

Photometric test report

Family
Silhouette® 21

Order number: 51LN12NKM40A
EAN: 4069025398239

LP number
59582_27



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=2, colour
temperature 3000K

Rated values

Net luminous flux = 4520 lm
Power consumption = 35.0 W
Luminous efficacy = 129.1 lm/W

serial
documentation
17.06.2026

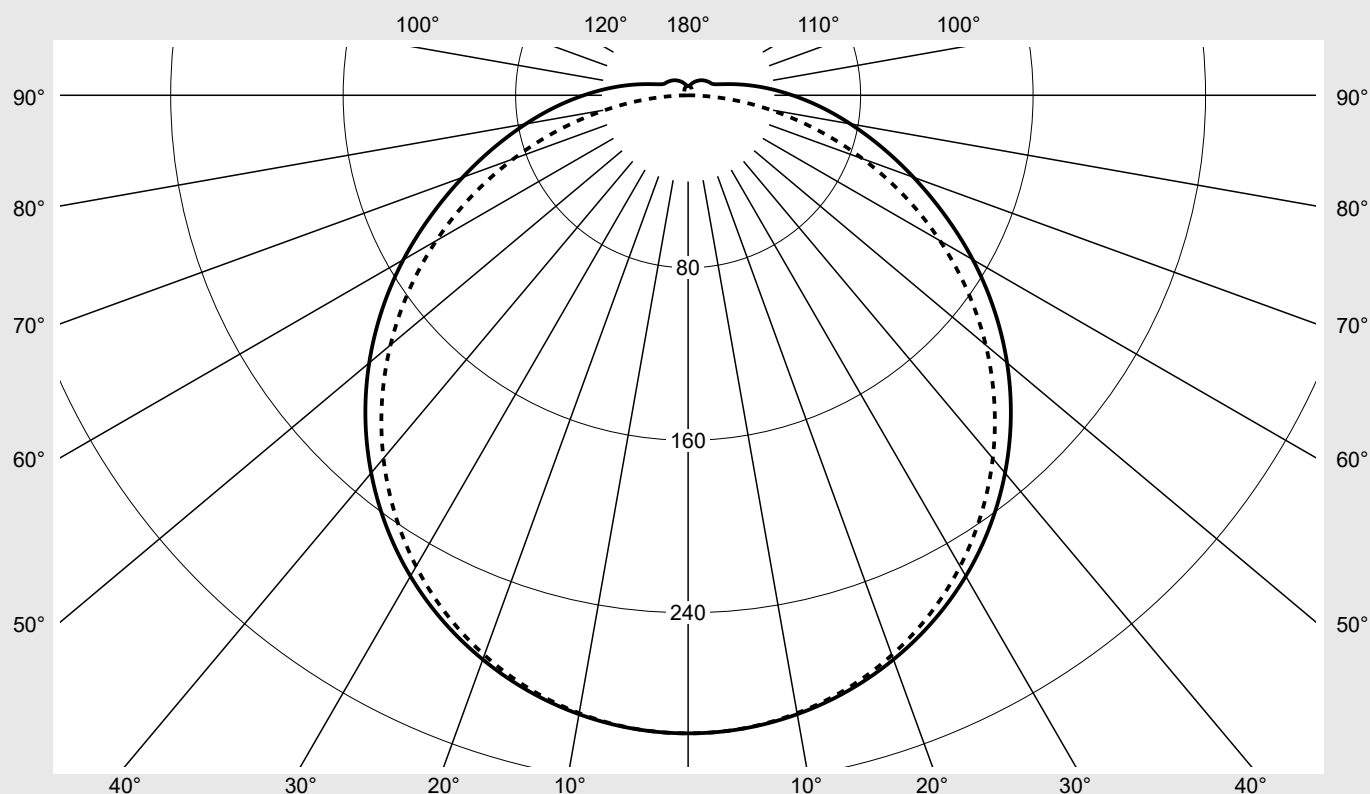
siteco

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	18.8	20.5	19.1	20.8	21.2	18.8	20.6	19.2	20.9	21.2
	3H	20.6	22.2	21.0	22.5	22.9	20.5	22.1	20.9	22.4	22.8
	4H	21.5	23.0	21.9	23.3	23.7	21.2	22.7	21.6	23.1	23.4
	6H	22.3	23.7	22.7	24.1	24.5	21.7	23.1	22.2	23.5	23.9
	8H	22.8	24.1	23.2	24.5	24.9	22.0	23.3	22.4	23.7	24.1
	12H	23.2	24.4	23.6	24.8	25.2	22.1	23.4	22.5	23.8	24.2
4H	2H	19.6	21.1	19.9	21.4	21.8	19.6	21.1	20.0	21.4	21.8
	3H	21.6	22.9	22.0	23.3	23.7	21.5	22.7	21.9	23.1	23.5
	4H	22.6	23.8	23.0	24.2	24.6	22.3	23.5	22.7	23.9	24.3
	6H	23.6	24.7	24.1	25.1	25.5	22.9	24.0	23.4	24.4	24.9
	8H	24.1	25.1	24.6	25.5	26.0	23.2	24.2	23.7	24.6	25.1
	12H	24.6	25.5	25.1	25.9	26.4	23.4	24.3	23.9	24.7	25.2
8H	4H	23.0	24.0	23.5	24.4	24.9	22.7	23.7	23.2	24.1	24.6
	6H	24.2	25.0	24.7	25.5	26.0	23.5	24.3	24.0	24.8	25.3
	8H	24.8	25.6	25.3	26.0	26.5	23.9	24.6	24.4	25.1	25.6
	12H	25.5	26.1	26.0	26.6	27.1	24.1	24.8	24.7	25.3	25.8
12H	4H	23.1	23.9	23.5	24.4	24.9	22.8	23.7	23.3	24.1	24.6
	6H	24.3	25.0	24.8	25.5	26.0	23.7	24.4	24.2	24.9	25.4
	8H	25.0	25.6	25.5	26.1	26.7	24.1	24.7	24.6	25.2	25.8

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		15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°			
	γ	0° 180°							90° 270°
Luminance in cd/m²									
45°	6709.2	6728.0	6783.8	6884.9	7050.3	7295.3	7655.2		
50°	6522.4	6539.6	6595.4	6698.8	6872.4	7142.6	7556.6		
55°	6313.8	6331.2	6384.5	6485.9	6666.3	6958.2	7431.4		
60°	6084.0	6101.1	6146.3	6240.5	6418.8	6730.3	7270.4		
65°	5837.5	5847.8	5879.3	5959.2	6128.6	6453.7	7069.7		
70°	5633.6	5628.8	5605.9	5634.3	5770.2	6091.0	6792.5		
75°	5509.9	5488.7	5411.6	5325.3	5343.8	5636.4	6455.7		
80°	5517.3	5477.1	5343.8	5152.7	4940.3	5028.3	5995.3		
85°	5749.9	5698.0	5524.5	5226.8	4788.7	4318.8	5350.2		

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Luminance values in cd/m²

γ 65°

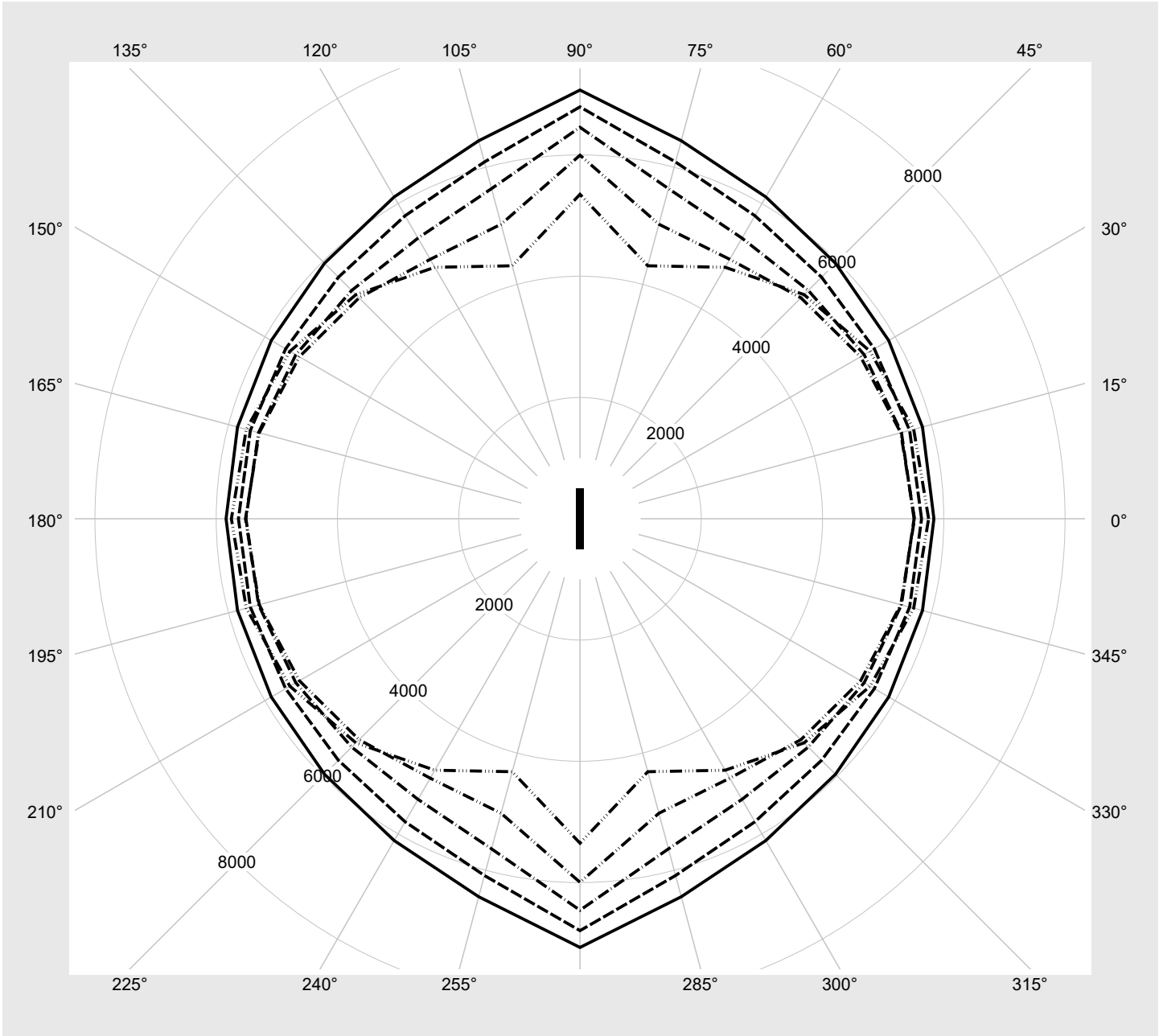
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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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		
8	OFF	OFF	OFF	ON	2710	20.1
6	OFF	ON	ON	OFF	3390	25.4
4	OFF	OFF	ON	OFF	3950	30.0
2	OFF	ON	OFF	OFF	4520	35.0
0	OFF	OFF	OFF	OFF	5120	40.4