

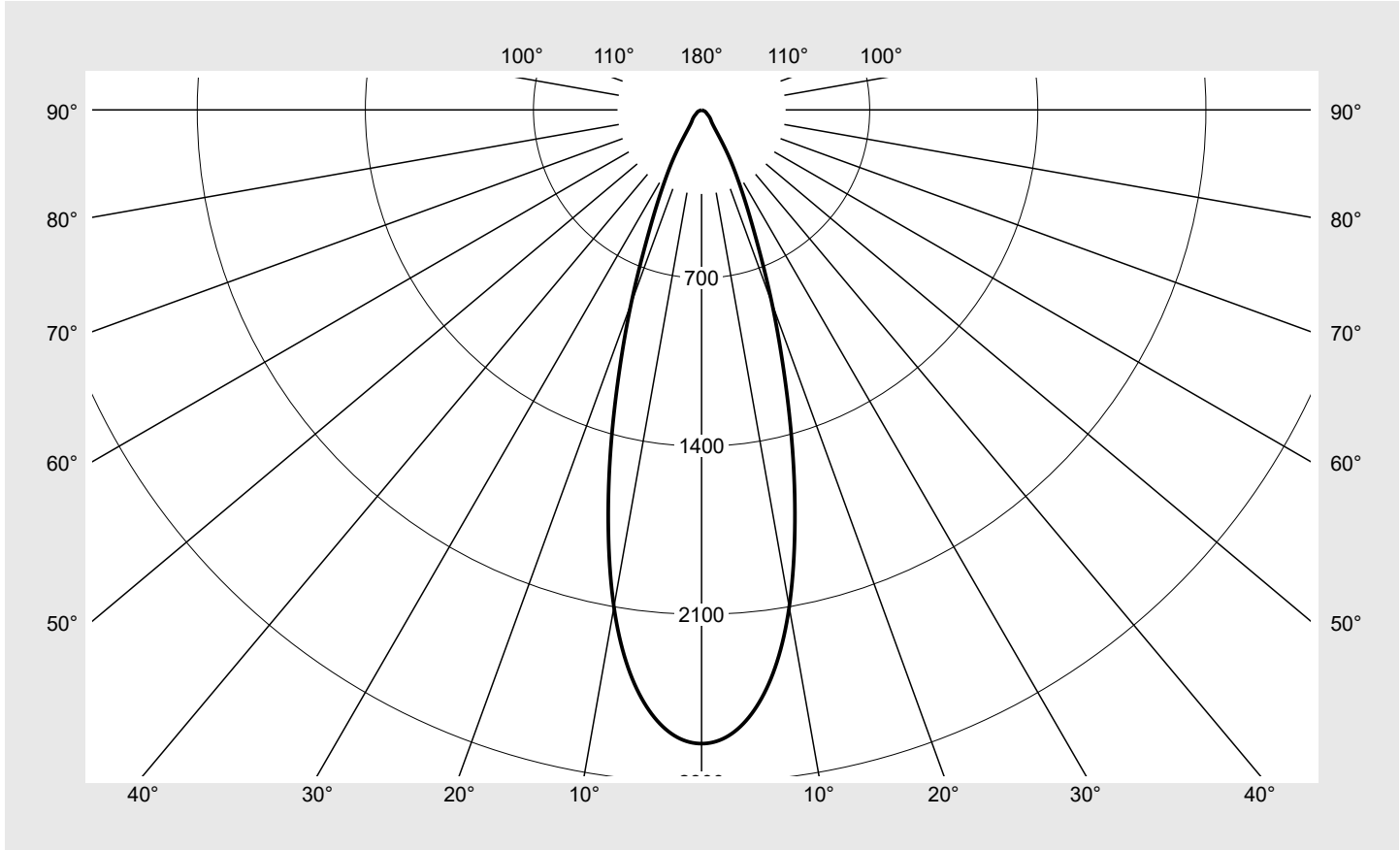


# Photometric test report

<b>Family</b> <b>Spot 21 Standard</b>	<b>Order number: 51SE13MA2CB2C</b> <b>EAN: 4069025447012</b>	<b>LP number</b> <b>59938_10</b>
	<b>Version</b> housing, white, reflector, lens PMMA, wide distribution <b>Lamps</b> LED 3000 K   CRI ≥ 90 <b>Controlgear</b> ECG Multilumen <b>Setting</b> factory setting: DIP-Step=6 <b>Rated values</b> Net luminous flux = 2220 lm Power consumption = 14.8 W Luminous efficacy = 150 lm/W	<b>serial documentation</b> <b>11.05.2026</b>
		

**Luminous intensity in cd/klm** C180-0 **Imax: 2638 cd/klm**



Classifications	
DIN 5040	A 8 0
CIE	N1=92 N2=98 N3=100 N4=100 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	100.0%
$\phi_o$	0.0%

**Measurement conditions**  
DIN EN 13032 and DIN 5032

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**sitEco**

<b>Table of values for luminous intensities</b>	<b>Maximum luminous intensity</b>
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C-planes	0°	Phi-zone	Total Phi-zone
$\gamma$	Luminous intensity in cd/klm	Luminous flux in lm/klm	
0,0°	2638.3	3.9	3.9
2,5°	2607.2	31.2	35.1
5,0°	2509.4	60.0	95.1
7,5°	2342.7	83.8	178.9
10,0°	2101.4	100.0	278.9
12,5°	1793.5	106.4	385.4
15,0°	1462.2	103.7	489.1
17,5°	1137.7	93.8	582.9
20,0°	857.0	80.4	663.2
22,5°	616.7	64.7	727.9
25,0°	449.1	52.0	780.0
27,5°	328.3	41.6	821.5
30,0°	236.7	32.4	854.0
32,5°	154.3	22.7	876.7
35,0°	101.7	16.0	892.7
37,5°	76.7	12.8	905.5
40,0°	64.2	11.3	916.8
42,5°	57.3	10.6	927.4
45,0°	51.1	9.9	937.3
47,5°	44.6	9.0	946.3
50,0°	37.9	8.0	954.3
52,5°	31.6	6.9	961.2
55,0°	26.8	6.0	967.2
57,5°	24.1	5.6	972.7
60,0°	21.5	5.1	977.8
62,5°	18.8	4.6	982.4
65,0°	15.7	3.9	986.3
67,5°	12.6	3.2	989.5
70,0°	10.1	2.6	992.1
72,5°	8.3	2.2	994.3
75,0°	6.8	1.8	996.1
77,5°	5.4	1.5	997.5
80,0°	4.1	1.1	998.7
82,5°	2.8	0.8	999.4
85,0°	1.6	0.4	999.9
87,5°	0.5	0.1	1000.0
90,0°	0.0	0.0	1000.0

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<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
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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	20.2	21.3	20.5	21.6	21.9	20.2	21.3	20.5	21.6	21.9
	3H	20.8	21.8	21.2	22.1	22.4	20.8	21.8	21.2	22.1	22.4
	4H	21.0	21.9	21.4	22.3	22.6	21.0	21.9	21.4	22.3	22.6
	6H	21.3	22.0	21.7	22.4	22.8	21.3	22.0	21.7	22.4	22.8
	8H	21.4	22.0	21.8	22.4	22.8	21.4	22.0	21.8	22.4	22.8
	12H	21.4	22.0	21.9	22.4	22.8	21.4	22.0	21.9	22.4	22.8
4H	2H	20.5	21.3	20.9	21.7	22.0	20.5	21.3	20.9	21.7	22.0
	3H	21.2	21.9	21.6	22.3	22.7	21.2	21.9	21.6	22.3	22.7
	4H	21.5	22.1	22.0	22.6	23.0	21.5	22.1	22.0	22.6	23.0
	6H	21.8	22.3	22.3	22.7	23.2	21.8	22.3	22.3	22.7	23.2
	8H	21.9	22.3	22.4	22.8	23.3	21.9	22.3	22.4	22.8	23.3
	12H	22.0	22.3	22.5	22.8	23.3	22.0	22.3	22.5	22.8	23.3
8H	4H	21.6	22.1	22.1	22.5	23.0	21.6	22.1	22.1	22.5	23.0
	6H	22.0	22.3	22.5	22.8	23.3	22.0	22.3	22.5	22.8	23.3
	8H	22.1	22.4	22.6	22.9	23.4	22.1	22.4	22.6	22.9	23.4
	12H	22.2	22.4	22.7	22.9	23.5	22.2	22.4	22.7	22.9	23.5
12H	4H	21.6	22.0	22.1	22.5	23.0	21.6	22.0	22.1	22.5	23.0
	6H	22.0	22.3	22.5	22.8	23.3	22.0	22.3	22.5	22.8	23.3
	8H	22.1	22.4	22.6	22.9	23.4	22.1	22.4	22.6	22.9	23.4

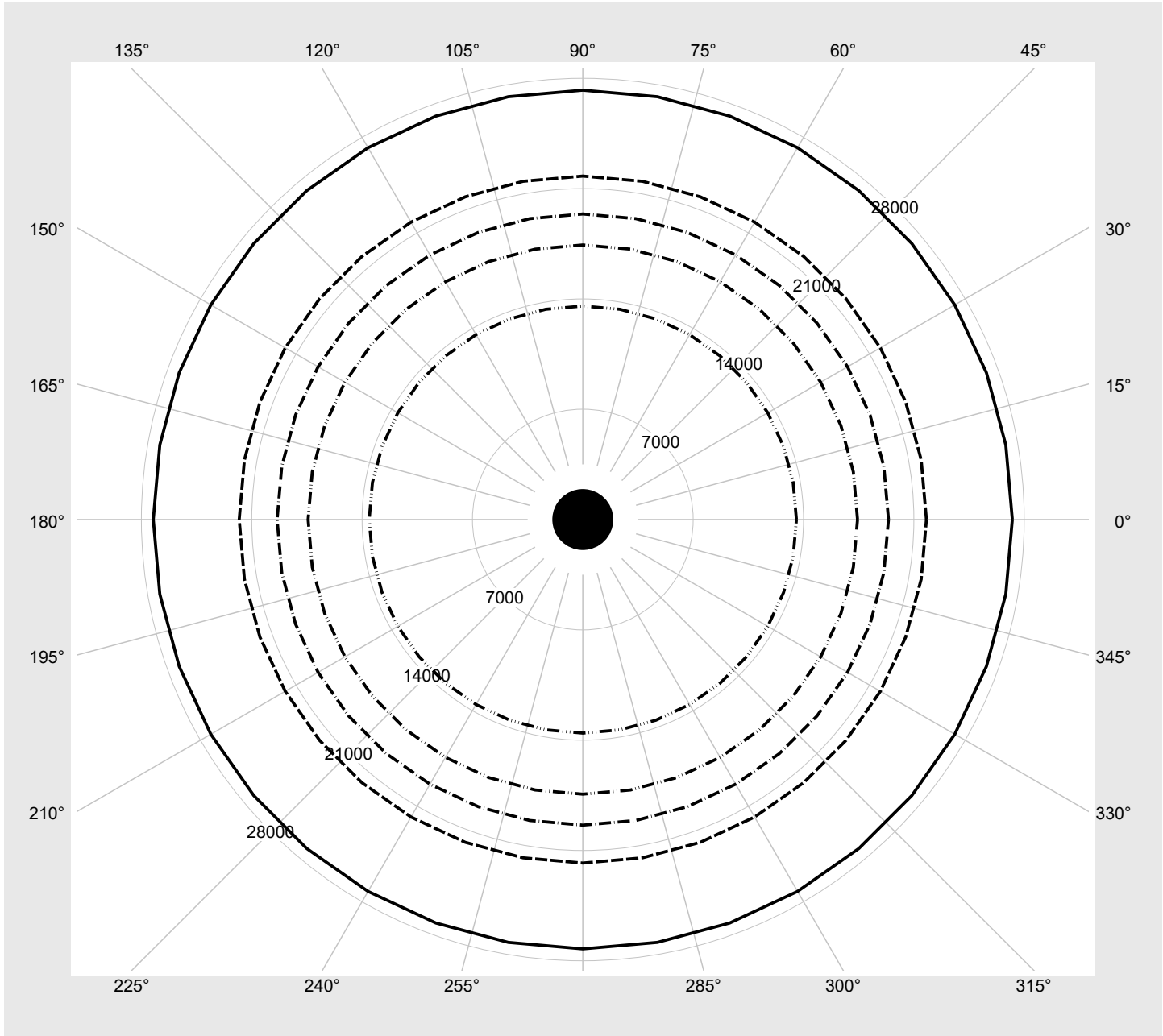
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm: D = 62</b>
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<b>C-planes</b>	<b>0°</b>
$\gamma$	<b>Luminance in cd/m<sup>2</sup></b>
45,0°	53129.9
50,0°	43403.1
55,0°	34357.6
60,0°	31589.6
65,0°	27245.5
70,0°	21796.2
75,0°	19390.4
80,0°	17425.3
85,0°	13549.7

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**Luminance values in cd/m<sup>2</sup>**       $\gamma$  65°      $\gamma$  70°      $\gamma$  75°      $\gamma$  80°      $\gamma$  85°



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<b>Multilumen Table</b>	environmental temperature: 25°C	<b>sITeco</b>
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
0	OFF	OFF	OFF	3660	26.5
1	ON	OFF	OFF	3430	24.4
2	OFF	ON	OFF	3200	22.4
3	ON	ON	OFF	2960	20.4
4	OFF	OFF	ON	2720	18.5
5	ON	OFF	ON	2470	16.5
6	OFF	ON	ON	2220	14.8
7	ON	ON	ON	1960	12.8