

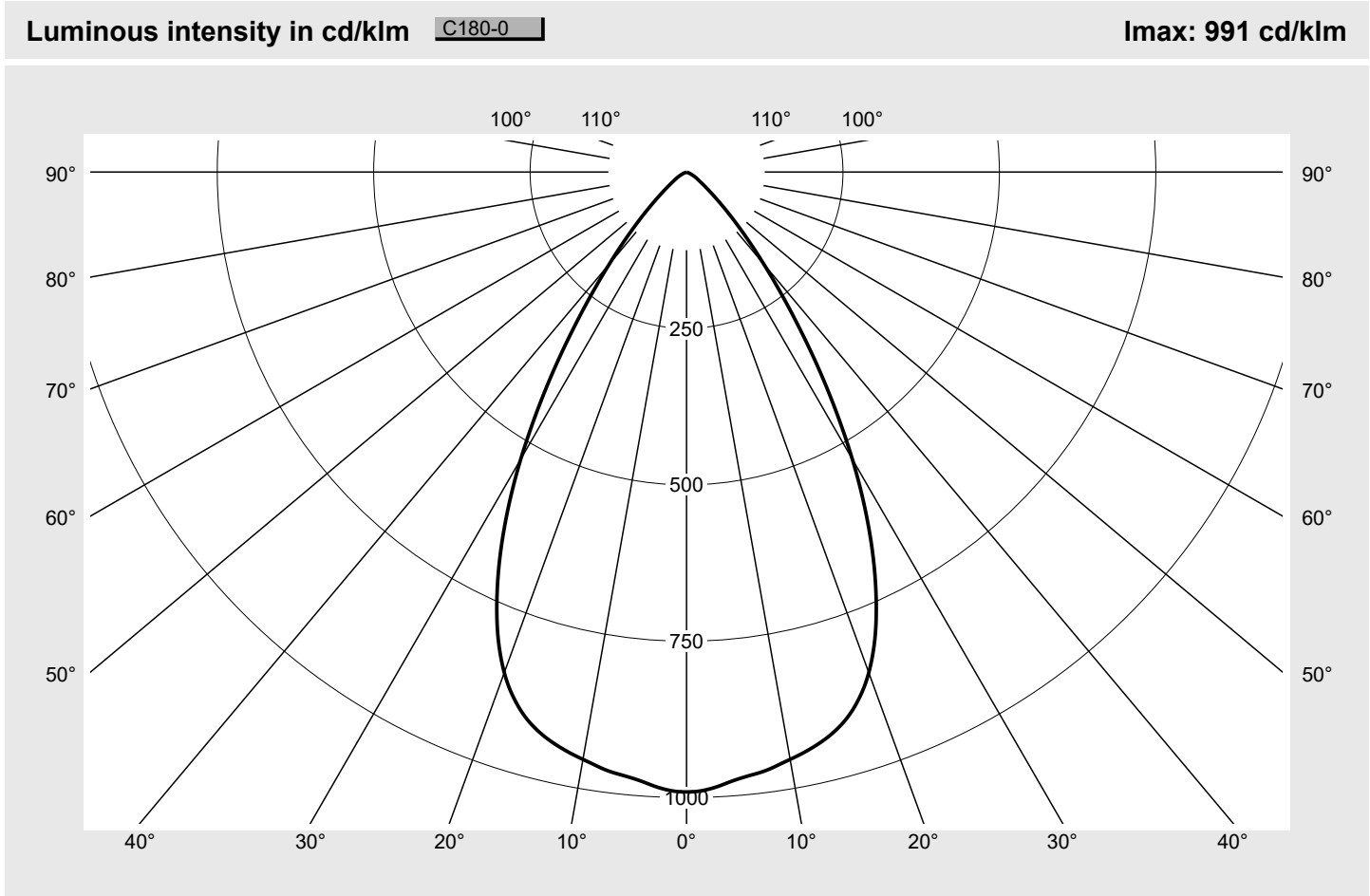


# Photometric test report

<b>Family</b> <b>Lunis 21</b>	<b>Order number: 51DB18MD91C</b> <b>EAN: 4069025013026</b>	<b>LP number</b> <b>59250_10</b>
	<b>Version</b>	recessed luminaire, Combined lens and reflector optics, reflector, white, 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=1, colour temperature 4000K
<b>Rated values</b>	Net luminous flux = 2160 lm Power consumption = 12.2 W Luminous efficacy = 177 lm/W	<b>serial documentation</b> 15.03.2024
		



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

## Photometric test report

Family <b>Lunis 21</b>	Order number: <b>51DB18MD91C</b> EAN: <b>4069025013026</b>	LP number <b>59250_10</b>
<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

## Photometric test report

Family <b>Lunis 21</b>	Order number: <b>51DB18MD91C</b> EAN: <b>4069025013026</b>	LP number <b>59250_10</b>
---------------------------	---	------------------------------

<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
------------------	----------------------	---------------

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	19.0	20.2	19.3	20.5	20.8	19.0	20.2	19.3	20.5	20.8
	3H	18.9	19.9	19.3	20.3	20.6	18.9	19.9	19.3	20.3	20.6
	4H	18.8	19.8	19.2	20.1	20.5	18.8	19.8	19.2	20.1	20.5
	6H	18.7	19.6	19.1	20.0	20.4	18.7	19.6	19.1	20.0	20.4
	8H	18.8	19.5	19.2	19.9	20.3	18.8	19.5	19.2	19.9	20.3
	12H	18.8	19.4	19.2	19.8	20.2	18.8	19.4	19.2	19.8	20.2
4H	2H	18.8	19.8	19.2	20.2	20.5	18.8	19.8	19.2	20.2	20.5
	3H	18.7	19.5	19.1	19.9	20.3	18.7	19.5	19.1	19.9	20.3
	4H	18.6	19.3	19.0	19.7	20.2	18.6	19.3	19.0	19.7	20.2
	6H	18.5	19.1	19.0	19.5	20.0	18.5	19.1	19.0	19.5	20.0
	8H	18.5	19.0	18.9	19.4	19.9	18.5	19.0	18.9	19.4	19.9
	12H	18.5	18.9	19.0	19.4	19.9	18.5	18.9	19.0	19.4	19.9
8H	4H	18.5	19.0	18.9	19.4	19.9	18.5	19.0	18.9	19.4	19.9
	6H	18.4	18.8	18.9	19.3	19.8	18.4	18.8	18.9	19.3	19.8
	8H	18.3	18.7	18.8	19.2	19.7	18.3	18.7	18.8	19.2	19.7
	12H	18.3	18.6	18.8	19.1	19.6	18.3	18.6	18.8	19.1	19.6
12H	4H	18.5	18.9	19.0	19.4	19.9	18.5	18.9	19.0	19.4	19.9
	6H	18.3	18.7	18.9	19.2	19.7	18.3	18.7	18.9	19.2	19.7
	8H	18.3	18.6	18.8	19.1	19.6	18.3	18.6	18.8	19.1	19.6

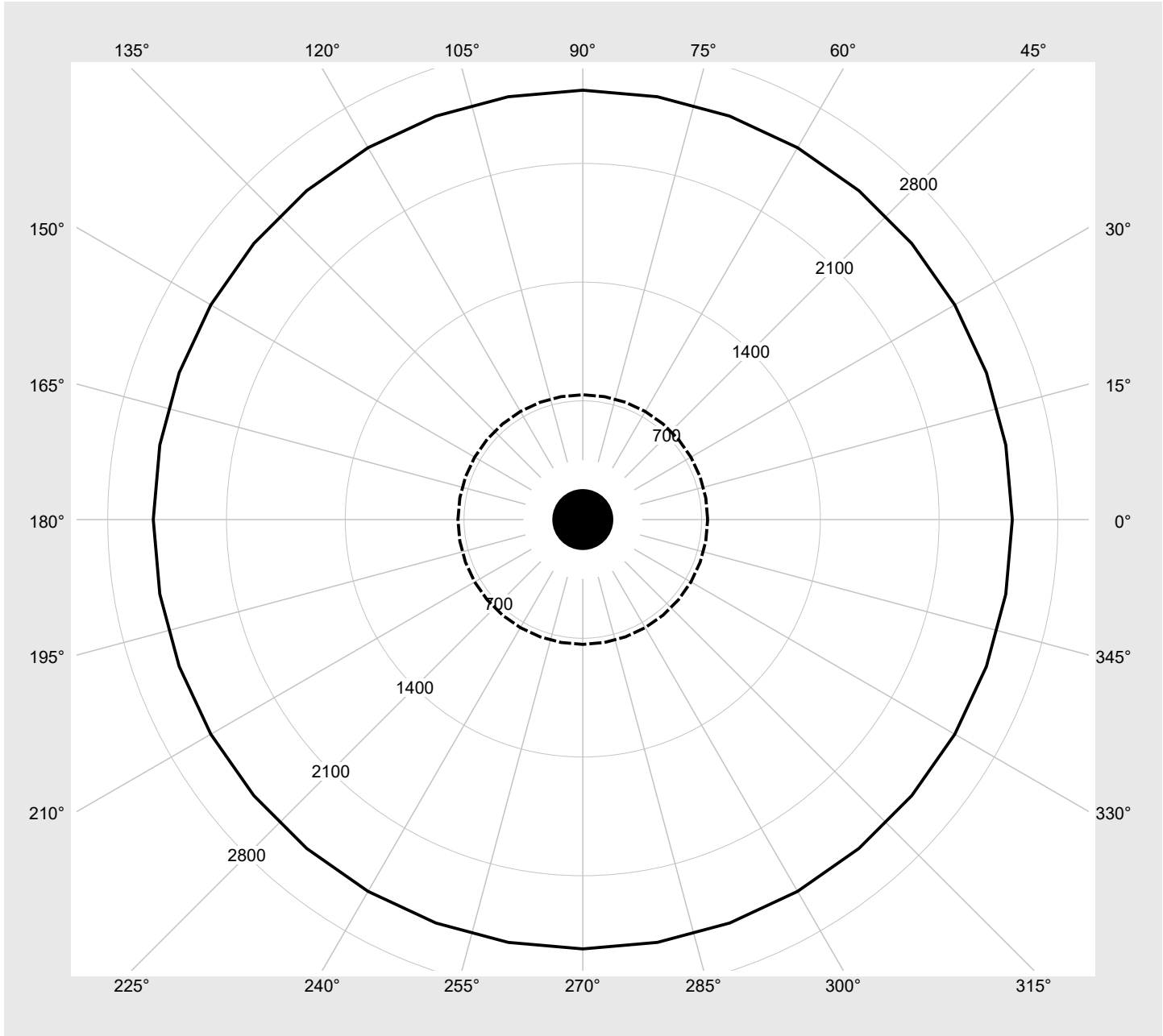
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm: D = 135</b>
------------------------	---	--

<b>C-planes</b>	<b>0°</b>
$\gamma$	<b>Luminance in cd/m<sup>2</sup></b>
45°	21488.9
50°	11615.3
55°	6878.0
60°	4689.7
65°	2531.6
70°	735.9
75°	22.2
80°	15.6
85°	32.9

# Photometric test report


<b>Family</b> <b>Lunis 21</b>	<b>Order number: 51DB18MD91C</b> <b>EAN: 4069025013026</b>	<b>LP number</b> <b>59250_10</b>
----------------------------------	---	-------------------------------------

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



### Photometric test report

<b>Family</b> <b>Lunis 21</b>	<b>Order number: 51DB18MD91C</b> <b>EAN: 4069025013026</b>	<b>LP number</b> <b>59250_10</b>
----------------------------------	---	-------------------------------------

<b>Multilumen Table</b>	environmental temperature: 25°C	
-------------------------	---------------------------------	---

DIP-Step	Switch Setting				Luminous flux [lm]	Power consumption [W]
	1	2	3	4		
7	OFF	ON	ON	ON	3750	21.7
6	OFF	ON	ON	OFF	3520	20.3
5	OFF	ON	OFF	ON	3350	19.2
4	OFF	ON	OFF	OFF	3110	17.7
3	OFF	OFF	ON	ON	2720	15.5
2	OFF	OFF	ON	OFF	2430	13.7
1	OFF	OFF	OFF	ON	2160	12.2
0	OFF	OFF	OFF	OFF	1860	10.5