

Photometric test report

Family
Silhouette® 21

Order number: 51LN12MDM20A
EAN: 4058352011508

LP number
59582_6



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 = 2630 lm

Power consumption = 19.3 W

Luminous efficacy = 136.3 lm/W

serial
documentation
14.03.2024

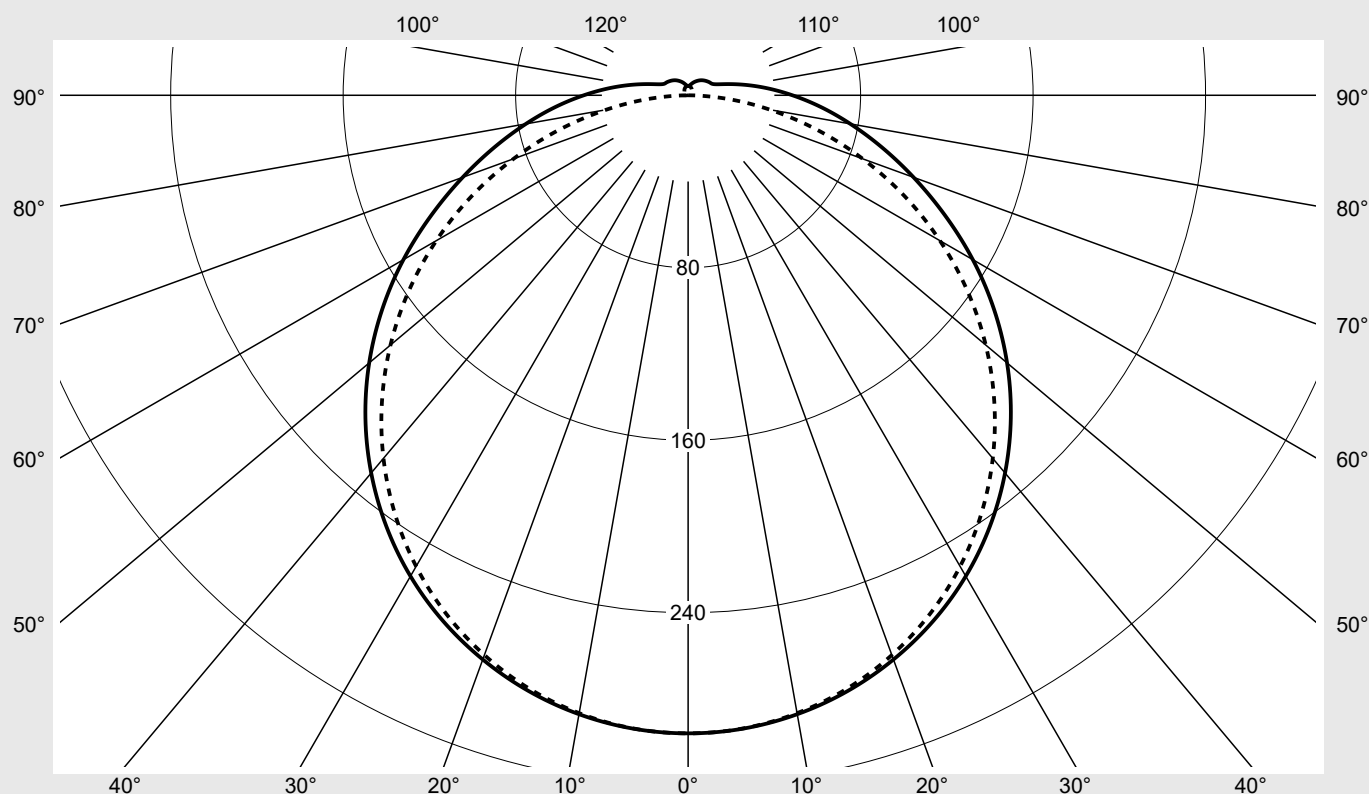
siteco

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
		siteco

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	20.9	19.5	21.2	21.5	19.2	20.9	19.5	21.2	21.6
	3H	21.0	22.6	21.4	22.9	23.3	20.9	22.5	21.2	22.8	23.1
	4H	21.9	23.4	22.3	23.7	24.1	21.6	23.1	22.0	23.4	23.8
	6H	22.7	24.1	23.1	24.5	24.9	22.1	23.5	22.5	23.9	24.3
	8H	23.1	24.4	23.6	24.8	25.2	22.3	23.7	22.8	24.0	24.4
	12H	23.5	24.8	24.0	25.2	25.6	22.5	23.7	22.9	24.1	24.5
4H	2H	19.9	21.4	20.3	21.8	22.1	20.0	21.5	20.3	21.8	22.2
	3H	22.0	23.2	22.4	23.6	24.0	21.8	23.1	22.2	23.5	23.9
	4H	23.0	24.2	23.4	24.6	25.0	22.6	23.8	23.1	24.2	24.7
	6H	24.0	25.0	24.4	25.5	25.9	23.3	24.4	23.8	24.8	25.2
	8H	24.5	25.4	24.9	25.9	26.3	23.6	24.5	24.0	25.0	25.4
	12H	25.0	25.8	25.5	26.3	26.8	23.8	24.6	24.2	25.1	25.6
8H	4H	23.4	24.3	23.8	24.8	25.2	23.1	24.0	23.5	24.5	24.9
	6H	24.6	25.4	25.1	25.8	26.3	23.9	24.7	24.4	25.2	25.7
	8H	25.2	25.9	25.7	26.4	26.9	24.2	25.0	24.7	25.4	26.0
	12H	25.9	26.5	26.4	27.0	27.5	24.5	25.1	25.0	25.6	26.2
12H	4H	23.4	24.3	23.9	24.8	25.2	23.2	24.0	23.7	24.5	25.0
	6H	24.7	25.4	25.2	25.9	26.4	24.1	24.8	24.6	25.3	25.8
	8H	25.4	26.0	25.9	26.5	27.0	24.5	25.1	25.0	25.6	26.1

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 593 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°		7458.7	7479.6	7541.7	7654.0	7837.9	8110.3	8510.4
50°		7251.0	7270.1	7332.2	7447.1	7640.1	7940.5	8400.8
55°		7019.1	7038.5	7097.8	7210.4	7411.1	7735.5	8261.6
60°		6763.7	6782.7	6832.9	6937.6	7135.9	7482.2	8082.6
65°		6489.6	6501.1	6536.1	6625.0	6813.2	7174.6	7859.4
70°		6263.0	6257.6	6232.2	6263.7	6414.8	6771.5	7551.3
75°		6125.4	6101.8	6016.1	5920.2	5940.8	6266.0	7176.9
80°		6133.7	6088.9	5940.8	5728.4	5492.2	5590.0	6665.1
85°		6392.2	6334.5	6141.7	5810.7	5323.6	4801.3	5947.9

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Luminance values in cd/m²

γ 65°

γ 70°

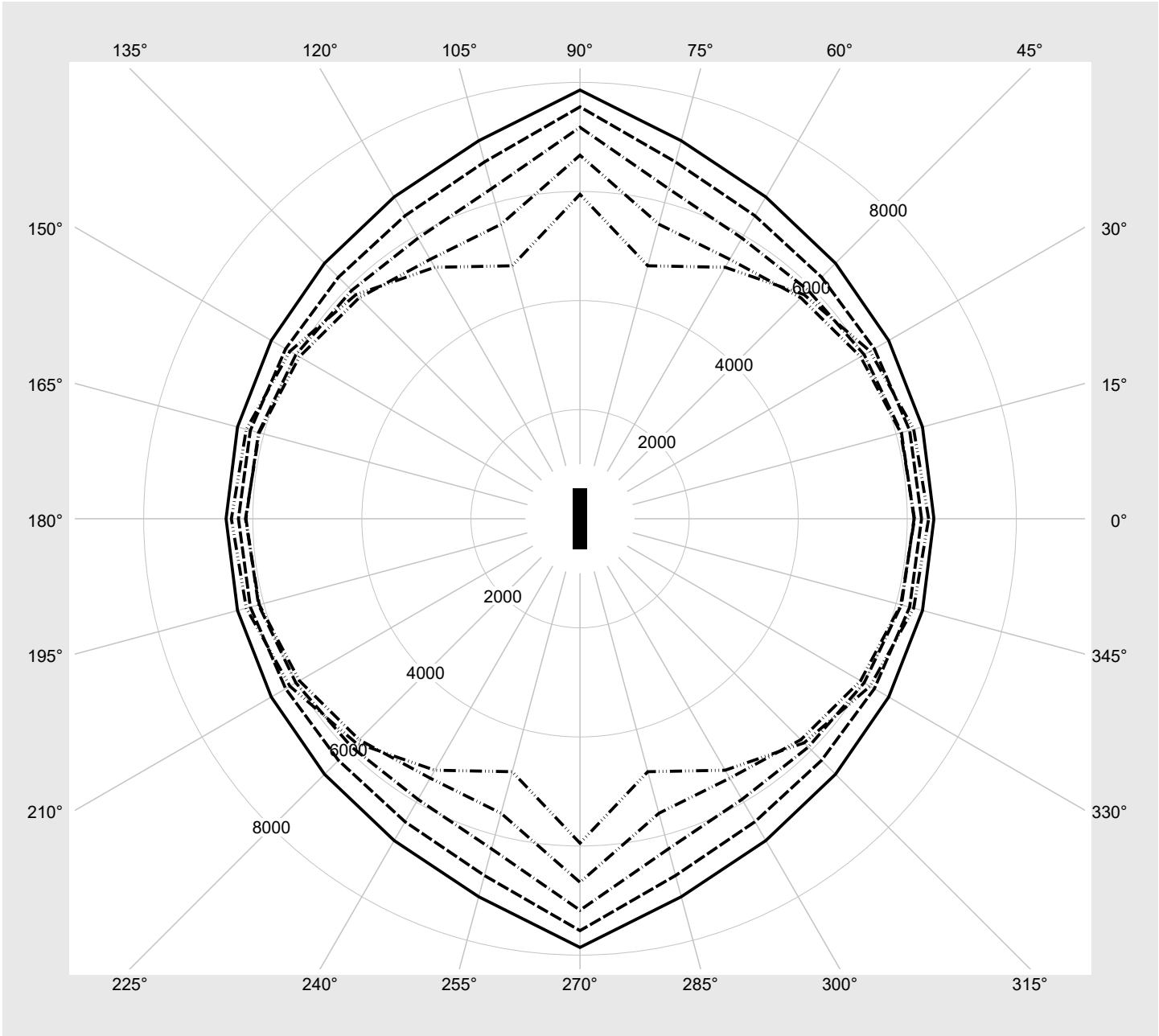
γ 75°

γ 80°

γ 85°

sit

eco



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Family Silhouette® 21	Order number: 51LN12MDM20A EAN: 4058352011508	LP number 59582_6
Multilumen Table	environmental temperature: 25°C	siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
4	OFF	OFF	ON	1600	11.9
2	OFF	ON	OFF	1950	14.3
1	ON	OFF	OFF	2350	17.1
0	OFF	OFF	OFF	2630	19.3