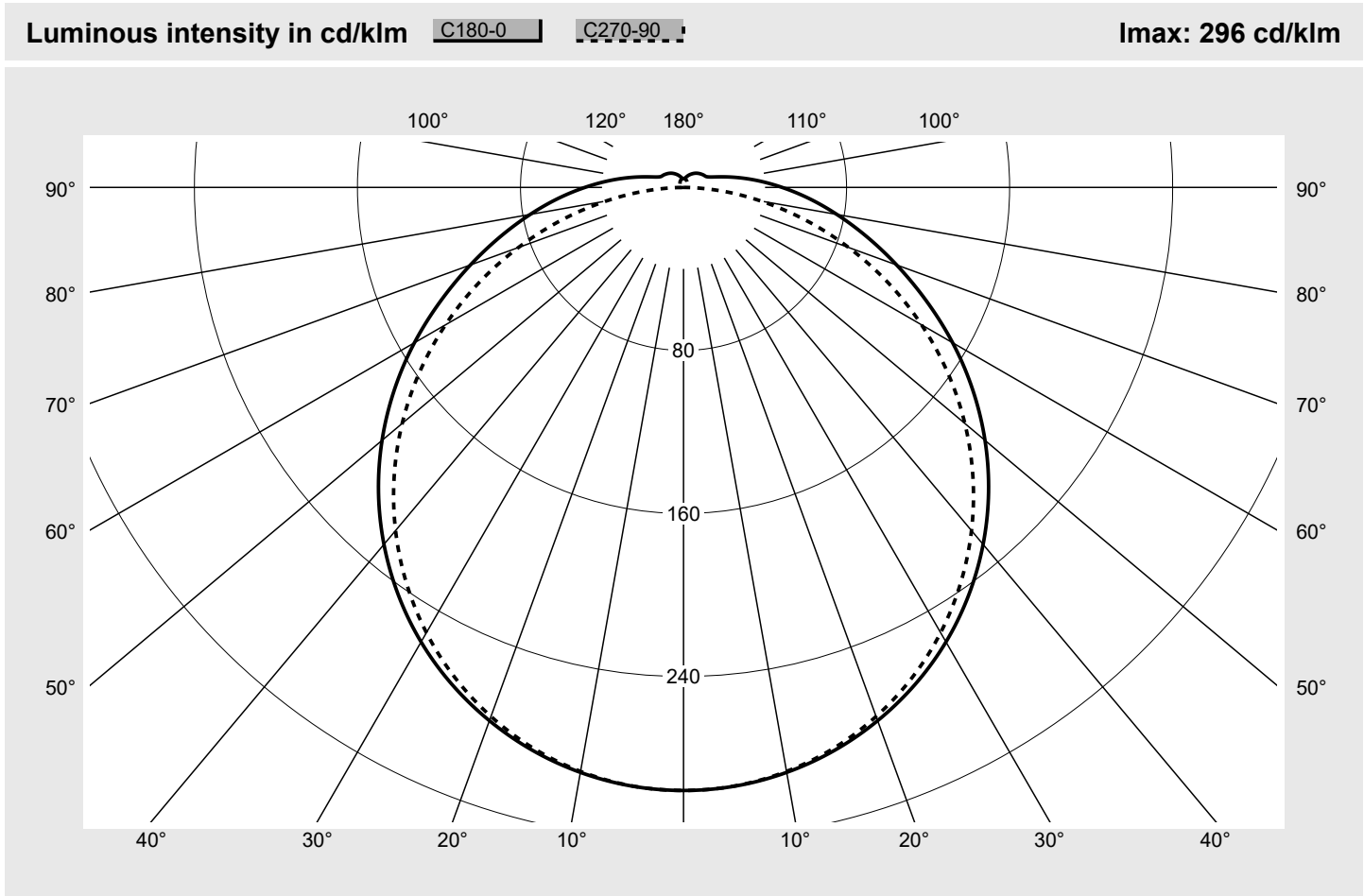


Photometric test report

Family Silhouette® 21	Order number: 51LN12NNM70A EAN: 4069025398246	LP number 59582_31
	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-DALI-Multilumen
	Setting	factory setting: DIP-Step=8, colour temperature 4000K
	Rated values	Net luminous flux = 7420 lm Power consumption = 51.1 W Luminous efficacy = 145.2 lm/W
		serial documentation 17.06.2026
		



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: 51LN12NNM70A EAN: 4069025398246	LP number 59582_31
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

Photometric test report

Family Silhouette® 21	Order number: 51LN12NNM70A EAN: 4069025398246	LP number 59582_31
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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	19.7	21.4	20.0	21.7	22.1	19.7	21.5	20.1	21.8	22.1
	3H	21.5	23.1	21.9	23.4	23.8	21.4	23.0	21.8	23.3	23.7
	4H	22.4	23.9	22.8	24.2	24.6	22.1	23.6	22.5	24.0	24.3
	6H	23.2	24.6	23.7	25.0	25.4	22.7	24.1	23.1	24.4	24.8
	8H	23.7	25.0	24.1	25.4	25.8	22.9	24.2	23.3	24.6	25.0
	12H	24.1	25.3	24.5	25.7	26.1	23.0	24.3	23.4	24.7	25.1
4H	2H	20.5	22.0	20.9	22.3	22.7	20.5	22.0	20.9	22.3	22.7
	3H	22.5	23.8	22.9	24.2	24.6	22.4	23.7	22.8	24.0	24.4
	4H	23.5	24.7	23.9	25.1	25.5	23.2	24.4	23.6	24.8	25.2
	6H	24.5	25.6	25.0	26.0	26.4	23.8	24.9	24.3	25.3	25.8
	8H	25.0	26.0	25.5	26.4	26.9	24.1	25.1	24.6	25.5	26.0
	12H	25.5	26.4	26.0	26.8	27.3	24.3	25.2	24.8	25.6	26.1
8H	4H	23.9	24.9	24.4	25.3	25.8	23.6	24.6	24.1	25.0	25.5
	6H	25.1	25.9	25.6	26.4	26.9	24.4	25.3	24.9	25.7	26.2
	8H	25.7	26.5	26.2	26.9	27.5	24.8	25.5	25.3	26.0	26.5
	12H	26.4	27.0	26.9	27.5	28.0	25.1	25.7	25.6	26.2	26.7
12H	4H	24.0	24.8	24.4	25.3	25.8	23.7	24.6	24.2	25.0	25.5
	6H	25.2	25.9	25.7	26.4	26.9	24.6	25.3	25.1	25.8	26.3
	8H	25.9	26.6	26.4	27.0	27.6	25.0	25.6	25.5	26.1	26.7

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1433 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°		8708.0	8732.4	8804.9	8936.1	9150.8	9468.8	9935.8
50°		8465.5	8487.8	8560.4	8694.5	8919.8	9270.5	9807.9
55°		8194.8	8217.4	8286.6	8418.1	8652.4	9031.2	9645.4
60°		7896.6	7918.8	7977.4	8099.7	8331.1	8735.5	9436.5
65°		7576.6	7590.0	7630.9	7734.6	7954.5	8376.4	9175.9
70°		7312.0	7305.7	7276.0	7312.8	7489.3	7905.7	8816.1
75°		7151.4	7123.9	7023.8	6911.8	6935.9	7315.6	8379.0
80°		7161.0	7108.8	6935.9	6687.9	6412.2	6526.3	7781.4
85°		7462.9	7395.5	7170.4	6784.0	6215.3	5605.5	6944.2

Photometric test report

Family
Silhouette® 21

Order number: 51LN12NNM70A
EAN: 4069025398246

LP number
59582_31

Luminance values in cd/m²

γ 65°

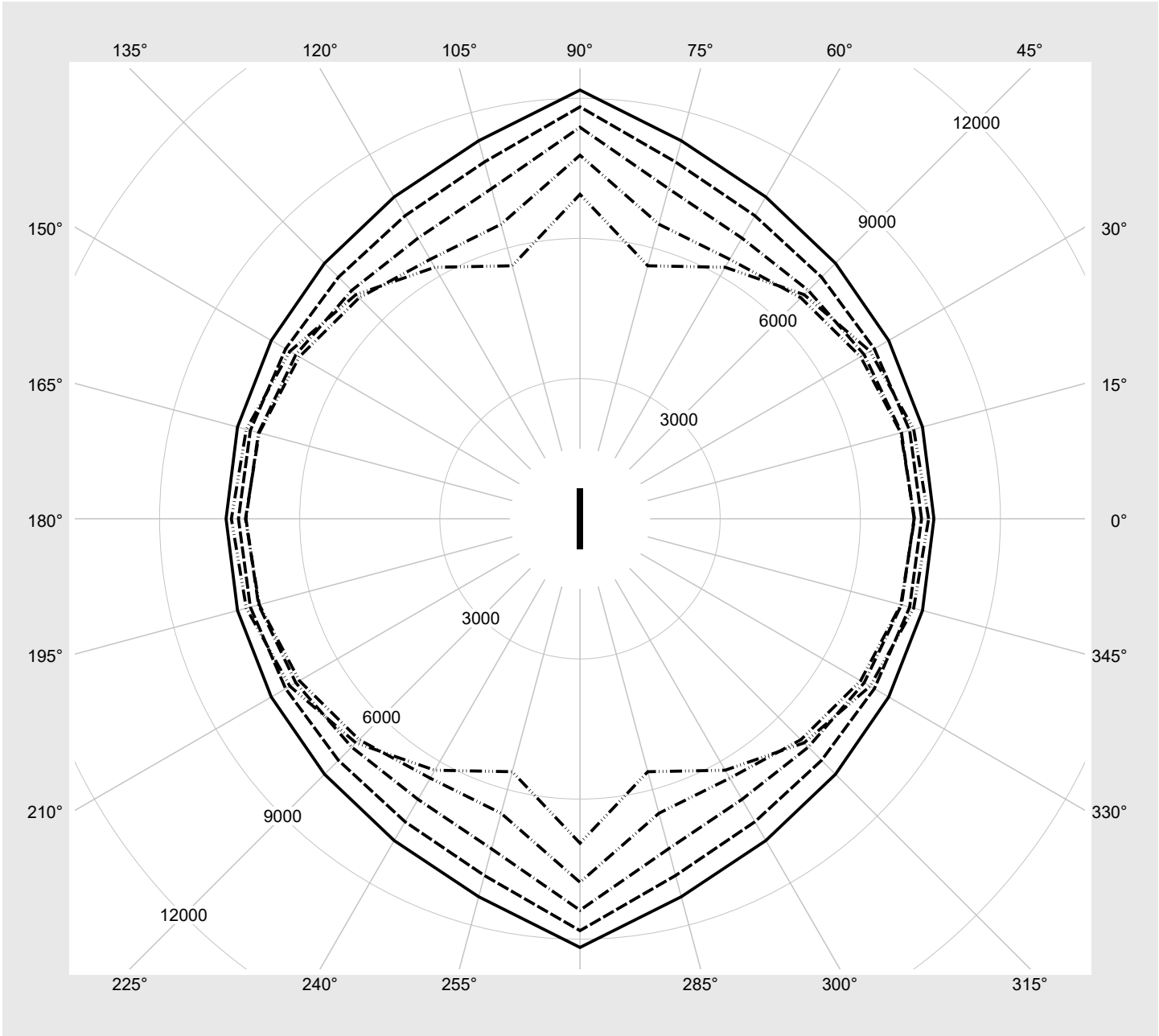
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

Family Silhouette® 21	Order number: 51LN12NNM70A EAN: 4069025398246	LP number 59582_31
Multilumen Table	environmental temperature: 25°C	siteco

DIP-Step	Switch Setting				Luminous flux [lm]	Power consumption [W]
	1	2	3	4		
13	ON	OFF	ON	ON	4380	29.7
12	OFF	OFF	ON	ON	5440	37.0
10	OFF	ON	OFF	ON	6370	43.5
8	OFF	OFF	OFF	ON	7420	51.1
6	OFF	ON	ON	OFF	8330	57.8