
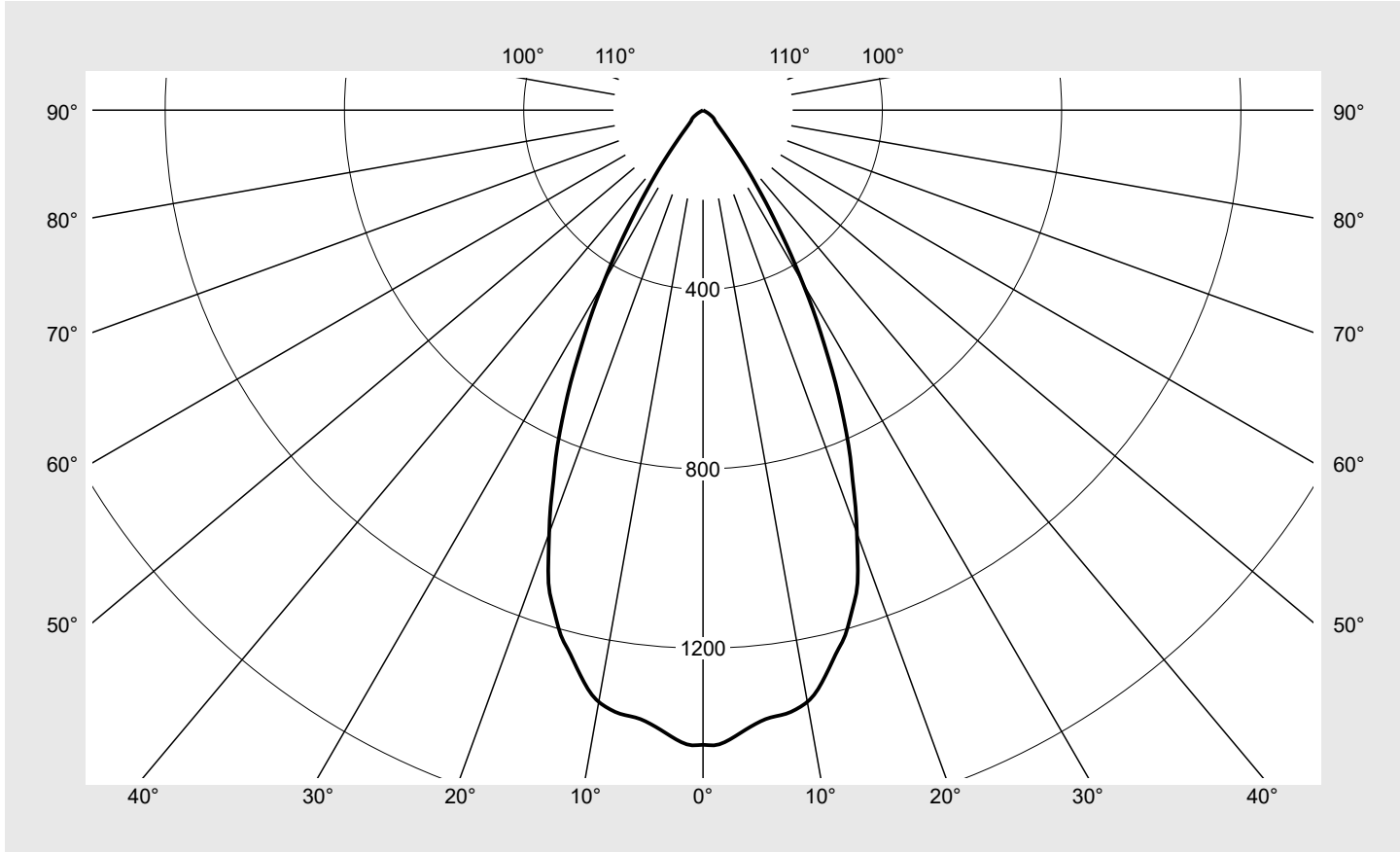


Photometric test report

Family Lunis 21 	Order number: 51DB19TC91C EAN: 4058352048757	LP number 59573_44
	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)	serial documentation 11.04.2024
Lamps LED 4000 K CRI ≥ 80		
Controlgear ECG Multilumen		
Setting factory setting: DIP-Step=4, colour temperature 4000K	Rated values Net luminous flux = 1730 lm Power consumption = 11.0 W Luminous efficacy = 157.3 lm/W	

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	19.7	18.9	20.0	20.3	18.6	19.7	18.9	20.0	20.3
	3H	18.4	19.4	18.8	19.7	20.1	18.4	19.4	18.8	19.7	20.1
	4H	18.3	19.2	18.7	19.6	19.9	18.3	19.2	18.7	19.6	19.9
	6H	18.2	19.0	18.7	19.4	19.8	18.2	19.0	18.7	19.4	19.8
	8H	18.3	19.0	18.8	19.3	19.8	18.3	19.0	18.8	19.3	19.8
	12H	18.3	18.9	18.7	19.3	19.7	18.3	18.9	18.7	19.3	19.7
4H	2H	18.4	19.3	18.8	19.6	20.0	18.4	19.3	18.8	19.6	20.0
	3H	18.2	18.9	18.6	19.3	19.7	18.2	18.9	18.6	19.3	19.7
	4H	18.1	18.7	18.5	19.1	19.6	18.1	18.7	18.5	19.1	19.6
	6H	18.0	18.5	18.5	19.0	19.4	18.0	18.5	18.5	19.0	19.4
	8H	18.0	18.4	18.4	18.9	19.4	18.0	18.4	18.4	18.9	19.4
	12H	18.0	18.3	18.5	18.8	19.3	18.0	18.3	18.5	18.8	19.3
8H	4H	18.0	18.4	18.4	18.9	19.4	18.0	18.4	18.4	18.9	19.4
	6H	17.8	18.2	18.3	18.7	19.2	17.8	18.2	18.3	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
	12H	17.7	18.0	18.3	18.5	19.0	17.7	18.0	18.3	18.5	19.0
12H	4H	18.0	18.3	18.5	18.8	19.3	18.0	18.3	18.5	18.8	19.3
	6H	17.8	18.1	18.3	18.6	19.1	17.8	18.1	18.3	18.6	19.1
	8H	17.7	18.0	18.3	18.5	19.0	17.7	18.0	18.3	18.5	19.0

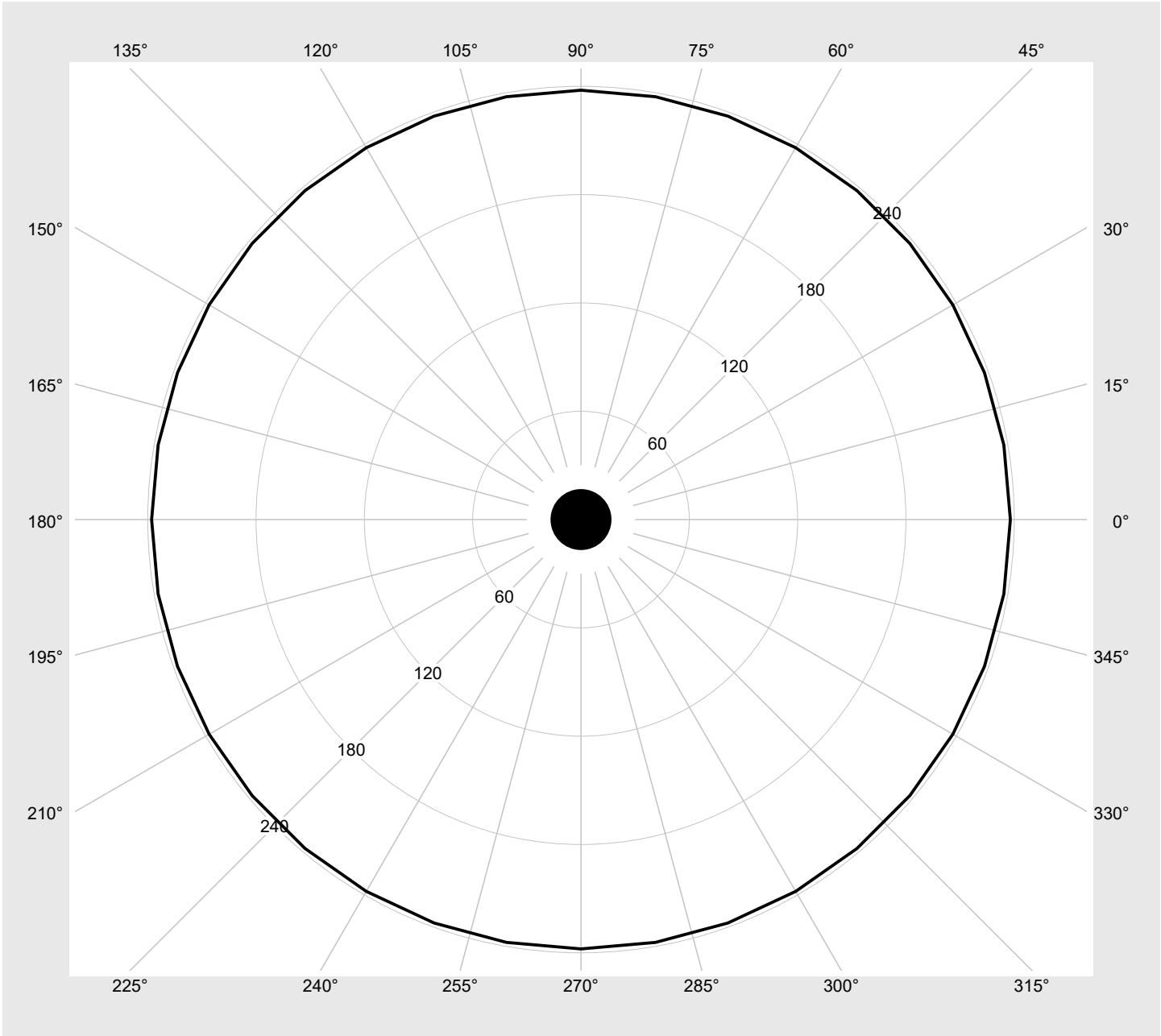
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 84
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C-planes	0°
γ	Luminance in cd/m²
45°	19978.4
50°	16274.9
55°	13143.9
60°	5987.5
65°	237.9
70°	0.0
75°	0.0
80°	0.0
85°	0.0

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



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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		
12	ON	ON	OFF	OFF	3750	26.0
11	ON	OFF	ON	ON	3470	24.0
10	ON	OFF	ON	OFF	3240	22.0
9	ON	OFF	OFF	ON	3040	20.0
8	ON	OFF	OFF	OFF	2850	19.0
7	OFF	ON	ON	ON	2510	17.0
6	OFF	ON	ON	OFF	2240	15.0
5	OFF	ON	OFF	ON	2000	13.0
4	OFF	ON	OFF	OFF	1730	11.0
3	OFF	OFF	ON	ON	1520	10.0
2	OFF	OFF	ON	OFF	1250	8.0
1	OFF	OFF	OFF	ON	960	6.0
0	OFF	OFF	OFF	OFF	690	3.0