

Photometric test report

Family

Lunis 21



Order number: 51DB16MD91C

EAN: 4069025013262

LP number

59574_32

serial documentation

27.09.2024

Version

recessed luminaire, cover opal, PMMA, diffuse beam, adjustable color temperature: 3000K | 4000K | 6500K

Lamps

LED 3000 K | CRI ≥ 80

Controlgear

ECG Multilumen

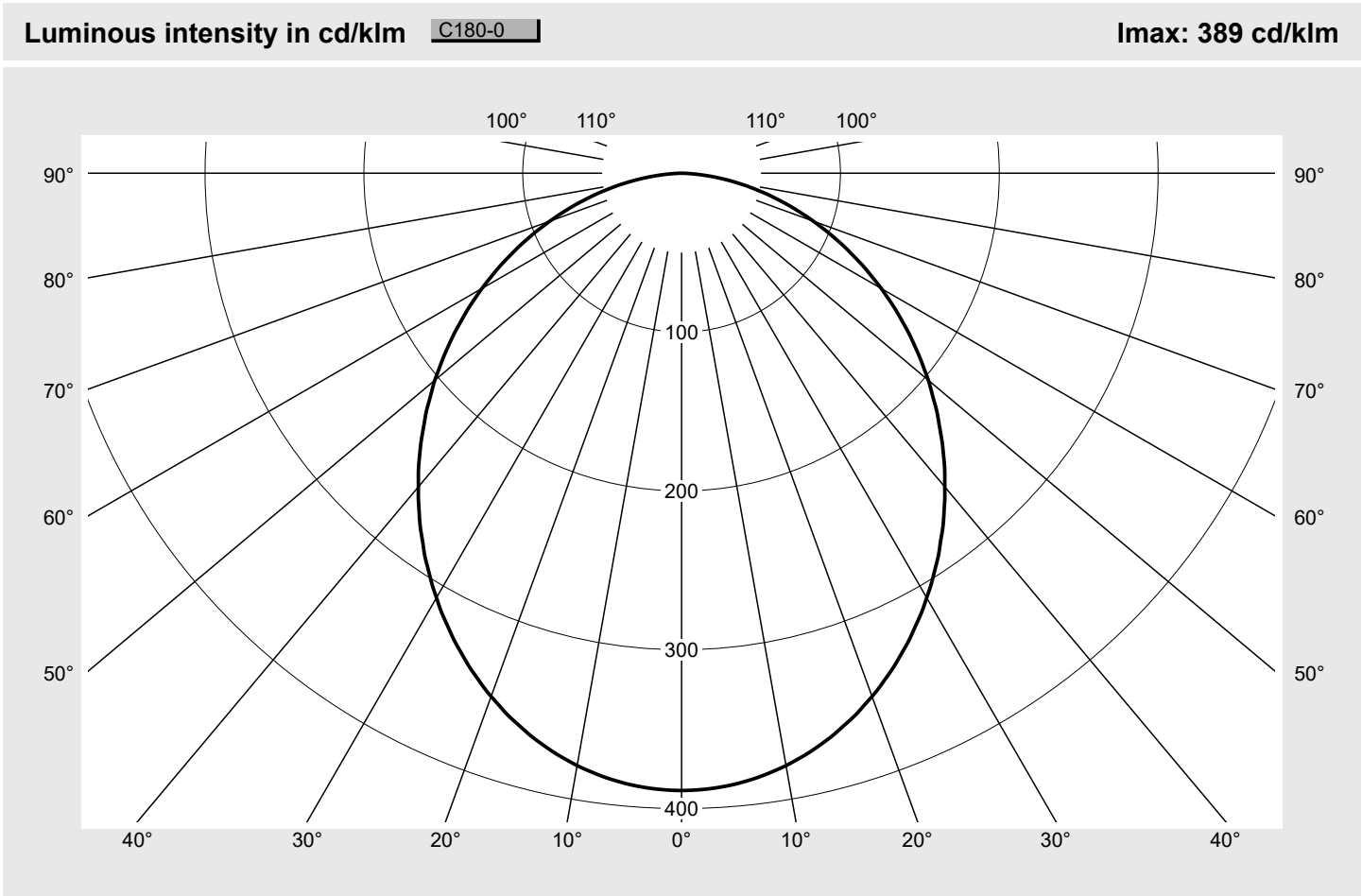
Setting

individual position: DIP-Step=1, colour temperature 3000K

Rated values

Net luminous flux = 1700 lm
Power consumption = 12.2 W
Luminous efficacy = 139.4 lm/W

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Classifications		Luminaire light output ratios	
DIN 5040	A 4 0	η_{LB}	100.0%
CIE	N1=50 N2=80 N3=96	ϕ_u	100.0%
	N4=100 N5=100	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°	388.6	0.1	0.1
1°	388.5	0.7	0.8
2°	388.2	1.5	2.3
3°	387.7	2.2	4.5
4°	387.0	3.0	7.5
5°	386.1	3.7	11.2
6°	385.0	4.4	15.6
7°	383.7	5.1	20.7
8°	382.2	5.8	26.6
9°	380.5	6.5	33.1
10°	378.7	7.2	40.3
11°	376.6	7.9	48.2
12°	374.4	8.5	56.7
13°	372.0	9.2	65.9
14°	369.4	9.8	75.7
15°	366.7	10.4	86.1
16°	363.6	11.0	97.1
17°	360.6	11.6	108.7
18°	357.5	12.1	120.8
19°	353.9	12.6	133.4
20°	350.6	13.1	146.6
21°	347.0	13.6	160.2
22°	343.1	14.1	174.3
23°	339.3	14.5	188.8
24°	335.2	14.9	203.8
25°	331.0	15.3	219.1
26°	326.9	15.7	234.8
27°	322.3	16.0	250.9
28°	317.9	16.4	267.2
29°	313.5	16.7	283.9
30°	308.6	16.9	300.8
31°	304.0	17.2	318.0
32°	299.1	17.4	335.4
33°	294.2	17.6	353.0
34°	289.4	17.7	370.7
35°	284.0	17.9	388.6
36°	279.1	18.0	406.6
37°	274.0	18.1	424.6
38°	268.5	18.1	442.8
39°	263.3	18.2	460.9
40°	257.8	18.2	479.1
41°	252.6	18.2	497.3
42°	247.3	18.1	515.4
43°	241.7	18.1	533.5
44°	236.3	18.0	551.5
45°	230.5	17.9	569.4
46°	225.0	17.7	587.1

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm Luminous flux in lm/klm		
47°	219.7	17.6	604.8
48°	213.7	17.4	622.2
49°	208.2	17.2	639.4
50°	202.8	17.0	656.4
51°	196.8	16.8	673.2
52°	191.2	16.5	689.7
53°	185.4	16.2	706.0
54°	179.7	15.9	721.9
55°	174.1	15.6	737.5
56°	168.1	15.3	752.8
57°	162.4	14.9	767.8
58°	156.7	14.6	782.3
59°	150.8	14.2	796.5
60°	145.1	13.8	810.3
61°	139.2	13.4	823.7
62°	133.5	12.9	836.6
63°	127.9	12.5	849.1
64°	121.9	12.0	861.1
65°	116.3	11.6	872.6
66°	110.7	11.1	883.7
67°	104.9	10.6	894.3
68°	99.4	10.1	904.4
69°	93.7	9.6	914.0
70°	88.2	9.1	923.1
71°	82.8	8.6	931.7
72°	77.2	8.1	939.8
73°	72.1	7.6	947.3
74°	66.7	7.0	954.3
75°	61.3	6.5	960.8
76°	56.5	6.0	966.8
77°	51.1	5.5	972.3
78°	46.1	4.9	977.3
79°	41.4	4.5	981.7
80°	36.4	3.9	985.6
81°	31.8	3.4	989.1
82°	27.0	2.9	992.0
83°	22.3	2.4	994.4
84°	17.9	2.0	996.4
85°	13.4	1.5	997.9
86°	9.3	1.0	998.9
87°	5.5	0.6	999.5
88°	2.7	0.3	999.8
89°	1.6	0.2	1000.0
90°	0.9	0.1	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	24.7	26.4	25.1	26.7	27.0	24.7	26.4	25.1	26.7	27.0
	3H	26.2	27.7	26.6	28.1	28.4	26.2	27.7	26.6	28.1	28.4
	4H	26.9	28.3	27.3	28.6	29.0	26.9	28.3	27.3	28.6	29.0
	6H	27.3	28.6	27.7	29.0	29.4	27.3	28.6	27.7	29.0	29.4
	8H	27.5	28.7	27.9	29.1	29.5	27.5	28.7	27.9	29.1	29.5
	12H	27.6	28.7	28.0	29.1	29.5	27.6	28.7	28.0	29.1	29.5
4H	2H	25.5	26.9	25.8	27.2	27.6	25.5	26.9	25.8	27.2	27.6
	3H	27.2	28.4	27.6	28.7	29.1	27.2	28.4	27.6	28.7	29.1
	4H	27.9	29.0	28.3	29.4	29.8	27.9	29.0	28.3	29.4	29.8
	6H	28.5	29.4	28.9	29.8	30.3	28.5	29.4	28.9	29.8	30.3
	8H	28.7	29.5	29.1	30.0	30.4	28.7	29.5	29.1	30.0	30.4
	12H	28.8	29.5	29.3	30.0	30.5	28.8	29.5	29.3	30.0	30.5
8H	4H	28.2	29.1	28.7	29.5	30.0	28.2	29.1	28.7	29.5	30.0
	6H	28.9	29.6	29.4	30.1	30.6	28.9	29.6	29.4	30.1	30.6
	8H	29.2	29.8	29.7	30.3	30.8	29.2	29.8	29.7	30.3	30.8
	12H	29.3	29.9	29.8	30.4	30.9	29.3	29.9	29.8	30.4	30.9
12H	4H	28.3	29.0	28.7	29.5	30.0	28.3	29.0	28.7	29.5	30.0
	6H	29.0	29.6	29.5	30.1	30.6	29.0	29.6	29.5	30.1	30.6
	8H	29.3	29.8	29.8	30.3	30.8	29.3	29.8	29.8	30.3	30.8

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 135
C-planes	0°		
γ	Luminance in cd/m²		
45°	38717.7		
50°	37474.6		
55°	36040.8		
60°	34476.1		
65°	32671.6		
70°	30628.3		
75°	28129.6		
80°	24866.2		
85°	18231.4		

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Luminance values in cd/m²

γ 65°

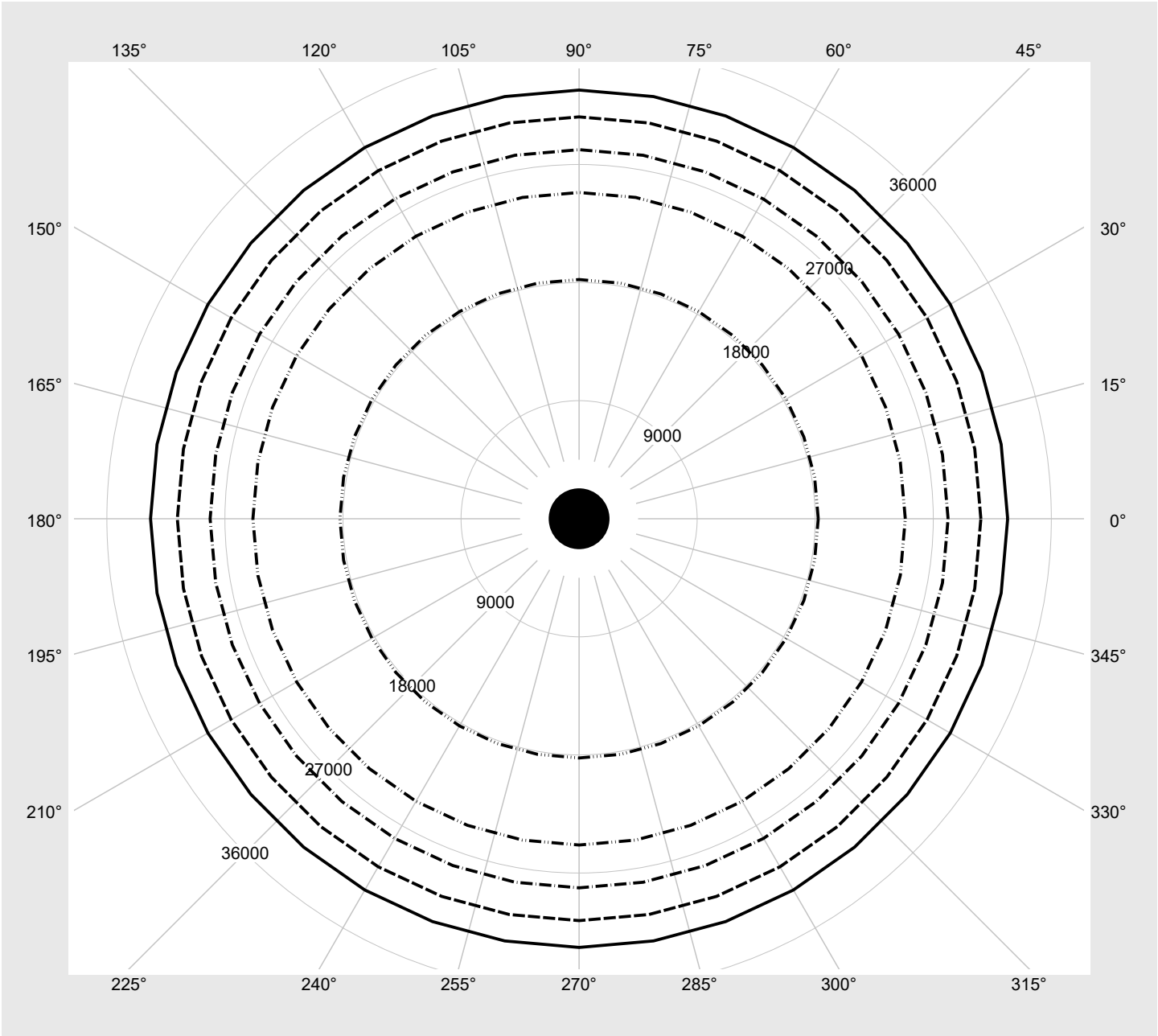
γ 70°

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	2950	21.7
6	OFF	ON	ON	OFF	2770	20.3
5	OFF	ON	OFF	ON	2630	19.2
4	OFF	ON	OFF	OFF	2450	17.7
3	OFF	OFF	ON	ON	2140	15.5
2	OFF	OFF	ON	OFF	1910	13.7
1	OFF	OFF	OFF	ON	1700	12.2
0	OFF	OFF	OFF	OFF	1460	10.5