

Photometric test report

Family
Lunis 21

Order number: 51DB16MC91C
EAN: 4069025013279

Version

Lamps

Controlgear

Setting

Rated values

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

LED 3000 K | CRI ≥ 80

ECG Multilumen

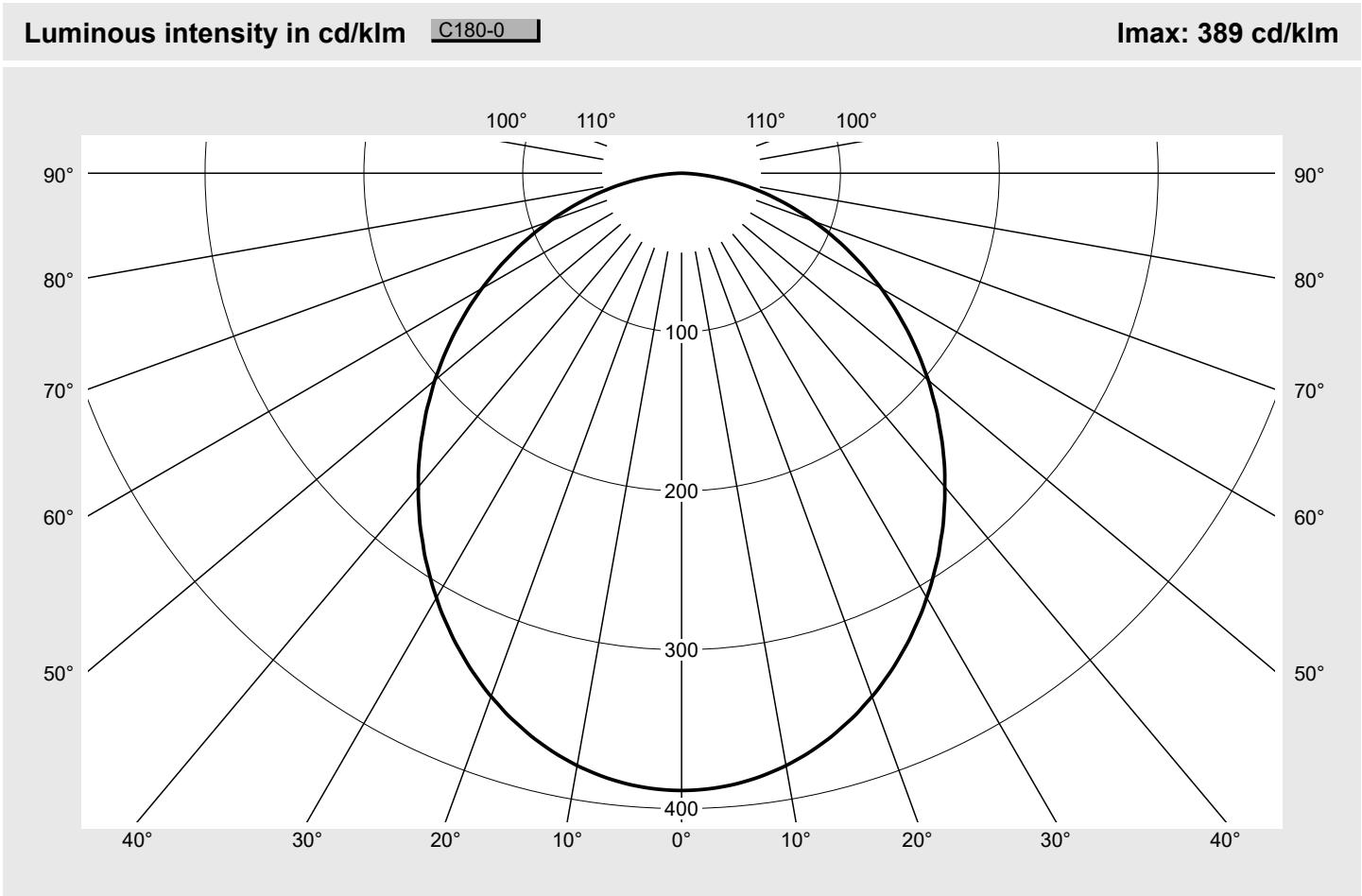
individual position: DIP-Step=4, colour temperature 3000K

Net luminous flux = 1430 lm
Power consumption = 10.6 W
Luminous efficacy = 134.9 lm/W

LP number
59574_14

serial
documentation
02.10.2024

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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	27.4	29.1	27.8	29.4	29.7	27.4	29.1	27.8	29.4	29.7
	3H	28.9	30.4	29.3	30.8	31.1	28.9	30.4	29.3	30.8	31.1
	4H	29.6	31.0	29.9	31.3	31.7	29.6	31.0	29.9	31.3	31.7
	6H	30.0	31.3	30.4	31.7	32.1	30.0	31.3	30.4	31.7	32.1
	8H	30.2	31.4	30.6	31.8	32.2	30.2	31.4	30.6	31.8	32.2
	12H	30.3	31.4	30.7	31.8	32.2	30.3	31.4	30.7	31.8	32.2
4H	2H	28.1	29.6	28.5	29.9	30.3	28.1	29.6	28.5	29.9	30.3
	3H	29.9	31.1	30.3	31.4	31.8	29.9	31.1	30.3	31.4	31.8
	4H	30.6	31.7	31.0	32.1	32.5	30.6	31.7	31.0	32.1	32.5
	6H	31.2	32.1	31.6	32.5	33.0	31.2	32.1	31.6	32.5	33.0
	8H	31.3	32.2	31.8	32.6	33.1	31.3	32.2	31.8	32.6	33.1
	12H	31.5	32.2	32.0	32.7	33.2	31.5	32.2	32.0	32.7	33.2
8H	4H	30.9	31.8	31.4	32.2	32.7	30.9	31.8	31.4	32.2	32.7
	6H	31.6	32.3	32.1	32.8	33.3	31.6	32.3	32.1	32.8	33.3
	8H	31.9	32.5	32.3	33.0	33.5	31.9	32.5	32.3	33.0	33.5
	12H	32.0	32.6	32.5	33.1	33.6	32.0	32.6	32.5	33.1	33.6
12H	4H	31.0	31.7	31.4	32.2	32.7	31.0	31.7	31.4	32.2	32.7
	6H	31.7	32.3	32.2	32.8	33.3	31.7	32.3	32.2	32.8	33.3
	8H	32.0	32.5	32.5	33.0	33.5	32.0	32.5	32.5	33.0	33.5

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 84
C-planes	0°			
γ	Luminance in cd/m²			
45°	84121.2			
50°	81420.4			
55°	78305.1			
60°	74905.5			
65°	70984.9			
70°	66545.6			
75°	61116.6			
80°	54026.3			
85°	39610.9			

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Luminance values in cd/m²

γ 65°

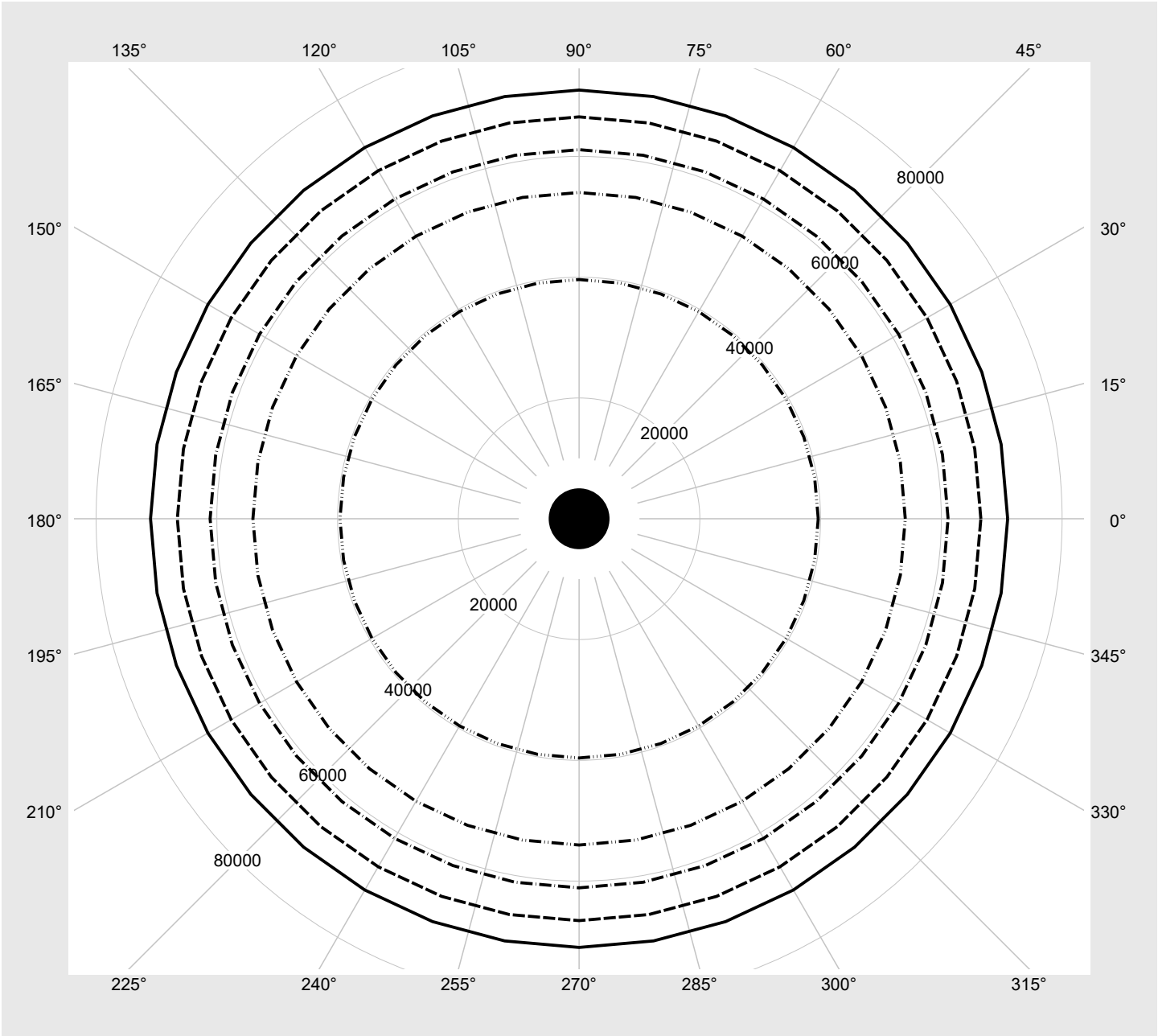
γ 70°

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	4		
12	ON	ON	OFF	OFF	3180	25.5
11	ON	OFF	ON	ON	2900	22.1
10	ON	OFF	ON	OFF	2720	20.6
9	ON	OFF	OFF	ON	2580	19.5
8	ON	OFF	OFF	OFF	2390	18.0
7	OFF	ON	ON	ON	2100	15.7
6	OFF	ON	ON	OFF	1870	13.9
5	OFF	ON	OFF	ON	1670	12.4
4	OFF	ON	OFF	OFF	1430	10.6
3	OFF	OFF	ON	ON	1330	9.7
2	OFF	OFF	ON	OFF	1100	8.0
1	OFF	OFF	OFF	ON	840	6.1
0	OFF	OFF	OFF	OFF	600	4.4