

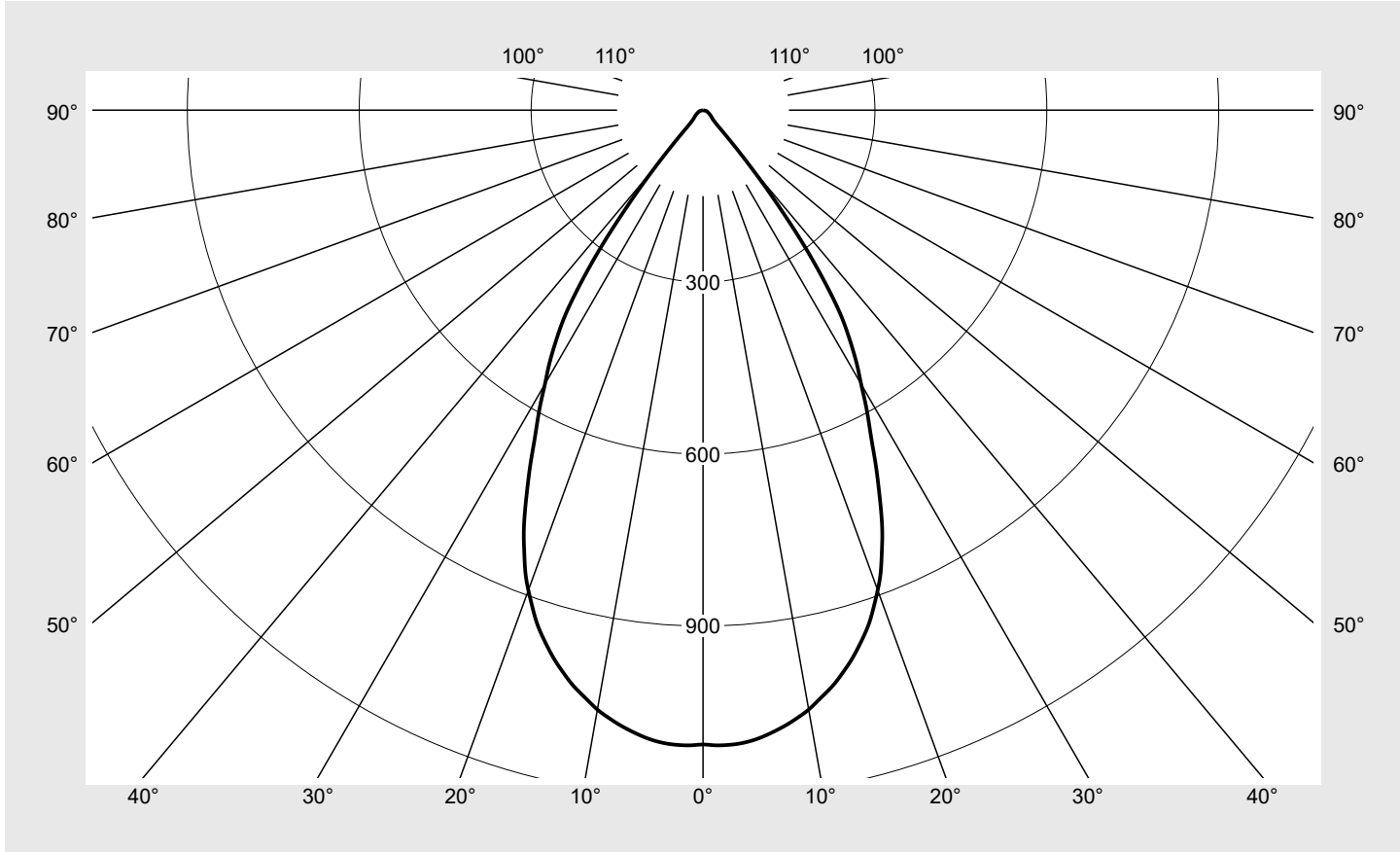


## Photometric test report

<b>Family</b> <b>Lunis 21</b>	<b>Order number: 51DB15TF91C</b> <b>EAN: 4069025013330</b>	<b>LP number</b> <b>59583_11</b>
	<b>Version</b> recessed luminaire, Combined lens and reflector optics, reflector, highly specular, rotationally symmetrical wide distribution, adjustable color temperature: 3000K   4000K   6500K, UGR≤19 (L65≤3000cd/m²)	<b>serial documentation</b> 15.03.2024
	<b>Lamps</b> LED 4000 K   CRI ≥ 80	
	<b>Controlgear</b> ECG Multilumen	
	<b>Setting</b> factory setting: DIP-Step=6, colour temperature 4000K	
<b>Rated values</b> Net luminous flux = 2430 lm Power consumption = 13.6 W Luminous efficacy = 178.7 lm/W		

**Luminous intensity in cd/klm** C180-0 **Imax: 1108 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=95 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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<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°	1106.7	0.3	0.3
1°	1108.2	2.1	2.4
2°	1108.4	4.2	6.6
3°	1107.5	6.4	13.0
4°	1104.9	8.5	21.4
5°	1100.5	10.5	32.0
6°	1094.6	12.5	44.5
7°	1087.7	14.5	59.0
8°	1080.1	16.5	75.5
9°	1071.4	18.4	93.9
10°	1061.9	20.2	114.1
11°	1049.8	22.0	136.1
12°	1037.9	23.7	159.8
13°	1025.4	25.3	185.1
14°	1010.5	26.8	211.9
15°	995.2	28.2	240.1
16°	977.9	29.6	269.7
17°	959.5	30.8	300.4
18°	939.6	31.8	332.3
19°	915.7	32.7	365.0
20°	891.3	33.4	398.4
21°	864.9	34.0	432.4
22°	832.9	34.2	466.6
23°	800.7	34.3	500.9
24°	763.6	34.1	535.0
25°	724.9	33.6	568.6
26°	687.3	33.0	601.6
27°	649.0	32.3	633.9
28°	616.2	31.7	665.6
29°	584.7	31.1	696.7
30°	551.8	30.3	727.0
31°	524.1	29.6	756.6
32°	494.0	28.7	785.3
33°	462.4	27.6	812.9
34°	428.1	26.2	839.1
35°	382.9	24.1	863.2
36°	333.6	21.5	884.7
37°	282.0	18.6	903.3
38°	226.4	15.3	918.6
39°	177.2	12.2	930.9
40°	130.6	9.2	940.1
41°	91.9	6.6	946.7
42°	63.0	4.6	951.3
43°	43.4	3.2	954.5
44°	33.3	2.5	957.1
45°	28.7	2.2	959.3
46°	25.4	2.0	961.3

C-planes	0°	Phi-zone	Total Phi-zone
$\gamma$	Luminous intensity in cd/klm		Luminous flux in lm/klm
47°	23.4	1.9	963.2
48°	22.1	1.8	965.0
49°	20.8	1.7	966.7
50°	20.0	1.7	968.4
51°	19.1	1.6	970.0
52°	18.2	1.6	971.6
53°	17.5	1.5	973.1
54°	16.8	1.5	974.6
55°	15.9	1.4	976.0
56°	15.2	1.4	977.4
57°	14.5	1.3	978.7
58°	13.8	1.3	980.0
59°	13.1	1.2	981.3
60°	12.6	1.2	982.5
61°	11.9	1.1	983.6
62°	11.4	1.1	984.7
63°	10.9	1.1	985.8
64°	10.3	1.0	986.8
65°	9.9	1.0	987.8
66°	9.5	1.0	988.7
67°	9.0	0.9	989.6
68°	8.7	0.9	990.5
69°	8.3	0.8	991.4
70°	7.9	0.8	992.2
71°	7.5	0.8	993.0
72°	7.2	0.8	993.7
73°	6.8	0.7	994.4
74°	6.6	0.7	995.1
75°	6.2	0.7	995.8
76°	5.9	0.6	996.4
77°	5.5	0.6	997.0
78°	5.1	0.5	997.5
79°	4.6	0.5	998.0
80°	4.0	0.4	998.5
81°	3.3	0.4	998.8
82°	2.7	0.3	999.1
83°	2.2	0.2	999.3
84°	1.7	0.2	999.5
85°	1.4	0.2	999.7
86°	1.1	0.1	999.8
87°	0.9	0.1	999.9
88°	0.6	0.1	1000.0
89°	0.3	0.0	1000.0
90°	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	16.5	17.7	16.9	18.0	18.3	16.5	17.7	16.9	18.0	18.3
	3H	16.5	17.5	16.9	17.9	18.2	16.5	17.5	16.9	17.9	18.2
	4H	16.5	17.5	16.9	17.8	18.2	16.5	17.5	16.9	17.8	18.2
	6H	16.6	17.4	17.0	17.8	18.2	16.6	17.4	17.0	17.8	18.2
	8H	16.7	17.4	17.1	17.8	18.2	16.7	17.4	17.1	17.8	18.2
	12H	16.7	17.3	17.1	17.7	18.1	16.7	17.3	17.1	17.7	18.1
4H	2H	16.3	17.3	16.7	17.6	18.0	16.3	17.3	16.7	17.6	18.0
	3H	16.4	17.2	16.8	17.6	18.0	16.4	17.2	16.8	17.6	18.0
	4H	16.5	17.2	16.9	17.6	18.0	16.5	17.2	16.9	17.6	18.0
	6H	16.6	17.2	17.0	17.6	18.1	16.6	17.2	17.0	17.6	18.1
	8H	16.6	17.1	17.1	17.6	18.0	16.6	17.1	17.1	17.6	18.0
	12H	16.6	17.0	17.1	17.5	18.0	16.6	17.0	17.1	17.5	18.0
8H	4H	16.4	17.0	16.9	17.4	17.9	16.4	17.0	16.9	17.4	17.9
	6H	16.6	17.0	17.1	17.5	18.0	16.6	17.0	17.1	17.5	18.0
	8H	16.6	17.0	17.1	17.5	18.0	16.6	17.0	17.1	17.5	18.0
	12H	16.6	16.9	17.2	17.4	18.0	16.6	16.9	17.2	17.4	18.0
12H	4H	16.5	16.9	17.0	17.3	17.8	16.5	16.9	17.0	17.3	17.8
	6H	16.6	16.9	17.1	17.4	17.9	16.6	16.9	17.1	17.4	17.9
	8H	16.6	16.9	17.2	17.4	18.0	16.6	16.9	17.2	17.4	18.0

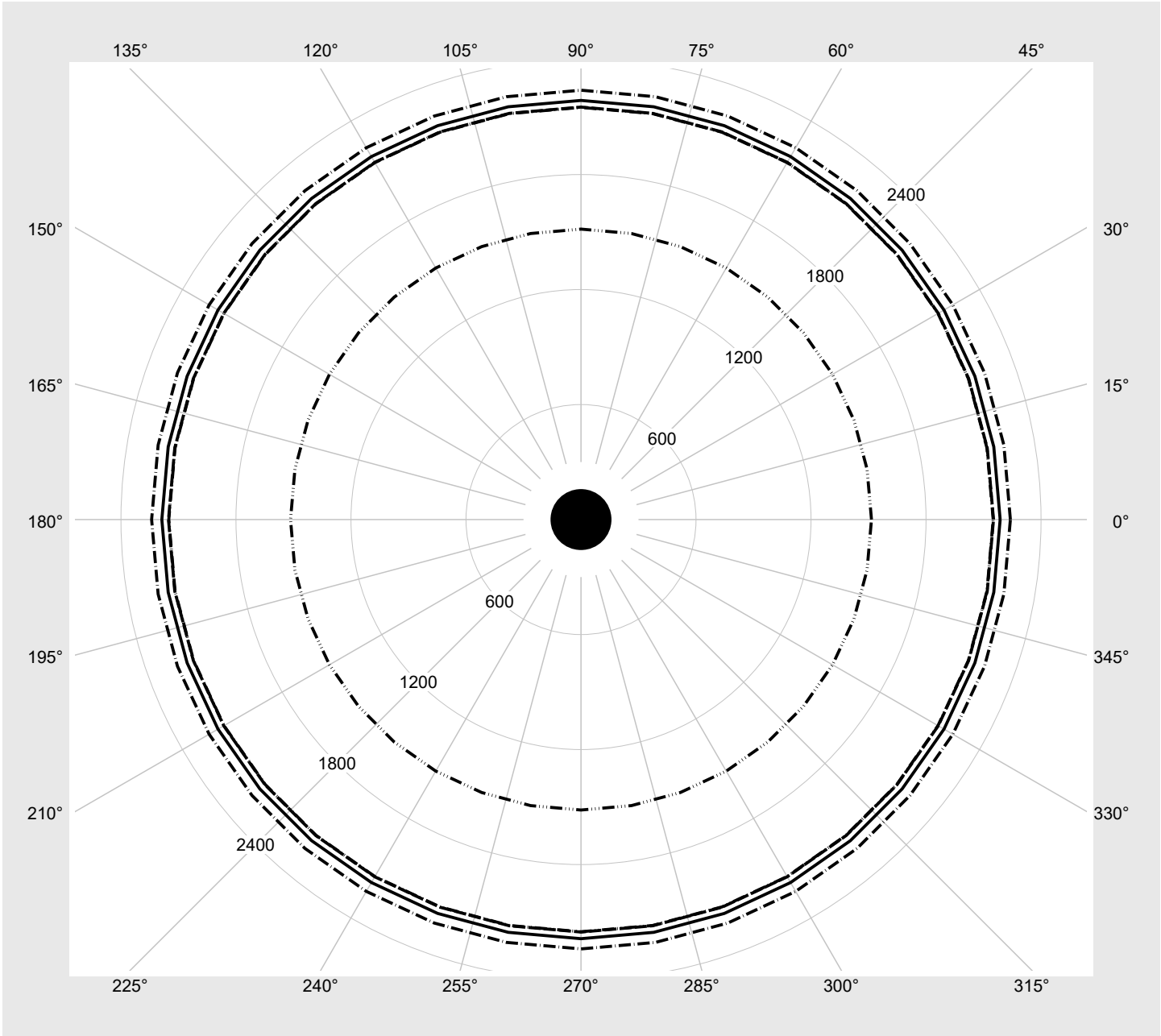
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm: D = 182</b>
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<b>C-planes</b>	<b>0°</b>
$\gamma$	<b>Luminance in cd/m<sup>2</sup></b>
45°	3788.5
50°	2903.5
55°	2581.3
60°	2354.8
65°	2186.7
70°	2152.0
75°	2240.1
80°	2150.5
85°	1515.4

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**Luminance values in cd/m<sup>2</sup>**      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**



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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		
12	ON	ON	OFF	OFF	4150	25.4
11	ON	OFF	ON	ON	3670	21.7
10	ON	OFF	ON	OFF	3500	20.6
9	ON	OFF	OFF	ON	3310	19.1
8	ON	OFF	OFF	OFF	3120	17.7
7	OFF	ON	ON	ON	2730	15.3
6	OFF	ON	ON	OFF	2430	13.6
5	OFF	ON	OFF	ON	2170	12.1
4	OFF	ON	OFF	OFF	1870	10.4
3	OFF	OFF	ON	ON	1760	9.7
2	OFF	OFF	ON	OFF	1460	8.0
1	OFF	OFF	OFF	ON	1120	6.1
0	OFF	OFF	OFF	OFF	810	4.4