

Photometric test report

Family
Silhouette® 21

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

LP number
59582_32



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

Lamps LED 5000 K | CRI ≥ 80

Controlgear ECG-DALI-Multilumen

Setting individual position: DIP-Step=8, colour temperature 5000K

Rated values Net luminous flux = 7390 lm
Power consumption = 52.6 W
Luminous efficacy = 140.5 lm/W

serial
documentation
17.06.2026

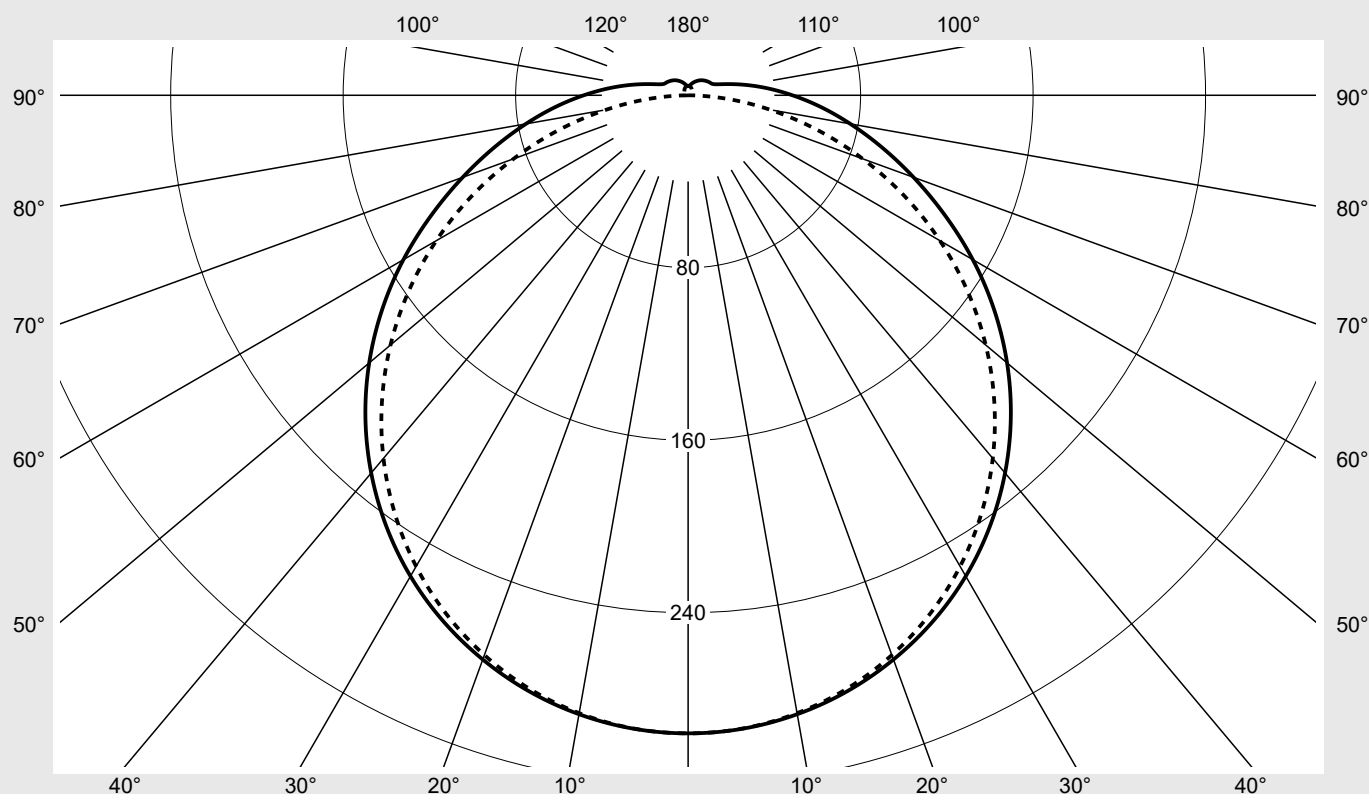
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Luminous intensity in cd/klm

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	19.7	21.4	20.0	21.7	22.0	19.7	21.4	20.1	21.8	22.1
	3H	21.5	23.1	21.9	23.4	23.8	21.4	23.0	21.8	23.3	23.7
	4H	22.4	23.9	22.8	24.2	24.6	22.1	23.6	22.5	23.9	24.3
	6H	23.2	24.6	23.6	25.0	25.4	22.6	24.0	23.0	24.4	24.8
	8H	23.7	25.0	24.1	25.3	25.7	22.9	24.2	23.3	24.6	25.0
	12H	24.1	25.3	24.5	25.7	26.1	23.0	24.3	23.4	24.6	25.1
4H	2H	20.4	22.0	20.8	22.3	22.7	20.5	22.0	20.9	22.3	22.7
	3H	22.5	23.8	22.9	24.2	24.6	22.3	23.6	22.8	24.0	24.4
	4H	23.5	24.7	23.9	25.1	25.5	23.2	24.3	23.6	24.7	25.2
	6H	24.5	25.6	25.0	26.0	26.4	23.8	24.9	24.3	25.3	25.8
	8H	25.0	26.0	25.5	26.4	26.9	24.1	25.0	24.5	25.5	26.0
	12H	25.5	26.4	26.0	26.8	27.3	24.3	25.1	24.8	25.6	26.1
8H	4H	23.9	24.9	24.3	25.3	25.8	23.6	24.6	24.1	25.0	25.5
	6H	25.1	25.9	25.6	26.4	26.9	24.4	25.2	24.9	25.7	26.2
	8H	25.7	26.4	26.2	26.9	27.4	24.8	25.5	25.3	26.0	26.5
	12H	26.4	27.0	26.9	27.5	28.0	25.0	25.7	25.5	26.2	26.7
12H	4H	24.0	24.8	24.4	25.3	25.8	23.7	24.6	24.2	25.0	25.5
	6H	25.2	25.9	25.7	26.4	26.9	24.6	25.3	25.1	25.8	26.3
	8H	25.9	26.5	26.4	27.0	27.6	25.0	25.6	25.5	26.1	26.6

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	γ	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
			Luminance in cd/m²					
45° 50° 55° 60°		8672.8	8697.1	8769.3	8899.9	9113.8	9430.5	9895.7
		8431.3	8453.5	8525.8	8659.4	8883.8	9233.0	9768.2
		8161.7	8184.2	8253.1	8384.1	8617.4	8994.7	9606.4
		7864.7	7886.7	7945.1	8066.9	8297.4	8700.1	9398.3
65° 70° 75° 80°		7546.0	7559.3	7600.0	7703.4	7922.3	8342.5	9138.8
		7282.5	7276.2	7246.6	7283.3	7459.0	7873.7	8780.4
		7122.5	7095.1	6995.4	6883.9	6907.8	7286.0	8345.1
		7132.1	7080.1	6907.9	6660.8	6386.2	6499.9	7750.0
85°		7432.7	7365.6	7141.5	6756.6	6190.2	5582.9	6916.1

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Luminance values in cd/m²

γ 65°

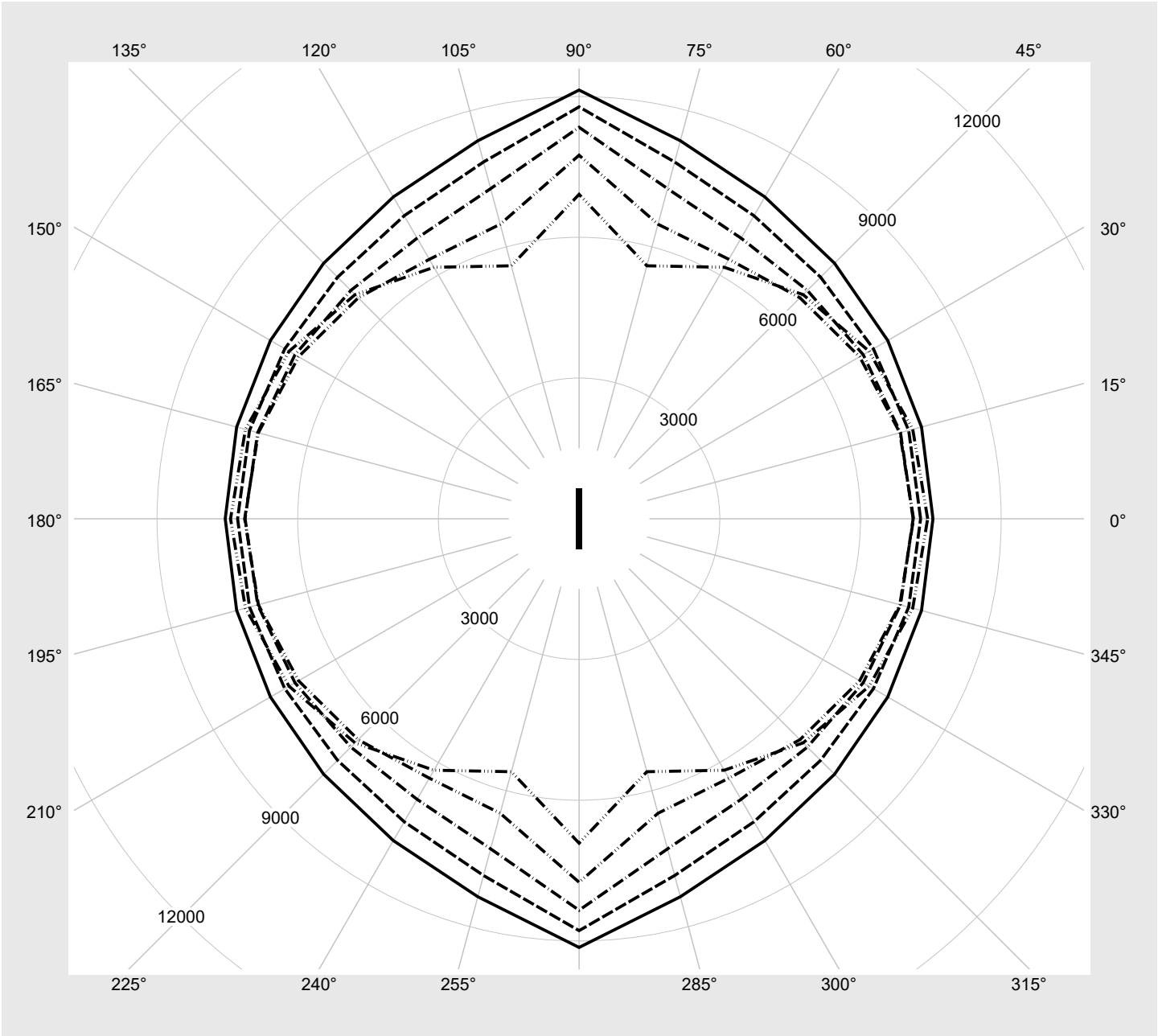
γ 70°

γ 75°

γ 80°

γ 85°

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Family Silhouette® 21	Order number: 51LN12NNM70A EAN: 4069025398246	LP number 59582_32
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	4460	30.4
12	OFF	OFF	ON	ON	5500	37.9
10	OFF	ON	OFF	ON	6400	44.7
8	OFF	OFF	OFF	ON	7390	52.6
6	OFF	ON	ON	OFF	8220	59.5