

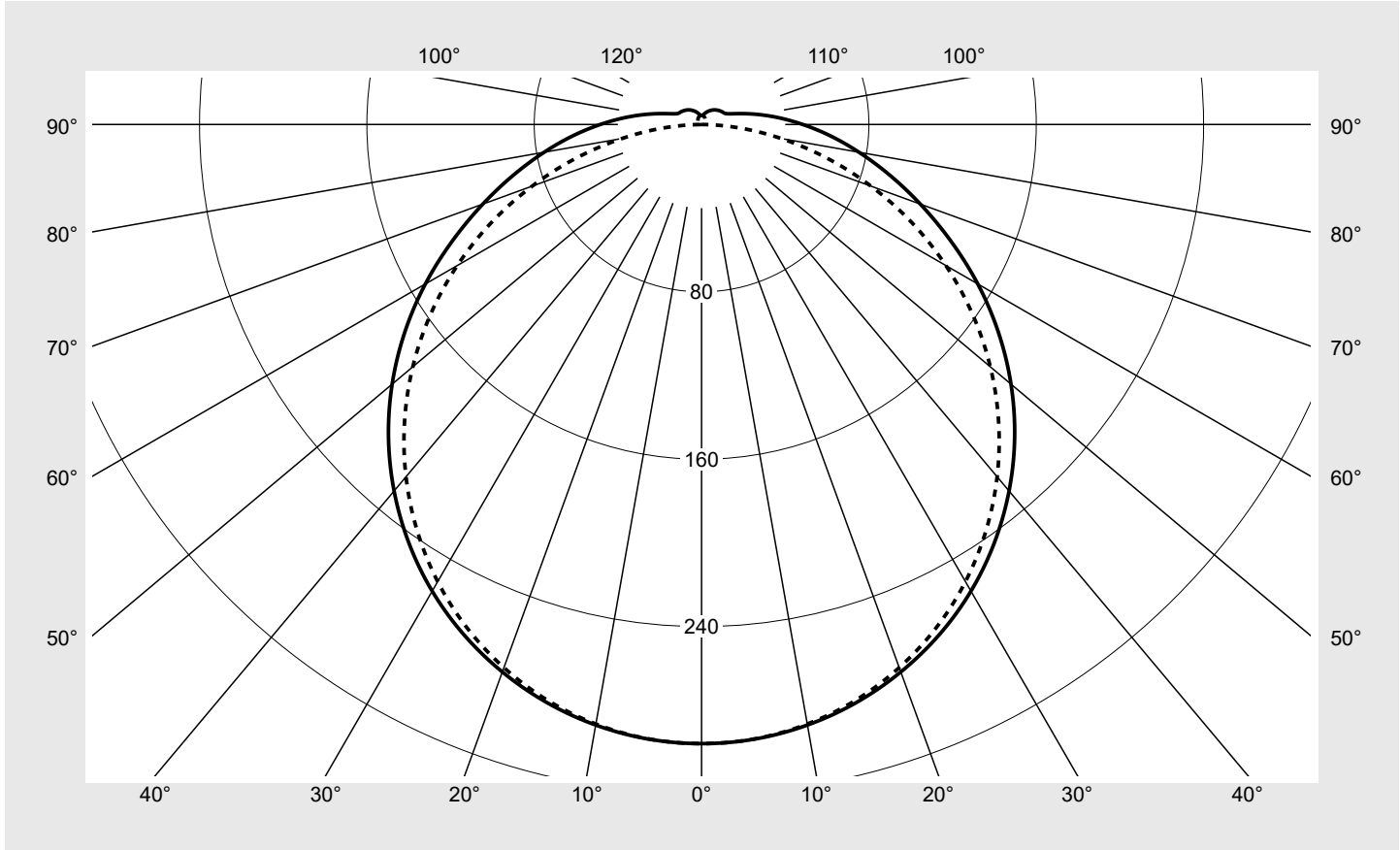


Photometric test report

Family Silhouette® 21	Order number: 51LN12MDM20A EAN: 4058352011508	LP number 59582_5
	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 Multilumen
	Setting	individual position: colour temperature 3000K
Rated values	Net luminous flux = 2420 lm Power consumption = 19.8 W Luminous efficacy = 122.2 lm/W	serial documentation 14.03.2024
		

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	18.9	20.6	19.2	20.9	21.2	18.9	20.6	19.2	20.9	21.3
	3H	20.7	22.3	21.1	22.6	23.0	20.6	22.2	21.0	22.5	22.9
	4H	21.6	23.1	22.0	23.4	23.8	21.3	22.8	21.7	23.1	23.5
	6H	22.4	23.8	22.8	24.2	24.6	21.8	23.2	22.2	23.6	24.0
	8H	22.9	24.2	23.3	24.5	24.9	22.0	23.4	22.5	23.7	24.1
	12H	23.2	24.5	23.7	24.9	25.3	22.2	23.4	22.6	23.8	24.2
4H	2H	19.6	21.1	20.0	21.5	21.9	19.7	21.2	20.1	21.5	21.9
	3H	21.7	23.0	22.1	23.3	23.7	21.5	22.8	21.9	23.2	23.6
	4H	22.7	23.9	23.1	24.3	24.7	22.4	23.5	22.8	23.9	24.4
	6H	23.7	24.7	24.2	25.2	25.6	23.0	24.1	23.5	24.5	24.9
	8H	24.2	25.2	24.7	25.6	26.1	23.3	24.2	23.7	24.7	25.1
	12H	24.7	25.6	25.2	26.0	26.5	23.5	24.3	23.9	24.8	25.3
8H	4H	23.1	24.0	23.5	24.5	24.9	22.8	23.7	23.3	24.2	24.7
	6H	24.3	25.1	24.8	25.6	26.1	23.6	24.4	24.1	24.9	25.4
	8H	24.9	25.6	25.4	26.1	26.6	24.0	24.7	24.4	25.2	25.7
	12H	25.6	26.2	26.1	26.7	27.2	24.2	24.9	24.7	25.3	25.9
12H	4H	23.1	24.0	23.6	24.5	25.0	22.9	23.7	23.4	24.2	24.7
	6H	24.4	25.1	24.9	25.6	26.1	23.8	24.5	24.3	25.0	25.5
	8H	25.1	25.7	25.6	26.2	26.7	24.2	24.8	24.7	25.3	25.8

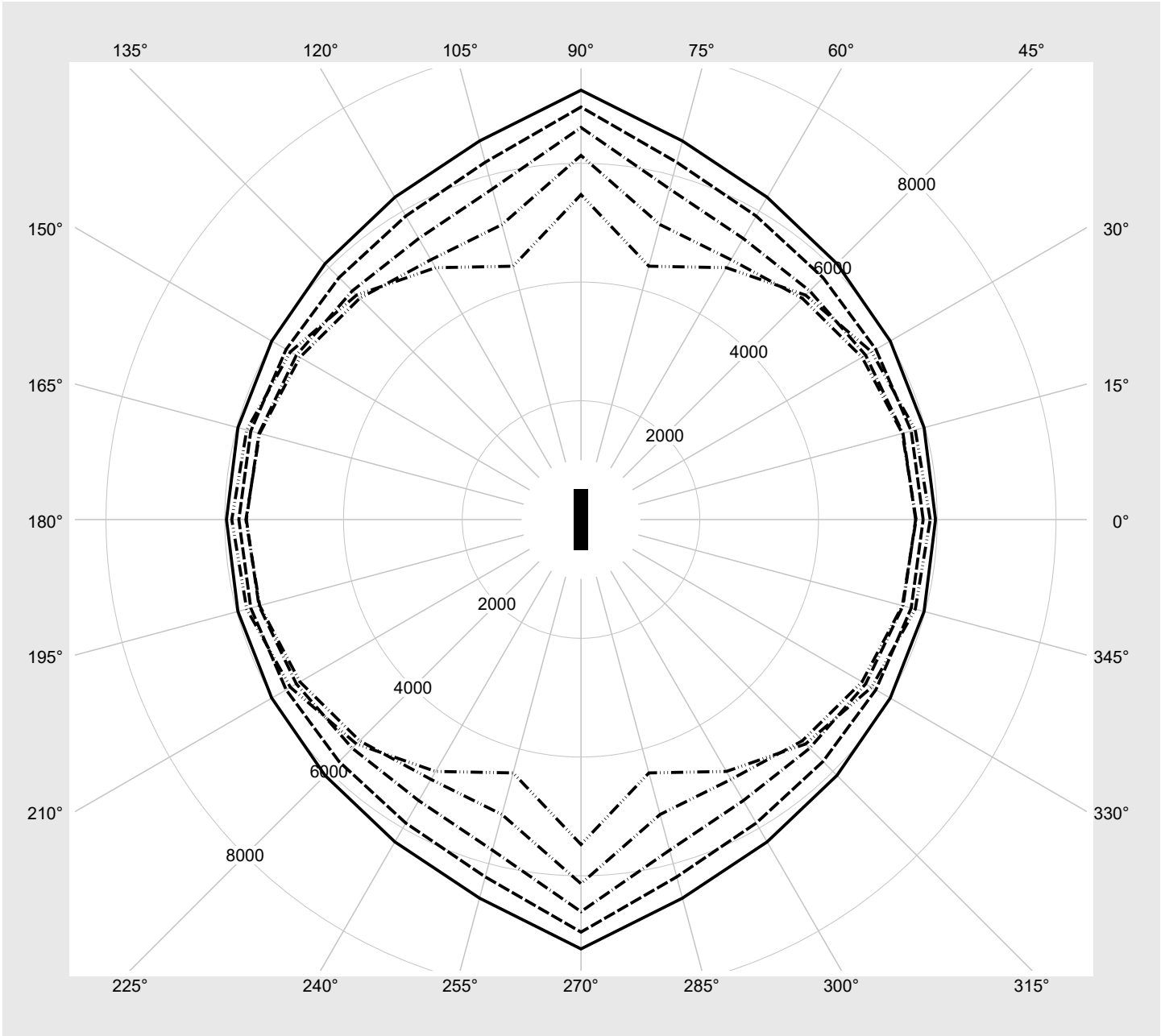
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 593	H(C0) = 30	H(C180) = 30
			B = 148	H(C90) = 0	H(C270) = 0

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°		6863.1	6882.4	6939.5	7042.9	7212.1	7462.7	7830.8	
50°		6672.0	6689.6	6746.8	6852.5	7030.1	7306.5	7730.0	
55°		6458.7	6476.5	6531.0	6634.7	6819.3	7117.9	7601.9	
60°		6223.6	6241.1	6287.3	6383.7	6566.1	6884.8	7437.2	
65°		5971.4	5982.0	6014.2	6096.0	6269.2	6601.7	7231.9	
70°		5762.9	5757.9	5734.5	5763.5	5902.6	6230.8	6948.3	
75°		5636.3	5614.6	5535.7	5447.5	5466.4	5765.7	6603.8	
80°		5643.9	5602.8	5466.5	5271.0	5053.7	5143.6	6132.9	
85°		5881.8	5828.7	5651.3	5346.7	4898.5	4417.9	5473.0	

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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	
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
4	OFF	OFF	ON	1510	12.1
2	OFF	ON	OFF	1820	14.6
1	ON	OFF	OFF	2180	17.5
0	OFF	OFF	OFF	2420	19.8