

Photometric test report

Family
Lunis 21

Order number: 51DB17ED91C
EAN: 4069025013187

LP number
59679_4

serial
documentation
27.09.2024

siteco



Version

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

Lamps

LED 3000 K | CRI ≥ 80

Controlgear

ECG Multilumen

Setting

individual position: DIP-Step=5, colour temperature 3000K

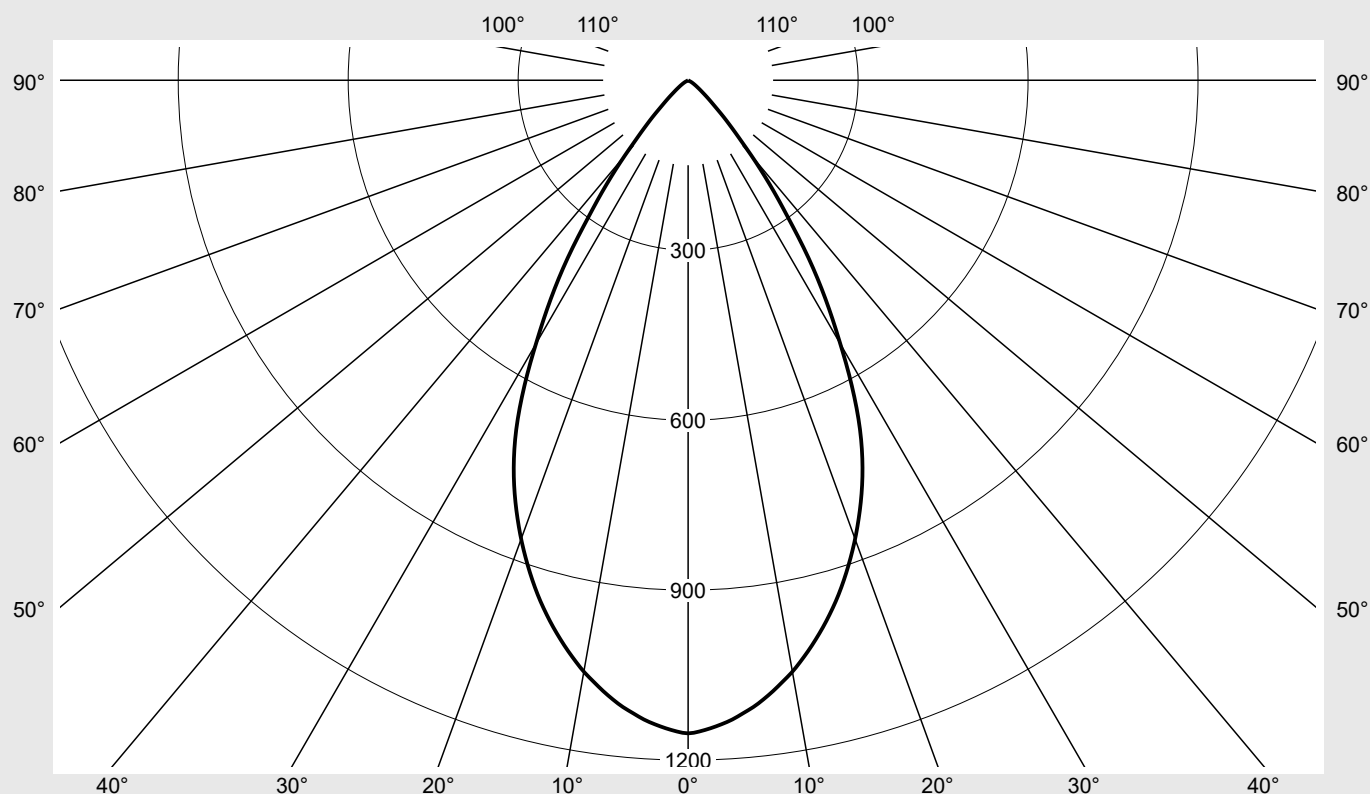
Rated values

Net luminous flux = 1710 lm
Power consumption = 12.2 W
Luminous efficacy = 140.2 lm/W

Luminous intensity in cd/klm

C180-0

Imax: 1153 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°	1152.7	0.3	0.3
1°	1149.6	2.2	2.5
2°	1144.3	4.4	6.9
3°	1138.0	6.5	13.4
4°	1130.6	8.6	22.0
5°	1121.1	10.7	32.8
6°	1111.6	12.7	45.5
7°	1100.1	14.7	60.2
8°	1087.4	16.6	76.8
9°	1073.7	18.4	95.2
10°	1060.0	20.2	115.4
11°	1044.0	21.8	137.2
12°	1027.3	23.4	160.7
13°	1009.8	24.9	185.6
14°	991.5	26.3	211.9
15°	972.2	27.6	239.5
16°	952.2	28.8	268.3
17°	930.8	29.8	298.1
18°	908.5	30.8	328.9
19°	885.4	31.6	360.5
20°	861.7	32.3	392.8
21°	836.8	32.9	425.7
22°	811.3	33.3	459.0
23°	784.8	33.6	492.7
24°	756.8	33.8	526.4
25°	726.6	33.7	560.1
26°	694.1	33.4	593.5
27°	658.0	32.8	626.2
28°	619.0	31.9	658.1
29°	578.6	30.8	688.8
30°	537.2	29.5	718.3
31°	498.6	28.2	746.5
32°	460.9	26.8	773.2
33°	423.0	25.3	798.5
34°	383.8	23.5	822.0
35°	342.3	21.5	843.6
36°	301.8	19.5	863.0
37°	267.7	17.7	880.7
38°	235.7	15.9	896.6
39°	204.6	14.1	910.7
40°	174.7	12.3	923.0
41°	146.5	10.5	933.6
42°	125.1	9.2	942.8
43°	106.6	8.0	950.7
44°	91.0	6.9	957.7
45°	75.3	5.8	963.5
46°	63.0	5.0	968.5

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
47°	53.9	4.3	972.8
48°	46.1	3.8	976.5
49°	39.0	3.2	979.8
50°	33.0	2.8	982.5
51°	28.6	2.4	985.0
52°	24.6	2.1	987.1
53°	21.0	1.8	988.9
54°	18.3	1.6	990.6
55°	15.8	1.4	992.0
56°	13.5	1.2	993.2
57°	11.6	1.1	994.3
58°	9.8	0.9	995.2
59°	8.2	0.8	996.0
60°	6.6	0.6	996.6
61°	5.3	0.5	997.1
62°	4.1	0.4	997.5
63°	3.1	0.3	997.8
64°	2.2	0.2	998.0
65°	1.5	0.2	998.2
66°	1.1	0.1	998.3
67°	1.0	0.1	998.4
68°	0.9	0.1	998.5
69°	0.9	0.1	998.6
70°	0.9	0.1	998.7
71°	0.9	0.1	998.7
72°	0.8	0.1	998.8
73°	0.8	0.1	998.9
74°	0.8	0.1	999.0
75°	0.8	0.1	999.1
76°	0.7	0.1	999.2
77°	0.7	0.1	999.2
78°	0.7	0.1	999.3
79°	0.7	0.1	999.4
80°	0.7	0.1	999.5
81°	0.6	0.1	999.5
82°	0.6	0.1	999.6
83°	0.6	0.1	999.7
84°	0.6	0.1	999.7
85°	0.5	0.1	999.8
86°	0.5	0.1	999.8
87°	0.5	0.1	999.9
88°	0.5	0.1	999.9
89°	0.5	0.1	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	17.5	18.7	17.9	19.0	19.4	17.5	18.7	17.9	19.0	19.4
	3H	17.4	18.4	17.8	18.8	19.1	17.4	18.4	17.8	18.8	19.1
	4H	17.3	18.3	17.7	18.6	19.0	17.3	18.3	17.7	18.6	19.0
	6H	17.2	18.1	17.7	18.5	18.9	17.2	18.1	17.7	18.5	18.9
	8H	17.3	18.0	17.8	18.4	18.8	17.3	18.0	17.8	18.4	18.8
	12H	17.3	17.9	17.7	18.3	18.7	17.3	17.9	17.7	18.3	18.7
4H	2H	17.3	18.3	17.7	18.6	19.0	17.3	18.3	17.7	18.6	19.0
	3H	17.2	17.9	17.6	18.3	18.7	17.2	17.9	17.6	18.3	18.7
	4H	17.1	17.7	17.5	18.2	18.6	17.1	17.7	17.5	18.2	18.6
	6H	17.0	17.5	17.4	18.0	18.5	17.0	17.5	17.4	18.0	18.5
	8H	16.9	17.4	17.4	17.9	18.4	16.9	17.4	17.4	17.9	18.4
	12H	16.9	17.3	17.4	17.8	18.3	16.9	17.3	17.4	17.8	18.3
8H	4H	16.9	17.4	17.4	17.9	18.4	16.9	17.4	17.4	17.9	18.4
	6H	16.8	17.2	17.3	17.7	18.2	16.8	17.2	17.3	17.7	18.2
	8H	16.8	17.1	17.3	17.6	18.1	16.8	17.1	17.3	17.6	18.1
	12H	16.7	17.0	17.3	17.5	18.1	16.7	17.0	17.3	17.5	18.1
12H	4H	16.9	17.3	17.4	17.8	18.3	16.9	17.3	17.4	17.8	18.3
	6H	16.8	17.1	17.3	17.6	18.1	16.8	17.1	17.3	17.6	18.1
	8H	16.7	17.0	17.3	17.5	18.1	16.7	17.0	17.3	17.5	18.1

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 135
C-planes				
	0°			
γ	Luminance in cd/m²			
45°	12721.3			
50°	6131.5			
55°	3291.9			
60°	1582.2			
65°	430.8			
70°	310.2			
75°	352.6			
80°	452.0			
85°	740.2			

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Luminance values in cd/m²

γ 65°

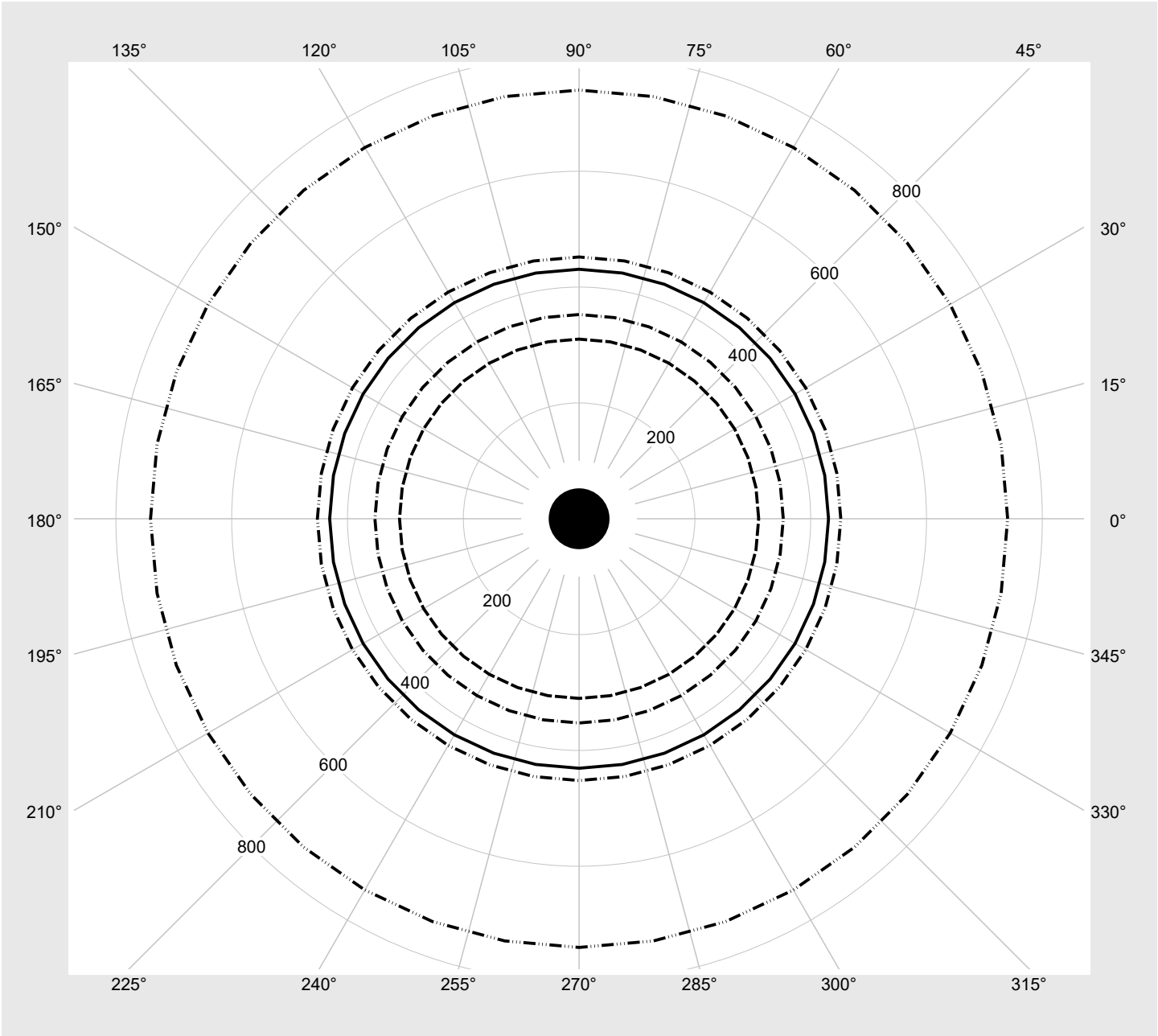
γ 70°

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	3330	25.4
11	ON	OFF	ON	ON	2980	21.7
10	ON	OFF	ON	OFF	2790	20.3
9	ON	OFF	OFF	ON	2660	19.2
8	ON	OFF	OFF	OFF	2480	17.7
7	OFF	ON	ON	ON	2170	15.5
6	OFF	ON	ON	OFF	1930	13.7
5	OFF	ON	OFF	ON	1710	12.2
4	OFF	ON	OFF	OFF	1470	10.5
3	OFF	OFF	ON	ON	1370	9.7
2	OFF	OFF	ON	OFF	1140	8.0
1	OFF	OFF	OFF	ON	880	6.1
0	OFF	OFF	OFF	OFF	640	4.4