

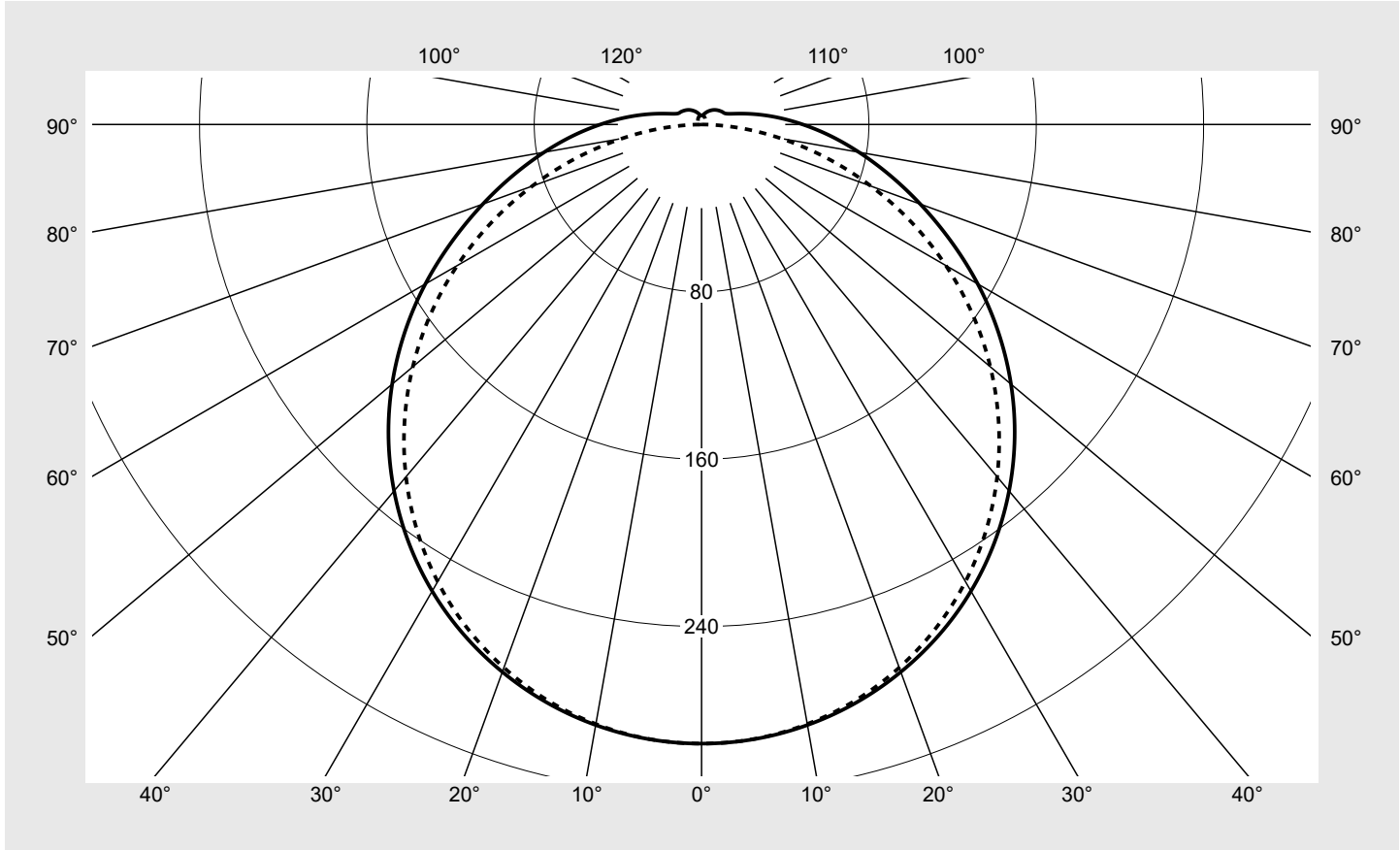


# Photometric test report

<b>Family</b> <b>Silhouette® 21</b>	<b>Order number: 51LN12MNM70A3G</b> <b>EAN: 4058352011645</b>	<b>LP number</b> <b>59582_25</b>
	<b>Version</b>	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
	<b>Lamps</b>	LED 4000 K   CRI ≥ 80
	<b>Controlgear</b>	ECG Multilumen
	<b>Setting</b>	emergency light operation: 3 h
<b>Rated values</b>	Net luminous flux = 280 lm Power consumption = 2.0 W Luminous efficacy = 140 lm/W	<b>serial documentation</b> 14.03.2024
		

**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	
$\eta_{LB}$	100.0%
$\phi_u$	93.9%
$\phi_o$	6.1%

**Measurement conditions**  
 DIN EN 13032 and DIN 5032

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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

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

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<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
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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

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1433</b>	<b>H(C0) = 30</b>	<b>H(C180) = 30</b>
			<b>B = 148</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		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°		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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**Luminance values in cd/m<sup>2</sup>**

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°

