

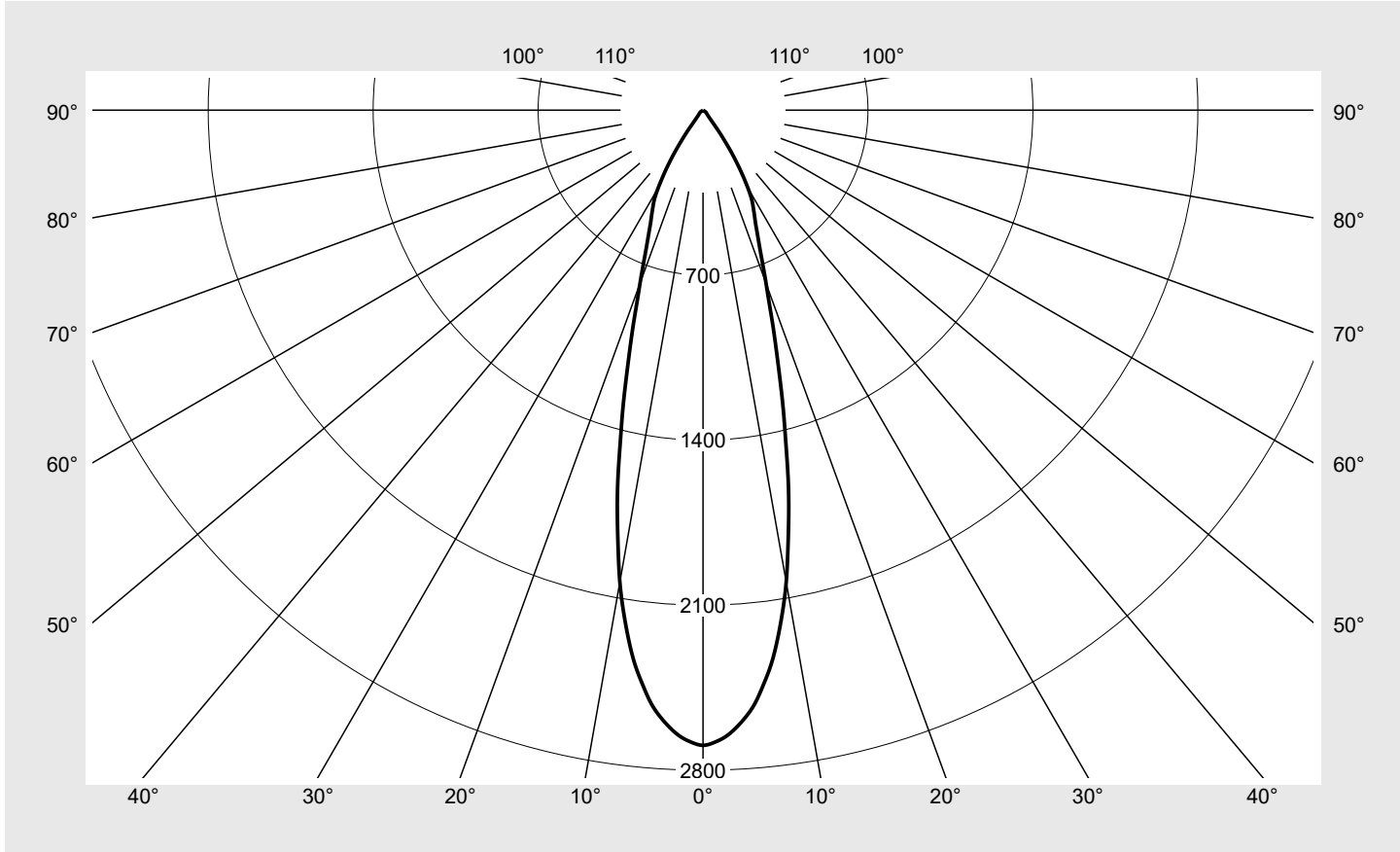


# Photometric test report

<b>Family</b> <b>Spot 21</b>	<b>Order number: 51SE13MBA5B</b> <b>EAN: 4058352716618</b>	<b>LP number</b> <b>59385_1</b>
	<b>Version</b> reflector, cover panel, PC, medium distribution <b>Lamps</b> LED 2700 K   CRI ≥ 90 <b>Controlgear</b> ECG Multilumen <b>Setting</b> factory setting: DIP-Step=14 <b>Rated values</b> Net luminous flux = 5090 lm Power consumption = 39.8 W Luminous efficacy = 127.9 lm/W	<b>serial documentation</b> <b>14.02.2023</b>
		

**Luminous intensity in cd/klm** C180-0 **Imax: 2695 cd/klm**



Classifications	
DIN 5040	A 8 0
CIE	N1=95 N2=98 N3=99 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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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

C-planes	0°	Phi-zone	Total Phi-zone
$\gamma$	Luminous intensity in cd/klm		Luminous flux in lm/klm
0°	2694.7	0.6	0.6
1°	2682.9	5.1	5.8
2°	2661.3	10.2	16.0
3°	2626.5	15.1	31.0
4°	2582.0	19.8	50.8
5°	2526.7	24.1	74.9
6°	2451.1	28.1	103.0
7°	2369.6	31.7	134.7
8°	2268.5	34.6	169.3
9°	2155.9	37.0	206.3
10°	2033.1	38.7	245.0
11°	1889.1	39.5	284.5
12°	1749.6	39.9	324.4
13°	1606.3	39.6	364.1
14°	1451.7	38.5	402.6
15°	1316.6	37.4	439.9
16°	1182.9	35.8	475.7
17°	1063.4	34.1	509.8
18°	958.3	32.5	542.3
19°	860.0	30.7	573.0
20°	782.1	29.3	602.3
21°	713.2	28.0	630.3
22°	652.6	26.8	657.1
23°	603.4	25.9	683.0
24°	562.1	25.1	708.1
25°	526.2	24.4	732.5
26°	498.5	24.0	756.4
27°	471.8	23.5	779.9
28°	447.7	23.1	803.0
29°	418.5	22.2	825.2
30°	379.9	20.8	846.0
31°	337.7	19.1	865.1
32°	295.4	17.2	882.3
33°	252.5	15.1	897.4
34°	211.9	13.0	910.4
35°	167.9	10.6	920.9
36°	131.9	8.5	929.4
37°	96.9	6.4	935.8
38°	68.0	4.6	940.4
39°	50.9	3.5	943.9
40°	42.0	3.0	946.9
41°	36.2	2.6	949.5
42°	31.8	2.3	951.8
43°	28.9	2.2	954.0
44°	26.7	2.0	956.0
45°	24.8	1.9	957.9
46°	23.2	1.8	959.8

C-planes	0°	Phi-zone	Total Phi-zone
$\gamma$	Luminous intensity in cd/klm		Luminous flux in lm/klm
47°	22.0	1.8	961.5
48°	20.4	1.7	963.2
49°	19.4	1.6	964.8
50°	17.8	1.5	966.3
51°	17.1	1.5	967.8
52°	16.0	1.4	969.1
53°	15.3	1.3	970.5
54°	14.6	1.3	971.8
55°	14.2	1.3	973.0
56°	13.3	1.2	974.2
57°	12.9	1.2	975.4
58°	12.3	1.1	976.6
59°	12.0	1.1	977.7
60°	11.7	1.1	978.8
61°	11.3	1.1	979.9
62°	11.2	1.1	981.0
63°	10.7	1.0	982.0
64°	10.6	1.0	983.1
65°	10.0	1.0	984.1
66°	9.9	1.0	985.0
67°	9.6	1.0	986.0
68°	9.2	0.9	986.9
69°	9.0	0.9	987.9
70°	8.7	0.9	988.8
71°	8.2	0.9	989.6
72°	7.9	0.8	990.4
73°	7.8	0.8	991.3
74°	7.5	0.8	992.0
75°	7.5	0.8	992.8
76°	6.8	0.7	993.6
77°	6.7	0.7	994.3
78°	6.6	0.7	995.0
79°	6.3	0.7	995.7
80°	5.8	0.6	996.3
81°	5.5	0.6	996.9
82°	5.1	0.6	997.4
83°	4.5	0.5	997.9
84°	4.1	0.4	998.4
85°	3.4	0.4	998.8
86°	3.0	0.3	999.1
87°	2.6	0.3	999.4
88°	2.2	0.2	999.6
89°	2.4	0.3	999.9
90°	2.4	0.3	1000.1

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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	20.9	22.0	21.3	22.3	22.6	20.9	22.0	21.3	22.3	22.6
	3H	21.3	22.2	21.7	22.6	22.9	21.3	22.2	21.7	22.6	22.9
	4H	21.6	22.5	22.0	22.8	23.2	21.6	22.5	22.0	22.8	23.2
	6H	22.1	22.8	22.5	23.2	23.6	22.1	22.8	22.5	23.2	23.6
	8H	22.4	23.0	22.8	23.4	23.8	22.4	23.0	22.8	23.4	23.8
	12H	22.6	23.1	23.0	23.5	24.0	22.6	23.1	23.0	23.5	24.0
4H	2H	20.9	21.7	21.3	22.1	22.5	20.9	21.7	21.3	22.1	22.5
	3H	21.5	22.2	21.9	22.6	23.0	21.5	22.2	21.9	22.6	23.0
	4H	21.9	22.6	22.4	23.0	23.4	21.9	22.6	22.4	23.0	23.4
	6H	22.6	23.1	23.1	23.5	24.0	22.6	23.1	23.1	23.5	24.0
	8H	22.9	23.4	23.4	23.8	24.3	22.9	23.4	23.4	23.8	24.3
	12H	23.3	23.6	23.8	24.1	24.6	23.3	23.6	23.8	24.1	24.6
8H	4H	22.1	22.6	22.6	23.0	23.5	22.1	22.6	22.6	23.0	23.5
	6H	22.9	23.3	23.5	23.8	24.3	22.9	23.3	23.5	23.8	24.3
	8H	23.4	23.7	23.9	24.2	24.8	23.4	23.7	23.9	24.2	24.8
	12H	23.9	24.1	24.4	24.6	25.2	23.9	24.1	24.4	24.6	25.2
12H	4H	22.2	22.6	22.7	23.0	23.5	22.2	22.6	22.7	23.0	23.5
	6H	23.1	23.4	23.6	23.9	24.4	23.1	23.4	23.6	23.9	24.4
	8H	23.6	23.8	24.1	24.3	24.9	23.6	23.8	24.1	24.3	24.9

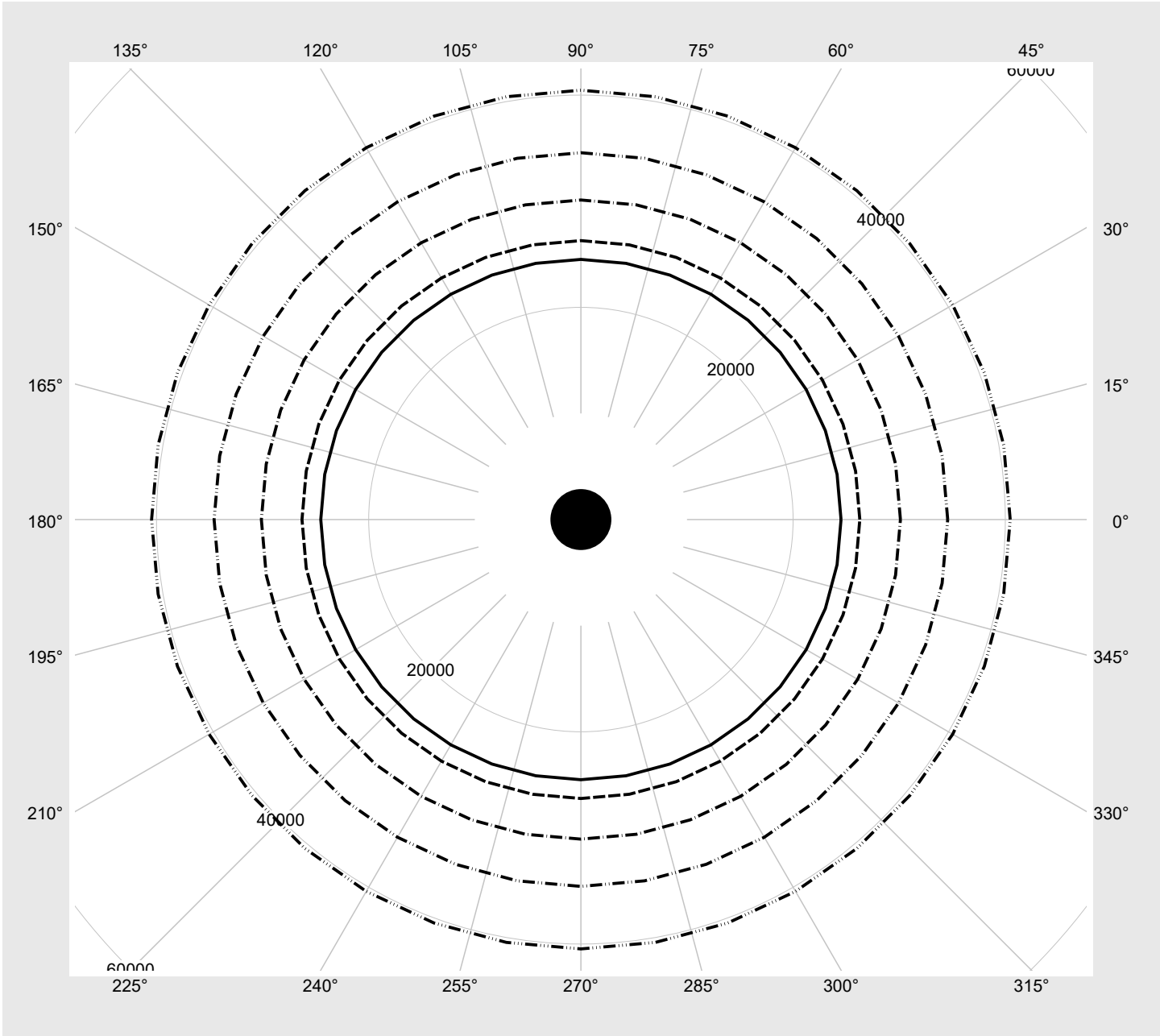
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 79
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C-planes	0°
$\gamma$	Luminance in cd/m <sup>2</sup>
45°	36450.9
50°	28738.1
55°	25684.6
60°	24195.2
65°	24517.1
70°	26286.9
75°	30115.2
80°	34570.6
85°	40461.8

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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	4		
15	ON	ON	ON	ON	5300	41.8
14	ON	ON	ON	OFF	5090	39.8
13	ON	ON	OFF	ON	4880	37.8
12	ON	ON	OFF	OFF	4660	35.8
11	ON	OFF	ON	ON	4420	33.6
10	ON	OFF	ON	OFF	4190	31.7
9	ON	OFF	OFF	ON	3960	29.6
8	ON	OFF	OFF	OFF	3710	27.6
7	OFF	ON	ON	ON	3520	25.9
6	OFF	ON	ON	OFF	3280	24.0
5	OFF	ON	OFF	ON	3030	22.0
4	OFF	ON	OFF	OFF	2750	20.1
3	OFF	OFF	ON	ON	2480	17.8
2	OFF	OFF	ON	OFF	2230	15.9
1	OFF	OFF	OFF	ON	1950	13.9
0	OFF	OFF	OFF	OFF	1670	12.0