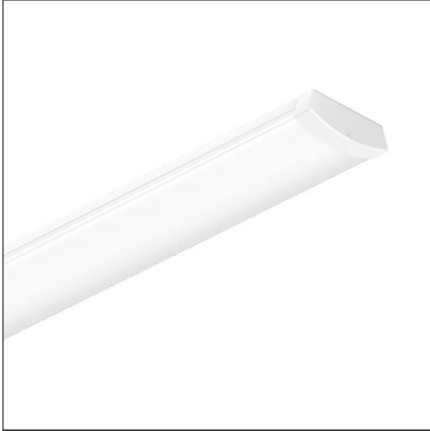


Photometric test report

Family
Silhouette® 21

Order number: **51LN12MNM70A3G**
EAN: **4058352011645**

LP number
59582_25



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 4000 K | CRI ≥ 80

Controlgear

ECG Multilumen

Setting

emergency light operation: 3 h

Rated values

Net luminous flux = 280 lm

Power consumption = 2.0 W

Luminous efficacy = 140 lm/W

serial
documentation
14.03.2024

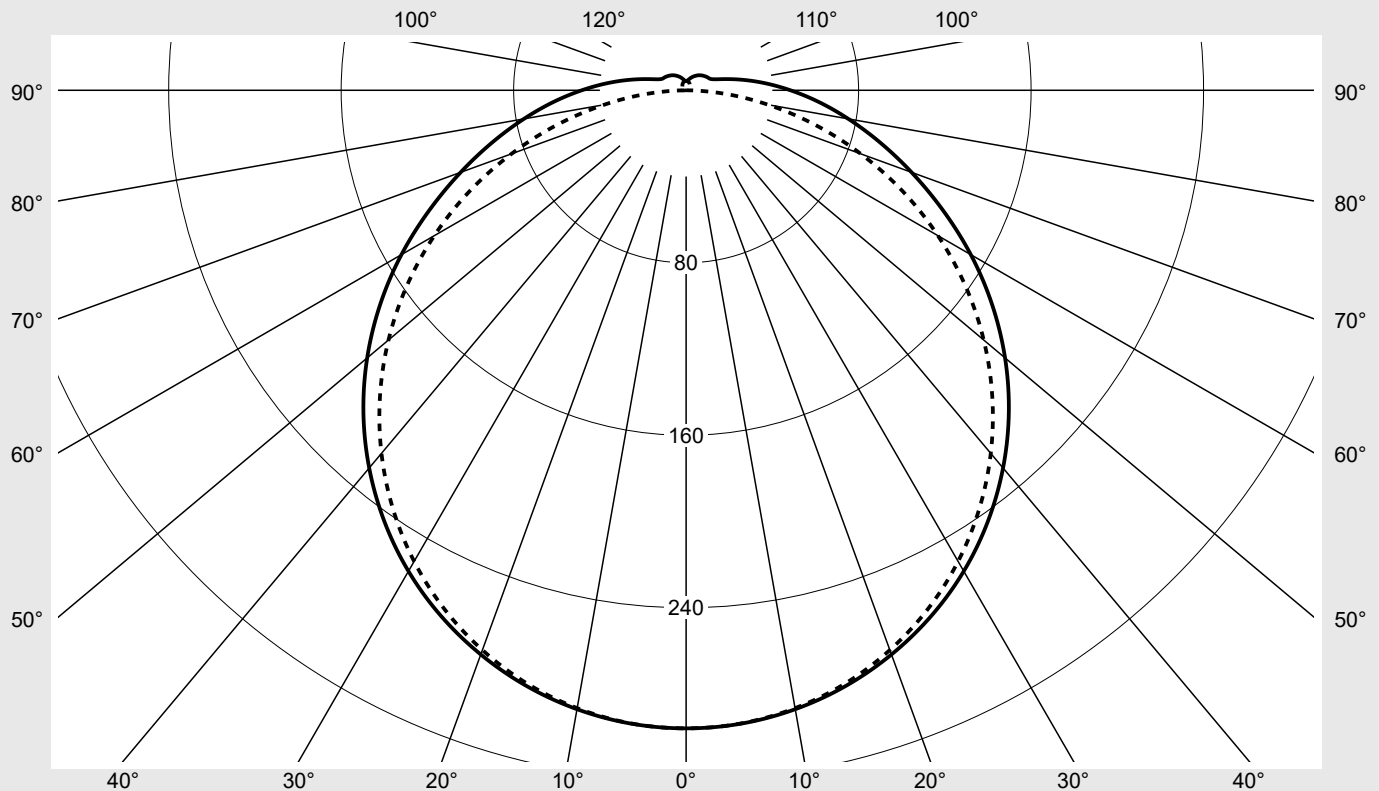
siteco

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: 51LN12MNM70A3G EAN: 4058352011645	LP number 59582_25
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: 51LN12MNM70A3G EAN: 4058352011645	LP number 59582_25
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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	8.3	10.0	8.7	10.4	10.7	8.3	10.1	8.7	10.4	10.7
	3H	10.1	11.7	10.5	12.1	12.4	10.0	11.6	10.4	11.9	12.3
	4H	11.0	12.5	11.4	12.9	13.2	10.7	12.2	11.1	12.6	12.9
	6H	11.9	13.2	12.3	13.6	14.0	11.3	12.7	11.7	13.0	13.4
	8H	12.3	13.6	12.7	14.0	14.4	11.5	12.8	11.9	13.2	13.6
	12H	12.7	13.9	13.1	14.3	14.7	11.6	12.9	12.1	13.3	13.7
4H	2H	9.1	10.6	9.5	10.9	11.3	9.1	10.6	9.5	11.0	11.3
	3H	11.1	12.4	11.5	12.8	13.2	11.0	12.3	11.4	12.6	13.1
	4H	12.1	13.3	12.6	13.7	14.1	11.8	13.0	12.2	13.4	13.8
	6H	13.1	14.2	13.6	14.6	15.1	12.5	13.5	12.9	13.9	14.4
	8H	13.6	14.6	14.1	15.0	15.5	12.7	13.7	13.2	14.1	14.6
	12H	14.1	15.0	14.6	15.5	15.9	12.9	13.8	13.4	14.2	14.7
8H	4H	12.5	13.5	13.0	13.9	14.4	12.2	13.2	12.7	13.6	14.1
	6H	13.7	14.5	14.2	15.0	15.5	13.1	13.9	13.5	14.3	14.8
	8H	14.3	15.1	14.8	15.6	16.1	13.4	14.1	13.9	14.6	15.1
	12H	15.0	15.6	15.5	16.1	16.7	13.7	14.3	14.2	14.8	15.3
12H	4H	12.6	13.5	13.1	13.9	14.4	12.3	13.2	12.8	13.6	14.1
	6H	13.8	14.6	14.3	15.0	15.6	13.2	13.9	13.7	14.4	14.9
	8H	14.5	15.2	15.0	15.7	16.2	13.6	14.3	14.1	14.7	15.3

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°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°				
		Luminance in cd/m²									
	45°	328.6	329.5	332.3	337.2	345.3	357.3	374.9			
	50°	319.5	320.3	323.0	328.1	336.6	349.8	370.1			
	55°	309.2	310.1	312.7	317.7	326.5	340.8	364.0			
	60°	298.0	298.8	301.0	305.6	314.4	329.6	356.1			
	65°	285.9	286.4	288.0	291.9	300.2	316.1	346.3			
	70°	275.9	275.7	274.6	276.0	282.6	298.3	332.7			
	75°	269.9	268.8	265.0	260.8	261.7	276.1	316.2			
	80°	270.2	268.3	261.7	252.4	242.0	246.3	293.6			
	85°	281.6	279.1	270.6	256.0	234.5	211.5	262.0			

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Family
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Order number: 51LN12MNM70A3G
EAN: 4058352011645

LP number
59582_25

Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

siteco

