

Photometric test report

Family
Lunis 21

Order number: 51DB17MC91C
EAN: 4069025013156

LP number
59678_3

serial
documentation
27.09.2024

siteco

Version

recessed luminaire, Combined lens and reflector optics, reflector, black, rotationally symmetrical medium distribution, adjustable color temperature: 3000K | 4000K | 6500K, UGR≤16 (L65≤3000cd/m²)

Lamps

LED 6500 K | CRI ≥ 80

Controlgear

ECG Multilumen

Setting

individual position: DIP-Step=4, colour temperature 6500K

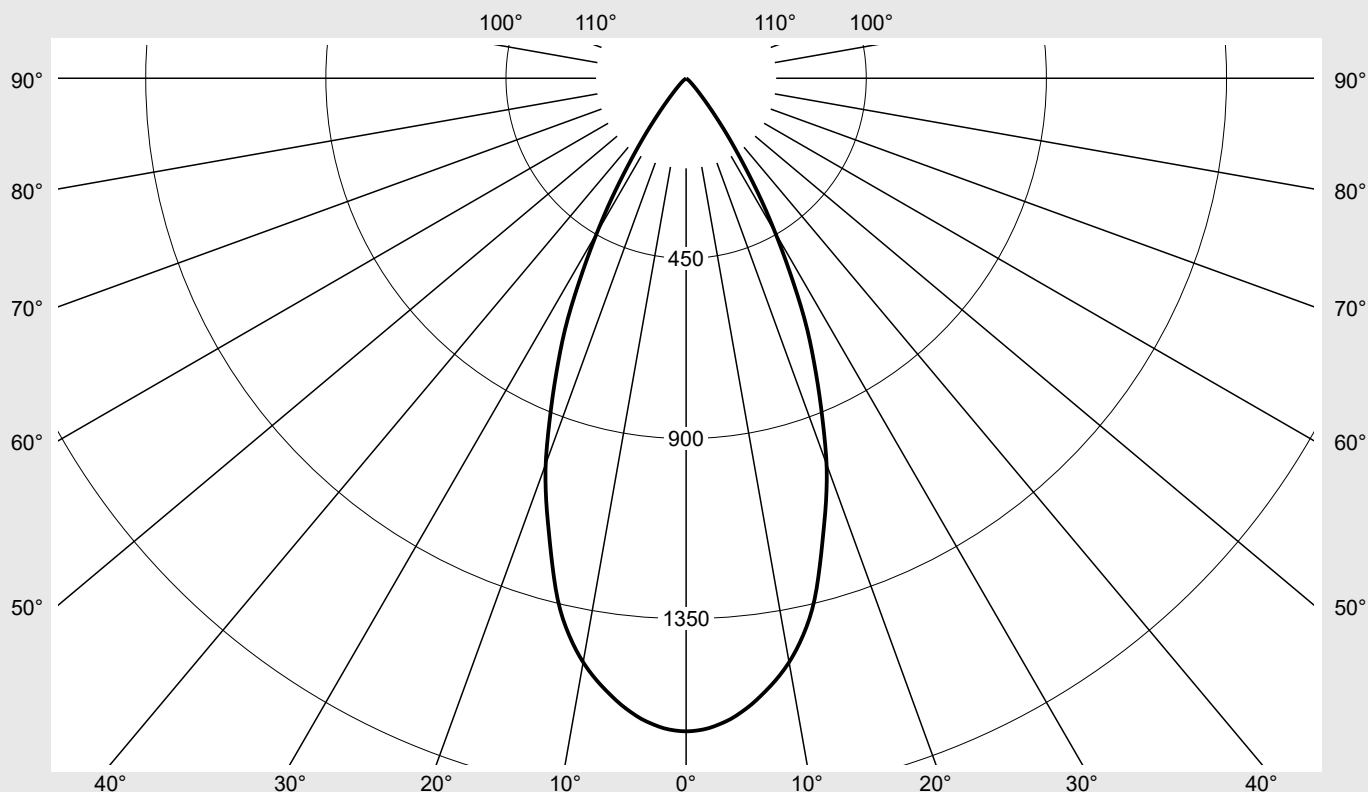
Rated values

Net luminous flux = 1560 lm
Power consumption = 10.6 W
Luminous efficacy = 147.2 lm/W

Luminous intensity in cd/klm

C180-0

Imax: 1631 cd/klm



Classifications

DIN 5040 A 8 0
CIE N1=98 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°	1631.5	0.4	0.4
1°	1629.5	3.1	3.5
2°	1624.4	6.2	9.7
3°	1615.4	9.3	19.0
4°	1604.3	12.3	31.3
5°	1589.2	15.2	46.5
6°	1572.0	18.0	64.5
7°	1551.9	20.7	85.2
8°	1530.7	23.4	108.6
9°	1507.5	25.9	134.4
10°	1481.3	28.2	162.6
11°	1451.1	30.4	193.0
12°	1416.8	32.3	225.3
13°	1378.5	34.0	259.3
14°	1333.2	35.4	294.7
15°	1280.8	36.4	331.0
16°	1227.4	37.1	368.1
17°	1176.0	37.7	405.8
18°	1127.6	38.2	444.1
19°	1078.2	38.5	482.6
20°	1025.8	38.5	521.0
21°	965.9	38.0	559.0
22°	905.6	37.2	596.2
23°	848.1	36.3	632.5
24°	791.6	35.3	667.8
25°	737.4	34.2	702.0
26°	681.5	32.8	734.8
27°	619.8	30.9	765.6
28°	557.7	28.7	794.3
29°	499.7	26.6	820.9
30°	444.6	24.4	845.3
31°	393.0	22.2	867.5
32°	341.7	19.9	887.3
33°	291.6	17.4	904.8
34°	247.0	15.1	919.9
35°	207.8	13.1	933.0
36°	173.5	11.2	944.2
37°	141.0	9.3	953.5
38°	113.4	7.7	961.1
39°	90.8	6.3	967.4
40°	71.9	5.1	972.5
41°	57.3	4.1	976.6
42°	46.1	3.4	980.0
43°	37.8	2.8	982.8
44°	30.4	2.3	985.1
45°	24.9	1.9	987.0
46°	20.7	1.6	988.7

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
47°	17.2	1.4	990.0
48°	14.2	1.2	991.2
49°	11.9	1.0	992.2
50°	9.9	0.8	993.0
51°	8.2	0.7	993.7
52°	6.9	0.6	994.3
53°	5.7	0.5	994.8
54°	4.8	0.4	995.2
55°	4.1	0.4	995.6
56°	3.5	0.3	995.9
57°	3.0	0.3	996.2
58°	2.7	0.3	996.5
59°	2.5	0.2	996.7
60°	2.3	0.2	996.9
61°	2.2	0.2	997.1
62°	2.0	0.2	997.3
63°	1.9	0.2	997.5
64°	1.8	0.2	997.7
65°	1.6	0.2	997.8
66°	1.5	0.2	998.0
67°	1.4	0.1	998.1
68°	1.4	0.1	998.3
69°	1.3	0.1	998.4
70°	1.2	0.1	998.5
71°	1.2	0.1	998.7
72°	1.1	0.1	998.8
73°	1.0	0.1	998.9
74°	1.0	0.1	999.0
75°	0.9	0.1	999.1
76°	0.9	0.1	999.2
77°	0.8	0.1	999.3
78°	0.8	0.1	999.3
79°	0.8	0.1	999.4
80°	0.7	0.1	999.5
81°	0.7	0.1	999.6
82°	0.6	0.1	999.6
83°	0.6	0.1	999.7
84°	0.5	0.1	999.8
85°	0.5	0.1	999.8
86°	0.5	0.0	999.9
87°	0.4	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	17.0	18.1	17.3	18.4	18.7	17.0	18.1	17.3	18.4	18.7
	3H	16.8	17.8	17.2	18.1	18.5	16.8	17.8	17.2	18.1	18.5
	4H	16.7	17.6	17.1	18.0	18.3	16.7	17.6	17.1	18.0	18.3
	6H	16.7	17.4	17.1	17.8	18.2	16.7	17.4	17.1	17.8	18.2
	8H	16.8	17.4	17.2	17.8	18.2	16.8	17.4	17.2	17.8	18.2
	12H	16.8	17.3	17.2	17.7	18.1	16.8	17.3	17.2	17.7	18.1
4H	2H	16.7	17.6	17.1	18.0	18.3	16.7	17.6	17.1	18.0	18.3
	3H	16.6	17.3	17.0	17.7	18.1	16.6	17.3	17.0	17.7	18.1
	4H	16.5	17.1	16.9	17.5	17.9	16.5	17.1	16.9	17.5	17.9
	6H	16.4	16.9	16.8	17.3	17.8	16.4	16.9	16.8	17.3	17.8
	8H	16.3	16.8	16.8	17.3	17.7	16.3	16.8	16.8	17.3	17.7
	12H	16.4	16.7	16.9	17.2	17.7	16.4	16.7	16.9	17.2	17.7
8H	4H	16.3	16.8	16.8	17.2	17.7	16.3	16.8	16.8	17.2	17.7
	6H	16.2	16.6	16.7	17.1	17.6	16.2	16.6	16.7	17.1	17.6
	8H	16.2	16.5	16.7	17.0	17.5	16.2	16.5	16.7	17.0	17.5
	12H	16.2	16.4	16.7	16.9	17.5	16.2	16.4	16.7	16.9	17.5
12H	4H	16.3	16.7	16.8	17.1	17.6	16.3	16.7	16.8	17.1	17.6
	6H	16.2	16.5	16.7	17.0	17.5	16.2	16.5	16.7	17.0	17.5
	8H	16.2	16.4	16.7	16.9	17.4	16.2	16.4	16.7	16.9	17.4

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 84
C-planes		0°		
γ	Luminance in cd/m²			
45°	9904.7			
50°	4351.3			
55°	2009.7			
60°	1314.6			
65°	1097.7			
70°	1003.3			
75°	1018.0			
80°	1141.2			
85°	1553.5			

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Luminance values in cd/m²

γ 65°

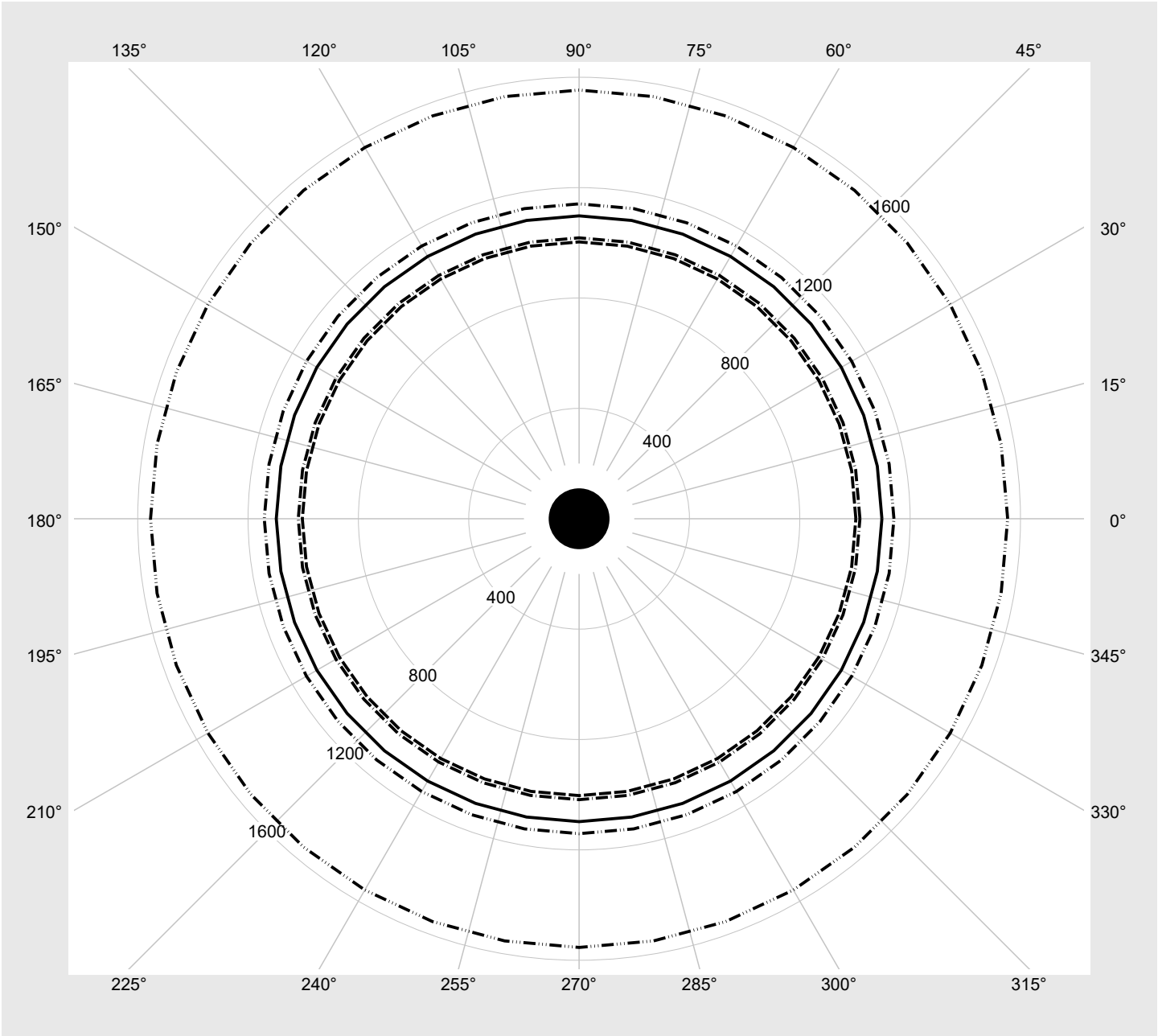
γ 70°

γ 75°

γ 80°

γ 85°

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Multilumen Table	environmental temperature: 25°C	siteco

DIP-Step	Switch Setting				Luminous flux [lm]	Power consumption [W]
	1	2	3	4		
12	ON	ON	OFF	OFF	3420	25.5
11	ON	OFF	ON	ON	3150	22.1
10	ON	OFF	ON	OFF	2950	20.6
9	ON	OFF	OFF	ON	2800	19.5
8	ON	OFF	OFF	OFF	2600	18.0
7	OFF	ON	ON	ON	2280	15.7
6	OFF	ON	ON	OFF	2030	13.9
5	OFF	ON	OFF	ON	1820	12.4
4	OFF	ON	OFF	OFF	1560	10.6
3	OFF	OFF	ON	ON	1430	9.7
2	OFF	OFF	ON	OFF	1180	8.0
1	OFF	OFF	OFF	ON	900	6.1
0	OFF	OFF	OFF	OFF	650	4.4