

Photometric test report

Family
Silhouette® 21

Order number: 51LN12MKM40A
EAN: 4058352011546

LP number
59582_11



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 = 4640 lm
Power consumption = 35.7 W
Luminous efficacy = 130 lm/W

serial
documentation
14.03.2024

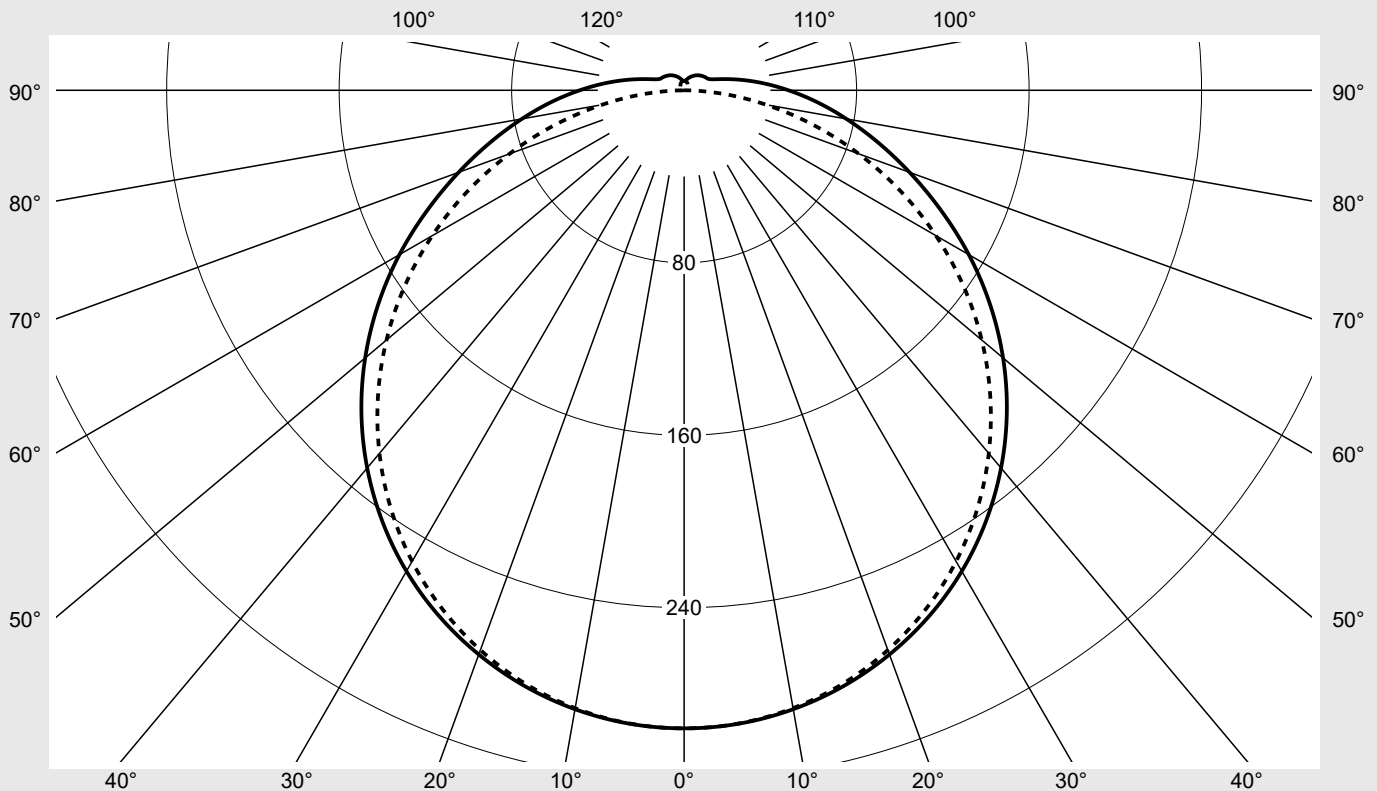
siteco

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: 51LN12MKM40A EAN: 4058352011546	LP number 59582_11
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

Photometric test report

Family Silhouette® 21	Order number: 51LN12MKM40A EAN: 4058352011546	LP number 59582_11
---------------------------------	--	------------------------------

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	19.3	21.0	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	22.1	23.4	22.5	23.8	24.2
	12H	23.3	24.5	23.7	24.9	25.3	22.2	23.5	22.6	23.8	24.3
4H	2H	19.6	21.2	20.0	21.5	21.9	19.7	21.2	20.1	21.5	21.9
	3H	21.7	23.0	22.1	23.4	23.8	21.5	22.8	22.0	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	25.0
	8H	24.2	25.2	24.7	25.6	26.1	23.3	24.2	23.7	24.7	25.2
	12H	24.7	25.6	25.2	26.0	26.5	23.5	24.3	24.0	24.8	25.3
8H	4H	23.1	24.1	23.5	24.5	25.0	22.8	23.8	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	24.5	25.2	25.7
	12H	25.6	26.2	26.1	26.7	27.2	24.2	24.9	24.7	25.4	25.9
12H	4H	23.2	24.0	23.6	24.5	25.0	22.9	23.8	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	26.8	24.2	24.8	24.7	25.3	25.8

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	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°		6887.3	6906.6	6963.9	7067.7	7237.5	7489.0	7858.4	
50°		6695.5	6713.2	6770.5	6876.6	7054.8	7332.2	7757.2	
55°		6481.4	6499.3	6554.0	6658.0	6843.3	7142.9	7628.7	
60°		6245.5	6263.1	6309.4	6406.2	6589.2	6909.0	7463.4	
65°		5992.5	6003.1	6035.4	6117.5	6291.3	6625.0	7257.4	
70°		5783.2	5778.2	5754.7	5783.8	5923.4	6252.7	6972.8	
75°		5656.1	5634.4	5555.2	5466.7	5485.7	5786.0	6627.1	
80°		5663.8	5622.5	5485.7	5289.5	5071.5	5161.7	6154.5	
85°		5902.5	5849.2	5671.2	5365.6	4915.8	4433.5	5492.3	

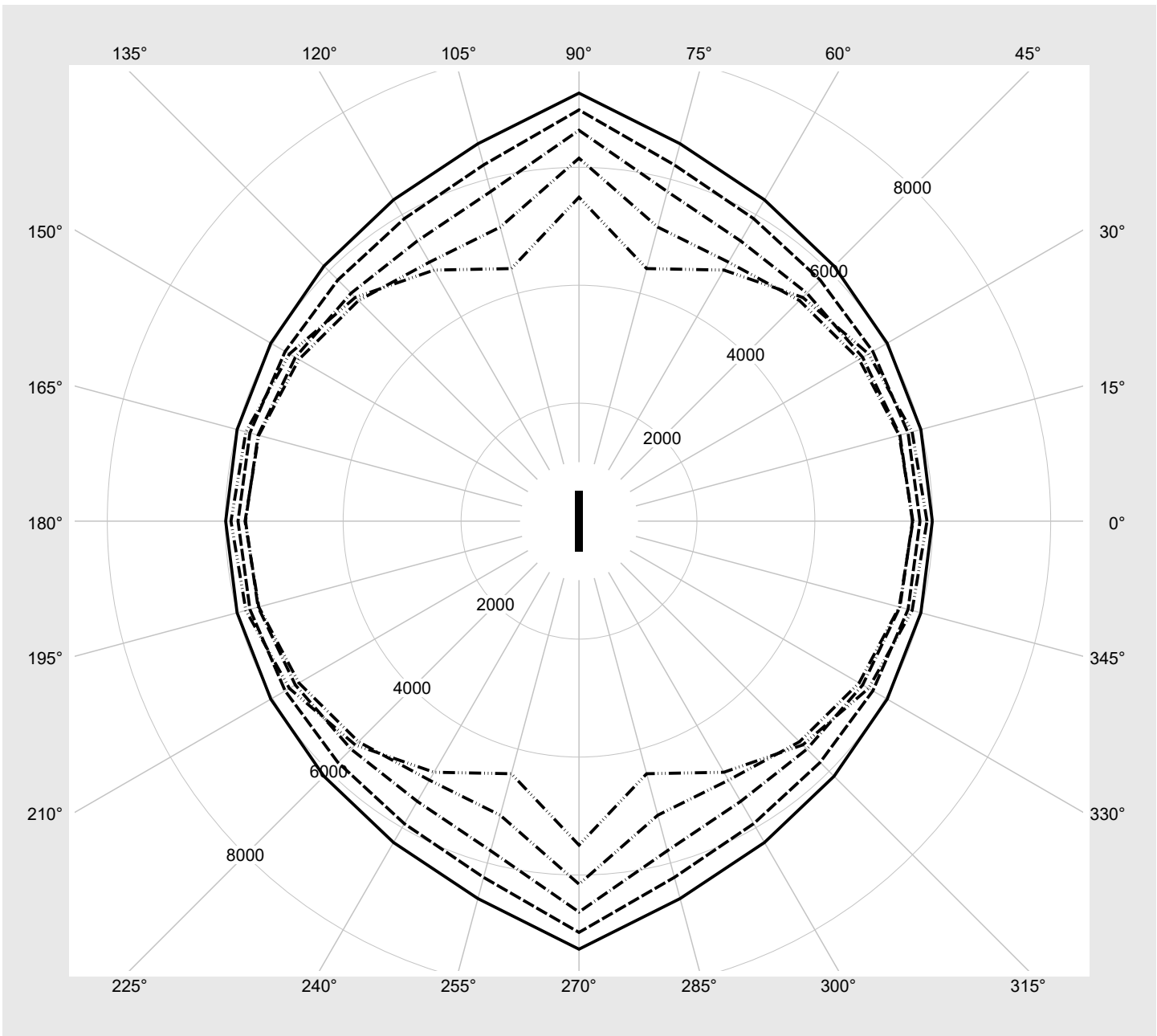
Photometric test report

Family
Silhouette® 21

Order number: 51LN12MKM40A
EAN: 4058352011546


LP number
59582_11

Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



Photometric test report

Family Silhouette® 21	Order number: 51LN12MKM40A EAN: 4058352011546	LP number 59582_11
--	--	-------------------------------------

Multilumen Table	environmental temperature: 25°C	
-------------------------	---------------------------------	---

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
4	OFF	OFF	ON	2770	20.5
2	OFF	ON	OFF	3320	24.7
1	ON	OFF	OFF	3960	29.9
0	OFF	OFF	OFF	4640	35.7