

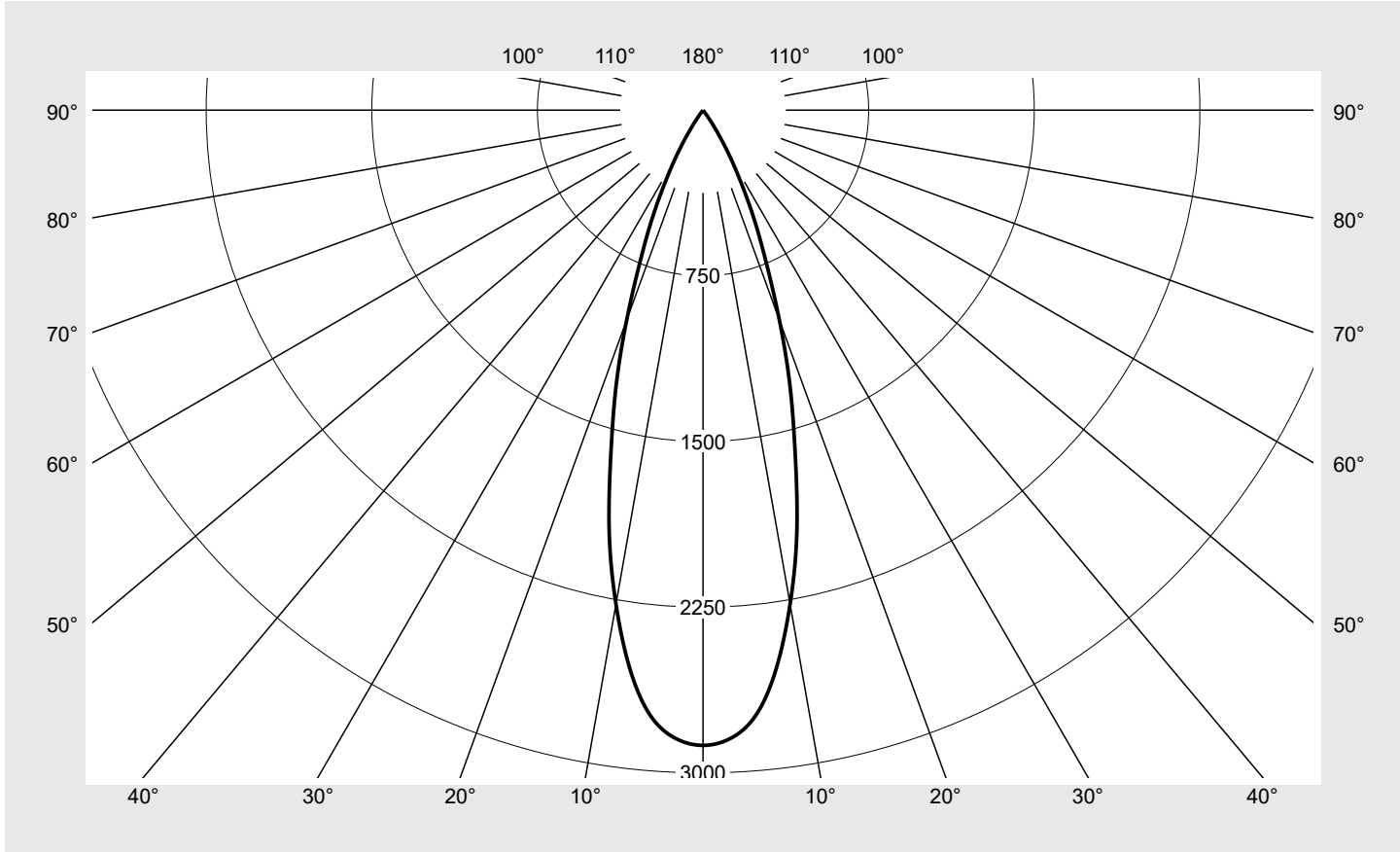


Photometric test report

Family Spot 21 Performance	Order number: 51SD33DB11B3B EAN: 4069025538673	LP number 59945_10										
	<table border="0"> <tr> <td>Version</td> <td>housing, black, reflector, cover glass, transparent, medium distribution</td> </tr> <tr> <td>Lamps</td> <td>LED 3000 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 = 2980 lm Power consumption = 20.4 W Luminous efficacy = 146.1 lm/W</td> </tr> </table>	Version	housing, black, reflector, cover glass, transparent, medium distribution	Lamps	LED 3000 K CRI ≥ 90	Controlgear	ECG-DALI-Multilumen	Setting	factory setting: DIP-Step=7	Rated values	Net luminous flux = 2980 lm Power consumption = 20.4 W Luminous efficacy = 146.1 lm/W	serial documentation 11.05.2026 
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Luminous intensity in cd/klm C180-0 **Imax: 2875 cd/klm**



Classifications	
DIN 5040	A 8 0
CIE	N1=99 N2=100 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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Table of values for luminous intensities	Maximum luminous intensity	sITeco
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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°	2875.4	4.3	4.3
2,5°	2846.8	34.0	38.3
5,0°	2749.2	65.7	104.0
7,5°	2546.8	91.1	195.2
10,0°	2270.6	108.1	303.2
12,5°	1962.1	116.4	419.7
15,0°	1613.1	114.4	534.1
17,5°	1309.8	108.0	642.1
20,0°	1010.8	94.8	736.9
22,5°	749.1	78.6	815.4
25,0°	553.8	64.2	879.6
27,5°	382.5	48.4	928.0
30,0°	247.7	34.0	962.0
32,5°	136.4	20.1	982.0
35,0°	55.9	8.8	990.8
37,5°	13.7	2.3	993.1
40,0°	8.1	1.4	994.5
42,5°	5.6	1.0	995.6
45,0°	4.1	0.8	996.4
47,5°	3.1	0.6	997.0
50,0°	2.4	0.5	997.5
52,5°	2.0	0.4	998.0
55,0°	1.8	0.4	998.4
57,5°	1.7	0.4	998.8
60,0°	1.4	0.3	999.1
62,5°	1.1	0.3	999.4
65,0°	0.9	0.2	999.6
67,5°	0.7	0.2	999.8
70,0°	0.5	0.1	999.9
72,5°	0.3	0.1	1000.0
75,0°	0.1	0.0	1000.0
77,5°	0.0	0.0	1000.0
80,0°	0.0	0.0	1000.0
82,5°	0.0	0.0	1000.0
85,0°	0.0	0.0	1000.0
87,5°	0.0	0.0	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	12.6	13.6	13.0	13.9	14.2	12.6	13.6	13.0	13.9	14.2
	3H	12.5	13.3	12.8	13.6	14.0	12.5	13.3	12.8	13.6	14.0
	4H	12.4	13.1	12.8	13.5	13.9	12.4	13.1	12.8	13.5	13.9
	6H	12.3	13.0	12.7	13.3	13.7	12.3	13.0	12.7	13.3	13.7
	8H	12.4	12.9	12.8	13.3	13.7	12.4	12.9	12.8	13.3	13.7
	12H	12.3	12.8	12.8	13.2	13.6	12.3	12.8	12.8	13.2	13.6
4H	2H	12.4	13.1	12.8	13.5	13.9	12.4	13.1	12.8	13.5	13.9
	3H	12.2	12.8	12.6	13.2	13.6	12.2	12.8	12.6	13.2	13.6
	4H	12.1	12.6	12.5	13.0	13.5	12.1	12.6	12.5	13.0	13.5
	6H	11.9	12.4	12.4	12.8	13.3	11.9	12.4	12.4	12.8	13.3
	8H	11.9	12.3	12.4	12.8	13.2	11.9	12.3	12.4	12.8	13.2
	12H	11.9	12.2	12.4	12.6	13.2	11.9	12.2	12.4	12.6	13.2
8H	4H	11.9	12.3	12.4	12.8	13.2	11.9	12.3	12.4	12.8	13.2
	6H	11.8	12.1	12.3	12.6	13.1	11.8	12.1	12.3	12.6	13.1
	8H	11.7	12.0	12.2	12.5	13.0	11.7	12.0	12.2	12.5	13.0
	12H	11.6	11.9	12.2	12.4	12.9	11.6	11.9	12.2	12.4	12.9
12H	4H	11.9	12.2	12.4	12.7	13.2	11.9	12.2	12.4	12.7	13.2
	6H	11.7	12.0	12.2	12.5	13.0	11.7	12.0	12.2	12.5	13.0
	8H	11.6	11.9	12.2	12.4	12.9	11.6	11.9	12.2	12.4	12.9

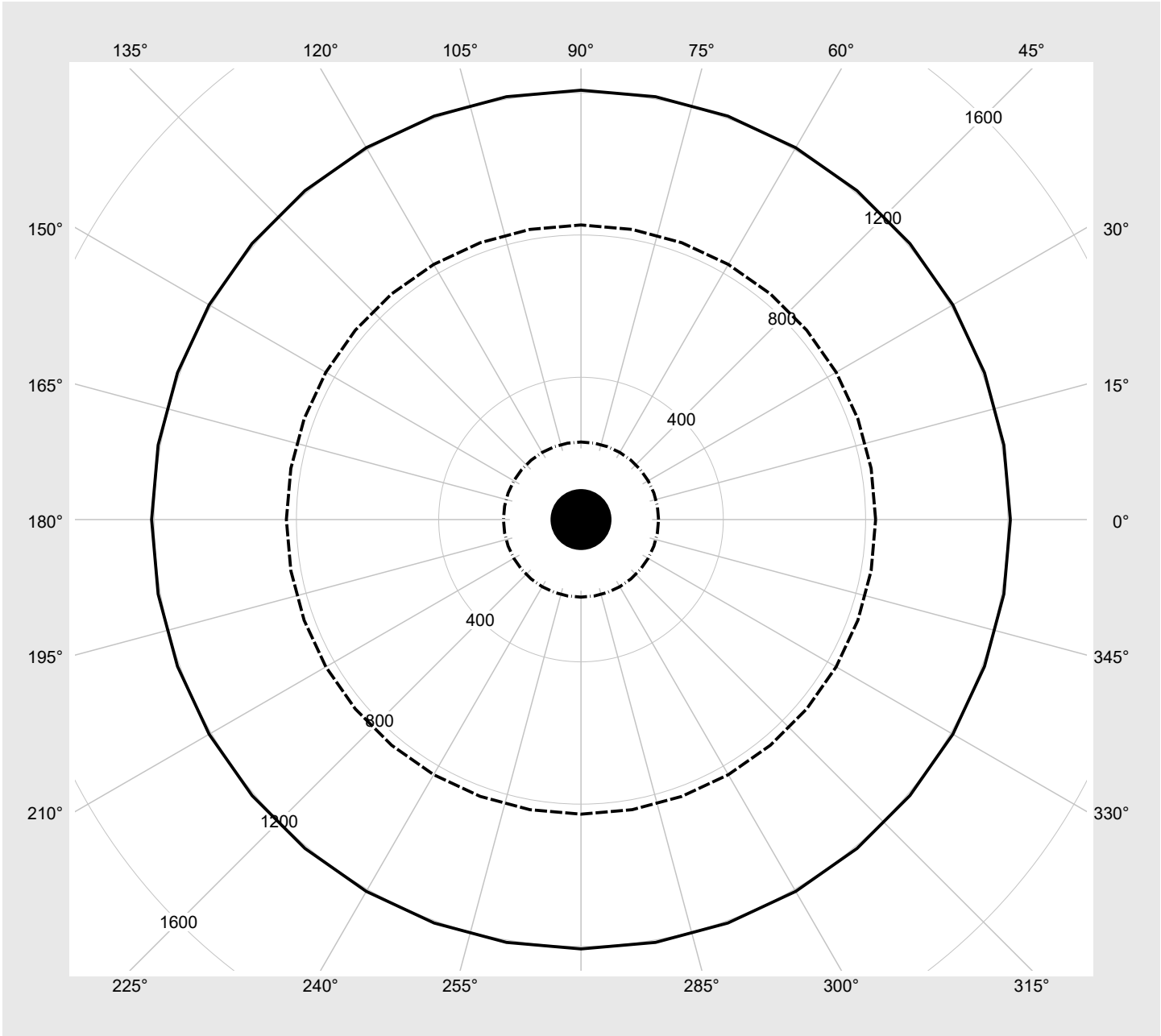
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 82
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C-planes	0°
γ	Luminance in cd/m ²
45,0°	3285.4
50,0°	2115.7
55,0°	1777.7
60,0°	1586.8
65,0°	1207.0
70,0°	828.2
75,0°	218.0
80,0°	0.0
85,0°	0.0

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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	4080	28.6
10	ON	OFF	ON	OFF	3810	26.4
9	ON	OFF	OFF	ON	3530	24.4
8	ON	OFF	OFF	OFF	3260	22.3
7	OFF	ON	ON	ON	2980	20.4
6	OFF	ON	ON	OFF	2690	18.3
5	OFF	ON	OFF	ON	2400	16.2
4	OFF	ON	OFF	OFF	2110	14.3
3	OFF	OFF	ON	ON	1810	12.2
2	OFF	OFF	ON	OFF	1510	10.4
1	OFF	OFF	OFF	ON	1210	8.5
0	OFF	OFF	OFF	OFF	900	6.6