

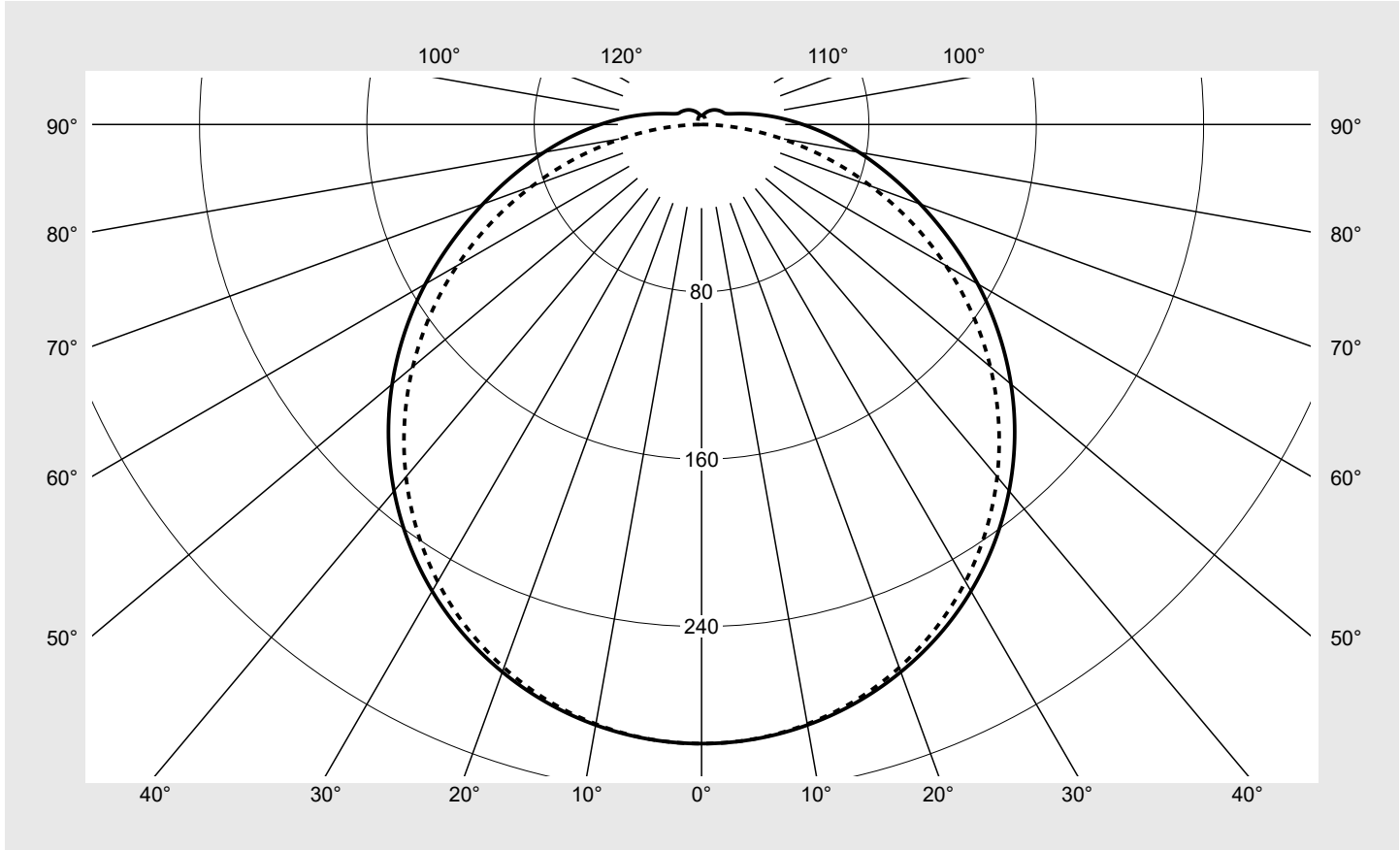


Photometric test report

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	serial documentation 14.03.2024
	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		

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 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	19.1	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	H(C0) = 30	H(C180) = 30
			B = 148	H(C90) = 0	H(C270) = 0

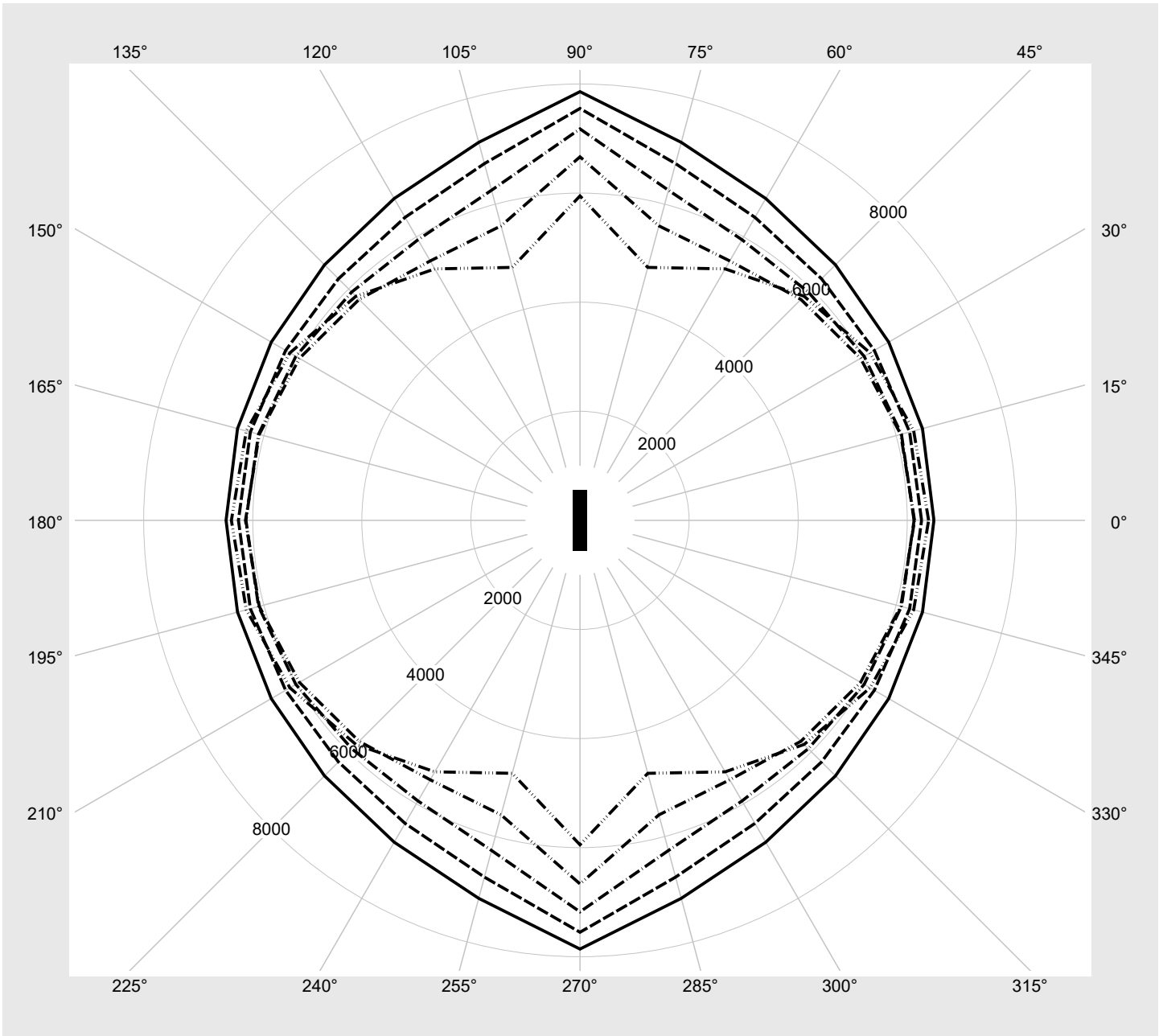
C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		7458.7	7479.6	7541.7	7654.0	7837.9	8110.3	8510.4	
50°		7251.0	7270.1	7332.2	7447.1	7640.1	7940.5	8400.8	
55°		7019.1	7038.5	7097.8	7210.4	7411.1	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°



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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	1600	11.9
2	OFF	ON	OFF	1950	14.3
1	ON	OFF	OFF	2350	17.1
0	OFF	OFF	OFF	2630	19.3