28.0
7	OFF	ON	ON	ON	3530	26.3
6	OFF	ON	ON	OFF	3300	24.4
5	OFF	ON	OFF	ON	3040	22.3
4	OFF	ON	OFF	OFF	2800	20.4
3	OFF	OFF	ON	ON	2490	18.1
2	OFF	OFF	ON	OFF	2240	16.1
1	OFF	OFF	OFF	ON	1960	14.1
0	OFF	OFF	OFF	OFF	1680	12.2