

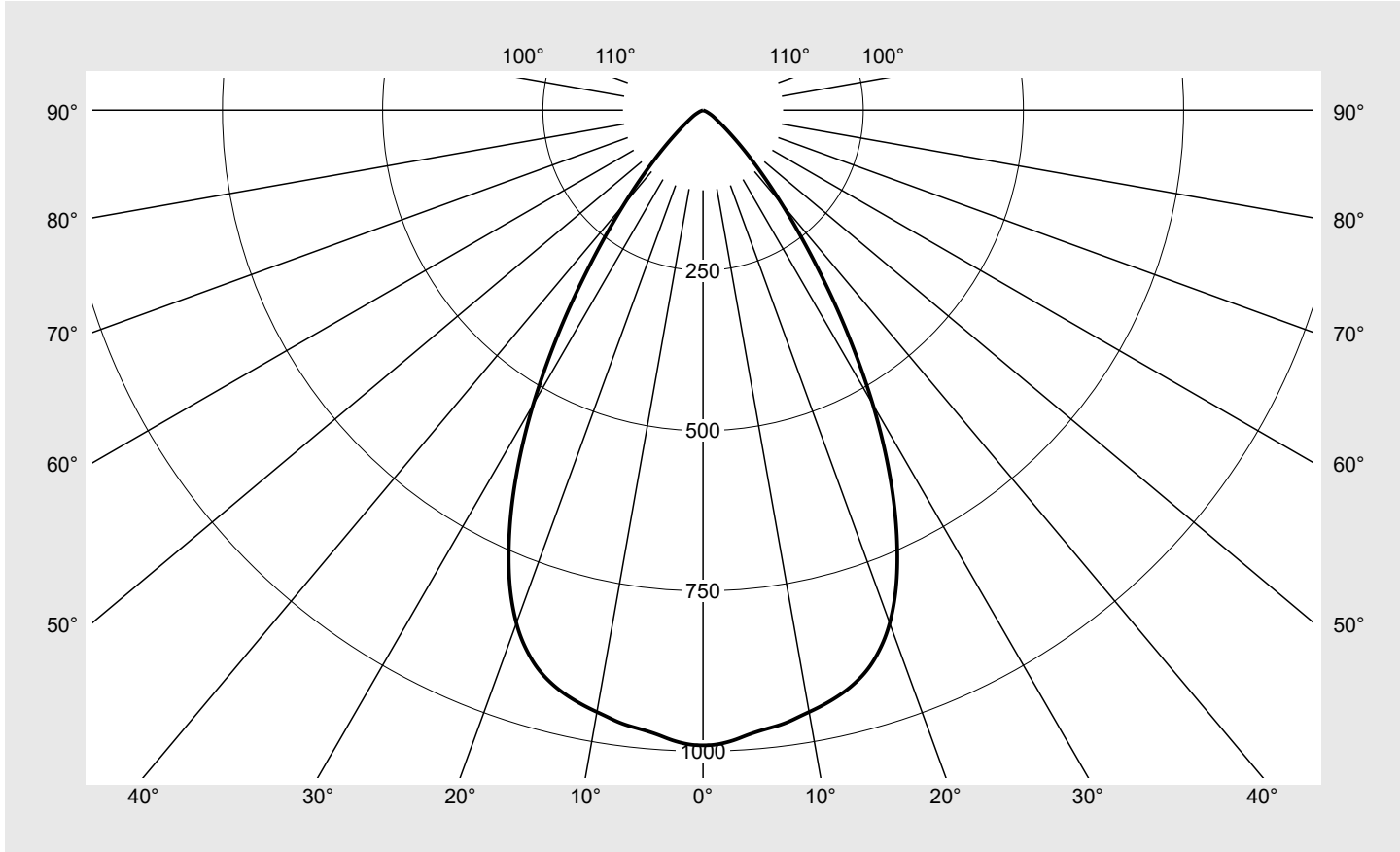


Photometric test report

Family Lunis 21	Order number: 51DB19MD91C EAN: 4069025012906	LP number 59250_11
	Version	recessed luminaire, Combined lens and reflector optics, reflector, aluminium, matt, 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=1, colour temperature 4000K
	Rated values	Net luminous flux = 2070 lm Power consumption = 12.2 W Luminous efficacy = 169.7 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
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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									
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	18.8	20.1	19.2	20.4	20.7	18.8	20.1	19.2	20.4	20.7
	3H	18.7	19.8	19.1	20.1	20.5	18.7	19.8	19.1	20.1	20.5
	4H	18.6	19.6	19.0	20.0	20.3	18.6	19.6	19.0	20.0	20.3
	6H	18.6	19.4	19.0	19.8	20.2	18.6	19.4	19.0	19.8	20.2
	8H	18.7	19.4	19.1	19.8	20.2	18.7	19.4	19.1	19.8	20.2
	12H	18.6	19.3	19.1	19.7	20.1	18.6	19.3	19.1	19.7	20.1
4H	2H	18.7	19.7	19.1	20.0	20.4	18.7	19.7	19.1	20.0	20.4
	3H	18.5	19.3	19.0	19.7	20.1	18.5	19.3	19.0	19.7	20.1
	4H	18.4	19.2	18.9	19.6	20.0	18.4	19.2	18.9	19.6	20.0
	6H	18.4	19.0	18.8	19.4	19.9	18.4	19.0	18.8	19.4	19.9
	8H	18.3	18.8	18.8	19.3	19.8	18.3	18.8	18.8	19.3	19.8
	12H	18.3	18.7	18.8	19.2	19.7	18.3	18.7	18.8	19.2	19.7
8H	4H	18.3	18.8	18.8	19.3	19.8	18.3	18.8	18.8	19.3	19.8
	6H	18.2	18.6	18.7	19.1	19.6	18.2	18.6	18.7	19.1	19.6
	8H	18.1	18.5	18.7	19.0	19.5	18.1	18.5	18.7	19.0	19.5
	12H	18.1	18.4	18.6	18.9	19.5	18.1	18.4	18.6	18.9	19.5
12H	4H	18.3	18.7	18.8	19.2	19.7	18.3	18.7	18.8	19.2	19.7
	6H	18.2	18.5	18.7	19.0	19.5	18.2	18.5	18.7	19.0	19.5
	8H	18.1	18.4	18.6	18.9	19.5	18.1	18.4	18.6	18.9	19.5

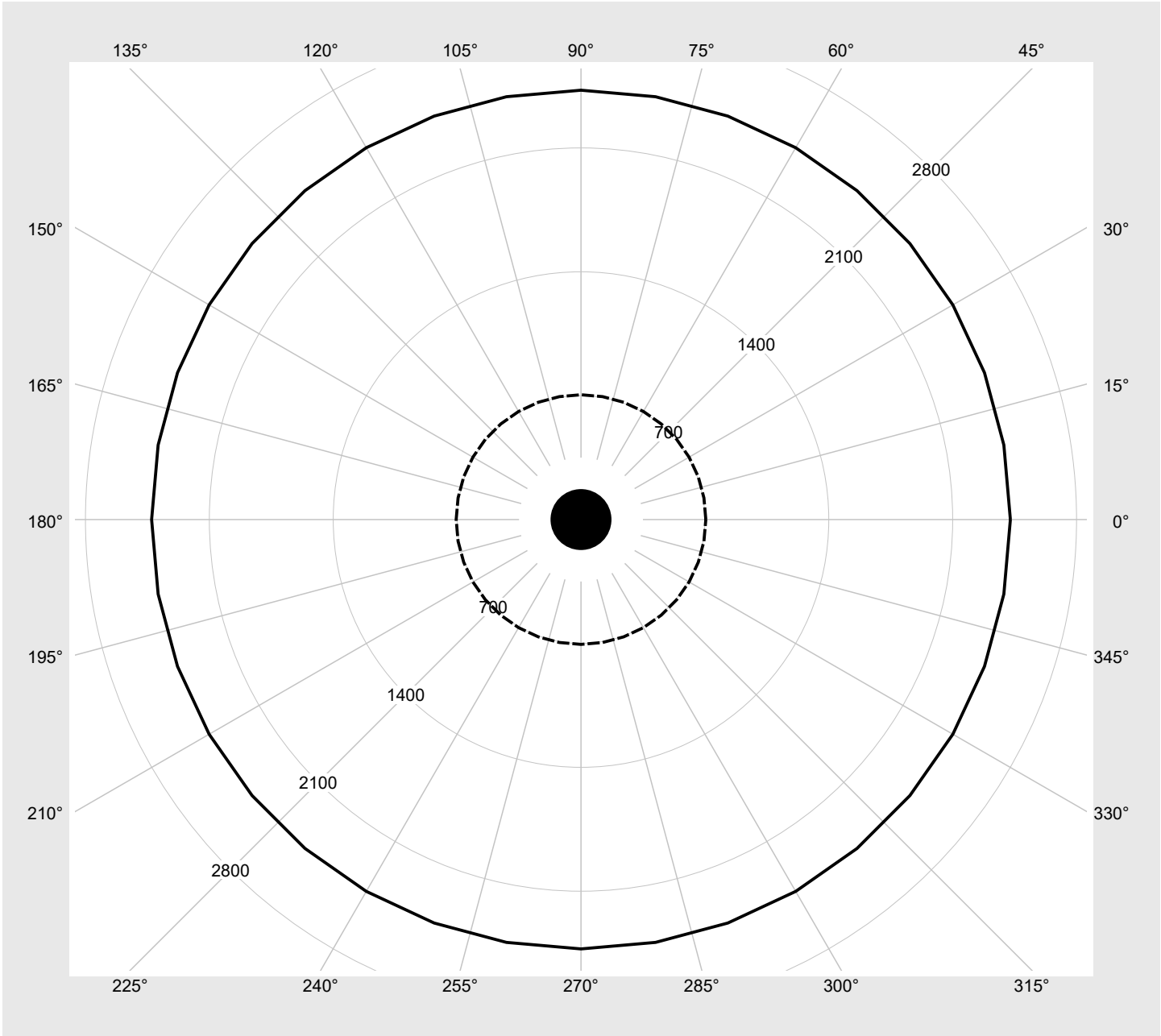
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 135
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C-planes	0°
γ	Luminance in cd/m ²
45°	20593.6
50°	11131.4
55°	6591.4
60°	4494.3
65°	2426.1
70°	705.3
75°	21.2
80°	15.0
85°	31.5

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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	
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DIP-Step	Switch Setting				Luminous flux [lm]	Power consumption [W]
	1	2	3	4		
7	OFF	ON	ON	ON	3600	21.7
6	OFF	ON	ON	OFF	3370	20.3
5	OFF	ON	OFF	ON	3210	19.2
4	OFF	ON	OFF	OFF	2980	17.7
3	OFF	OFF	ON	ON	2610	15.5
2	OFF	OFF	ON	OFF	2330	13.7
1	OFF	OFF	OFF	ON	2070	12.2
0	OFF	OFF	OFF	OFF	1780	10.5