

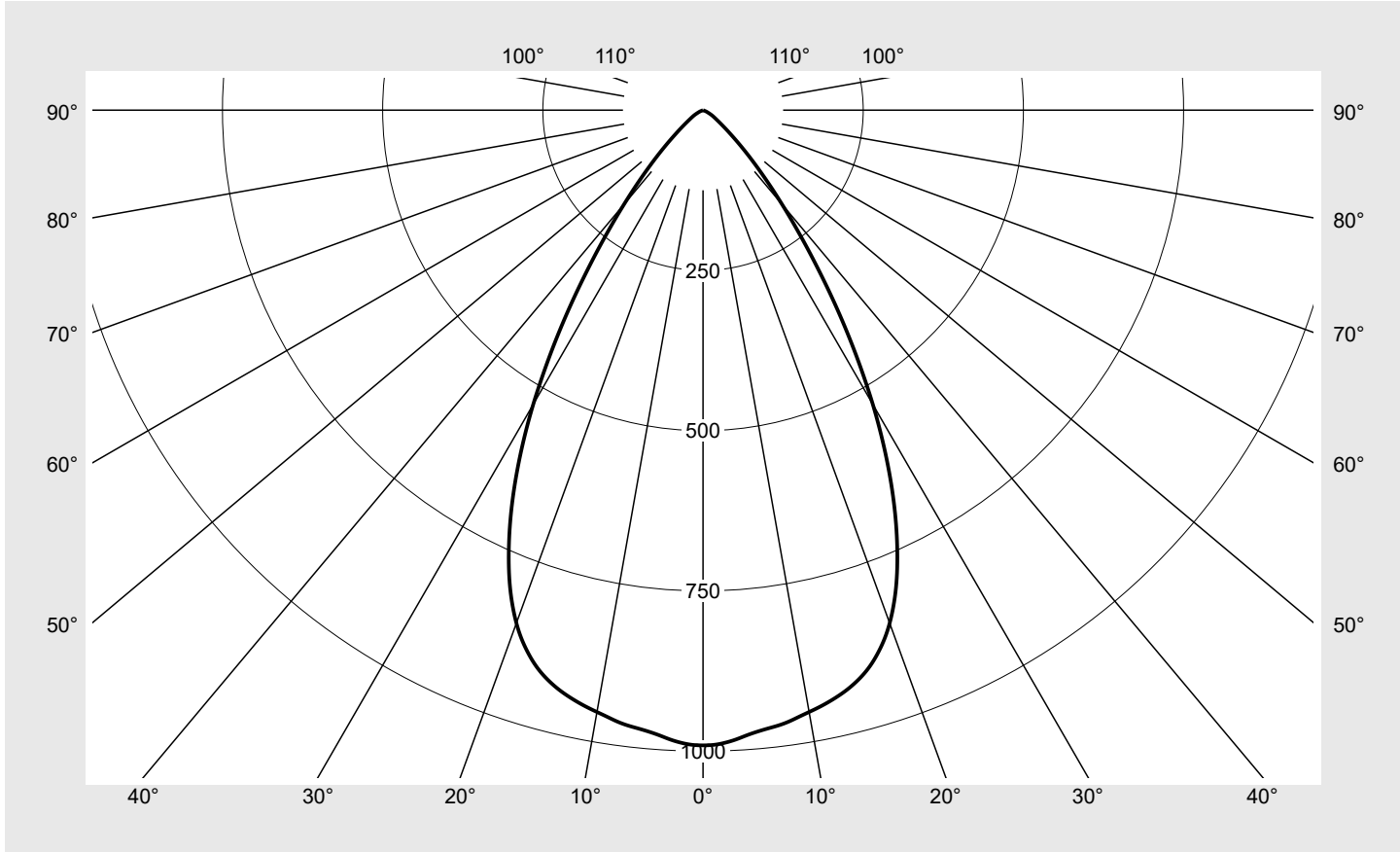


## Photometric test report

<b>Family</b> <b>Lunis 21</b>	<b>Order number: 51DB15TD91C</b> <b>EAN: 4058352047347</b>	<b>LP number</b> <b>59250_17</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>Lamps</b>	LED 4000 K   CRI ≥ 80
	<b>Controlgear</b>	ECG Multilumen
	<b>Setting</b>	factory setting: DIP-Step=5, colour temperature 4000K
	<b>Rated values</b>	Net luminous flux = 2120 lm Power consumption = 12.2 W Luminous efficacy = 173.8 lm/W
		<b>serial documentation</b> 15.03.2024
		

**Luminous intensity in cd/klm** C180-0 **Imax: 991 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=90 N2=99 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°	991.0	0.2	0.2
1°	990.2	1.9	2.1
2°	987.4	3.8	5.9
3°	983.1	5.6	11.6
4°	977.7	7.5	19.0
5°	973.2	9.3	28.3
6°	969.9	11.1	39.5
7°	967.0	12.9	52.4
8°	963.2	14.7	67.1
9°	958.1	16.4	83.5
10°	953.4	18.2	101.7
11°	948.9	19.9	121.5
12°	943.7	21.5	143.0
13°	938.0	23.1	166.2
14°	931.4	24.7	190.9
15°	923.4	26.2	217.1
16°	913.8	27.6	244.7
17°	902.0	28.9	273.6
18°	887.7	30.1	303.7
19°	871.2	31.1	334.8
20°	851.7	31.9	366.8
21°	829.0	32.6	399.3
22°	803.8	33.0	432.4
23°	775.6	33.2	465.6
24°	745.0	33.2	498.8
25°	712.8	33.0	531.9
26°	678.8	32.6	564.5
27°	643.2	32.0	596.5
28°	606.3	31.2	627.7
29°	568.5	30.2	658.0
30°	529.9	29.1	687.0
31°	490.1	27.7	714.7
32°	450.9	26.2	740.9
33°	412.3	24.6	765.5
34°	374.8	23.0	788.5
35°	338.4	21.3	809.8
36°	304.0	19.6	829.4
37°	272.4	18.0	847.4
38°	243.0	16.4	863.8
39°	216.5	14.9	878.7
40°	191.9	13.5	892.2
41°	170.0	12.2	904.5
42°	149.7	11.0	915.5
43°	131.6	9.8	925.3
44°	115.3	8.8	934.1
45°	100.7	7.8	941.9
46°	87.5	6.9	948.8

C-planes	0°	Phi-zone	Total Phi-zone
$\gamma$	Luminous intensity in cd/klm Luminous flux in lm/klm		
47°	75.9	6.1	954.9
48°	65.6	5.3	960.2
49°	56.7	4.7	964.9
50°	49.5	4.2	969.1
51°	43.1	3.7	972.7
52°	37.7	3.3	976.0
53°	33.2	2.9	978.9
54°	29.3	2.6	981.5
55°	26.1	2.3	983.9
56°	23.5	2.1	986.0
57°	21.3	2.0	988.0
58°	19.3	1.8	989.7
59°	17.5	1.6	991.4
60°	15.5	1.5	992.9
61°	13.6	1.3	994.2
62°	11.5	1.1	995.3
63°	9.8	1.0	996.2
64°	8.3	0.8	997.0
65°	7.1	0.7	997.7
66°	6.0	0.6	998.4
67°	5.1	0.5	998.9
68°	4.0	0.4	999.3
69°	2.8	0.3	999.6
70°	1.7	0.2	999.7
71°	1.0	0.1	999.8
72°	0.7	0.1	999.9
73°	0.4	0.0	999.9
74°	0.2	0.0	1000.0
75°	0.0	0.0	1000.0
76°	0.0	0.0	1000.0
77°	0.0	0.0	1000.0
78°	0.0	0.0	1000.0
79°	0.0	0.0	1000.0
80°	0.0	0.0	1000.0
81°	0.0	0.0	1000.0
82°	0.0	0.0	1000.0
83°	0.0	0.0	1000.0
84°	0.0	0.0	1000.0
85°	0.0	0.0	1000.0
86°	0.0	0.0	1000.0
87°	0.0	0.0	1000.0
88°	0.0	0.0	1000.0
89°	0.0	0.0	1000.0
90°	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	18.9	20.1	19.3	20.4	20.8	18.9	20.1	19.3	20.4	20.8
	3H	18.8	19.9	19.2	20.2	20.6	18.8	19.9	19.2	20.2	20.6
	4H	18.7	19.7	19.1	20.1	20.4	18.7	19.7	19.1	20.1	20.4
	6H	18.7	19.5	19.1	19.9	20.3	18.7	19.5	19.1	19.9	20.3
	8H	18.7	19.5	19.2	19.8	20.2	18.7	19.5	19.2	19.8	20.2
	12H	18.7	19.4	19.1	19.8	20.2	18.7	19.4	19.1	19.8	20.2
4H	2H	18.8	19.7	19.2	20.1	20.5	18.8	19.7	19.2	20.1	20.5
	3H	18.6	19.4	19.1	19.8	20.2	18.6	19.4	19.1	19.8	20.2
	4H	18.5	19.2	19.0	19.6	20.1	18.5	19.2	19.0	19.6	20.1
	6H	18.4	19.0	18.9	19.5	19.9	18.4	19.0	18.9	19.5	19.9
	8H	18.4	18.9	18.9	19.4	19.9	18.4	18.9	18.9	19.4	19.9
	12H	18.4	18.8	18.9	19.3	19.8	18.4	18.8	18.9	19.3	19.8
8H	4H	18.4	18.9	18.9	19.4	19.9	18.4	18.9	18.9	19.4	19.9
	6H	18.3	18.7	18.8	19.2	19.7	18.3	18.7	18.8	19.2	19.7
	8H	18.2	18.6	18.7	19.1	19.6	18.2	18.6	18.7	19.1	19.6
	12H	18.2	18.5	18.7	19.0	19.5	18.2	18.5	18.7	19.0	19.5
12H	4H	18.4	18.8	18.9	19.3	19.8	18.4	18.8	18.9	19.3	19.8
	6H	18.3	18.6	18.8	19.1	19.6	18.3	18.6	18.8	19.1	19.6
	8H	18.2	18.5	18.7	19.0	19.5	18.2	18.5	18.7	19.0	19.5

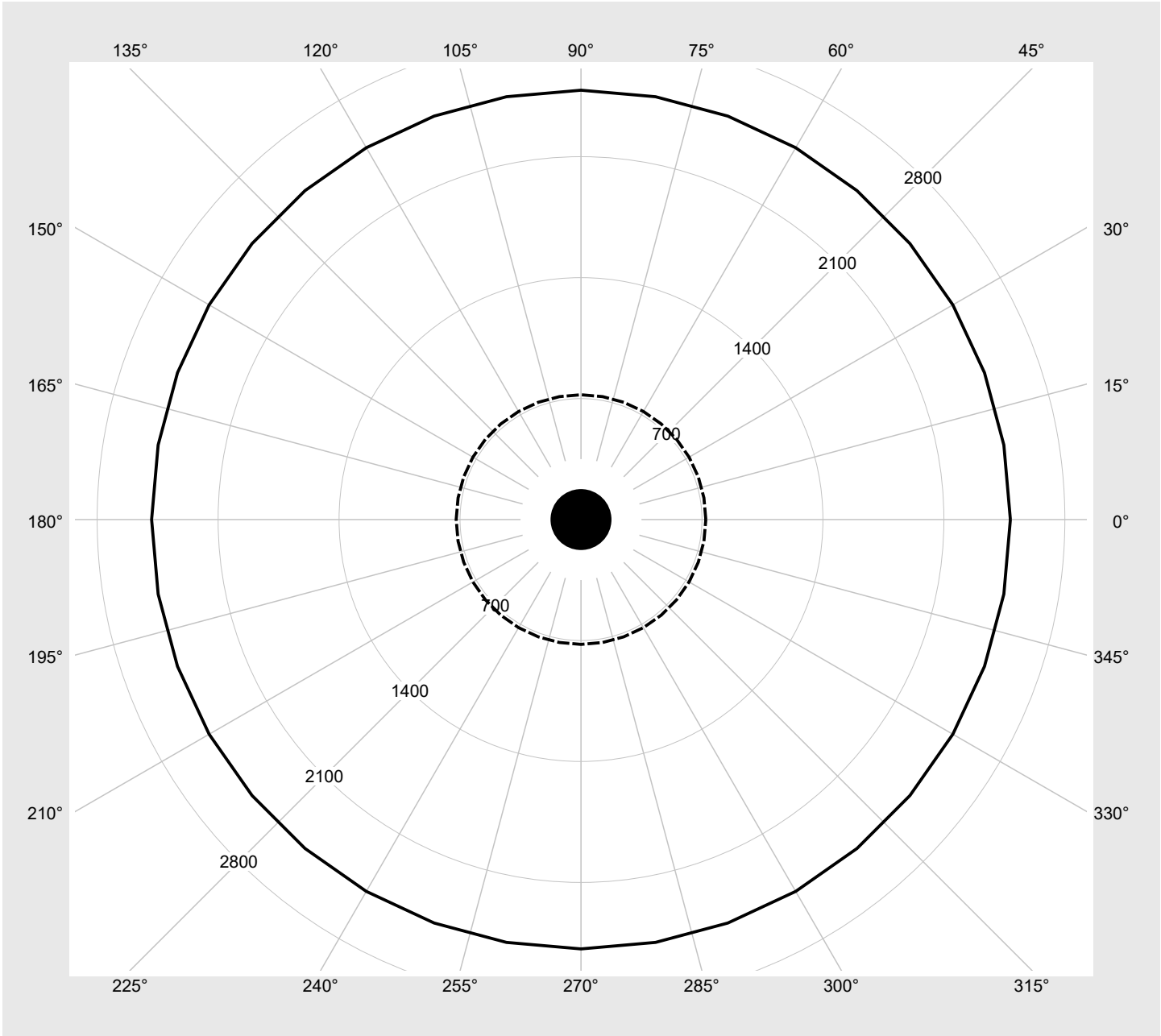
<b>Luminance table</b>	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 135
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C-planes	0°
$\gamma$	Luminance in cd/m <sup>2</sup>
45°	21091.0
50°	11400.2
55°	6750.6
60°	4602.9
65°	2484.7
70°	722.3
75°	21.7
80°	15.4
85°	32.3

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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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Family  
Lunis 21

Order number: 51DB15TD91C  
EAN: 4058352047347

LP number  
59250\_17

### Multilumen Table

environmental temperature: 25°C

siteco

DIP-Step	Switch Setting				Luminous flux [lm]	Power consumption [W]
	1	2	3	4		
12	ON	ON	OFF	OFF	4100	25.4
11	ON	OFF	ON	ON	3680	21.7
10	ON	OFF	ON	OFF	3440	20.3
9	ON	OFF	OFF	ON	3280	19.2
8	ON	OFF	OFF	OFF	3050	17.7
7	OFF	ON	ON	ON	2670	15.5
6	OFF	ON	ON	OFF	2380	13.7
5	OFF	ON	OFF	ON	2120	12.2
4	OFF	ON	OFF	OFF	1810	10.5
3	OFF	OFF	ON	ON	1690	9.7
2	OFF	OFF	ON	OFF	1410	8.0
1	OFF	OFF	OFF	ON	1080	6.1
0	OFF	OFF	OFF	OFF	790	4.4