

Photometric test report

Family
Lunis 21

Order number: 51DB15MD91C
EAN: 4069025013385

LP number
59675_3



Version

recessed luminaire, Combined lens and reflector optics, reflector, highly specular, rotationally symmetrical wide distribution, adjustable color temperature: 3000K | 4000K | 6500K, UGR≤19 (L65≤1000cd/m²)

Lamps

LED 6500 K | CRI ≥ 80

Controlgear

ECG Multilumen

Setting

individual position: DIP-Step=1, colour temperature 6500K

Rated values

Net luminous flux = 2160 lm
Power consumption = 12.2 W
Luminous efficacy = 177 lm/W

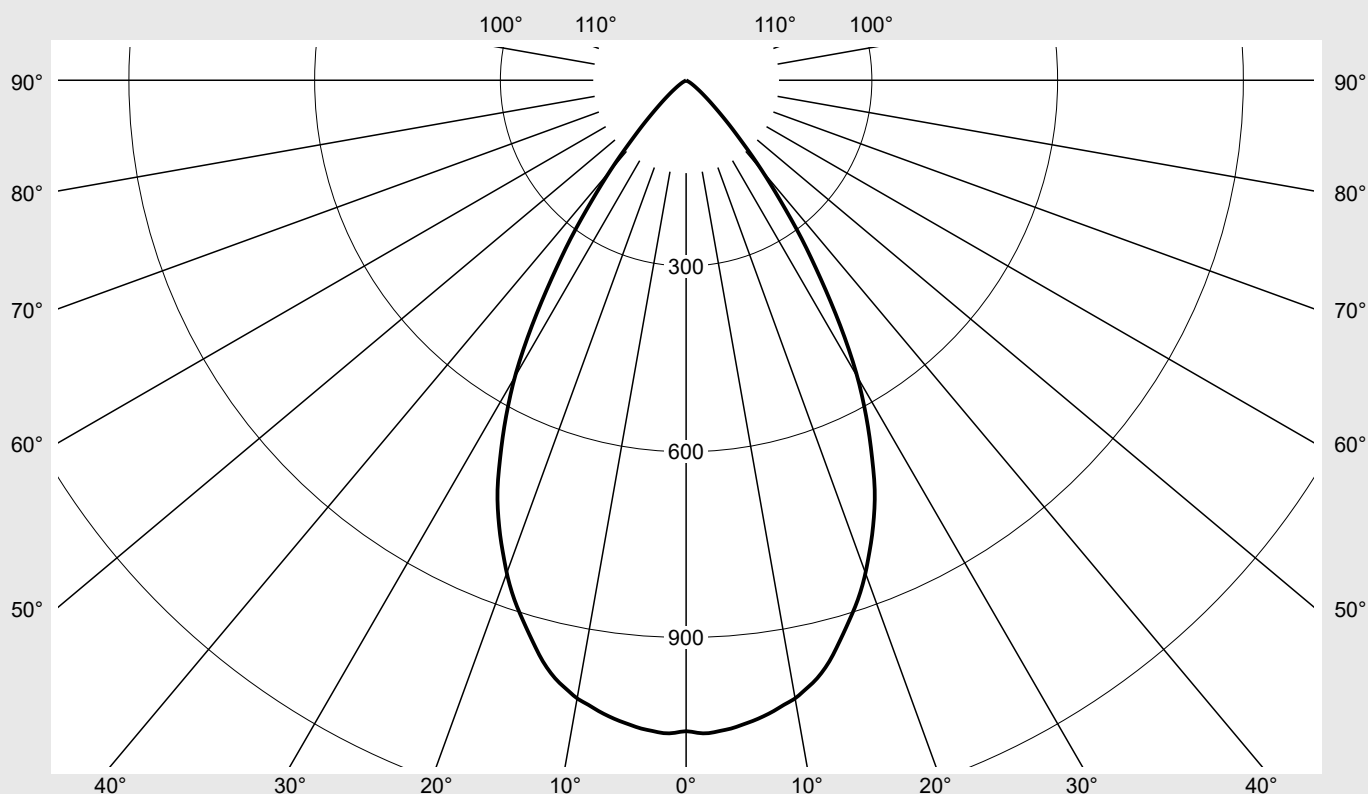
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documentation
27.09.2024

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Luminous intensity in cd/klm

C180-0

Imax: 1055 cd/klm



Classifications

DIN 5040 A 7 0
CIE N1=93 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

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C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
0°	1051.3	0.3	0.3
1°	1054.1	2.0	2.3
2°	1055.1	4.0	6.3
3°	1052.3	6.0	12.3
4°	1049.5	8.0	20.4
5°	1044.8	10.0	30.4
6°	1040.1	11.9	42.3
7°	1034.4	13.8	56.1
8°	1027.9	15.7	71.8
9°	1020.4	17.5	89.3
10°	1013.8	19.3	108.6
11°	1003.5	21.0	129.6
12°	993.1	22.6	152.2
13°	980.0	24.2	176.4
14°	964.0	25.6	202.0
15°	945.3	26.8	228.8
16°	926.4	28.0	256.8
17°	907.8	29.1	285.9
18°	889.3	30.1	316.1
19°	869.1	31.0	347.1
20°	847.0	31.8	378.9
21°	823.0	32.3	411.2
22°	799.5	32.8	444.0
23°	774.6	33.2	477.2
24°	748.7	33.4	510.6
25°	719.9	33.4	544.0
26°	687.0	33.0	577.0
27°	654.5	32.6	609.6
28°	621.8	32.0	641.6
29°	588.0	31.3	672.9
30°	553.1	30.3	703.2
31°	514.2	29.0	732.2
32°	473.7	27.5	759.8
33°	432.5	25.8	785.6
34°	392.6	24.1	809.7
35°	355.2	22.3	832.0
36°	320.3	20.6	852.7
37°	283.8	18.7	871.4
38°	249.3	16.8	888.2
39°	218.8	15.1	903.3
40°	190.7	13.4	916.8
41°	164.1	11.8	928.6
42°	138.8	10.2	938.8
43°	118.3	8.8	947.6
44°	101.1	7.7	955.3
45°	85.3	6.6	961.9
46°	72.0	5.7	967.6

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
47°	60.7	4.9	972.5
48°	51.8	4.2	976.7
49°	43.7	3.6	980.3
50°	36.9	3.1	983.4
51°	31.3	2.7	986.1
52°	26.4	2.3	988.3
53°	21.9	1.9	990.3
54°	18.6	1.7	991.9
55°	15.6	1.4	993.3
56°	12.9	1.2	994.5
57°	10.7	1.0	995.5
58°	8.7	0.8	996.3
59°	7.0	0.7	996.9
60°	5.4	0.5	997.5
61°	4.2	0.4	997.9
62°	3.1	0.3	998.2
63°	2.2	0.2	998.4
64°	1.6	0.2	998.5
65°	1.1	0.1	998.7
66°	0.8	0.1	998.7
67°	0.6	0.1	998.8
68°	0.6	0.1	998.9
69°	0.6	0.1	998.9
70°	0.6	0.1	999.0
71°	0.6	0.1	999.0
72°	0.6	0.1	999.1
73°	0.6	0.1	999.2
74°	0.6	0.1	999.2
75°	0.5	0.1	999.3
76°	0.5	0.1	999.3
77°	0.5	0.1	999.4
78°	0.5	0.1	999.4
79°	0.5	0.1	999.5
80°	0.5	0.1	999.5
81°	0.5	0.1	999.6
82°	0.5	0.1	999.6
83°	0.5	0.1	999.7
84°	0.5	0.1	999.8
85°	0.5	0.1	999.8
86°	0.5	0.1	999.9
87°	0.5	0.0	999.9
88°	0.4	0.0	1000.0
89°	0.4	0.0	1000.0
90°	0.0	0.0	1000.0
180°	0.0	0.0	1000.0

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UGR-Table			Standard room							siteco	
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	18.7	19.9	19.1	20.2	20.6	18.7	19.9	19.1	20.2	20.6
	3H	18.6	19.6	19.0	20.0	20.3	18.6	19.6	19.0	20.0	20.3
	4H	18.5	19.5	18.9	19.8	20.2	18.5	19.5	18.9	19.8	20.2
	6H	18.4	19.3	18.9	19.7	20.1	18.4	19.3	18.9	19.7	20.1
	8H	18.5	19.2	19.0	19.6	20.0	18.5	19.2	19.0	19.6	20.0
	12H	18.5	19.1	18.9	19.5	19.9	18.5	19.1	18.9	19.5	19.9
4H	2H	18.5	19.5	18.9	19.8	20.2	18.5	19.5	18.9	19.8	20.2
	3H	18.4	19.1	18.8	19.5	19.9	18.4	19.1	18.8	19.5	19.9
	4H	18.3	18.9	18.7	19.4	19.8	18.3	18.9	18.7	19.4	19.8
	6H	18.2	18.7	18.6	19.2	19.7	18.2	18.7	18.6	19.2	19.7
	8H	18.1	18.6	18.6	19.1	19.6	18.1	18.6	18.6	19.1	19.6
	12H	18.1	18.5	18.6	19.0	19.5	18.1	18.5	18.6	19.0	19.5
8H	4H	18.1	18.6	18.6	19.1	19.6	18.1	18.6	18.6	19.1	19.6
	6H	18.0	18.4	18.5	18.9	19.4	18.0	18.4	18.5	18.9	19.4
	8H	17.9	18.3	18.5	18.8	19.3	17.9	18.3	18.5	18.8	19.3
	12H	17.9	18.2	18.5	18.7	19.3	17.9	18.2	18.5	18.7	19.3
12H	4H	18.1	18.5	18.6	19.0	19.5	18.1	18.5	18.6	19.0	19.5
	6H	18.0	18.3	18.5	18.8	19.3	18.0	18.3	18.5	18.8	19.3
	8H	17.9	18.2	18.5	18.7	19.3	17.9	18.2	18.5	18.7	19.3

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 135
C-planes		0°		
γ	Luminance in cd/m²			
45°	18197.3			
50°	8655.9			
55°	4096.8			
60°	1642.4			
65°	393.8			
70°	256.3			
75°	316.0			
80°	431.9			
85°	801.6			

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Luminance values in cd/m²

γ 65°

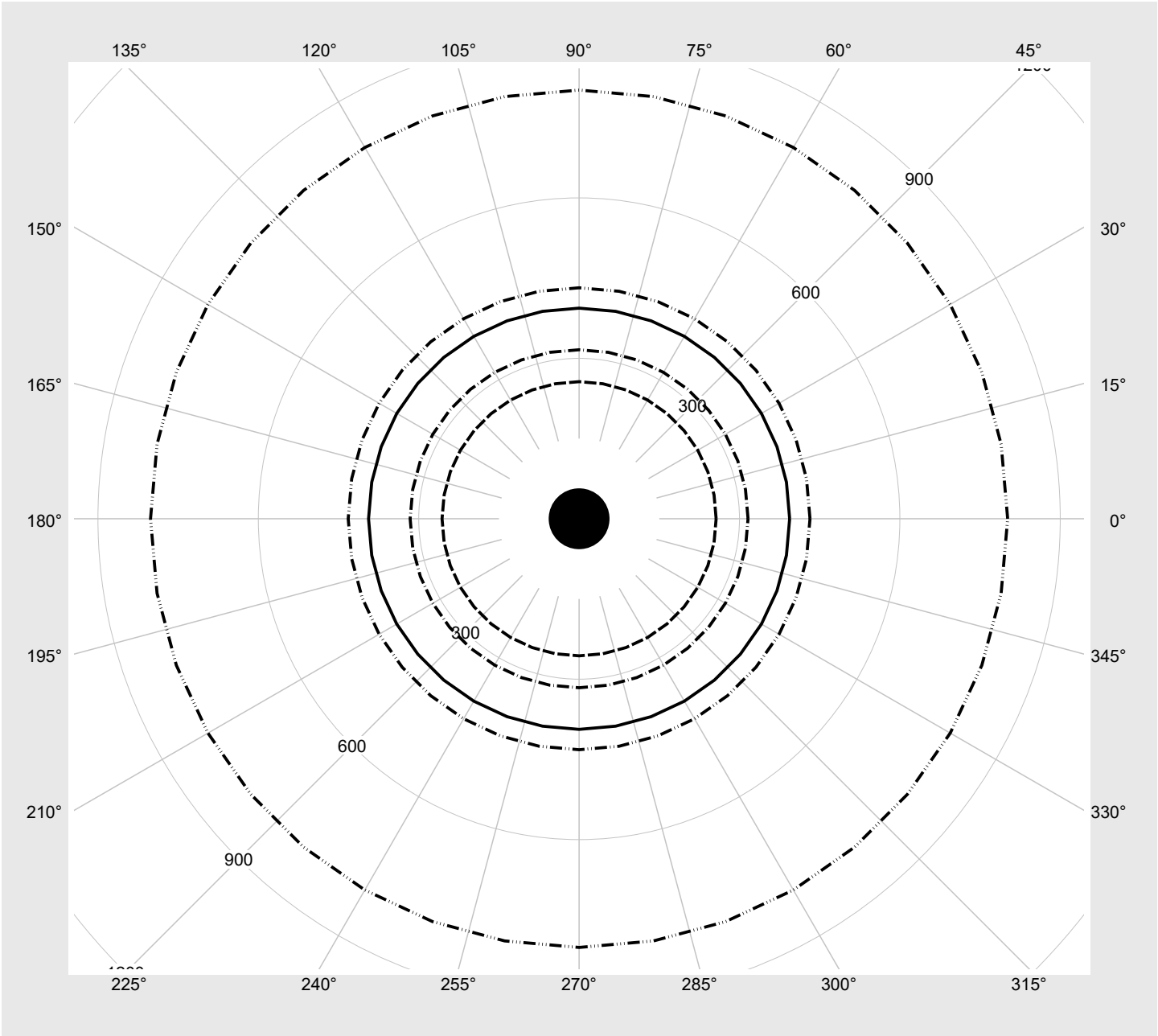
γ 70°

γ 75°

γ 80°

γ 85°

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Multilumen Table	environmental temperature: 25°C	siteco

DIP-Step	Switch Setting				Luminous flux [lm]	Power consumption [W]
	1	2	3	4		
7	OFF	ON	ON	ON	3750	21.7
6	OFF	ON	ON	OFF	3510	20.3
5	OFF	ON	OFF	ON	3350	19.2
4	OFF	ON	OFF	OFF	3110	17.7
3	OFF	OFF	ON	ON	2720	15.5
2	OFF	OFF	ON	OFF	2430	13.7
1	OFF	OFF	OFF	ON	2160	12.2
0	OFF	OFF	OFF	OFF	1850	10.5