

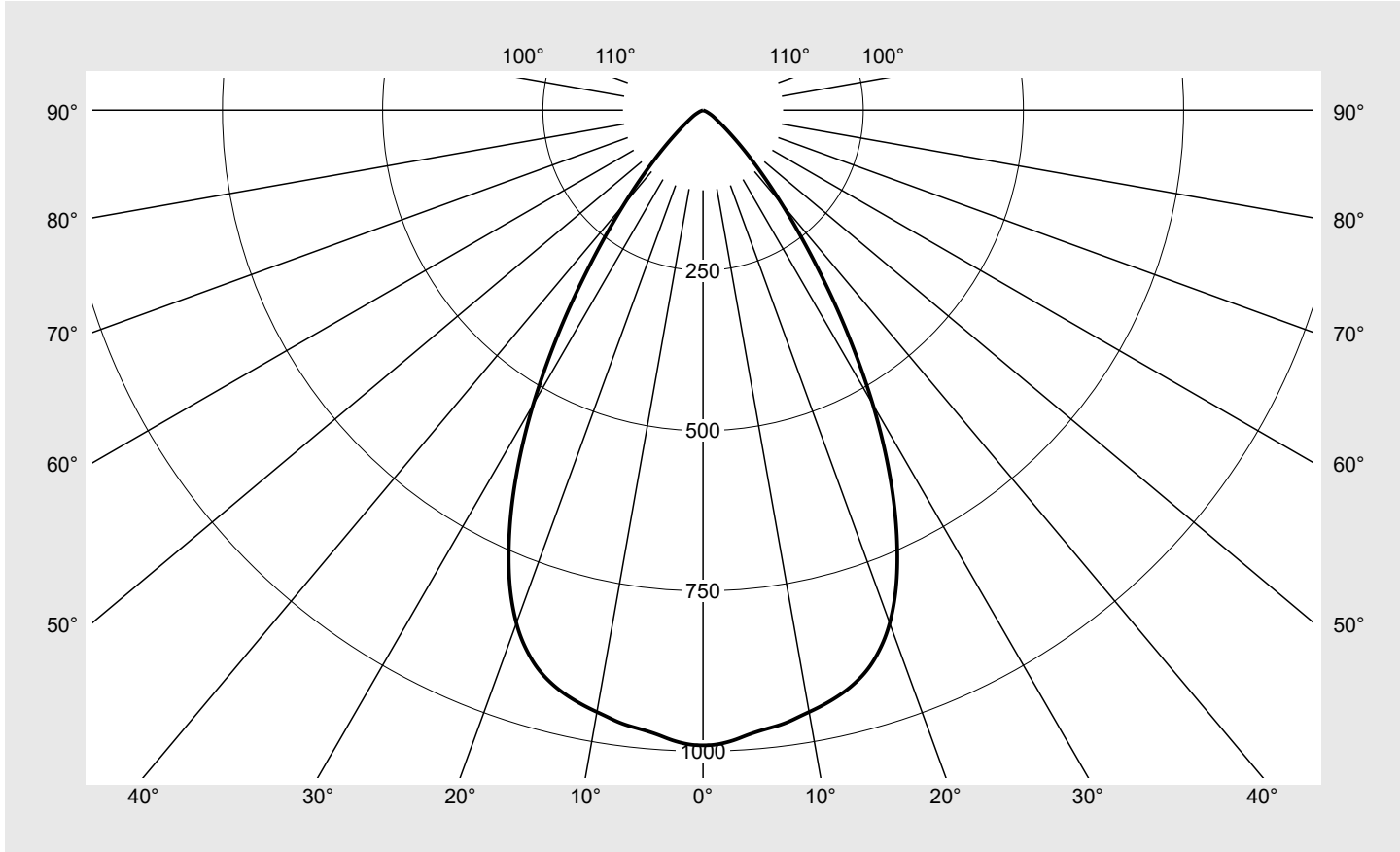


Photometric test report

Family Lunis 21	Order number: 51DB15ED91C EAN: 4069025013422	LP number 59250_12
	Version	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)
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG Multilumen
	Setting	factory setting: DIP-Step=5, colour temperature 4000K
	Rated values	Net luminous flux = 2120 lm Power consumption = 12.2 W Luminous efficacy = 173.8 lm/W
		serial documentation 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	
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°	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
γ	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	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	18.9	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

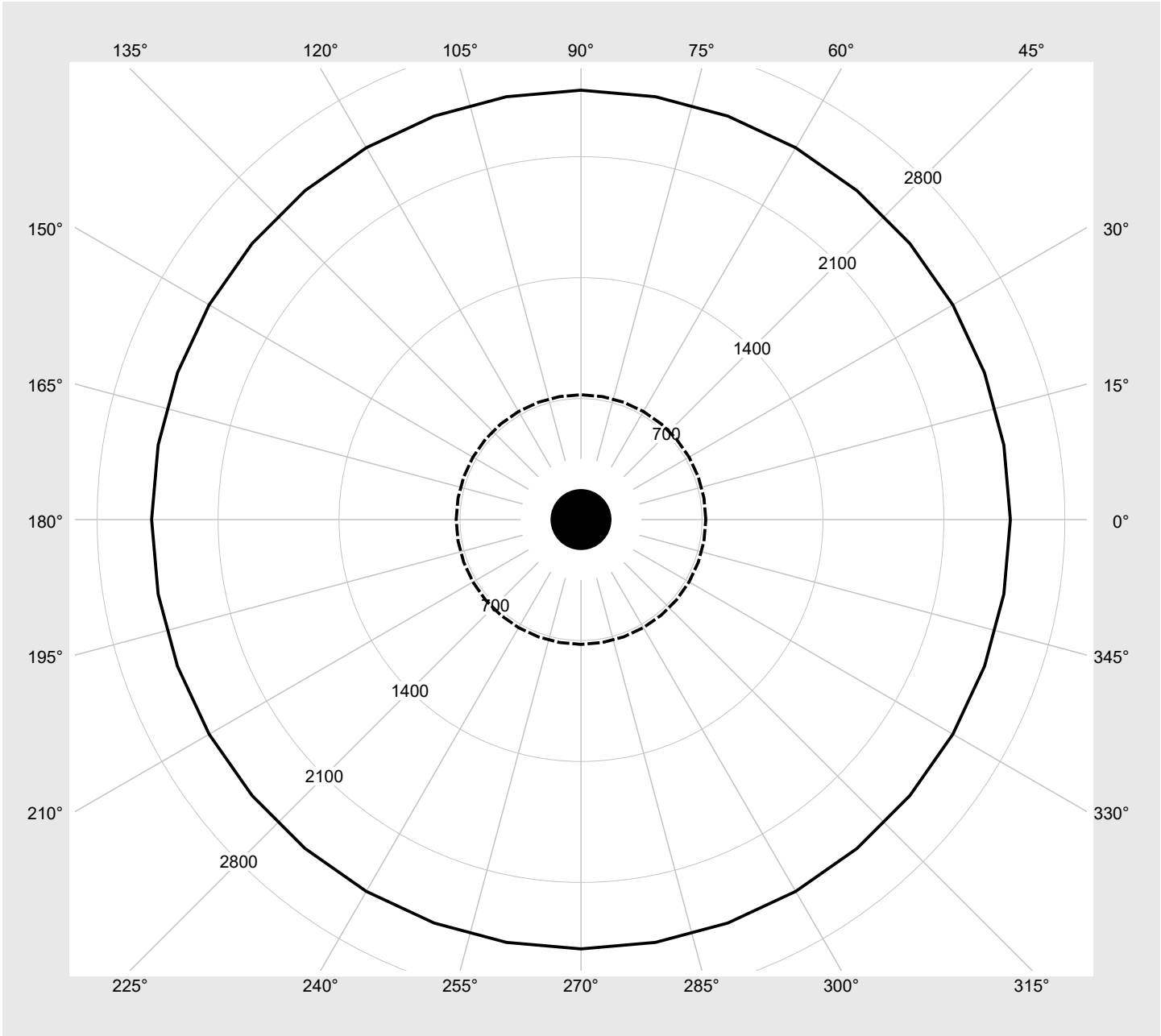
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 135
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C-planes	0°
γ	Luminance in cd/m²
45°	21091.0
50°	11400.2
55°	6750.6
60°	4602.9
65°	2484.7
70°	722.3
75°	21.7
80°	15.4
85°	32.3

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



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Family
Lunis 21

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EAN: 4069025013422

LP number
59250_12

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