

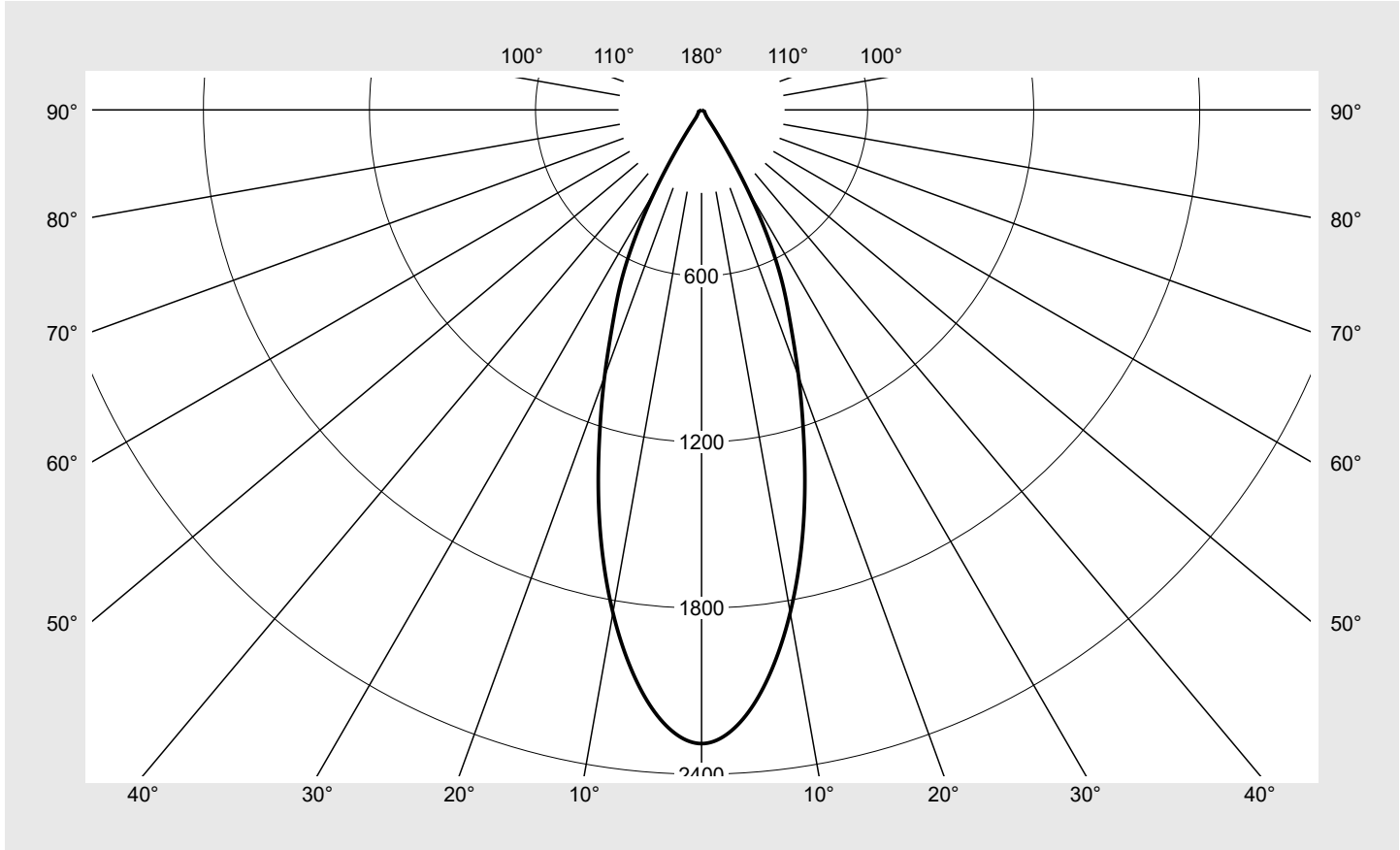


Photometric test report

Family Spot 21 Standard	Order number: 51SE13DB11D2C EAN: 4069025446992	LP number 59929_34										
	<table border="0"> <tr> <td>Version</td> <td>housing, white, reflector, cover glass, transparent, medium distribution</td> </tr> <tr> <td>Lamps</td> <td>LED 4000 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 = 3020 lm Power consumption = 19.8 W Luminous efficacy = 152.5 lm/W</td> </tr> </table>	Version	housing, white, reflector, cover glass, transparent, medium distribution	Lamps	LED 4000 K CRI ≥ 90	Controlgear	ECG-DALI-Multilumen	Setting	factory setting: DIP-Step=7	Rated values	Net luminous flux = 3020 lm Power consumption = 19.8 W Luminous efficacy = 152.5 lm/W	serial documentation 11.05.2026 
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Luminous intensity in cd/klm C180-0 **Imax: 2290 cd/klm**



Classifications	
DIN 5040	A 8 0
CIE	N1=96 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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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°	2289.5	3.4	3.4
2,5°	2252.9	26.9	30.4
5,0°	2156.9	51.5	81.9
7,5°	2016.0	72.1	154.0
10,0°	1844.4	87.8	241.8
12,5°	1650.3	97.9	339.8
15,0°	1440.1	102.2	441.9
17,5°	1224.6	100.9	542.9
20,0°	1024.7	96.1	639.0
22,5°	841.7	88.3	727.2
25,0°	691.4	80.1	807.3
27,5°	518.9	65.7	873.0
30,0°	329.4	45.2	918.2
32,5°	151.6	22.3	940.5
35,0°	46.4	7.3	947.8
37,5°	28.4	4.7	952.6
40,0°	23.2	4.1	956.6
42,5°	20.2	3.7	960.4
45,0°	18.0	3.5	963.9
47,5°	16.3	3.3	967.1
50,0°	15.1	3.2	970.3
52,5°	14.3	3.1	973.4
55,0°	13.6	3.1	976.5
57,5°	13.0	3.0	979.5
60,0°	12.3	2.9	982.5
62,5°	11.6	2.8	985.3
65,0°	10.9	2.7	988.0
67,5°	9.9	2.5	990.5
70,0°	8.9	2.3	992.8
72,5°	7.7	2.0	994.8
75,0°	6.2	1.6	996.5
77,5°	4.8	1.3	997.8
80,0°	3.6	1.0	998.7
82,5°	2.5	0.7	999.4
85,0°	1.5	0.4	999.8
87,5°	0.6	0.2	1000.0
90,0°	0.0	0.0	1000.0

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UGR-Table		Standard room									
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	15.7	16.7	16.0	17.0	17.4	15.7	16.7	16.0	17.0	17.4
	3H	16.9	17.8	17.3	18.1	18.5	16.9	17.8	17.3	18.1	18.5
	4H	17.4	18.2	17.8	18.6	19.0	17.4	18.2	17.8	18.6	19.0
	6H	17.8	18.5	18.2	18.9	19.3	17.8	18.5	18.2	18.9	19.3
	8H	18.0	18.6	18.5	19.0	19.4	18.0	18.6	18.5	19.0	19.4
	12H	18.1	18.6	18.5	19.0	19.4	18.1	18.6	18.5	19.0	19.4
4H	2H	16.1	16.9	16.5	17.3	17.6	16.1	16.9	16.5	17.3	17.6
	3H	17.5	18.2	17.9	18.6	19.0	17.5	18.2	17.9	18.6	19.0
	4H	18.1	18.7	18.6	19.2	19.6	18.1	18.7	18.6	19.2	19.6
	6H	18.6	19.1	19.0	19.6	20.0	18.6	19.1	19.0	19.6	20.0
	8H	18.8	19.2	19.3	19.7	20.2	18.8	19.2	19.3	19.7	20.2
	12H	18.9	19.2	19.4	19.7	20.2	18.9	19.2	19.4	19.7	20.2
8H	4H	18.4	18.8	18.9	19.3	19.8	18.4	18.8	18.9	19.3	19.8
	6H	19.0	19.3	19.5	19.8	20.3	19.0	19.3	19.5	19.8	20.3
	8H	19.1	19.5	19.7	20.0	20.5	19.1	19.5	19.7	20.0	20.5
	12H	19.3	19.5	19.8	20.1	20.6	19.3	19.5	19.8	20.1	20.6
12H	4H	18.4	18.7	18.9	19.2	19.7	18.4	18.7	18.9	19.2	19.7
	6H	19.0	19.3	19.5	19.8	20.3	19.0	19.3	19.5	19.8	20.3
	8H	19.2	19.5	19.7	20.0	20.5	19.2	19.5	19.7	20.0	20.5

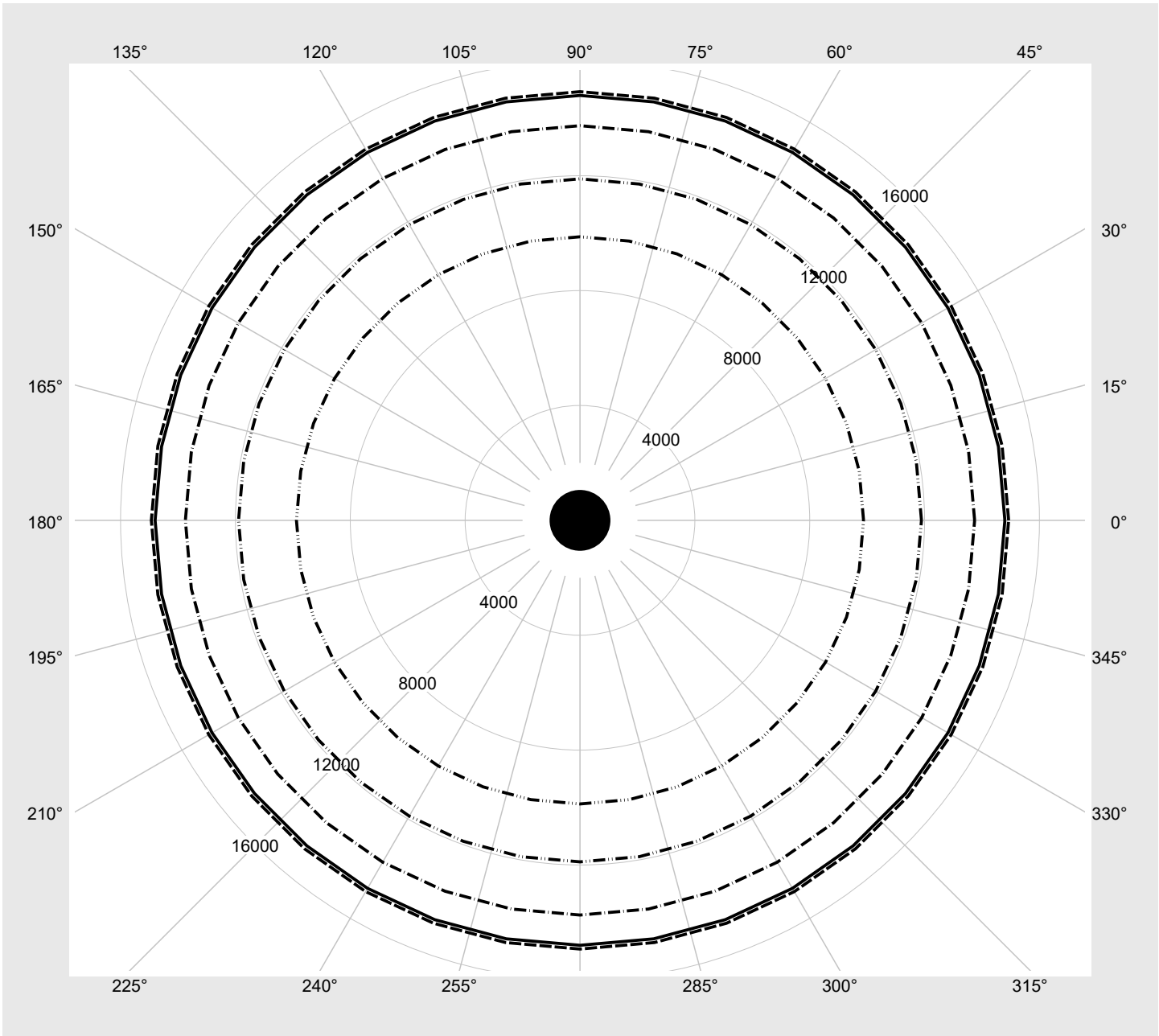
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 82
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C-planes	0°
γ	Luminance in cd/m ²
45,0°	14522.4
50,0°	13476.5
55,0°	13602.2
60,0°	14112.3
65,0°	14796.5
70,0°	14927.7
75,0°	13743.1
80,0°	11891.8
85,0°	9874.8

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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	
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DIP-Step	Switch Setting				Luminous flux [lm]	Power consumption [W]
	1	2	3	4		
11	ON	OFF	ON	ON	4070	28.1
10	ON	OFF	ON	OFF	3820	25.9
9	ON	OFF	OFF	ON	3560	23.8
8	ON	OFF	OFF	OFF	3290	21.7
7	OFF	ON	ON	ON	3020	19.8
6	OFF	ON	ON	OFF	2740	17.7
5	OFF	ON	OFF	ON	2460	15.7
4	OFF	ON	OFF	OFF	2170	13.8
3	OFF	OFF	ON	ON	1880	11.7
2	OFF	OFF	ON	OFF	1570	9.9
1	OFF	OFF	OFF	ON	1260	8.1
0	OFF	OFF	OFF	OFF	940	6.2