

Photometric test report

Family
Lunis 21



Order number: 51DB16MF91C
EAN: 4069025013255

Version

Lamps

Controlgear

Setting

Rated values

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

LED 4000 K | CRI ≥ 80

ECG Multilumen

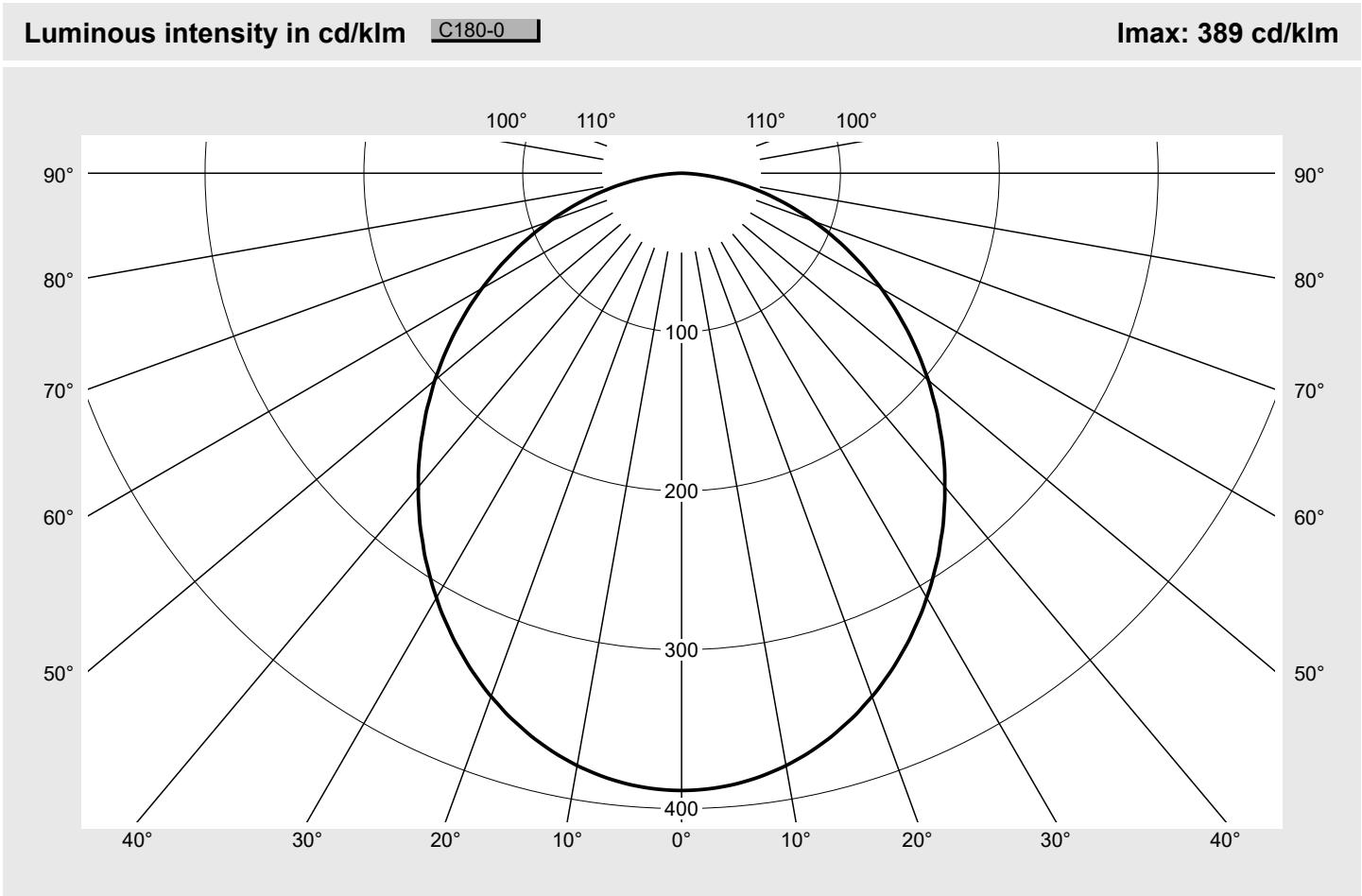
factory setting: DIP-Step=2, colour temperature 4000K

Net luminous flux = 2020 lm
Power consumption = 13.6 W
Luminous efficacy = 148.5 lm/W

LP number
59574_39

serial
documentation
27.09.2024

siteco



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
		siteco

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	23.2	24.9	23.6	25.2	25.5	23.2	24.9	23.6	25.2	25.5
	3H	24.8	26.3	25.1	26.6	27.0	24.8	26.3	25.1	26.6	27.0
	4H	25.4	26.8	25.8	27.1	27.5	25.4	26.8	25.8	27.1	27.5
	6H	25.8	27.1	26.2	27.5	27.9	25.8	27.1	26.2	27.5	27.9
	8H	26.0	27.2	26.4	27.6	28.0	26.0	27.2	26.4	27.6	28.0
	12H	26.1	27.3	26.5	27.6	28.1	26.1	27.3	26.5	27.6	28.1
4H	2H	24.0	25.4	24.4	25.7	26.1	24.0	25.4	24.4	25.7	26.1
	3H	25.7	26.9	26.1	27.3	27.7	25.7	26.9	26.1	27.3	27.7
	4H	26.4	27.5	26.8	27.9	28.3	26.4	27.5	26.8	27.9	28.3
	6H	27.0	27.9	27.4	28.3	28.8	27.0	27.9	27.4	28.3	28.8
	8H	27.2	28.0	27.6	28.5	28.9	27.2	28.0	27.6	28.5	28.9
	12H	27.3	28.1	27.8	28.5	29.0	27.3	28.1	27.8	28.5	29.0
8H	4H	26.7	27.6	27.2	28.0	28.5	26.7	27.6	27.2	28.0	28.5
	6H	27.4	28.1	27.9	28.6	29.1	27.4	28.1	27.9	28.6	29.1
	8H	27.7	28.3	28.2	28.8	29.3	27.7	28.3	28.2	28.8	29.3
	12H	27.9	28.4	28.4	28.9	29.4	27.9	28.4	28.4	28.9	29.4
12H	4H	26.8	27.5	27.3	28.0	28.5	26.8	27.5	27.3	28.0	28.5
	6H	27.5	28.1	28.0	28.6	29.1	27.5	28.1	28.0	28.6	29.1
	8H	27.8	28.3	28.3	28.8	29.4	27.8	28.3	28.3	28.8	29.4

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 182
C-planes				
	0°			
γ	Luminance in cd/m²			
45°	25312.6			
50°	24499.9			
55°	23562.5			
60°	22539.5			
65°	21359.8			
70°	20024.0			
75°	18390.4			
80°	16256.9			
85°	11919.2			

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Luminance values in cd/m²

γ 65°

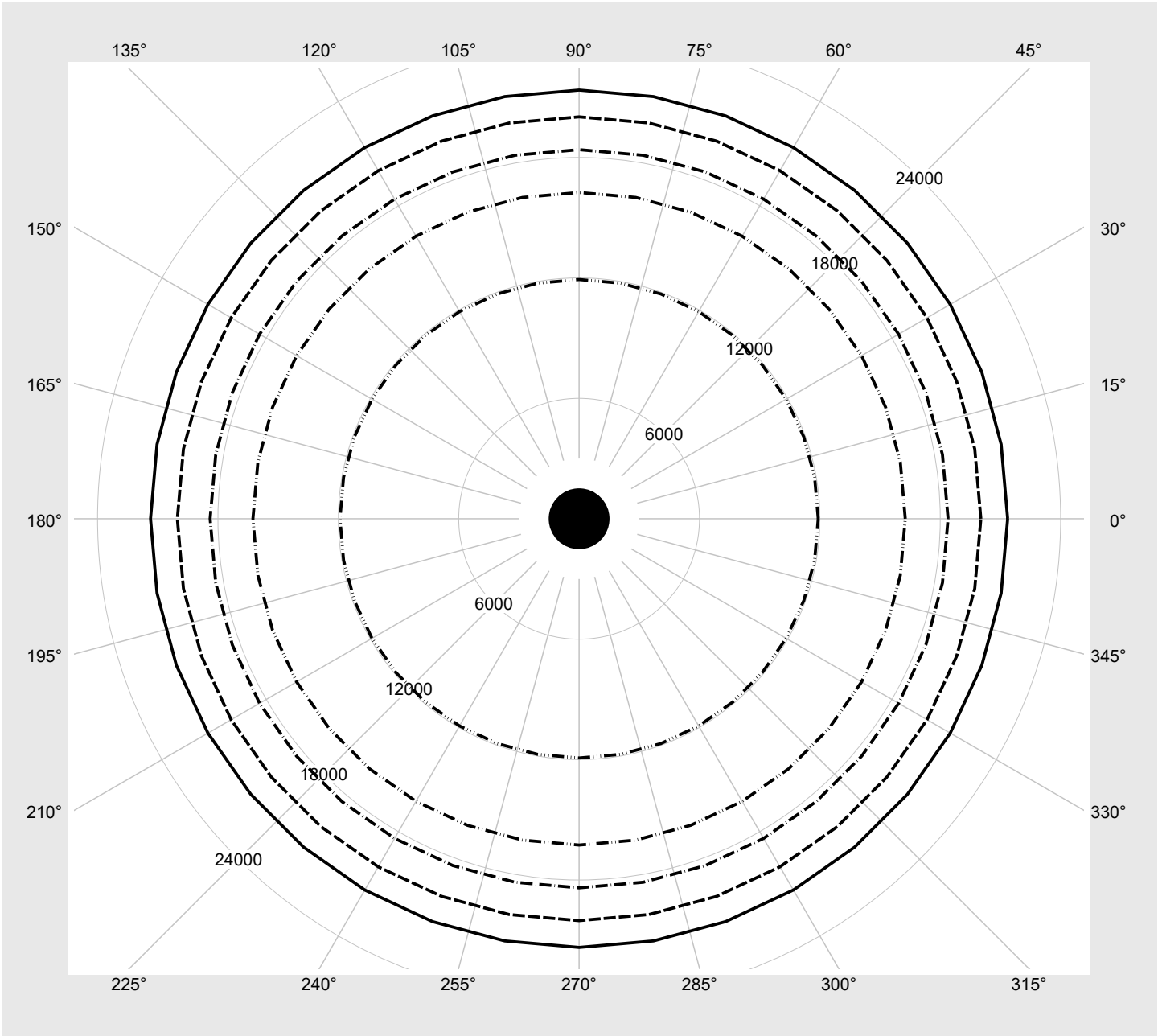
γ 70°

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		
7	OFF	ON	ON	ON	3040	21.7
6	OFF	ON	ON	OFF	2900	20.6
5	OFF	ON	OFF	ON	2740	19.1
4	OFF	ON	OFF	OFF	2590	17.7
3	OFF	OFF	ON	ON	2260	15.3
2	OFF	OFF	ON	OFF	2020	13.6
1	OFF	OFF	OFF	ON	1800	12.1
0	OFF	OFF	OFF	OFF	1550	10.4