

Photometric test report

Family
Silhouette® 21

Order number: **51LN12MKM40A3G**
EAN: **4058352011584**

LP number
59582_16

serial
documentation
14.03.2024

siteco



Version

surface-mounted luminaire, white, diffuser,
PMMA, opal, with homogeneous illumination,
extremely wide distribution, adjustable color
temperature: 3000K | 4000K | 5000K,
emergency light element 3h operating duration

Lamps

LED 5000 K | CRI ≥ 80

Controlgear

ECG Multilumen

Setting

individual position: colour temperature 5000K

Rated values

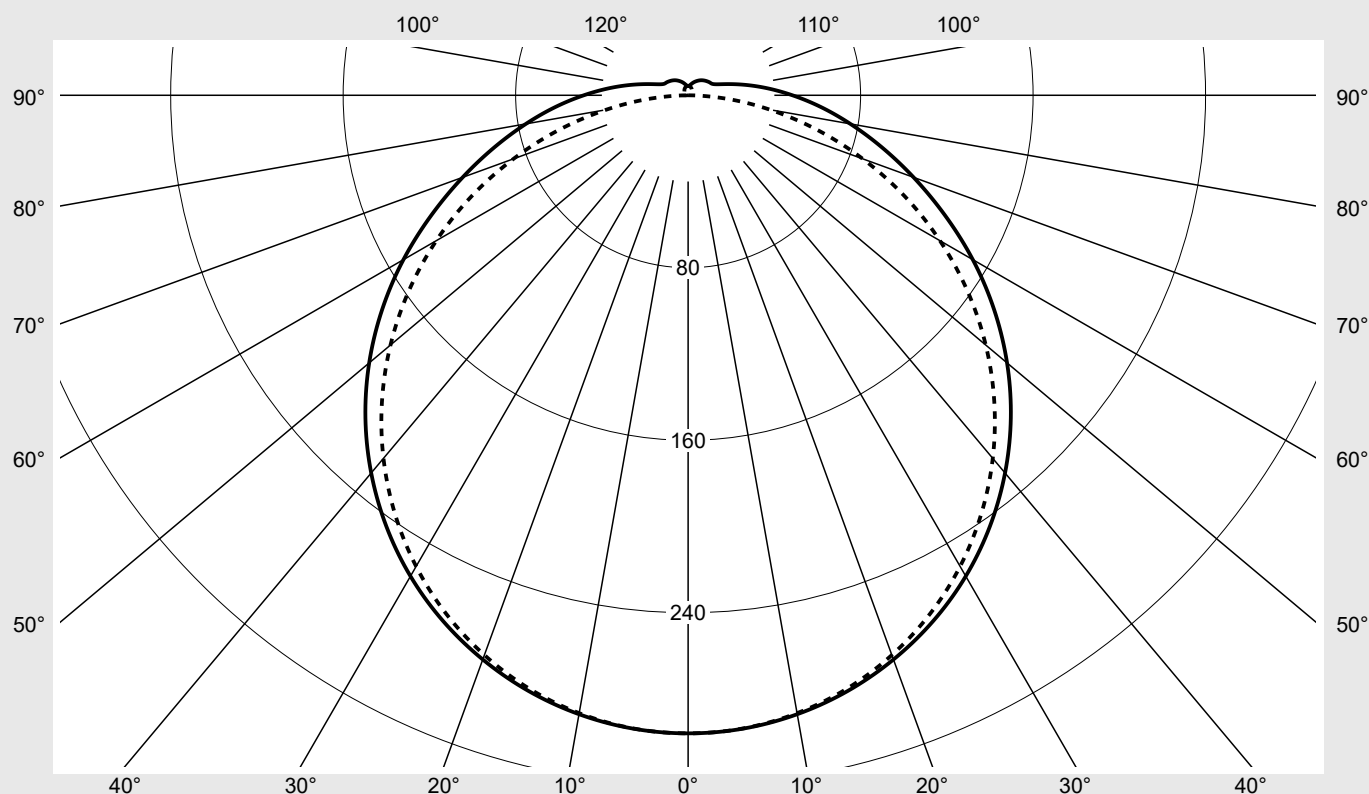
Net luminous flux = 4990 lm
Power consumption = 35.8 W
Luminous efficacy = 139.4 lm/W

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

Photometric test report

Family Silhouette® 21	Order number: 51LN12MKM40A3G EAN: 4058352011584	LP number 59582_16
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: 51LN12MKM40A3G EAN: 4058352011584							LP number 59582_16	
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	21.5
	3H	21.0	22.5	21.3	22.9	23.2	20.8	22.4	21.2	22.8	23.1
	4H	21.8	23.3	22.2	23.7	24.0	21.5	23.0	21.9	23.4	23.8
	6H	22.7	24.1	23.1	24.4	24.8	22.1	23.5	22.5	23.9	24.2
	8H	23.1	24.4	23.5	24.8	25.2	22.3	23.6	22.7	24.0	24.4
	12H	23.5	24.8	23.9	25.1	25.6	22.4	23.7	22.9	24.1	24.5
4H	2H	19.9	21.4	20.3	21.8	22.1	19.9	21.4	20.3	21.8	22.1
	3H	21.9	23.2	22.3	23.6	24.0	21.8	23.1	22.2	23.5	23.9
	4H	23.0	24.1	23.4	24.5	25.0	22.6	23.8	23.1	24.2	24.6
	6H	24.0	25.0	24.4	25.4	25.9	23.3	24.3	23.7	24.8	25.2
	8H	24.5	25.4	24.9	25.9	26.3	23.5	24.5	24.0	24.9	25.4
	12H	25.0	25.8	25.4	26.3	26.8	23.7	24.6	24.2	25.1	25.5
8H	4H	23.3	24.3	23.8	24.7	25.2	23.1	24.0	23.5	24.4	24.9
	6H	24.5	25.4	25.0	25.8	26.3	23.9	24.7	24.4	25.2	25.6
	8H	25.2	25.9	25.7	26.4	26.9	24.2	24.9	24.7	25.4	25.9
	12H	25.8	26.5	26.3	27.0	27.5	24.5	25.1	25.0	25.6	26.1
12H	4H	23.4	24.3	23.9	24.7	25.2	23.2	24.0	23.6	24.5	25.0
	6H	24.7	25.4	25.2	25.9	26.4	24.1	24.8	24.6	25.2	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 = 1133 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° 50° 55° 60°	γ	7406.8	7427.6	7489.2	7600.8	7783.4	8053.9	8451.2
		7200.6	7219.5	7281.2	7395.4	7587.0	7885.3	8342.4
		6970.3	6989.6	7048.4	7160.3	7359.5	7681.7	8204.1
		6716.7	6735.5	6785.4	6889.4	7086.2	7430.2	8026.4
65° 70° 75° 80° 85°	γ	6444.5	6455.9	6490.6	6578.9	6765.9	7124.7	7804.8
		6219.4	6214.1	6188.8	6220.1	6370.2	6724.4	7498.8
		6082.8	6059.4	5974.3	5879.0	5899.5	6222.4	7127.0
		6091.0	6046.6	5899.5	5688.5	5454.0	5551.1	6618.7
		6347.7	6290.4	6099.0	5770.3	5286.6	4767.9	5906.6

Photometric test report

Family
Silhouette® 21

Order number: 51LN12MKM40A3G
EAN: 4058352011584

LP number
59582_16

Luminance values in cd/m²

γ 65°

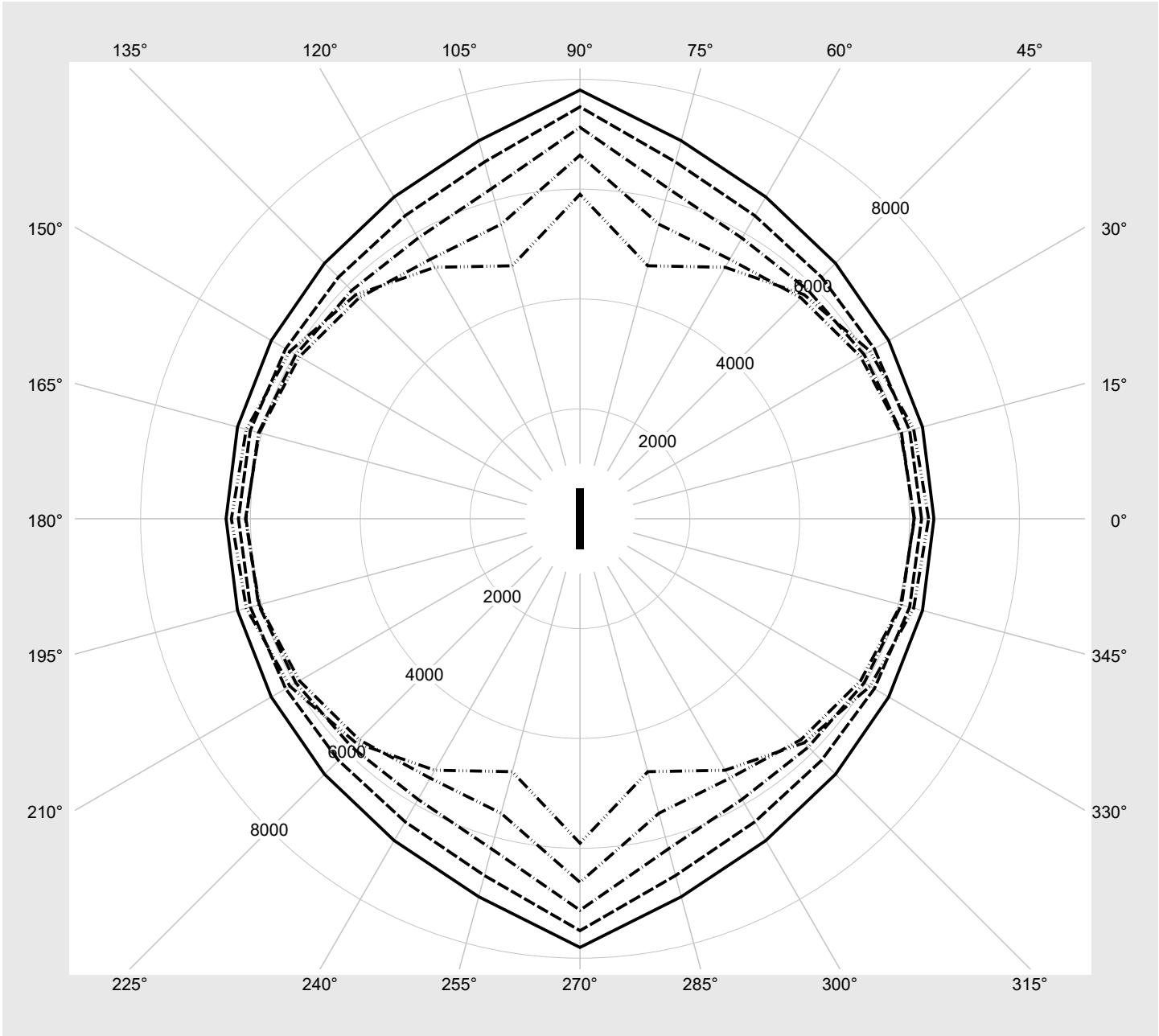
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

Family Silhouette® 21	Order number: 51LN12MKM40A3G EAN: 4058352011584	LP number 59582_16
Multilumen Table	environmental temperature: 25°C	siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
4	OFF	OFF	ON	2980	20.6
2	OFF	ON	OFF	3590	24.8
1	ON	OFF	OFF	4270	30.0
0	OFF	OFF	OFF	4990	35.8