

Photometric test report

Family
Lunis 31



Order number: 51DN16ME31B
EAN: 4069025151896

Version

Lamps

Controlgear

Setting

Rated values

cover, diffuse, wide distribution, UGR≤22

LED 3000 K | CRI ≥ 80

ECG Multilumen

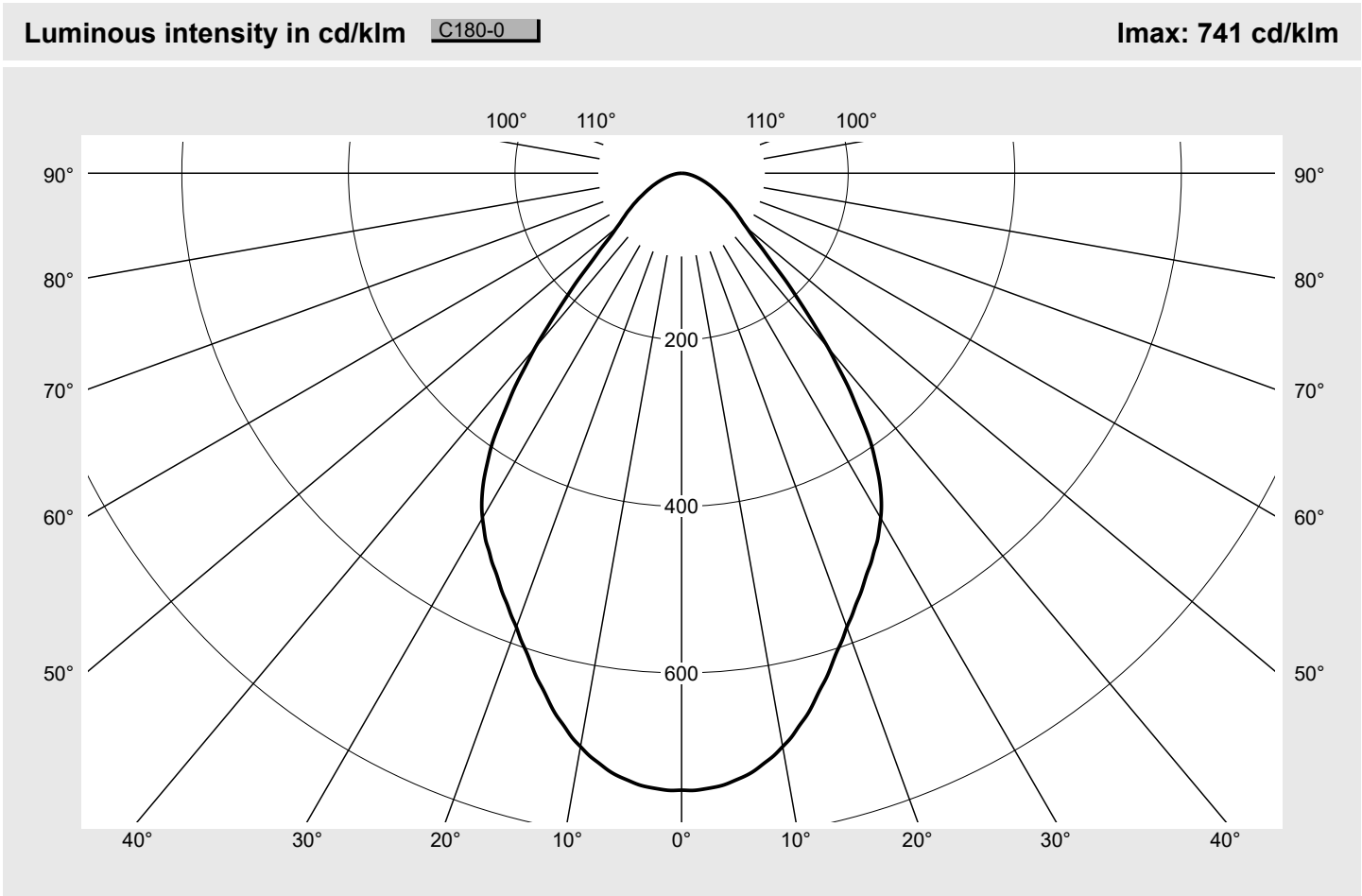
factory setting: DIP-Step=2

Net luminous flux = 1600 lm
Power consumption = 11.5 W
Luminous efficacy = 139.1 lm/W

LP number
59698_5

serial
documentation
12.12.2024

siteco



Classifications		Luminaire light output ratios	
DIN 5040	A 6 0	η_{LB}	100.0%
CIE	N1=76 N2=93 N3=99	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°	740.7	0.2	0.2
1°	741.2	1.4	1.6
2°	740.0	2.8	4.4
3°	738.4	4.2	8.7
4°	736.0	5.6	14.3
5°	731.9	7.0	21.3
6°	727.8	8.3	29.6
7°	722.3	9.7	39.3
8°	715.0	10.9	50.2
9°	708.1	12.1	62.3
10°	699.1	13.3	75.7
11°	690.1	14.4	90.1
12°	678.5	15.5	105.6
13°	668.1	16.5	122.1
14°	655.4	17.4	139.4
15°	642.0	18.2	157.7
16°	630.4	19.1	176.7
17°	616.9	19.8	196.5
18°	603.7	20.5	217.0
19°	592.6	21.2	238.1
20°	580.0	21.8	259.9
21°	569.8	22.4	282.3
22°	558.6	22.9	305.2
23°	549.1	23.5	328.7
24°	538.4	24.0	352.7
25°	528.2	24.5	377.2
26°	519.4	25.0	402.2
27°	509.2	25.3	427.5
28°	500.4	25.8	453.3
29°	489.2	26.0	479.3
30°	478.1	26.2	505.5
31°	465.9	26.3	531.8
32°	451.4	26.2	558.1
33°	434.8	26.0	584.0
34°	415.7	25.5	609.5
35°	396.8	25.0	634.5
36°	372.2	24.0	658.5
37°	347.0	22.9	681.4
38°	324.2	21.9	703.3
39°	297.1	20.5	723.8
40°	274.0	19.3	743.1
41°	247.1	17.8	760.9
42°	223.1	16.4	777.2
43°	200.9	15.0	792.3
44°	181.7	13.8	806.1
45°	160.7	12.5	818.6
46°	144.1	11.4	829.9

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm Luminous flux in lm/klm		
47°	131.3	10.5	840.5
48°	118.0	9.6	850.1
49°	108.8	9.0	859.1
50°	102.0	8.6	867.6
51°	95.2	8.1	875.8
52°	90.5	7.8	883.6
53°	85.6	7.5	891.1
54°	81.6	7.2	898.3
55°	77.0	6.9	905.2
56°	72.6	6.6	911.8
57°	68.9	6.3	918.2
58°	64.6	6.0	924.2
59°	61.1	5.7	929.9
60°	57.1	5.4	935.3
61°	53.3	5.1	940.4
62°	50.3	4.9	945.3
63°	47.2	4.6	949.9
64°	44.3	4.4	954.3
65°	41.3	4.1	958.4
66°	38.9	3.9	962.3
67°	36.3	3.7	966.0
68°	33.6	3.4	969.4
69°	31.4	3.2	972.6
70°	29.0	3.0	975.6
71°	26.8	2.8	978.4
72°	24.7	2.6	980.9
73°	22.7	2.4	983.3
74°	20.8	2.2	985.5
75°	18.8	2.0	987.5
76°	17.3	1.8	989.3
77°	15.5	1.7	991.0
78°	14.1	1.5	992.5
79°	12.4	1.3	993.8
80°	10.8	1.2	995.0
81°	9.6	1.0	996.1
82°	8.2	0.9	996.9
83°	7.1	0.8	997.7
84°	5.8	0.6	998.4
85°	4.7	0.5	998.9
86°	3.6	0.4	999.3
87°	2.7	0.3	999.6
88°	2.1	0.2	999.8
89°	1.3	0.1	999.9
90°	1.0	0.1	1000.1

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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	20.4	21.8	20.8	22.1	22.4	20.4	21.8	20.8	22.1	22.4
	3H	20.9	22.2	21.3	22.5	22.9	20.9	22.2	21.3	22.5	22.9
	4H	21.2	22.3	21.6	22.7	23.0	21.2	22.3	21.6	22.7	23.0
	6H	21.3	22.4	21.7	22.7	23.1	21.3	22.4	21.7	22.7	23.1
	8H	21.4	22.4	21.9	22.7	23.2	21.4	22.4	21.9	22.7	23.2
	12H	21.5	22.3	21.9	22.7	23.1	21.5	22.3	21.9	22.7	23.1
4H	2H	20.6	21.8	21.0	22.1	22.5	20.6	21.8	21.0	22.1	22.5
	3H	21.3	22.3	21.7	22.7	23.1	21.3	22.3	21.7	22.7	23.1
	4H	21.6	22.5	22.1	22.9	23.3	21.6	22.5	22.1	22.9	23.3
	6H	21.9	22.6	22.3	23.0	23.5	21.9	22.6	22.3	23.0	23.5
	8H	21.9	22.6	22.4	23.0	23.5	21.9	22.6	22.4	23.0	23.5
	12H	22.0	22.6	22.5	23.0	23.5	22.0	22.6	22.5	23.0	23.5
8H	4H	21.7	22.4	22.2	22.8	23.3	21.7	22.4	22.2	22.8	23.3
	6H	22.0	22.6	22.5	23.0	23.6	22.0	22.6	22.5	23.0	23.6
	8H	22.1	22.6	22.7	23.1	23.6	22.1	22.6	22.7	23.1	23.6
	12H	22.3	22.6	22.8	23.1	23.7	22.3	22.6	22.8	23.1	23.7
12H	4H	21.7	22.3	22.2	22.8	23.3	21.7	22.3	22.2	22.8	23.3
	6H	22.1	22.5	22.6	23.0	23.5	22.1	22.5	22.6	23.0	23.5
	8H	22.2	22.6	22.7	23.1	23.6	22.2	22.6	22.7	23.1	23.6

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 146
C-planes		0°		
γ	Luminance in cd/m²			
45°	21718.6			
50°	15159.7			
55°	12829.6			
60°	10912.3			
65°	9347.9			
70°	8099.0			
75°	6959.0			
80°	5966.0			
85°	5199.8			

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Luminance values in cd/m²

γ 65°

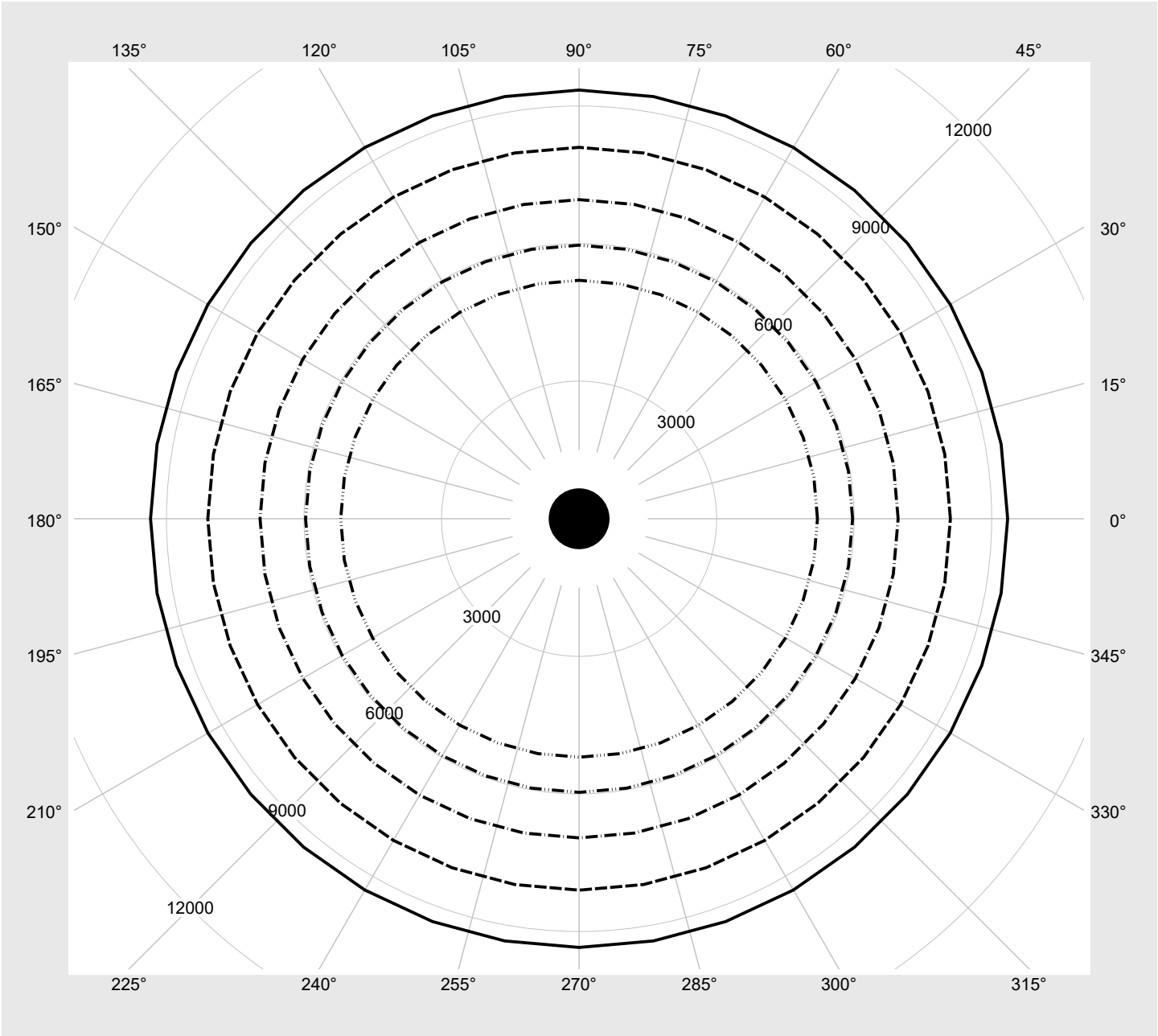
γ 70°

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		
2	OFF	ON	1600	11.5
1	ON	OFF	1300	9.5
0	OFF	OFF	1000	7.5