

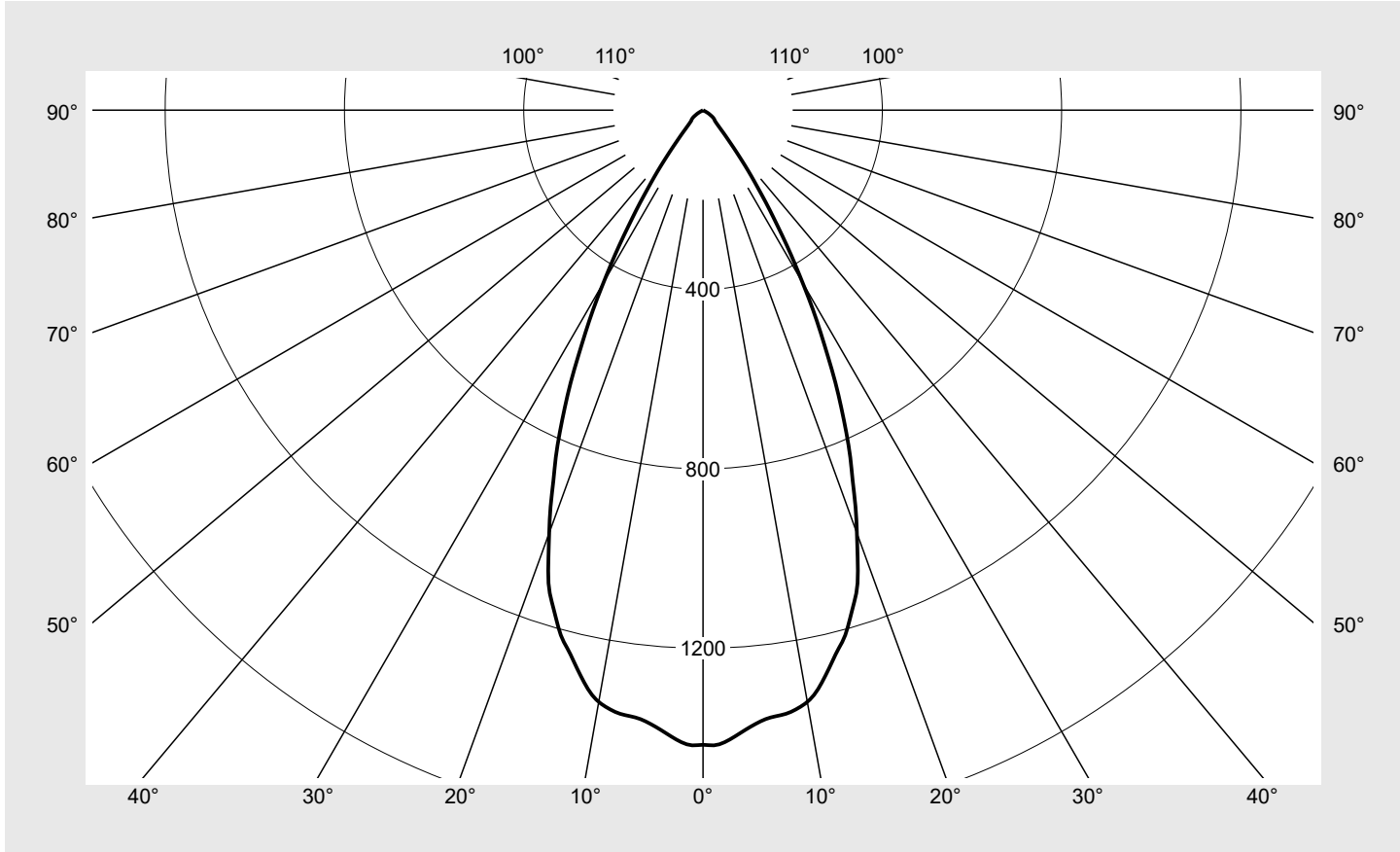


Photometric test report

Family Lunis 21	Order number: 51DB19MC91C EAN: 4069025012913	LP number 59573_36
	Version	recessed luminaire, Combined lens and reflector optics, reflector, aluminium, matt, rotationally symmetrical medium distribution, adjustable color temperature: 3000K 4000K 6500K, UGR≤19 (L65≤3000cd/m²)
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG Multilumen
	Setting	factory setting: DIP-Step=4, colour temperature 4000K
	Rated values	Net luminous flux = 1770 lm Power consumption = 10.6 W Luminous efficacy = 167 lm/W
		serial documentation 11.04.2024
		

Luminous intensity in cd/klm C180-0 **Imax: 1417 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=95 N2=100 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
		siteco

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
0°	1415.3	0.3	0.3
1°	1416.8	2.7	3.1
2°	1409.9	5.4	8.4
3°	1397.4	8.0	16.5
4°	1384.1	10.6	27.1
5°	1372.7	13.1	40.2
6°	1364.4	15.6	55.8
7°	1361.0	18.2	74.0
8°	1358.1	20.7	94.7
9°	1350.7	23.2	117.9
10°	1340.1	25.5	143.4
11°	1322.2	27.7	171.1
12°	1296.4	29.6	200.6
13°	1268.5	31.3	231.9
14°	1241.6	32.9	264.9
15°	1217.8	34.6	299.4
16°	1184.9	35.8	335.3
17°	1150.7	36.9	372.1
18°	1114.5	37.8	409.9
19°	1059.7	37.8	447.7
20°	1003.6	37.6	485.4
21°	949.8	37.3	522.7
22°	891.3	36.6	559.3
23°	840.7	36.0	595.4
24°	785.1	35.0	630.4
25°	728.0	33.7	664.1
26°	670.9	32.3	696.4
27°	609.9	30.4	726.7
28°	554.4	28.5	755.3
29°	500.5	26.6	781.9
30°	444.1	24.4	806.2
31°	393.2	22.2	828.4
32°	344.6	20.0	848.5
33°	297.9	17.8	866.2
34°	258.6	15.9	882.1
35°	219.9	13.8	895.9
36°	188.6	12.2	908.1
37°	159.9	10.6	918.7
38°	133.0	9.0	927.6
39°	111.0	7.7	935.3
40°	92.3	6.5	941.8
41°	78.5	5.6	947.4
42°	67.1	4.9	952.4
43°	57.6	4.3	956.7
44°	50.8	3.9	960.5
45°	45.3	3.5	964.1
46°	41.3	3.3	967.3

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
47°	38.2	3.1	970.4
48°	35.6	2.9	973.3
49°	34.3	2.8	976.1
50°	33.5	2.8	978.9
51°	32.0	2.7	981.7
52°	30.5	2.6	984.3
53°	28.9	2.5	986.8
54°	26.7	2.4	989.2
55°	24.2	2.2	991.4
56°	20.9	1.9	993.3
57°	18.3	1.7	994.9
58°	16.1	1.5	996.4
59°	13.5	1.3	997.7
60°	9.6	0.9	998.6
61°	6.6	0.6	999.2
62°	4.1	0.4	999.7
63°	2.1	0.2	999.9
64°	0.7	0.1	999.9
65°	0.3	0.0	1000.0
66°	0.3	0.0	1000.0
67°	0.0	0.0	1000.0
68°	0.0	0.0	1000.0
69°	0.1	0.0	1000.0
70°	0.0	0.0	1000.0
71°	0.0	0.0	1000.0
72°	0.0	0.0	1000.0
73°	0.0	0.0	1000.0
74°	0.0	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
91°	0.0	0.0	1000.0
180°	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	18.6	19.8	19.0	20.1	20.4	18.6	19.8	19.0	20.1	20.4
	3H	18.5	19.5	18.9	19.8	20.1	18.5	19.5	18.9	19.8	20.1
	4H	18.4	19.3	18.8	19.6	20.0	18.4	19.3	18.8	19.6	20.0
	6H	18.3	19.1	18.7	19.5	19.9	18.3	19.1	18.7	19.5	19.9
	8H	18.4	19.0	18.9	19.4	19.8	18.4	19.0	18.9	19.4	19.8
	12H	18.4	18.9	18.8	19.3	19.8	18.4	18.9	18.8	19.3	19.8
4H	2H	18.5	19.3	18.9	19.7	20.1	18.5	19.3	18.9	19.7	20.1
	3H	18.3	19.0	18.7	19.4	19.8	18.3	19.0	18.7	19.4	19.8
	4H	18.2	18.8	18.6	19.2	19.7	18.2	18.8	18.6	19.2	19.7
	6H	18.1	18.6	18.5	19.0	19.5	18.1	18.6	18.5	19.0	19.5
	8H	18.0	18.5	18.5	19.0	19.4	18.0	18.5	18.5	19.0	19.4
	12H	18.0	18.4	18.5	18.9	19.4	18.0	18.4	18.5	18.9	19.4
8H	4H	18.0	18.5	18.5	19.0	19.4	18.0	18.5	18.5	19.0	19.4
	6H	17.9	18.3	18.4	18.8	19.3	17.9	18.3	18.4	18.8	19.3
	8H	17.8	18.2	18.4	18.7	19.2	17.8	18.2	18.4	18.7	19.2
	12H	17.8	18.1	18.3	18.6	19.1	17.8	18.1	18.3	18.6	19.1
12H	4H	18.0	18.4	18.5	18.9	19.4	18.0	18.4	18.5	18.9	19.4
	6H	17.9	18.2	18.4	18.7	19.2	17.9	18.2	18.4	18.7	19.2
	8H	17.8	18.1	18.3	18.6	19.1	17.8	18.1	18.3	18.6	19.1

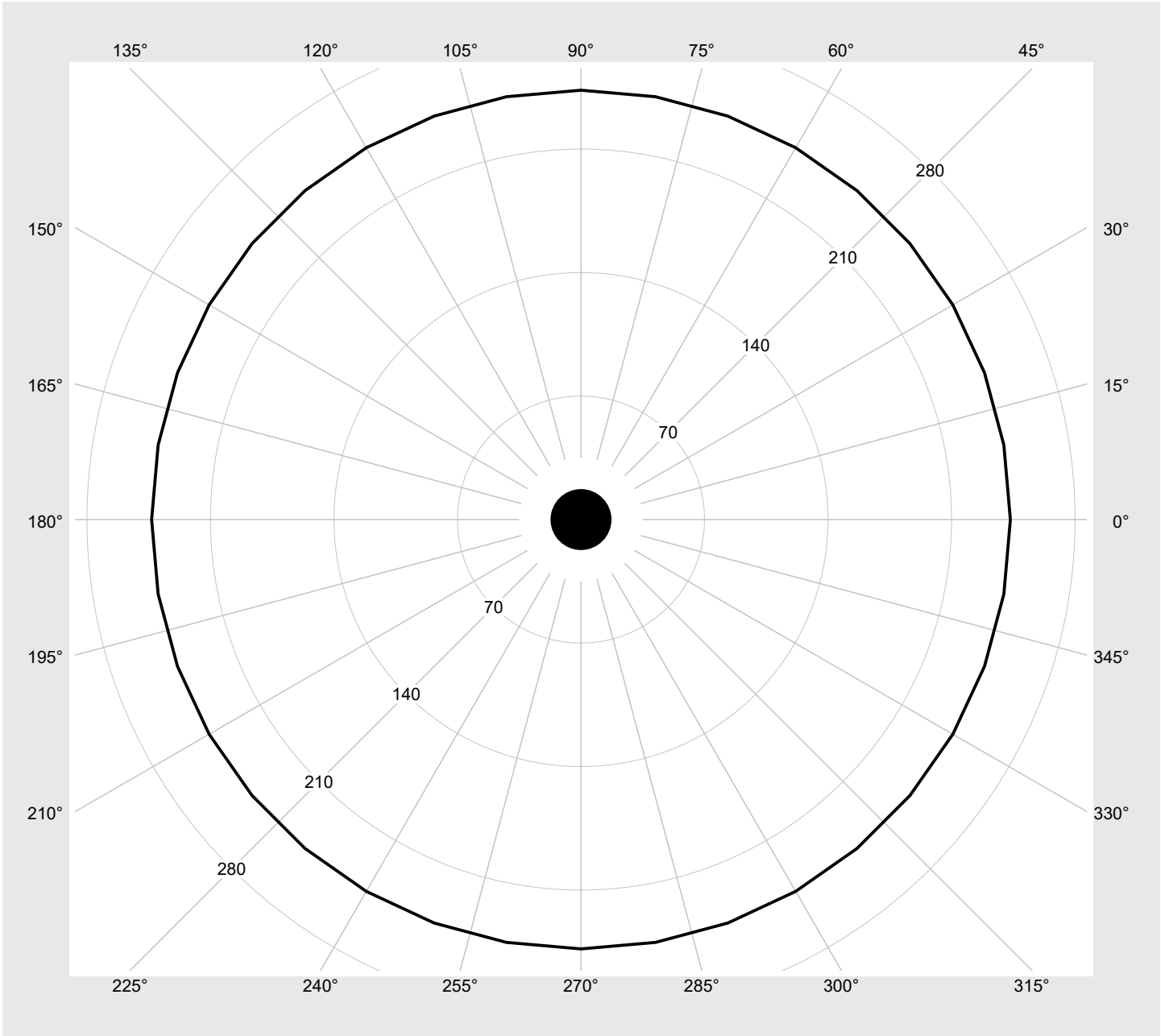
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 84
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C-planes	0°
γ	Luminance in cd/m²
45°	20440.3
50°	16651.2
55°	13447.8
60°	6125.9
65°	243.4
70°	0.0
75°	0.0
80°	0.0
85°	0.0

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



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Lunis 21

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LP number
59573_36

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	3880	25.5
11	ON	OFF	ON	ON	3570	22.1
10	ON	OFF	ON	OFF	3350	20.6
9	ON	OFF	OFF	ON	3170	19.5
8	ON	OFF	OFF	OFF	2950	18.0
7	OFF	ON	ON	ON	2590	15.7
6	OFF	ON	ON	OFF	2310	13.9
5	OFF	ON	OFF	ON	2060	12.4
4	OFF	ON	OFF	OFF	1770	10.6
3	OFF	OFF	ON	ON	1620	9.7
2	OFF	OFF	ON	OFF	1340	8.0
1	OFF	OFF	OFF	ON	1020	6.1
0	OFF	OFF	OFF	OFF	730	4.4