

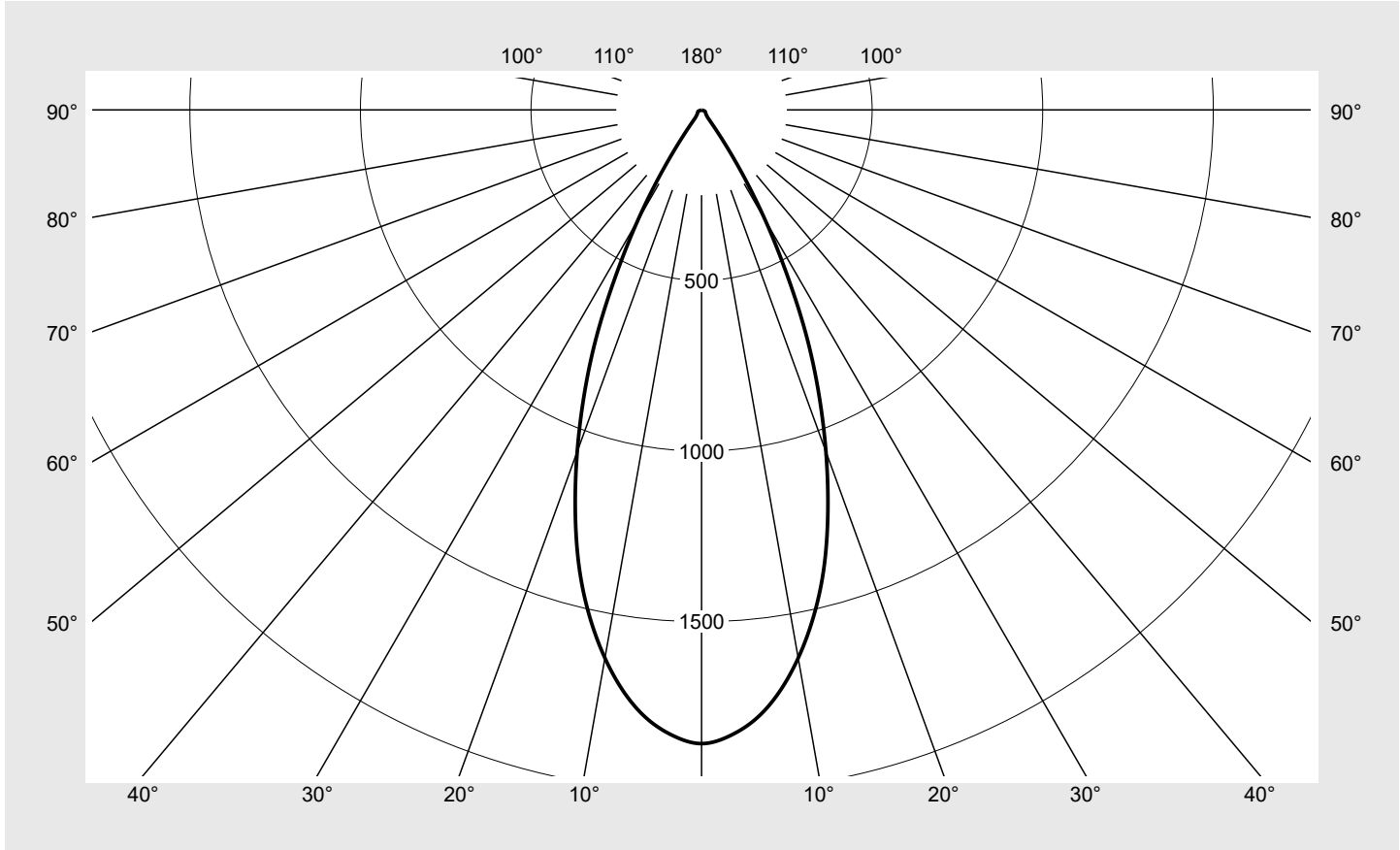


Photometric test report

Family Spot 21 Performance	Order number: 51SD14DB11C3B EAN: 4069025538512	LP number 59944_11										
	<table border="0"> <tr> <td>Version</td> <td>housing, white, reflector, cover glass, transparent, wide distribution</td> </tr> <tr> <td>Lamps</td> <td>LED 3500 K CRI ≥ 90</td> </tr> <tr> <td>Controlgear</td> <td>ECG-DALI-Multilumen</td> </tr> <tr> <td>Setting</td> <td>factory setting: DIP-Step=7</td> </tr> <tr> <td>Rated values</td> <td>Net luminous flux = 3160 lm Power consumption = 20.4 W Luminous efficacy = 154.9 lm/W</td> </tr> </table>	Version	housing, white, reflector, cover glass, transparent, wide distribution	Lamps	LED 3500 K CRI ≥ 90	Controlgear	ECG-DALI-Multilumen	Setting	factory setting: DIP-Step=7	Rated values	Net luminous flux = 3160 lm Power consumption = 20.4 W Luminous efficacy = 154.9 lm/W	serial documentation 11.05.2026 
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Luminous intensity in cd/klm C180-0 **Imax: 1857 cd/klm**



Classifications	
DIN 5040	A 8 0
CIE	N1=95 N2=98 N3=100 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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sITeco

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	
0,0°	1857.4	2.8	2.8
2,5°	1837.5	22.0	24.7
5,0°	1794.2	42.9	67.6
7,5°	1724.8	61.7	129.3
10,0°	1631.4	77.7	207.0
12,5°	1519.0	90.1	297.1
15,0°	1387.1	98.4	395.5
17,5°	1231.3	101.5	497.0
20,0°	1065.8	99.9	597.0
22,5°	896.3	94.0	691.0
25,0°	722.7	83.7	774.7
27,5°	537.6	68.0	842.8
30,0°	373.9	51.3	894.0
32,5°	224.3	33.0	927.1
35,0°	105.2	16.5	943.6
37,5°	39.3	6.6	950.2
40,0°	25.5	4.5	954.6
42,5°	21.3	3.9	958.6
45,0°	18.6	3.6	962.2
47,5°	17.0	3.4	965.6
50,0°	15.9	3.3	969.0
52,5°	15.0	3.3	972.3
55,0°	14.3	3.2	975.5
57,5°	13.6	3.2	978.6
60,0°	12.9	3.1	981.7
62,5°	12.2	3.0	984.7
65,0°	11.3	2.8	987.5
67,5°	10.4	2.6	990.1
70,0°	9.3	2.4	992.5
72,5°	8.1	2.1	994.6
75,0°	6.5	1.7	996.4
77,5°	5.0	1.3	997.7
80,0°	3.8	1.0	998.7
82,5°	2.6	0.7	999.5
85,0°	1.5	0.4	999.9
87,5°	0.5	0.1	1000.0
90,0°	0.0	0.0	1000.0

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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	17.6	18.7	18.0	19.0	19.4	17.6	18.7	18.0	19.0	19.4
	3H	18.4	19.3	18.8	19.7	20.0	18.4	19.3	18.8	19.7	20.0
	4H	18.8	19.6	19.2	20.0	20.4	18.8	19.6	19.2	20.0	20.4
	6H	19.1	19.8	19.5	20.2	20.6	19.1	19.8	19.5	20.2	20.6
	8H	19.3	19.9	19.7	20.3	20.7	19.3	19.9	19.7	20.3	20.7
	12H	19.3	19.8	19.8	20.2	20.7	19.3	19.8	19.8	20.2	20.7
4H	2H	17.8	18.7	18.2	19.0	19.4	17.8	18.7	18.2	19.0	19.4
	3H	18.8	19.5	19.2	19.9	20.3	18.8	19.5	19.2	19.9	20.3
	4H	19.3	19.9	19.8	20.3	20.8	19.3	19.9	19.8	20.3	20.8
	6H	19.7	20.2	20.1	20.6	21.1	19.7	20.2	20.1	20.6	21.1
	8H	19.8	20.3	20.3	20.7	21.2	19.8	20.3	20.3	20.7	21.2
	12H	19.9	20.3	20.4	20.7	21.2	19.9	20.3	20.4	20.7	21.2
8H	4H	19.5	19.9	20.0	20.4	20.9	19.5	19.9	20.0	20.4	20.9
	6H	19.9	20.3	20.5	20.8	21.3	19.9	20.3	20.5	20.8	21.3
	8H	20.1	20.4	20.6	20.9	21.5	20.1	20.4	20.6	20.9	21.5
	12H	20.2	20.5	20.8	21.0	21.5	20.2	20.5	20.8	21.0	21.5
12H	4H	19.5	19.9	20.0	20.3	20.8	19.5	19.9	20.0	20.3	20.8
	6H	20.0	20.3	20.5	20.8	21.3	20.0	20.3	20.5	20.8	21.3
	8H	20.2	20.4	20.7	20.9	21.5	20.2	20.4	20.7	20.9	21.5

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 82
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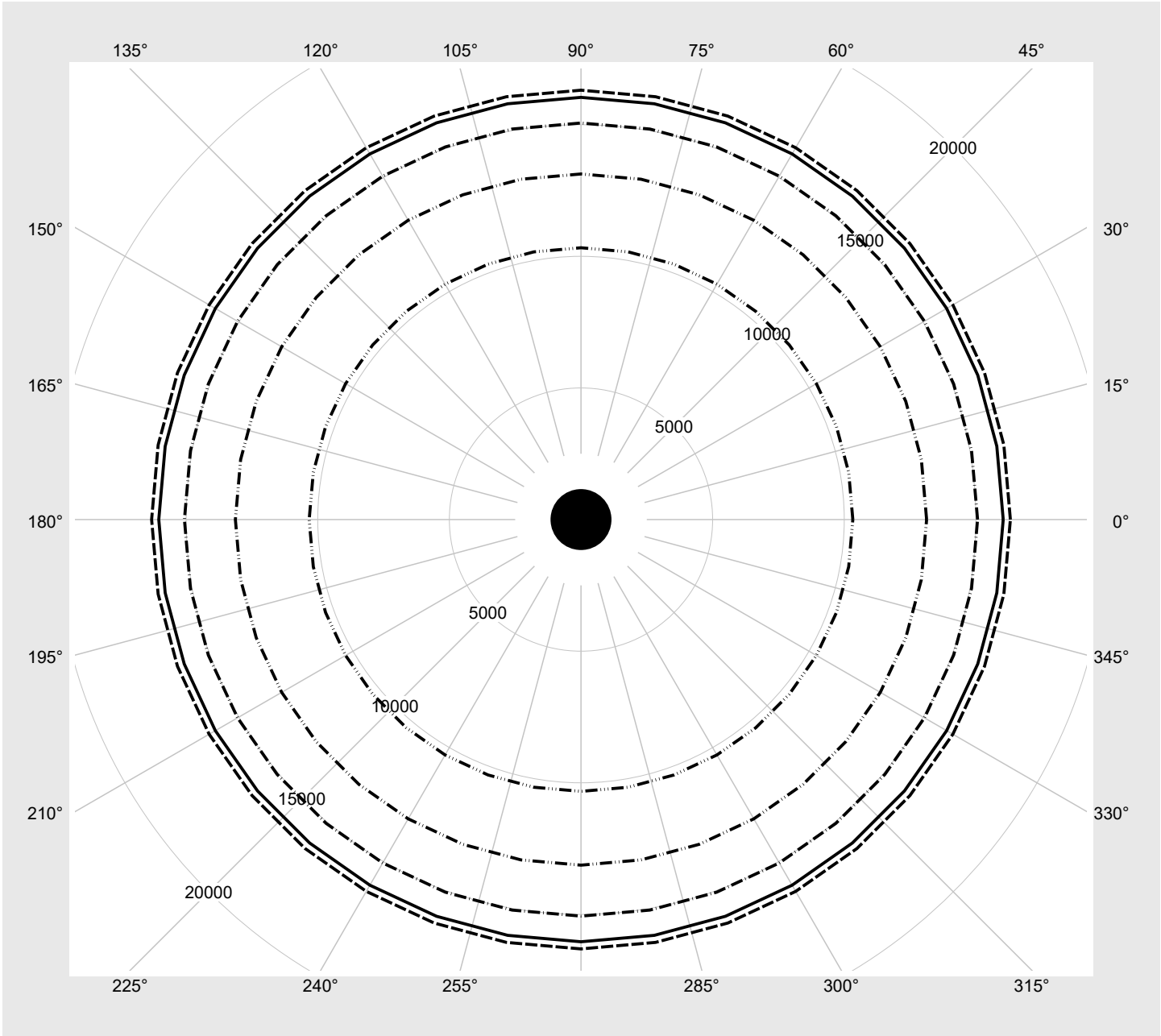
C-planes	0°
γ	Luminance in cd/m²
45,0°	15780.4
50,0°	14838.5
55,0°	14955.7
60,0°	15476.2
65,0°	16038.9
70,0°	16310.7
75,0°	15064.5
80,0°	13128.8
85,0°	10325.7

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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		
11	ON	OFF	ON	ON	4340	28.6
10	ON	OFF	ON	OFF	4050	26.4
9	ON	OFF	OFF	ON	3760	24.4
8	ON	OFF	OFF	OFF	3460	22.3
7	OFF	ON	ON	ON	3160	20.4
6	OFF	ON	ON	OFF	2860	18.3
5	OFF	ON	OFF	ON	2550	16.2
4	OFF	ON	OFF	OFF	2240	14.3
3	OFF	OFF	ON	ON	1930	12.2
2	OFF	OFF	ON	OFF	1610	10.4
1	OFF	OFF	OFF	ON	1290	8.5
0	OFF	OFF	OFF	OFF	960	6.6