

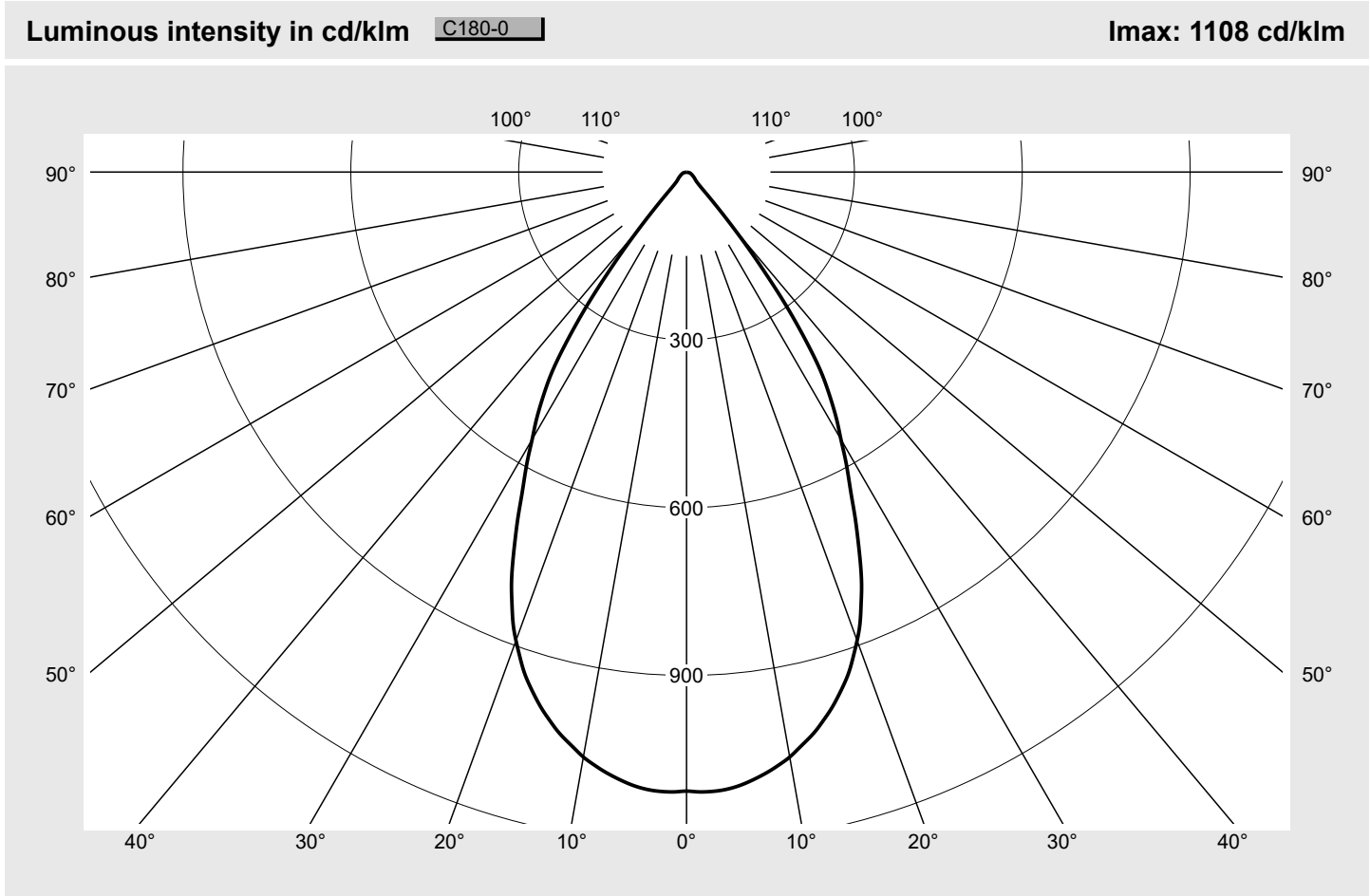


Photometric test report

Family Lunis 21	Order number: 51DB18MF91C EAN: 4069025013019	LP number 59583_4
	Version recessed luminaire, Combined lens and reflector optics, reflector, white, rotationally symmetrical wide distribution, adjustable color temperature: 3000K 4000K 6500K, UGR≤19 (L65≤3000cd/m²)	serial documentation 15.03.2024
	Lamps LED 4000 K CRI ≥ 80	
	Controlgear ECG Multilumen	
	Setting factory setting: DIP-Step=2, colour temperature 4000K	
Rated values Net luminous flux = 2480 lm Power consumption = 13.6 W Luminous efficacy = 182.4 lm/W		



Classifications	
DIN 5040	A 7 0
CIE	N1=95 N2=98 N3=100 N4=100 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	100.0%
ϕ_o	0.0%

Measurement conditions
DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
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C-planes	0°	Phi-zone	Total Phi-zone
γ	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
γ	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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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	16.6	17.8	16.9	18.1	18.4	16.6	17.8	16.9	18.1	18.4
	3H	16.6	17.6	17.0	17.9	18.3	16.6	17.6	17.0	17.9	18.3
	4H	16.6	17.6	17.0	17.9	18.3	16.6	17.6	17.0	17.9	18.3
	6H	16.7	17.5	17.1	17.9	18.3	16.7	17.5	17.1	17.9	18.3
	8H	16.8	17.5	17.2	17.8	18.3	16.8	17.5	17.2	17.8	18.3
	12H	16.8	17.4	17.2	17.8	18.2	16.8	17.4	17.2	17.8	18.2
4H	2H	16.4	17.4	16.8	17.7	18.1	16.4	17.4	16.8	17.7	18.1
	3H	16.5	17.2	16.9	17.6	18.1	16.5	17.2	16.9	17.6	18.1
	4H	16.5	17.2	17.0	17.6	18.1	16.5	17.2	17.0	17.6	18.1
	6H	16.6	17.2	17.1	17.7	18.1	16.6	17.2	17.1	17.7	18.1
	8H	16.7	17.2	17.1	17.6	18.1	16.7	17.2	17.1	17.6	18.1
	12H	16.7	17.1	17.2	17.6	18.1	16.7	17.1	17.2	17.6	18.1
8H	4H	16.5	17.0	17.0	17.5	18.0	16.5	17.0	17.0	17.5	18.0
	6H	16.6	17.1	17.1	17.5	18.1	16.6	17.1	17.1	17.5	18.1
	8H	16.7	17.0	17.2	17.5	18.1	16.7	17.0	17.2	17.5	18.1
	12H	16.7	17.0	17.2	17.5	18.0	16.7	17.0	17.2	17.5	18.0
12H	4H	16.5	16.9	17.0	17.4	17.9	16.5	16.9	17.0	17.4	17.9
	6H	16.7	17.0	17.2	17.5	18.0	16.7	17.0	17.2	17.5	18.0
	8H	16.7	17.0	17.2	17.5	18.0	16.7	17.0	17.2	17.5	18.0

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 182
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C-planes	0°
γ	Luminance in cd/m²
45°	3866.5
50°	2963.3
55°	2634.4
60°	2403.2
65°	2231.7
70°	2196.3
75°	2286.1
80°	2194.8
85°	1546.6

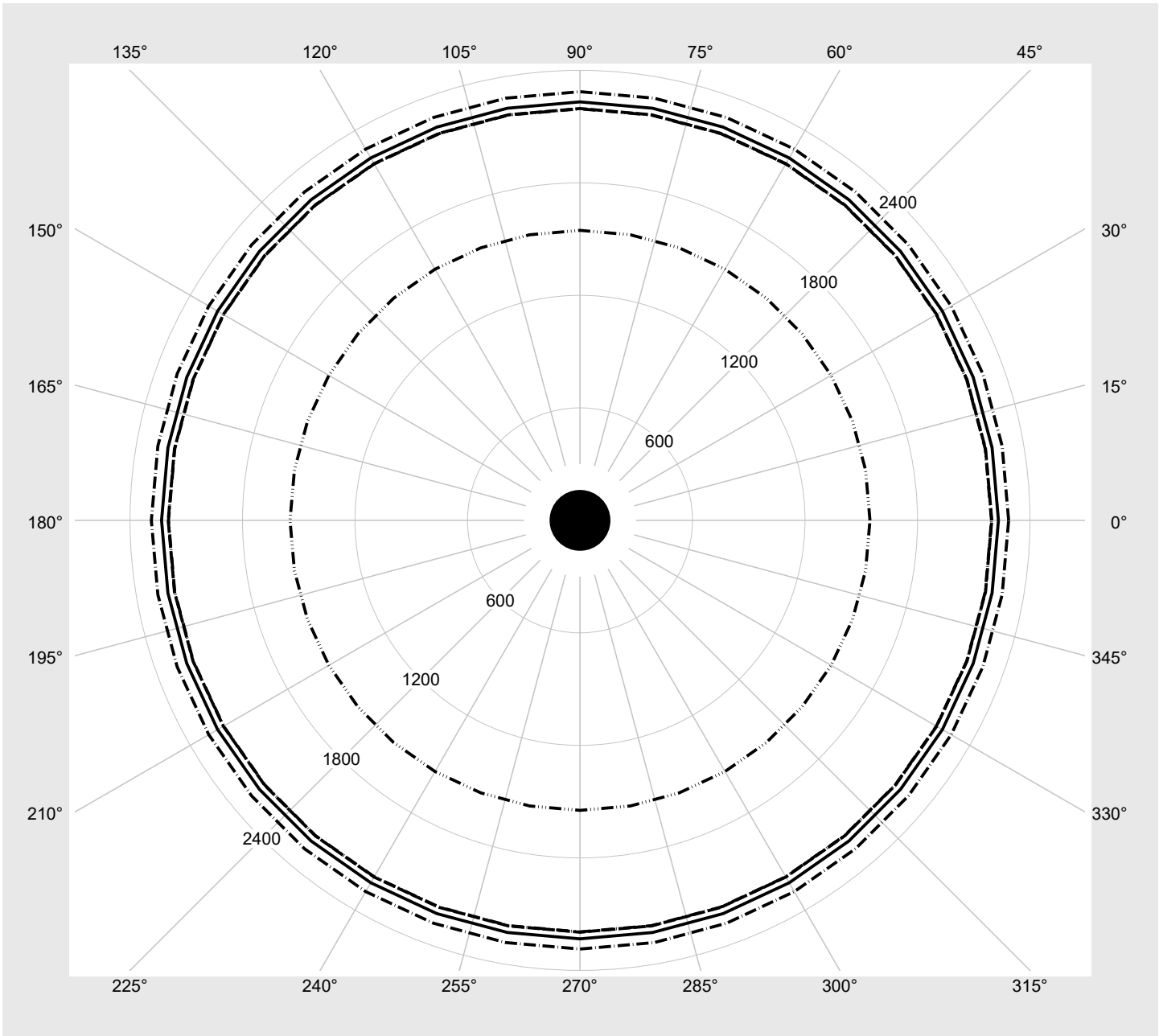
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

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Multilumen Table	environmental temperature: 25°C	sITeco
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DIP-Step	Switch Setting				Luminous flux [lm]	Power consumption [W]
	1	2	3	4		
7	OFF	ON	ON	ON	3740	21.7
6	OFF	ON	ON	OFF	3570	20.6
5	OFF	ON	OFF	ON	3380	19.1
4	OFF	ON	OFF	OFF	3190	17.7
3	OFF	OFF	ON	ON	2780	15.3
2	OFF	OFF	ON	OFF	2480	13.6
1	OFF	OFF	OFF	ON	2220	12.1
0	OFF	OFF	OFF	OFF	1910	10.4