

Photometric test report

Family
Silhouette® 21

Order number: **51LN12NKM40A**
EAN: **4069025398239**

LP number
59582_29



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=2, colour temperature 5000K

Rated values Net luminous flux = 4920 lm
Power consumption = 35.0 W
Luminous efficacy = 140.6 lm/W

serial
documentation
17.06.2026

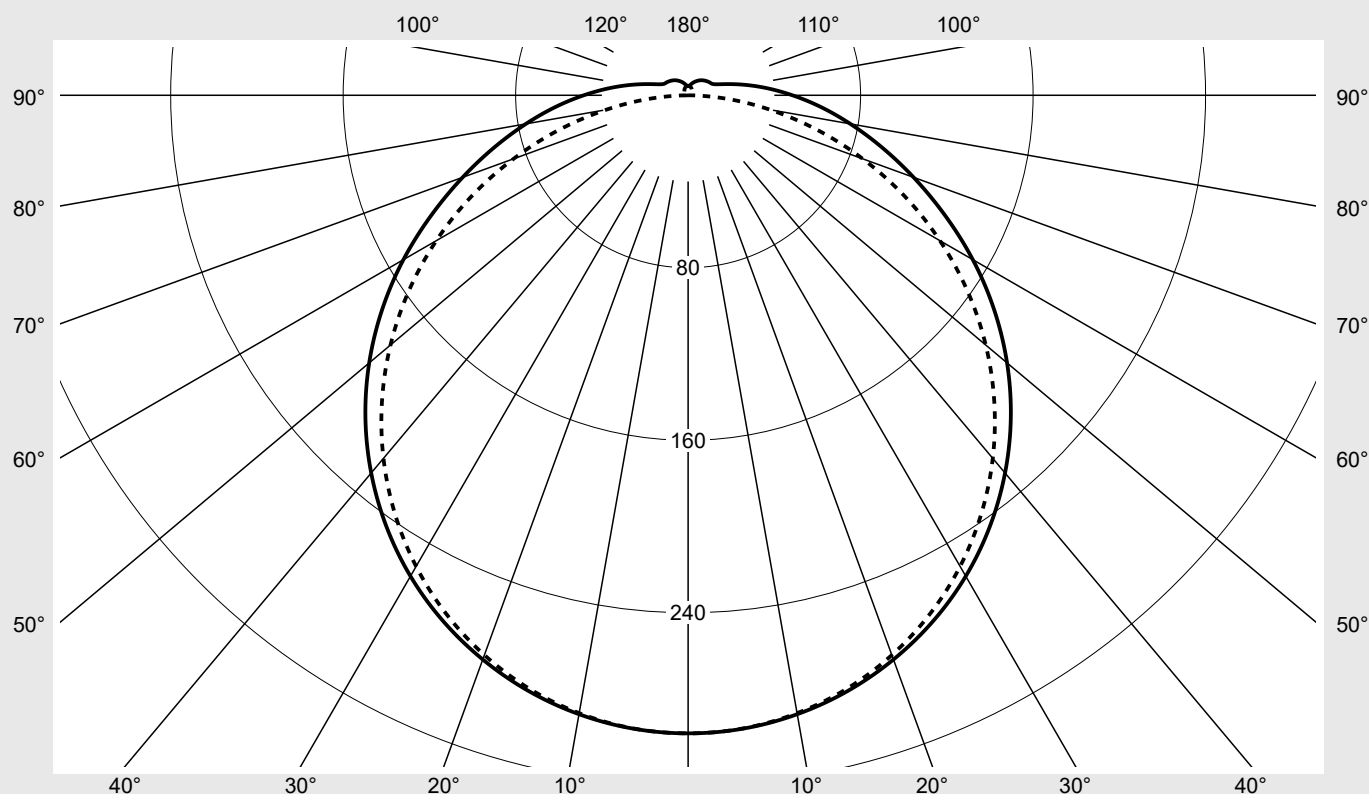
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Luminous intensity in cd/klm

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	19.1	20.8	19.4	21.1	21.5	19.1	20.9	19.5	21.2	21.5
	3H	20.9	22.5	21.3	22.8	23.2	20.8	22.4	21.2	22.7	23.1
	4H	21.8	23.3	22.2	23.6	24.0	21.5	23.0	21.9	23.3	23.7
	6H	22.6	24.0	23.0	24.4	24.8	22.0	23.4	22.4	23.8	24.2
	8H	23.1	24.4	23.5	24.8	25.2	22.3	23.6	22.7	24.0	24.4
	12H	23.5	24.7	23.9	25.1	25.5	22.4	23.7	22.8	24.0	24.5
4H	2H	19.9	21.4	20.2	21.7	22.1	19.9	21.4	20.3	21.7	22.1
	3H	21.9	23.2	22.3	23.6	24.0	21.7	23.0	22.2	23.4	23.8
	4H	22.9	24.1	23.3	24.5	24.9	22.6	23.7	23.0	24.2	24.6
	6H	23.9	25.0	24.4	25.4	25.8	23.2	24.3	23.7	24.7	25.2
	8H	24.4	25.4	24.9	25.8	26.3	23.5	24.5	23.9	24.9	25.4
	12H	24.9	25.8	25.4	26.2	26.7	23.7	24.6	24.2	25.0	25.5
8H	4H	23.3	24.3	23.8	24.7	25.2	23.0	24.0	23.5	24.4	24.9
	6H	24.5	25.3	25.0	25.8	26.3	23.8	24.6	24.3	25.1	25.6
	8H	25.1	25.9	25.6	26.3	26.8	24.2	24.9	24.7	25.4	25.9
	12H	25.8	26.4	26.3	26.9	27.4	24.4	25.1	24.9	25.6	26.1
12H	4H	23.4	24.2	23.8	24.7	25.2	23.1	24.0	23.6	24.4	24.9
	6H	24.6	25.3	25.1	25.8	26.3	24.0	24.7	24.5	25.2	25.7
	8H	25.3	25.9	25.8	26.4	27.0	24.4	25.0	24.9	25.5	26.0

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1133 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°		7302.9	7323.4	7384.2	7494.2	7674.3	7940.9	8332.6
50°		7099.6	7118.3	7179.1	7291.6	7480.5	7774.7	8225.3
55°		6872.5	6891.5	6949.5	7059.8	7256.3	7574.0	8089.0
60°		6622.4	6641.0	6690.2	6792.7	6986.8	7325.9	7913.8
65°		6354.1	6365.3	6399.6	6486.6	6671.0	7024.8	7695.3
70°		6132.2	6126.9	6102.0	6132.9	6280.9	6630.1	7393.6
75°		5997.5	5974.4	5890.5	5796.6	5816.7	6135.2	7027.0
80°		6005.6	5961.8	5816.8	5608.7	5377.5	5473.2	6525.9
85°		6258.7	6202.2	6013.4	5689.3	5212.4	4701.0	5823.7

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Luminance values in cd/m²

γ 65°

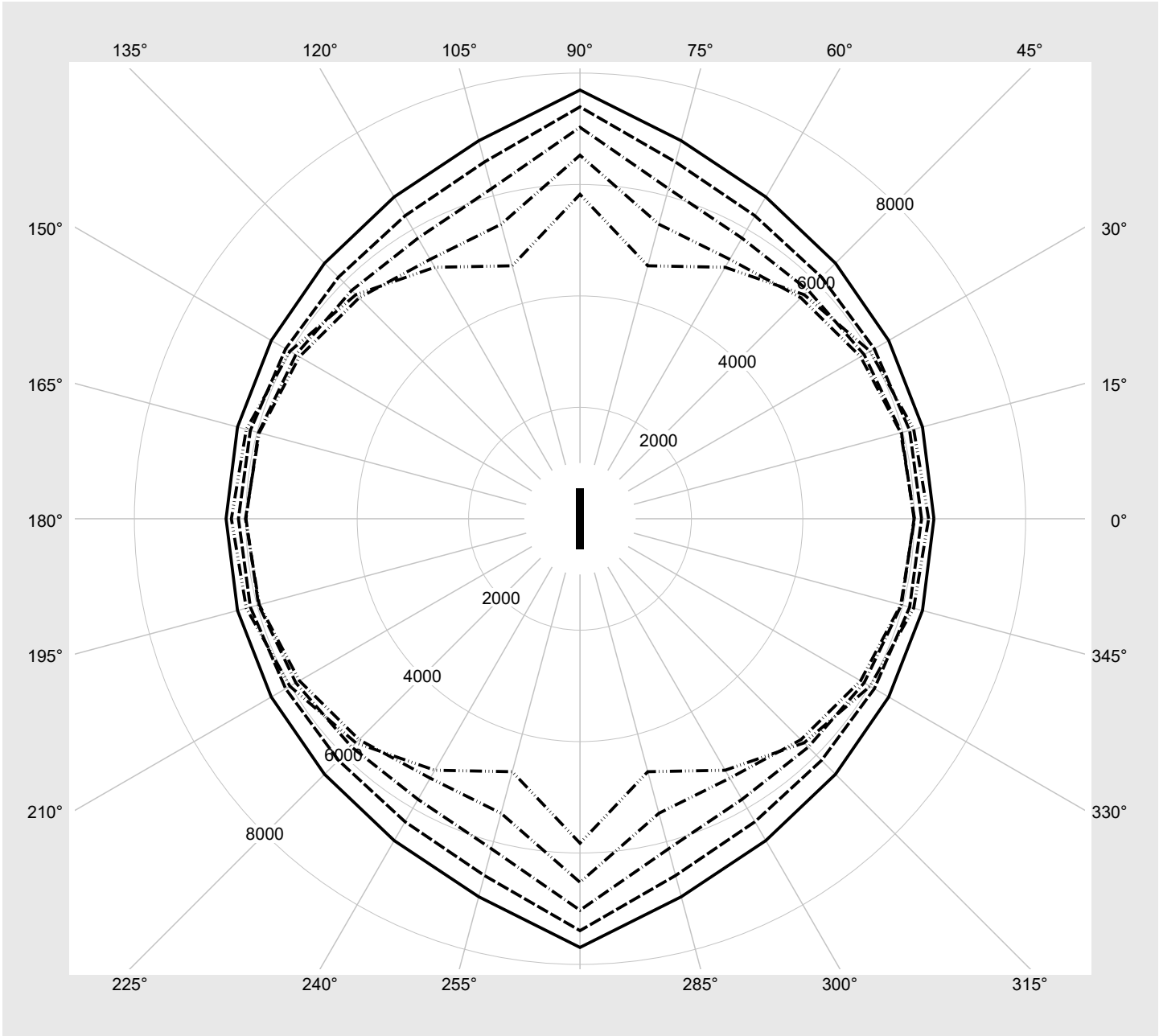
γ 70°

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		
8	OFF	OFF	OFF	ON	2940	20.1
6	OFF	ON	ON	OFF	3680	25.4
4	OFF	OFF	ON	OFF	4300	30.0
2	OFF	ON	OFF	OFF	4920	35.0
0	OFF	OFF	OFF	OFF	5550	40.4