

Photometric test report

Family
Silhouette® 21

Order number: **51LN12NNM70A**
EAN: **4069025398246**

LP number
59582_30



Version surface-mounted luminaire, white, diffuser, PMMA, opal, with homogeneous illumination, extremely wide distribution, adjustable color temperature: 3000K | 4000K | 5000K

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI-Multilumen

Setting individual position: DIP-Step=8, colour temperature 3000K

Rated values Net luminous flux = 6810 lm
Power consumption = 52.6 W
Luminous efficacy = 129.5 lm/W

serial
documentation
17.06.2026

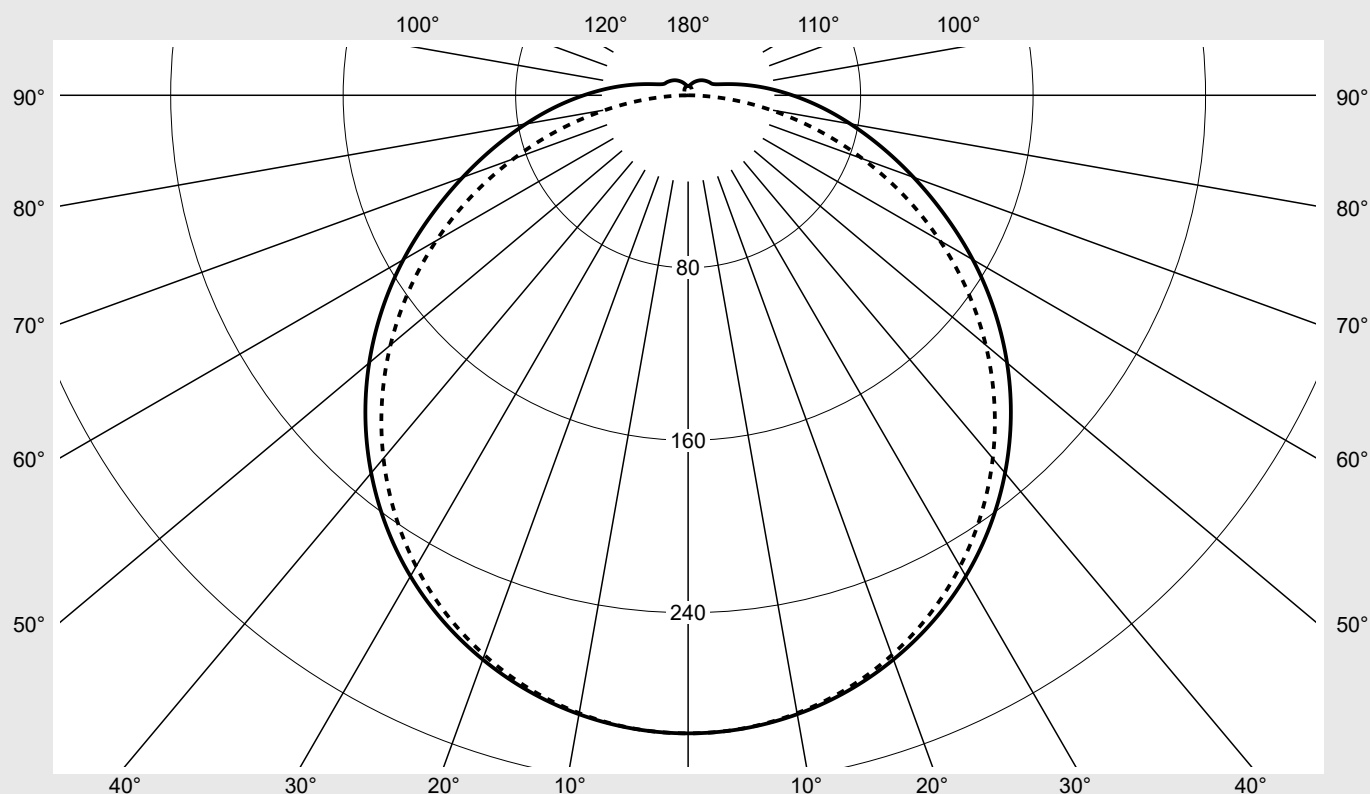
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Luminous intensity in cd/klm

C180-0

C270-90

Imax: 296 cd/klm



Classifications

DIN 5040 A 3 1
CIE N1=43 N2=73 N3=92
N4=94 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 93.9%
 ϕ_o 6.1%

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° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm							Luminous flux in lm/klm	
0°	295.9	295.9	295.9	295.9	295.9	295.9	295.9	1.8	1.8
5°	294.8	294.8	294.8	294.8	294.7	294.7	294.7	14.1	15.9
10°	291.5	291.5	291.4	291.2	291.1	291.0	291.0	27.7	43.6
15°	286.0	286.0	285.8	285.5	285.1	284.9	284.9	40.5	84.1
20°	278.5	278.4	277.9	277.3	276.8	276.4	276.3	52.0	136.1
25°	269.0	268.7	268.0	267.0	266.1	265.6	265.4	61.9	197.9
30°	257.6	257.2	256.2	254.8	253.4	252.6	252.3	69.8	267.8
35°	244.0	243.7	242.4	240.6	238.6	237.4	237.0	75.6	343.4
40°	228.7	228.2	226.6	224.4	222.0	220.3	219.8	79.0	422.4
45°	211.7	211.0	209.2	206.5	203.7	201.4	200.8	80.0	502.4
50°	193.1	192.3	190.2	187.0	183.7	181.0	180.2	78.4	580.9
55°	173.2	172.4	169.9	166.3	162.4	159.2	158.1	74.5	655.4
60°	152.5	151.5	148.7	144.5	140.0	136.2	134.9	68.4	723.8
65°	131.3	130.2	126.9	122.2	117.0	112.6	110.8	60.4	784.2
70°	111.3	109.8	105.4	99.6	93.6	88.4	86.2	51.1	835.3
75°	92.9	91.2	86.0	78.5	70.7	64.7	62.0	41.3	876.7
80°	76.4	74.5	68.7	60.2	50.1	42.0	38.6	31.8	908.5
85°	61.7	59.7	53.7	44.6	33.4	22.3	17.3	23.0	931.5
90°	48.4	46.4	40.5	31.6	20.6	9.3	0.5	15.8	947.3
95°	37.0	35.0	29.6	21.4	11.8	3.6	0.6	10.9	958.2
100°	27.5	25.8	21.0	14.1	7.2	3.0	0.8	7.7	965.9
105°	20.0	18.6	14.7	9.9	5.9	2.9	1.1	5.5	971.4
110°	14.9	13.8	11.4	8.5	5.7	3.0	1.4	4.3	975.7
115°	12.5	11.8	10.3	8.2	5.5	3.0	1.6	3.8	979.5
120°	11.7	11.3	10.0	7.7	5.3	3.1	1.8	3.5	983.0
125°	11.1	10.6	9.3	7.1	5.1	3.1	2.0	3.1	986.2
130°	10.5	10.0	8.7	6.8	4.9	3.2	2.2	2.8	989.0
135°	9.8	9.4	8.0	6.3	4.7	3.2	2.4	2.4	991.4
140°	9.1	8.7	7.2	5.9	4.6	3.3	2.7	2.1	993.5
145°	8.3	8.0	6.6	5.5	4.4	3.5	3.0	1.8	995.3
150°	7.5	7.2	6.0	5.1	4.3	3.7	3.3	1.5	996.7
155°	6.8	6.3	5.5	4.8	4.2	3.9	3.6	1.1	997.9
160°	6.0	5.4	4.9	4.5	4.2	4.0	3.8	0.9	998.7
165°	5.3	4.7	4.4	4.4	4.3	4.2	4.1	0.6	999.4
170°	4.8	4.2	4.3	4.3	4.3	4.3	4.2	0.4	999.8
175°	4.4	4.0	4.2	4.3	4.4	4.4	4.4	0.2	1000.0
180°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	0.0	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	19.4	21.1	19.7	21.4	21.8	19.4	21.2	19.8	21.5	21.8
	3H	21.2	22.8	21.6	23.1	23.5	21.1	22.7	21.5	23.0	23.4
	4H	22.1	23.6	22.5	23.9	24.3	21.8	23.3	22.2	23.7	24.0
	6H	22.9	24.3	23.4	24.7	25.1	22.4	23.8	22.8	24.1	24.5
	8H	23.4	24.7	23.8	25.1	25.5	22.6	23.9	23.0	24.3	24.7
	12H	23.8	25.0	24.2	25.4	25.8	22.7	24.0	23.1	24.4	24.8
4H	2H	20.2	21.7	20.6	22.0	22.4	20.2	21.7	20.6	22.0	22.4
	3H	22.2	23.5	22.6	23.9	24.3	22.1	23.4	22.5	23.7	24.1
	4H	23.2	24.4	23.6	24.8	25.2	22.9	24.1	23.3	24.5	24.9
	6H	24.2	25.3	24.7	25.7	26.1	23.5	24.6	24.0	25.0	25.5
	8H	24.7	25.7	25.2	26.1	26.6	23.8	24.8	24.3	25.2	25.7
	12H	25.2	26.1	25.7	26.5	27.0	24.0	24.9	24.5	25.3	25.8
8H	4H	23.6	24.6	24.1	25.0	25.5	23.3	24.3	23.8	24.7	25.2
	6H	24.8	25.6	25.3	26.1	26.6	24.1	25.0	24.6	25.4	25.9
	8H	25.4	26.2	25.9	26.6	27.2	24.5	25.2	25.0	25.7	26.2
	12H	26.1	26.7	26.6	27.2	27.7	24.8	25.4	25.3	25.9	26.4
12H	4H	23.7	24.5	24.1	25.0	25.5	23.4	24.3	23.9	24.7	25.2
	6H	24.9	25.6	25.4	26.1	26.6	24.3	25.0	24.8	25.5	26.0
	8H	25.6	26.3	26.1	26.7	27.3	24.7	25.3	25.2	25.8	26.4

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:	L = 1433 B = 148	H(C0) = 30 H(C90) = 0	H(C180) = 30 H(C270) = 0
C- planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
γ	Luminance in cd/m²						
45°	7992.1	8014.5	8081.1	8201.4	8398.5	8690.3	9119.0
50°	7769.6	7790.1	7856.6	7979.8	8186.5	8508.4	9001.6
55°	7521.1	7541.9	7605.4	7726.1	7941.1	8288.8	8852.4
60°	7247.4	7267.8	7321.5	7433.8	7646.2	8017.3	8660.7
65°	6953.7	6966.0	7003.5	7098.8	7300.5	7687.7	8421.5
70°	6710.9	6705.1	6677.9	6711.6	6873.6	7255.8	8091.3
75°	6563.5	6538.2	6446.4	6343.6	6365.7	6714.1	7690.2
80°	6572.3	6524.4	6365.7	6138.1	5885.0	5989.8	7141.7
85°	6849.3	6787.5	6581.0	6226.3	5704.4	5144.7	6373.3

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Luminance values in cd/m²

γ 65°

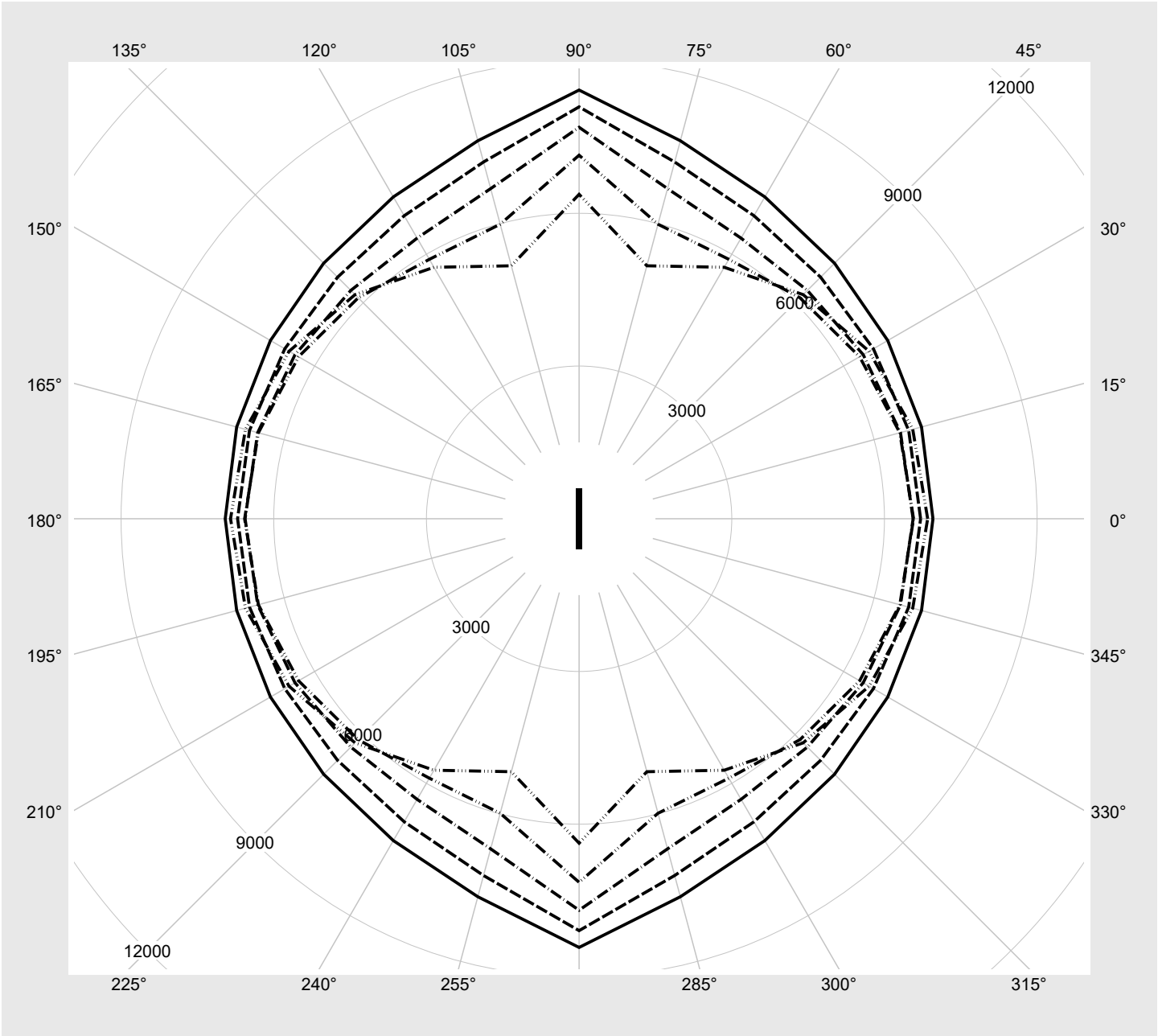
γ 70°

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		
13	ON	OFF	ON	ON	4110	30.3
12	OFF	OFF	ON	ON	5070	37.8
10	OFF	ON	OFF	ON	5890	44.6
8	OFF	OFF	OFF	ON	6810	52.6
6	OFF	ON	ON	OFF	7610	59.6