

## Photometric test report

Family  
Silhouette® 21

Order number: 51LN12MKM40A  
EAN: 4058352011546

LP number  
59582\_12



**Version** surface-mounted luminaire, white, diffuser, PMMA, opal, with homogeneous illumination, extremely wide distribution, adjustable color temperature: 3000K | 4000K | 5000K

**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

serial  
documentation  
14.03.2024

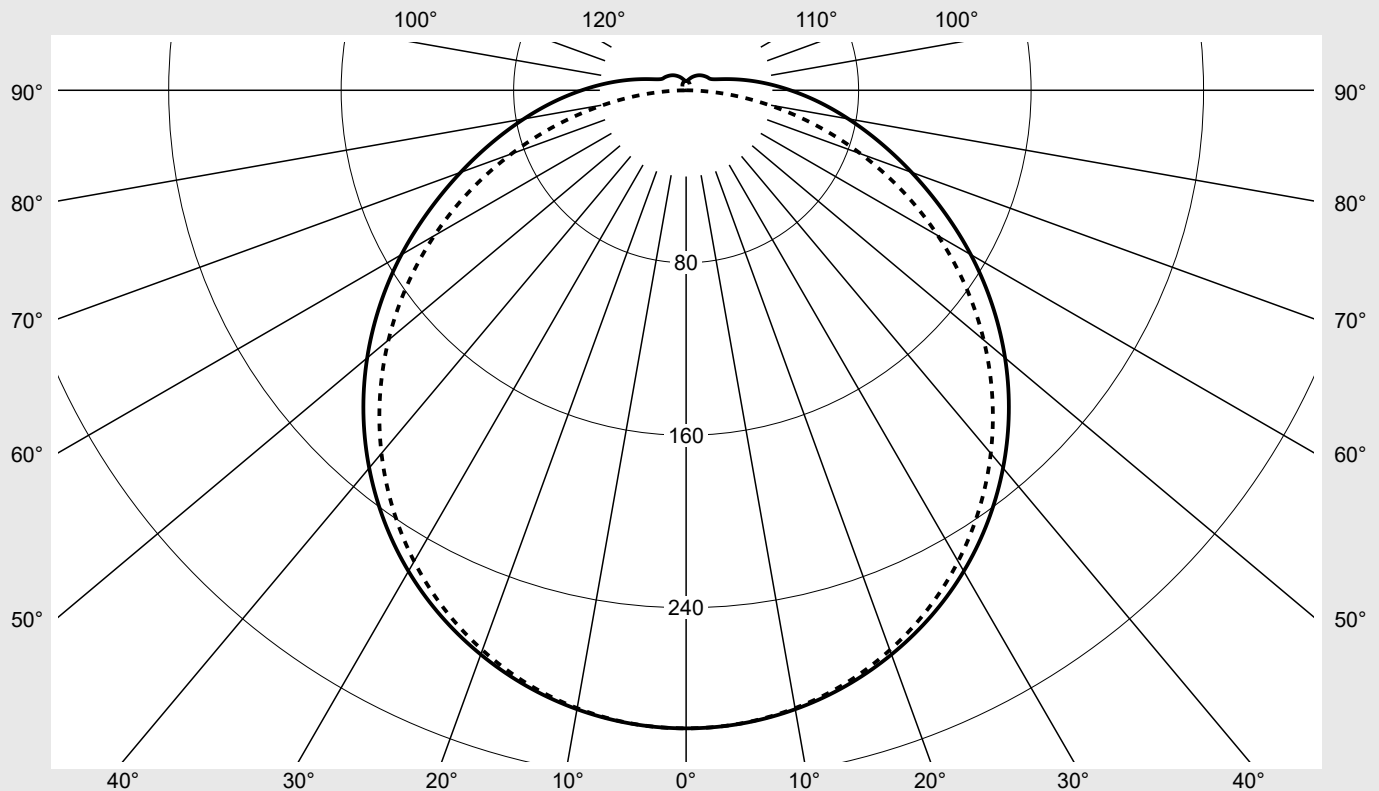
siteco

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

$\eta_{LB}$  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 $\gamma$	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	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

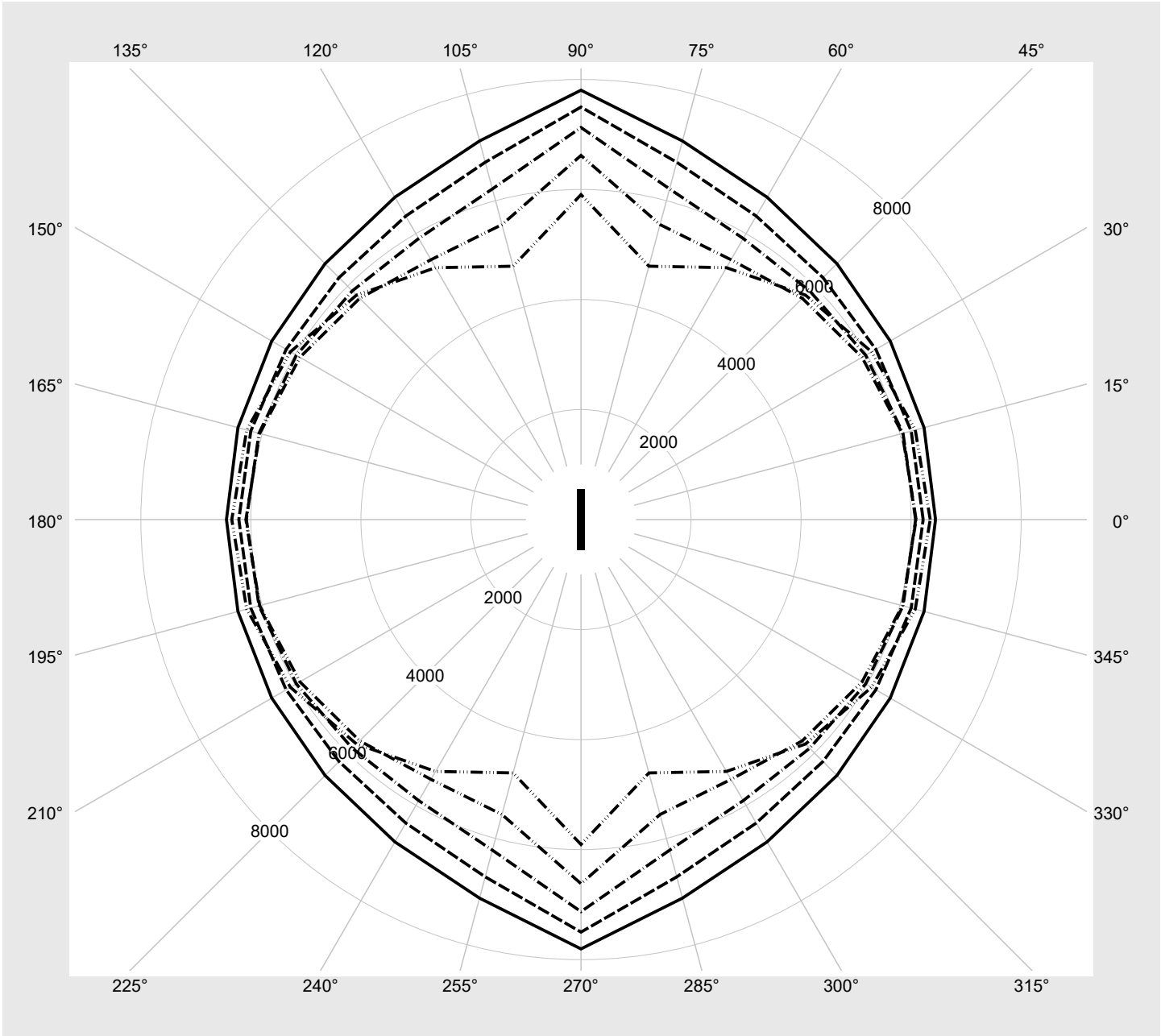
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1133</b>	<b>H(C0) = 30</b>	<b>H(C180) = 30</b>
			<b>B = 148</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		7406.8	7427.6	7489.2	7600.8	7783.4	8053.9	8451.2	
50°		7200.6	7219.5	7281.2	7395.4	7587.0	7885.3	8342.4	
55°		6970.3	6989.6	7048.4	7160.3	7359.5	7681.7	8204.1	
60°		6716.7	6735.5	6785.4	6889.4	7086.2	7430.2	8026.4	
65°		6444.5	6455.9	6490.6	6578.9	6765.9	7124.7	7804.8	
70°		6219.4	6214.1	6188.8	6220.1	6370.2	6724.4	7498.8	
75°		6082.8	6059.4	5974.3	5879.0	5899.5	6222.4	7127.0	
80°		6091.0	6046.6	5899.5	5688.5	5454.0	5551.1	6618.7	
85°		6347.7	6290.4	6099.0	5770.3	5286.6	4767.9	5906.6	

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**Luminance values in cd/m<sup>2</sup>**     γ 65°   γ 70°   γ 75°   γ 80°   γ 85°     **siteco**



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<b>Multilumen Table</b>	environmental temperature: 25°C	
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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