

Photometric test report

Family
Lunis 21

Order number: 51DB15MF4D
EAN: 4058352555248

LP number
59251_7



Version Combined lens and reflector optics, highly specular reflector, wide distribution, $UGR \leq 19$ ($L65 \leq 3000 \text{ cd/m}^2$)

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG Multilumen

Setting factory setting: DIP-Step=0

Rated values Net luminous flux = 2280 lm
Power consumption = 17.7 W
Luminous efficacy = 128.8 lm/W

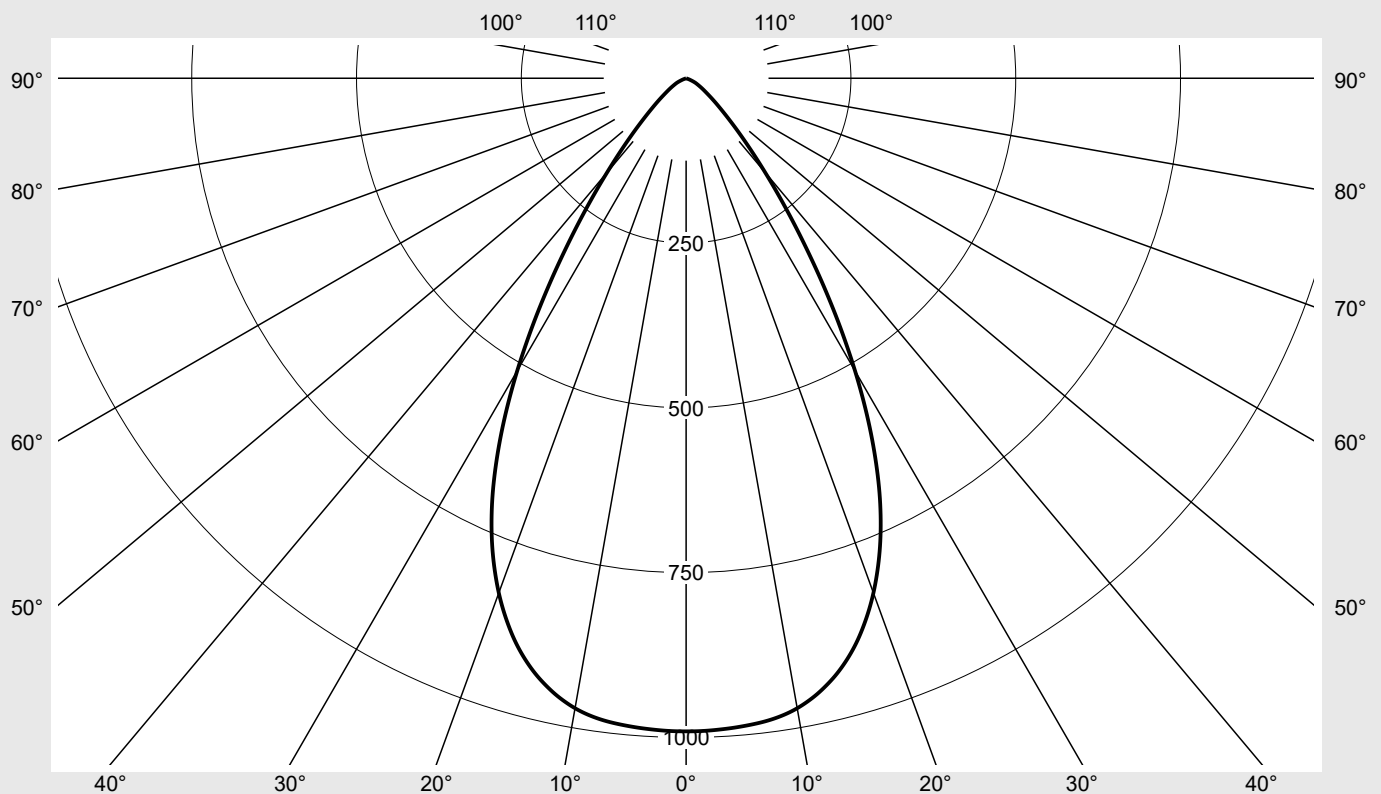
serial
documentation
18.11.2022

siteco

Luminous intensity in cd/klm

C180-0

Imax: 991 cd/klm



Classifications

DIN 5040 A 7 0
CIE N1=89 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

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
0°	990.7	0.2	0.2
1°	990.6	1.9	2.1
2°	990.1	3.8	5.9
3°	989.2	5.7	11.6
4°	988.1	7.6	19.2
5°	986.7	9.4	28.6
6°	985.0	11.3	39.9
7°	982.9	13.1	53.0
8°	979.9	15.0	68.0
9°	975.8	16.7	84.7
10°	970.4	18.5	103.2
11°	963.5	20.2	123.3
12°	955.2	21.8	145.1
13°	945.3	23.3	168.4
14°	934.3	24.8	193.2
15°	921.5	26.2	219.4
16°	907.0	27.4	246.8
17°	890.7	28.6	275.4
18°	872.4	29.6	304.9
19°	852.5	30.4	335.4
20°	830.8	31.2	366.5
21°	807.2	31.7	398.2
22°	781.9	32.1	430.4
23°	754.7	32.3	462.7
24°	725.4	32.4	495.1
25°	694.2	32.2	527.2
26°	660.5	31.8	559.0
27°	625.3	31.1	590.1
28°	588.7	30.3	620.4
29°	550.8	29.3	649.7
30°	512.4	28.1	677.8
31°	473.3	26.7	704.5
32°	434.8	25.3	729.8
33°	396.6	23.7	753.5
34°	359.9	22.1	775.5
35°	324.8	20.4	796.0
36°	292.5	18.9	814.8
37°	262.4	17.3	832.2
38°	234.7	15.8	848.0
39°	209.6	14.5	862.5
40°	186.5	13.1	875.6
41°	166.1	11.9	887.6
42°	147.7	10.8	898.4
43°	131.2	9.8	908.2
44°	116.7	8.9	917.1
45°	103.8	8.1	925.2
46°	92.3	7.3	932.4

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
47°	82.4	6.6	939.0
48°	73.8	6.0	945.1
49°	66.3	5.5	950.5
50°	59.8	5.0	955.6
51°	53.9	4.6	960.2
52°	48.5	4.2	964.4
53°	43.7	3.8	968.2
54°	39.5	3.5	971.7
55°	35.9	3.2	974.9
56°	32.7	3.0	977.9
57°	29.9	2.8	980.6
58°	27.3	2.5	983.2
59°	24.8	2.3	985.5
60°	22.4	2.1	987.6
61°	20.4	2.0	989.6
62°	18.6	1.8	991.4
63°	17.0	1.7	993.1
64°	15.2	1.5	994.5
65°	13.0	1.3	995.8
66°	10.6	1.1	996.9
67°	8.3	0.8	997.7
68°	6.5	0.7	998.4
69°	5.2	0.5	998.9
70°	4.0	0.4	999.3
71°	2.7	0.3	999.6
72°	1.7	0.2	999.8
73°	0.8	0.1	999.9
74°	0.4	0.0	999.9
75°	0.3	0.0	1000.0
76°	0.1	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	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	17.1	18.4	17.5	18.7	19.0	17.1	18.4	17.5	18.7	19.0
	3H	17.1	18.1	17.5	18.5	18.8	17.1	18.1	17.5	18.5	18.8
	4H	17.0	18.0	17.4	18.3	18.7	17.0	18.0	17.4	18.3	18.7
	6H	16.9	17.8	17.3	18.2	18.6	16.9	17.8	17.3	18.2	18.6
	8H	17.0	17.7	17.4	18.1	18.5	17.0	17.7	17.4	18.1	18.5
	12H	17.0	17.6	17.4	18.0	18.5	17.0	17.6	17.4	18.0	18.5
4H	2H	17.0	18.0	17.4	18.4	18.8	17.0	18.0	17.4	18.4	18.8
	3H	17.0	17.8	17.4	18.2	18.6	17.0	17.8	17.4	18.2	18.6
	4H	16.9	17.6	17.3	18.0	18.4	16.9	17.6	17.3	18.0	18.4
	6H	16.8	17.4	17.3	17.8	18.3	16.8	17.4	17.3	17.8	18.3
	8H	16.8	17.3	17.2	17.7	18.2	16.8	17.3	17.2	17.7	18.2
	12H	16.8	17.2	17.2	17.6	18.1	16.8	17.2	17.2	17.6	18.1
8H	4H	16.8	17.3	17.2	17.7	18.2	16.8	17.3	17.2	17.7	18.2
	6H	16.6	17.1	17.1	17.6	18.1	16.6	17.1	17.1	17.6	18.1
	8H	16.6	17.0	17.1	17.5	18.0	16.6	17.0	17.1	17.5	18.0
	12H	16.6	16.9	17.1	17.4	17.9	16.6	16.9	17.1	17.4	17.9
12H	4H	16.8	17.2	17.3	17.6	18.1	16.8	17.2	17.3	17.6	18.1
	6H	16.6	17.0	17.1	17.5	18.0	16.6	17.0	17.1	17.5	18.0
	8H	16.6	16.9	17.1	17.4	17.9	16.6	16.9	17.1	17.4	17.9

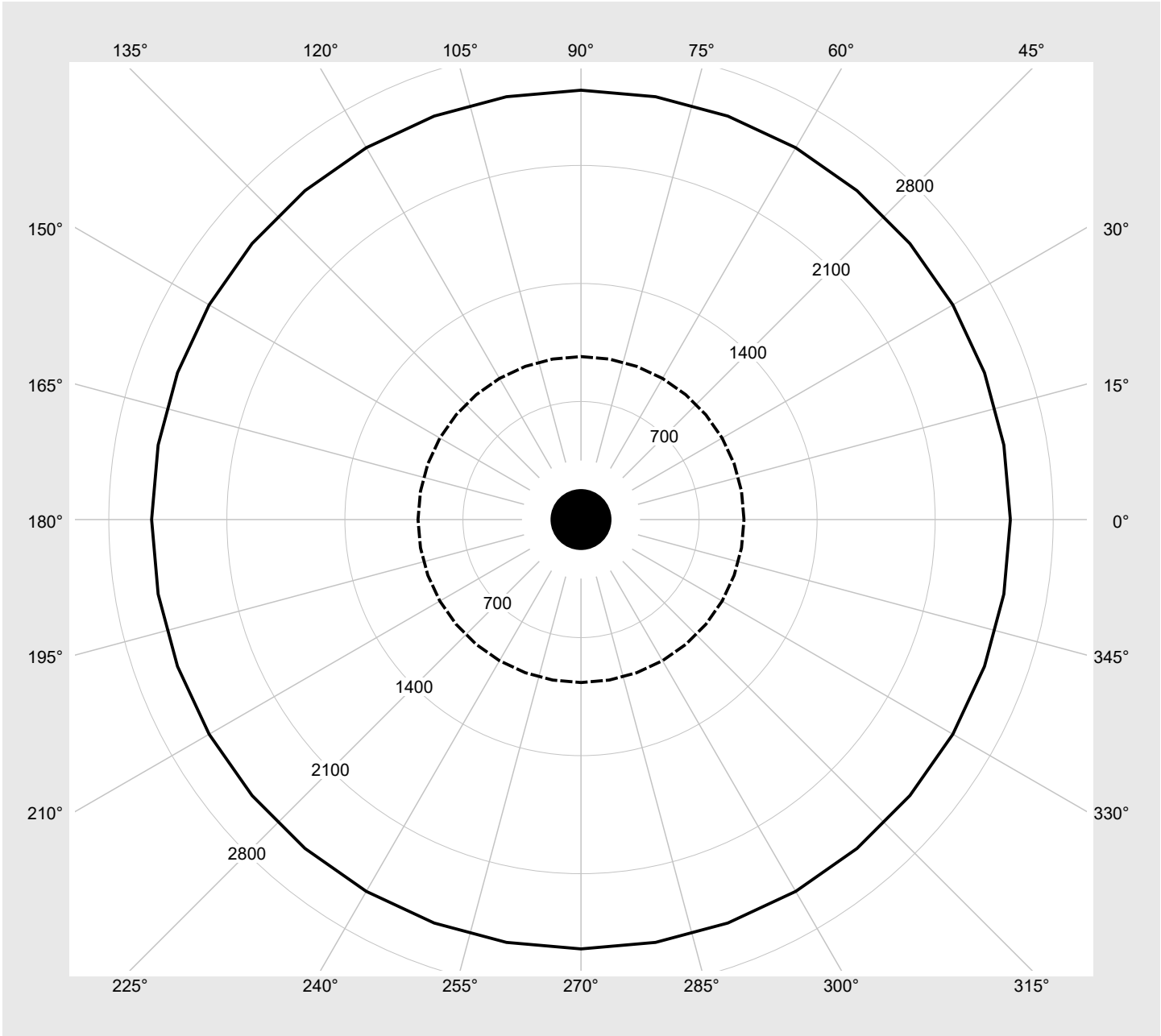
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 187
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C-planes	0°
γ	Luminance in cd/m²
45°	12188.9
50°	7721.4
55°	5192.6
60°	3726.9
65°	2546.2
70°	966.5
75°	80.2
80°	7.2
85°	22.9

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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	ON	ON	3000	24.3
2	OFF	ON	2730	21.5
1	ON	OFF	2510	19.7
0	OFF	OFF	2280	17.7