

Photometric test report

Family
Silhouette® 21

Order number: 51LN12MNM70A
EAN: 4058352011607

LP number
59582_21



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

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG Multilumen

Setting factory setting: colour temperature 4000K

Rated values Net luminous flux = 7150 lm
Power consumption = 48.5 W
Luminous efficacy = 147.4 lm/W

serial
documentation
14.03.2024

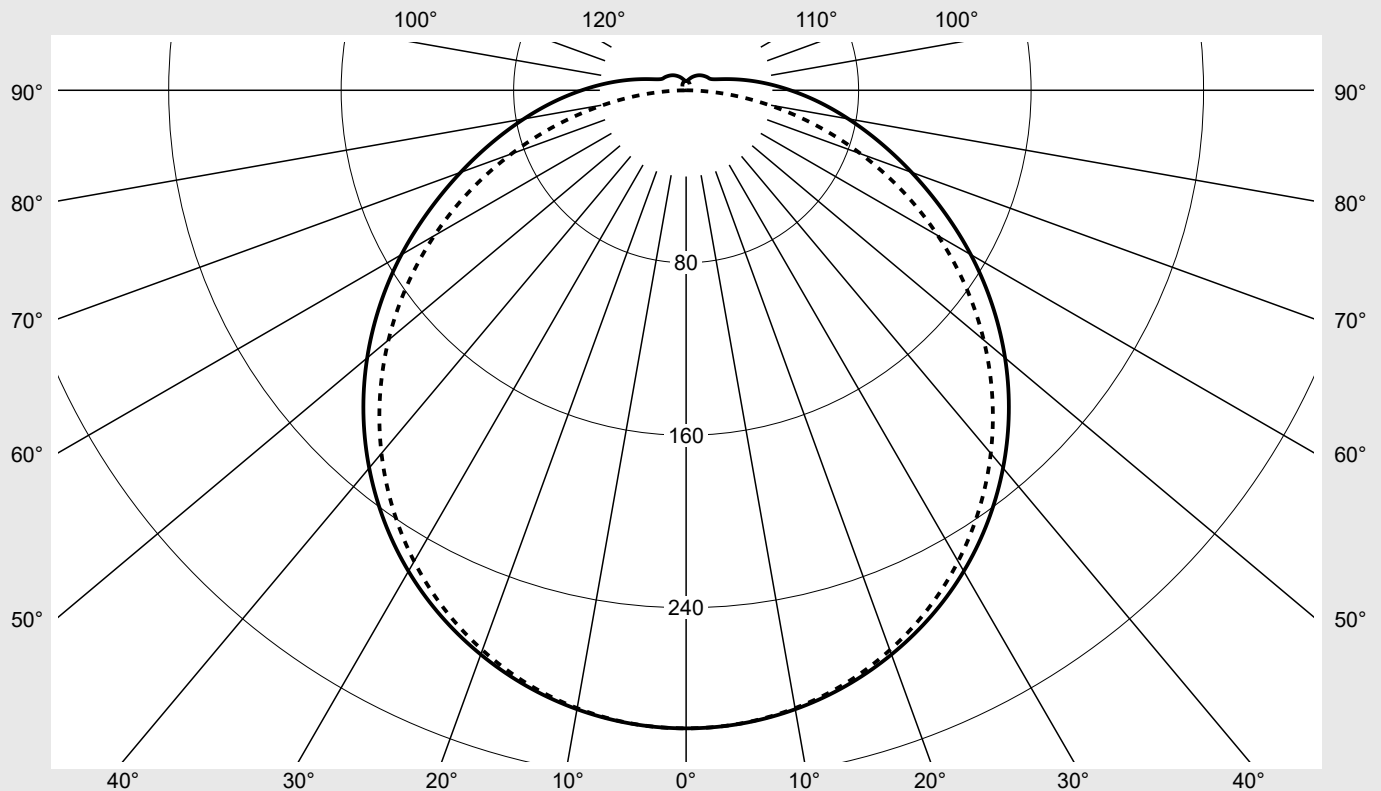
siteco

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 γ	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
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
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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	19.6	21.3	19.9	21.6	21.9	19.6	21.3	19.9	21.6	22.0
	3H	21.4	23.0	21.8	23.3	23.7	21.3	22.9	21.6	23.2	23.6
	4H	22.3	23.8	22.7	24.1	24.5	22.0	23.5	22.4	23.8	24.2
	6H	23.1	24.5	23.5	24.9	25.3	22.5	23.9	22.9	24.3	24.7
	8H	23.6	24.9	24.0	25.2	25.6	22.7	24.1	23.2	24.4	24.8
	12H	23.9	25.2	24.4	25.6	26.0	22.9	24.1	23.3	24.5	24.9
4H	2H	20.3	21.8	20.7	22.2	22.6	20.4	21.9	20.8	22.2	22.6
	3H	22.4	23.7	22.8	24.0	24.4	22.2	23.5	22.6	23.9	24.3
	4H	23.4	24.6	23.8	25.0	25.4	23.1	24.2	23.5	24.6	25.1
	6H	24.4	25.4	24.8	25.9	26.3	23.7	24.8	24.2	25.2	25.6
	8H	24.9	25.9	25.4	26.3	26.8	24.0	24.9	24.4	25.4	25.8
	12H	25.4	26.3	25.9	26.7	27.2	24.2	25.0	24.6	25.5	26.0
8H	4H	23.8	24.7	24.2	25.2	25.6	23.5	24.4	23.9	24.9	25.3
	6H	25.0	25.8	25.5	26.3	26.8	24.3	25.1	24.8	25.6	26.1
	8H	25.6	26.3	26.1	26.8	27.3	24.6	25.4	25.1	25.9	26.4
	12H	26.3	26.9	26.8	27.4	27.9	24.9	25.6	25.4	26.0	26.6
12H	4H	23.8	24.7	24.3	25.2	25.6	23.6	24.4	24.1	24.9	25.4
	6H	25.1	25.8	25.6	26.3	26.8	24.5	25.2	25.0	25.7	26.2
	8H	25.8	26.4	26.3	26.9	27.4	24.9	25.5	25.4	26.0	26.5

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1433	H(C0) = 30	H(C180) = 30
			B = 148	H(C90) = 0	H(C270) = 0

C-planes	γ	Luminance in cd/m ²							
		0°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		8391.1	8414.7	8484.5	8610.9	8817.8	9124.2	9574.3	
50°		8157.5	8179.0	8248.9	8378.2	8595.2	8933.2	9451.0	
55°		7896.6	7918.4	7985.1	8111.8	8337.6	8702.6	9294.4	
60°		7609.3	7630.6	7687.1	7805.0	8028.0	8417.6	9093.1	
65°		7300.9	7313.8	7353.2	7453.2	7665.0	8071.6	8842.0	
70°		7046.0	7039.9	7011.3	7046.7	7216.8	7618.0	8495.3	
75°		6891.2	6864.6	6768.2	6660.3	6683.5	7049.4	8074.1	
80°		6900.5	6850.2	6683.5	6444.5	6178.8	6288.8	7498.3	
85°		7191.3	7126.4	6909.5	6537.1	5989.2	5401.6	6691.5	

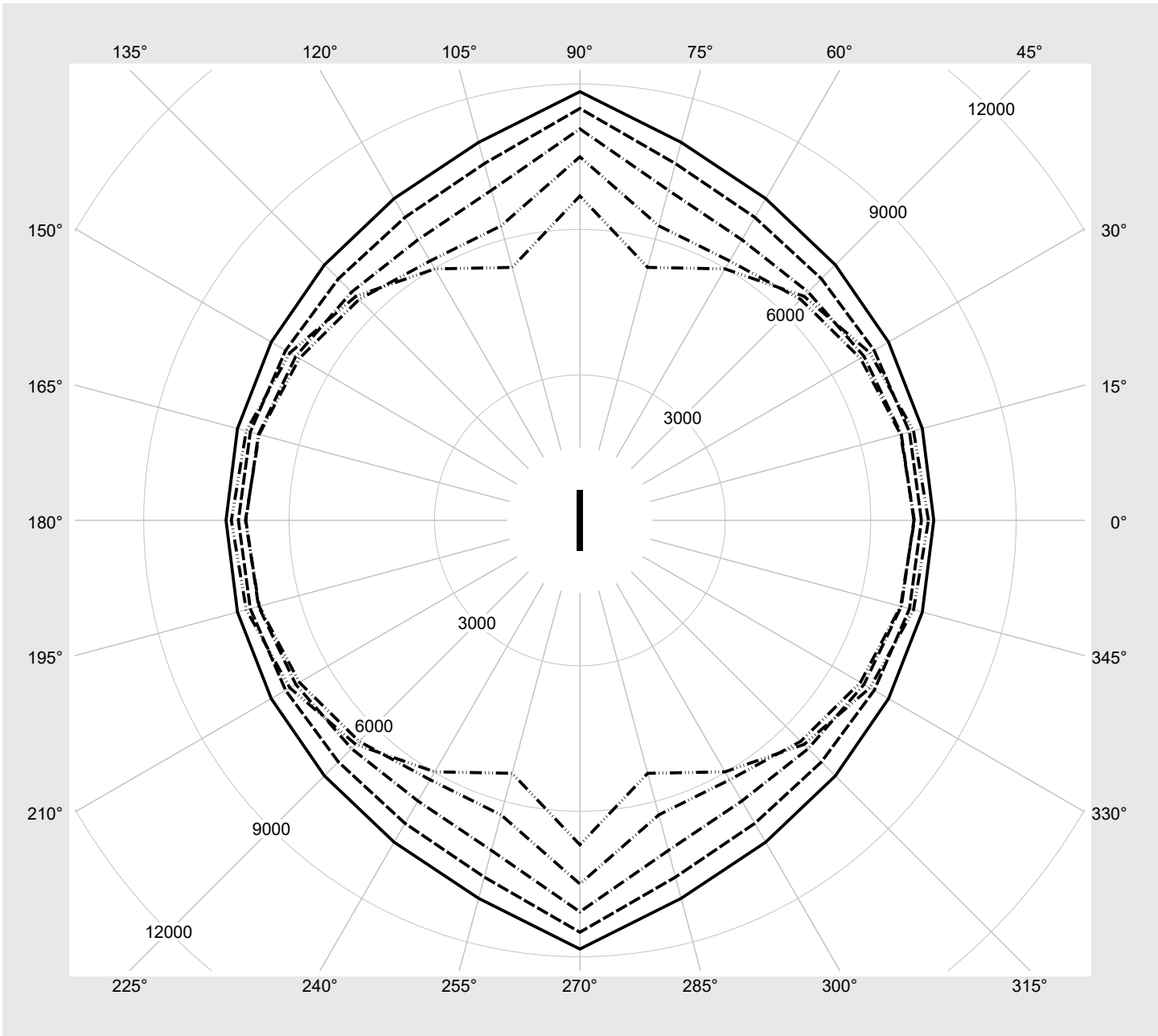
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Luminance values in cd/m²

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°

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Multilumen Table	environmental temperature: 25°C	sITeco
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
4	OFF	OFF	ON	4250	28.2
2	OFF	ON	OFF	5310	35.4
1	ON	OFF	OFF	6290	42.2
0	OFF	OFF	OFF	7150	48.5