

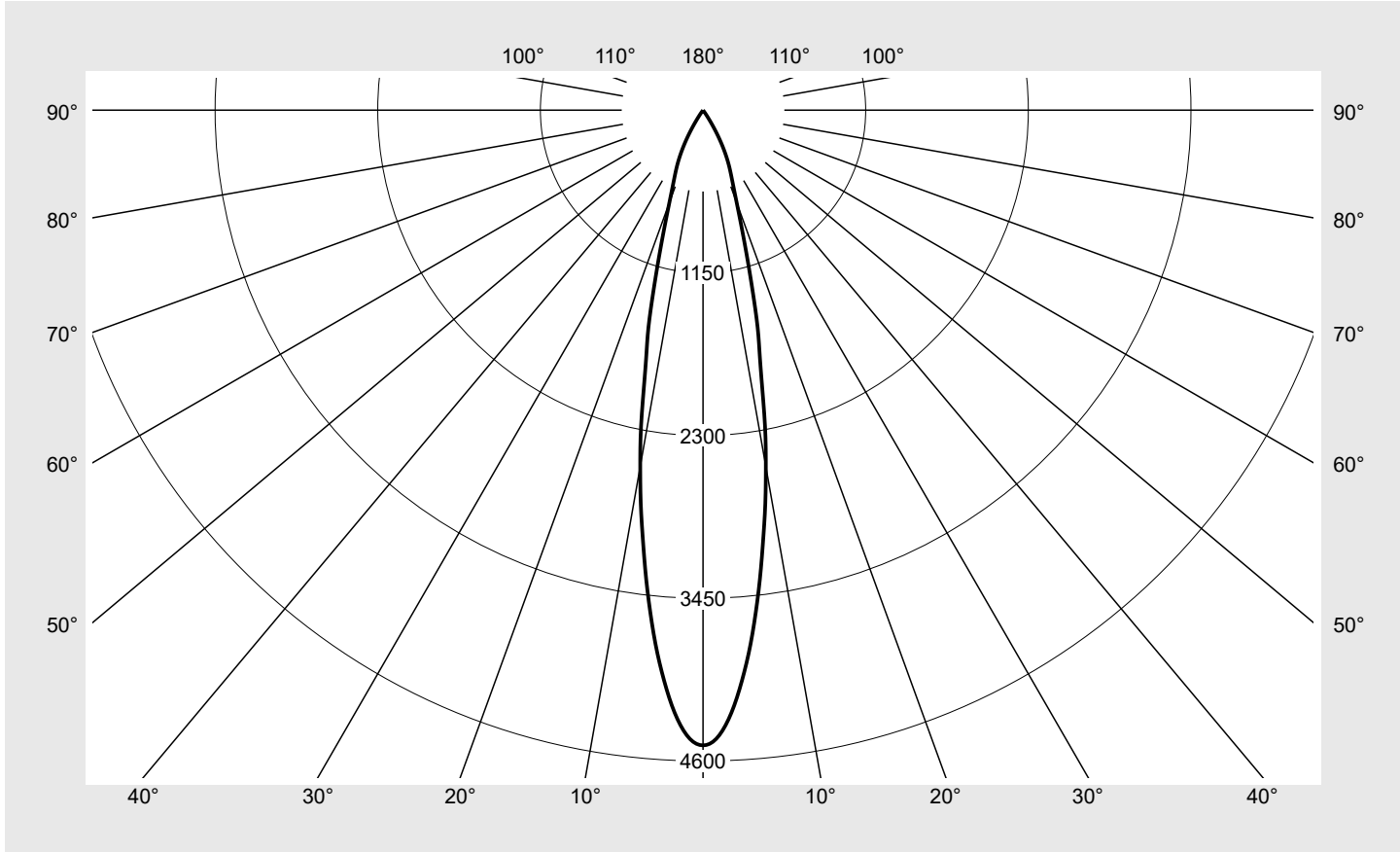


Photometric test report

Family Spot 21 Standard	Order number: 51SE12MB11C2C EAN: 4069025446909	LP number 59919_29										
	<table border="0"> <tr> <td>Version</td> <td>housing, white, reflector, cover glass, transparent, narrow distribution</td> </tr> <tr> <td>Lamps</td> <td>LED 3500 K CRI ≥ 90</td> </tr> <tr> <td>Controlgear</td> <td>ECG Multilumen</td> </tr> <tr> <td>Setting</td> <td>factory setting: DIP-Step=4</td> </tr> <tr> <td>Rated values</td> <td>Net luminous flux = 3000 lm Power consumption = 18.5 W Luminous efficacy = 162.2 lm/W</td> </tr> </table>	Version	housing, white, reflector, cover glass, transparent, narrow distribution	Lamps	LED 3500 K CRI ≥ 90	Controlgear	ECG Multilumen	Setting	factory setting: DIP-Step=4	Rated values	Net luminous flux = 3000 lm Power consumption = 18.5 W Luminous efficacy = 162.2 lm/W	serial documentation 11.05.2026
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Luminous intensity in cd/klm C180-0 **Imax: 4489 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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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°	4489.5	1.1	1.1
1°	4458.6	8.5	9.6
2°	4362.9	16.7	26.3
3°	4213.2	24.2	50.5
4°	4022.2	30.8	81.3
5°	3808.9	36.4	117.7
6°	3568.3	40.9	158.6
7°	3317.2	44.3	202.9
8°	3058.8	46.7	249.6
9°	2814.7	48.3	297.9
10°	2557.1	48.7	346.6
11°	2304.4	48.2	394.8
12°	2017.1	46.0	440.8
13°	1784.0	44.0	484.8
14°	1604.7	42.6	527.3
15°	1395.8	126.6	653.9
20°	696.2	130.5	784.4
25°	435.5	100.9	885.3
30°	217.1	59.5	944.8
35°	31.8	10.0	954.8
40°	19.0	6.7	961.5
45°	15.4	6.0	967.4
50°	13.5	5.7	973.1
55°	12.4	5.6	978.7
60°	11.7	5.6	984.2
65°	10.6	5.3	989.5
70°	8.8	4.5	994.0
75°	6.2	3.3	997.3
80°	3.5	1.9	999.2
85°	1.5	0.8	1000.0
90°	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	14.3	15.3	14.6	15.6	15.9	14.3	15.3	14.6	15.6	15.9
	3H	16.0	16.8	16.4	17.1	17.5	16.0	16.8	16.4	17.1	17.5
	4H	16.6	17.4	17.0	17.8	18.1	16.6	17.4	17.0	17.8	18.1
	6H	17.1	17.8	17.5	18.2	18.5	17.1	17.8	17.5	18.2	18.5
	8H	17.3	17.9	17.7	18.3	18.7	17.3	17.9	17.7	18.3	18.7
	12H	17.4	17.9	17.8	18.3	18.7	17.4	17.9	17.8	18.3	18.7
4H	2H	14.9	15.7	15.3	16.0	16.4	14.9	15.7	15.3	16.0	16.4
	3H	16.7	17.4	17.2	17.8	18.2	16.7	17.4	17.2	17.8	18.2
	4H	17.5	18.1	18.0	18.5	19.0	17.5	18.1	18.0	18.5	19.0
	6H	18.0	18.5	18.5	19.0	19.5	18.0	18.5	18.5	19.0	19.5
	8H	18.2	18.7	18.7	19.1	19.6	18.2	18.7	18.7	19.1	19.6
	12H	18.3	18.7	18.8	19.2	19.7	18.3	18.7	18.8	19.2	19.7
8H	4H	17.8	18.2	18.3	18.7	19.2	17.8	18.2	18.3	18.7	19.2
	6H	18.4	18.8	19.0	19.3	19.8	18.4	18.8	19.0	19.3	19.8
	8H	18.6	19.0	19.2	19.5	20.0	18.6	19.0	19.2	19.5	20.0
	12H	18.8	19.1	19.3	19.6	20.1	18.8	19.1	19.3	19.6	20.1
12H	4H	17.8	18.2	18.3	18.6	19.1	17.8	18.2	18.3	18.6	19.1
	6H	18.4	18.8	18.9	19.3	19.8	18.4	18.8	18.9	19.3	19.8
	8H	18.7	19.0	19.2	19.5	20.0	18.7	19.0	19.2	19.5	20.0

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°	12394.5
50°	11941.4
55°	12284.0
60°	13289.5
65°	14232.1
70°	14571.4
75°	13500.6
80°	11544.8
85°	9861.6

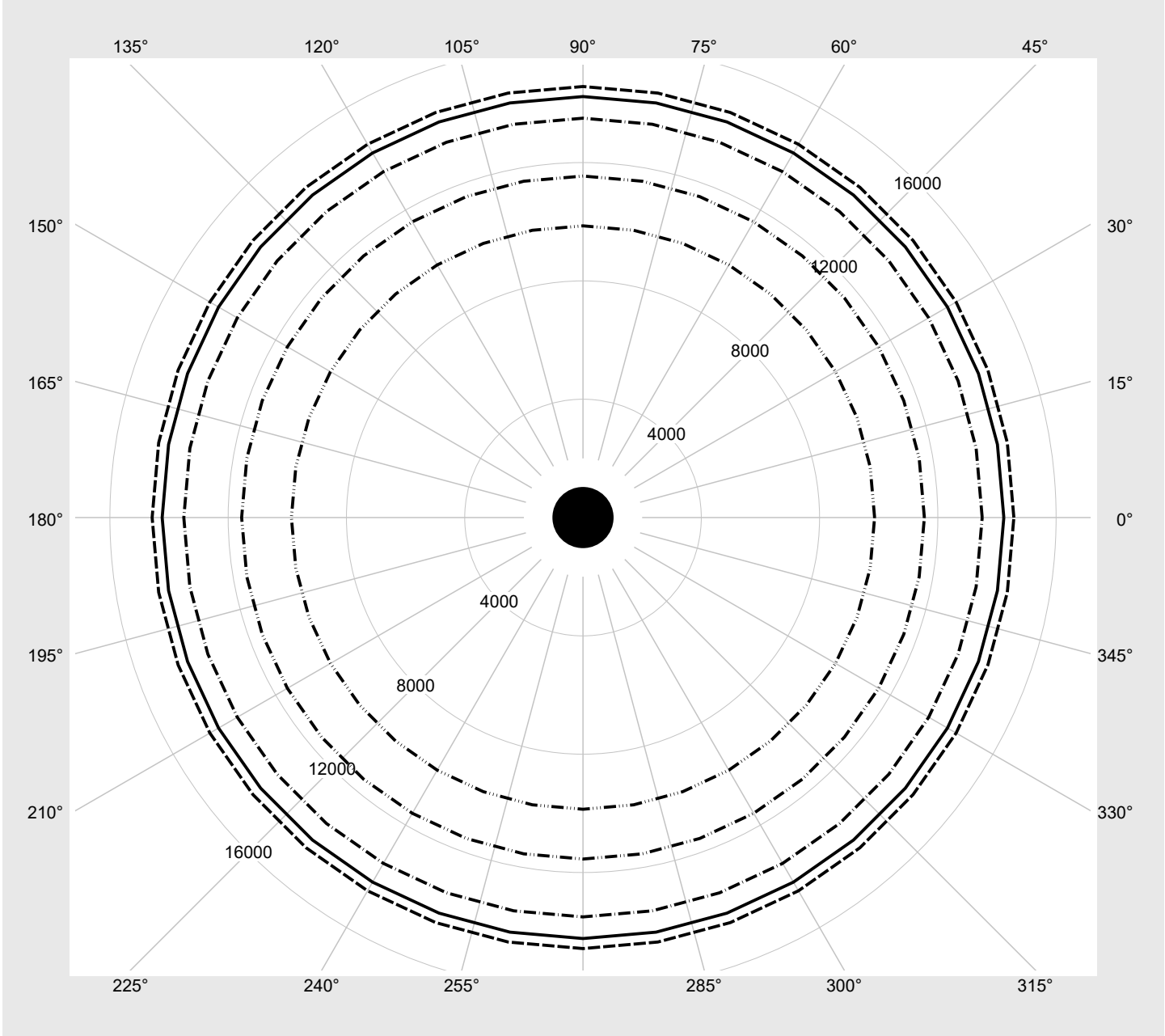
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Luminance values in cd/m²

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		
0	OFF	OFF	OFF	4050	26.5
1	ON	OFF	OFF	3800	24.5
2	OFF	ON	OFF	3540	22.5
3	ON	ON	OFF	3270	20.5
4	OFF	OFF	ON	3000	18.5
5	ON	OFF	ON	2730	16.6
6	OFF	ON	ON	2450	14.8
7	ON	ON	ON	2160	12.9