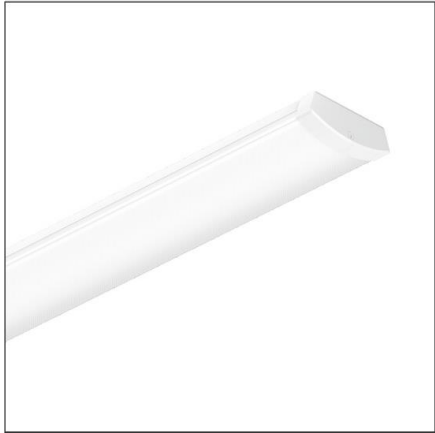
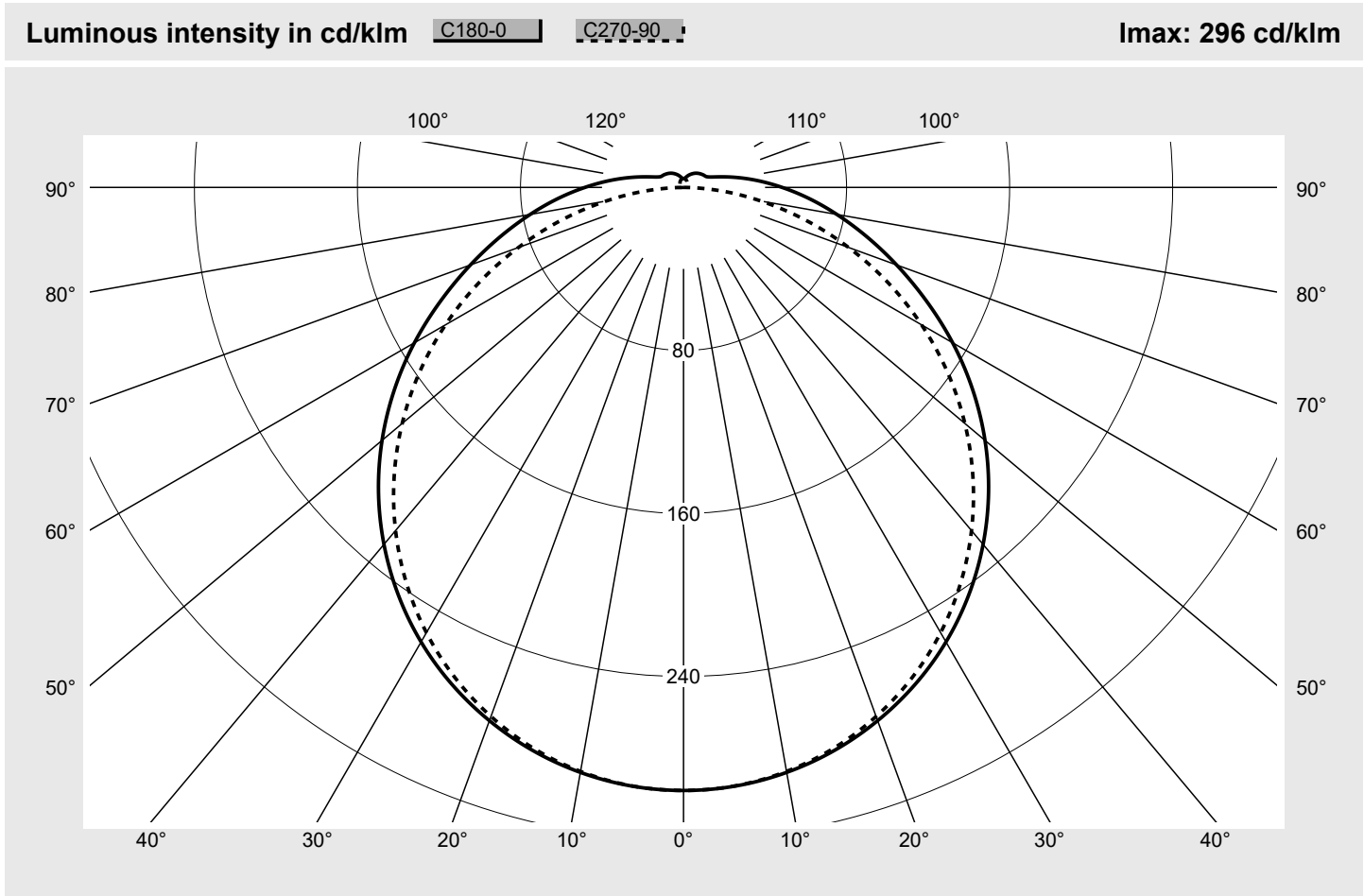


Photometric test report

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
		siteco



Classifications		Luminaire light output ratios	
DIN 5040	A 3 1	η_{LB}	100.0%
CIE	N1=43 N2=73 N3=92	ϕ_u	93.9%
	N4=94 N5=100	ϕ_o	6.1%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Silhouette® 21	Order number: 51LN12MDM20A EAN: 4058352011508	LP number 59582_5
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

Photometric test report

Family Silhouette® 21			Order number: 51LN12MDM20A EAN: 4058352011508							LP number 59582_5	
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	18.9	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 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°		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

Photometric test report

Family
Silhouette® 21

Order number: 51LN12MDM20A
EAN: 4058352011508

LP number
59582_5

Luminance values in cd/m²

γ 65°

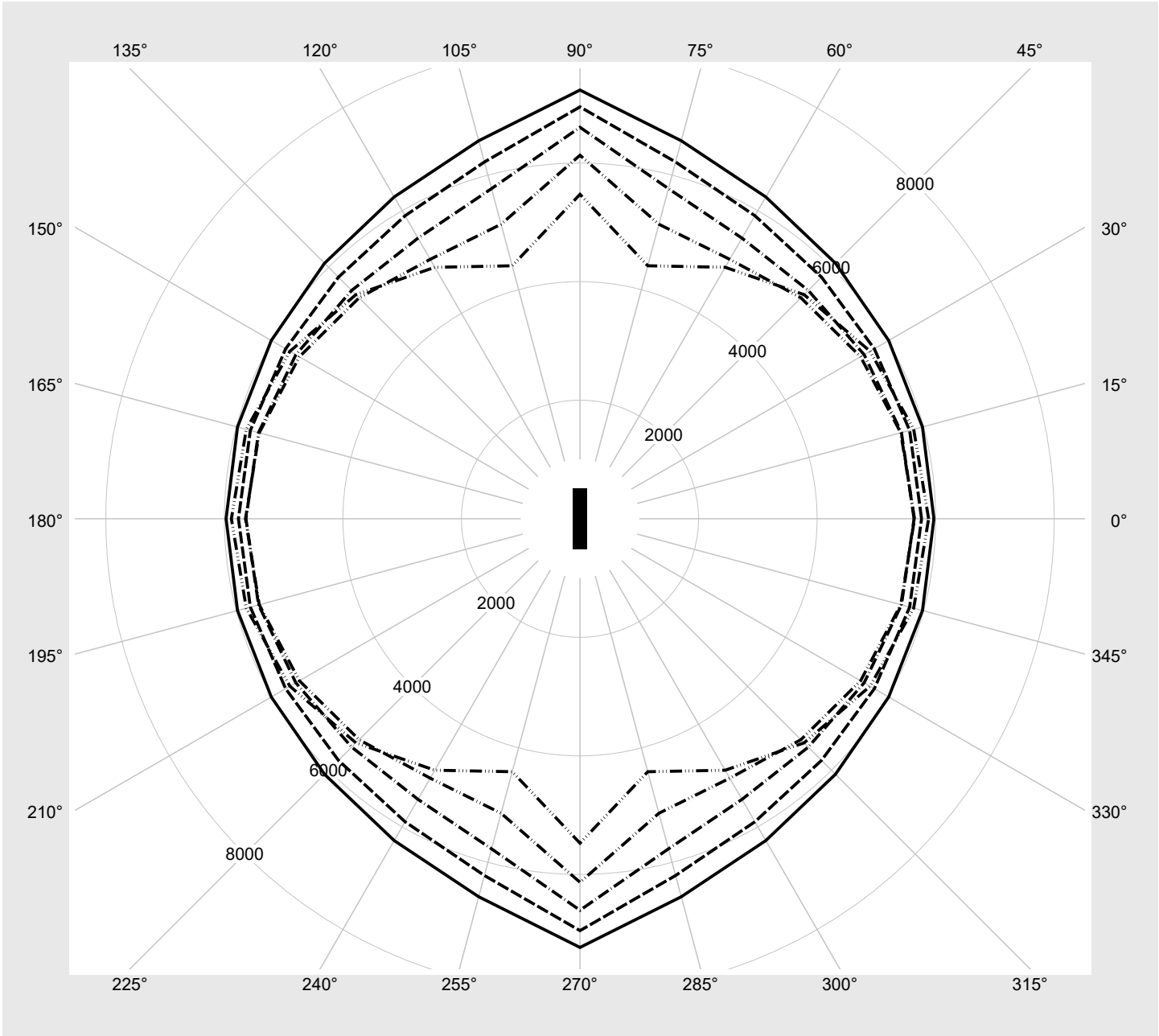
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

Family Silhouette® 21	Order number: 51LN12MDM20A EAN: 4058352011508	LP number 59582_5
Multilumen Table	environmental temperature: 25°C	siteco

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