

## Lichttechnischer Prüfbefund

**Familie**  
**Lunis® micro square**

**Bestell-Nr.:** 51DE11B73FG22 + 59DL1L0000G0000D0 + 59DL10000200E00DB

**LP-Nummer**

**EAN:** 4058352107102 + 4058352030165 + 4058352127438

**57965\_11**

**Ausführung** Prismenscheibe, Darklightreflektor  
hochglänzend, medium strahlend,  
Abdeckscheibe, IP54, klar

**Bestückung** LED 4000K / CRI ≥ 80

**Betriebsgerät** EVG

**Bemessungswerte** Nettolichtstrom = 2800 lm  
Systemleistung = 27.8 W  
Lichtausbeute = 100.7 lm/W

**Seriendokumentation**  
15.02.2018

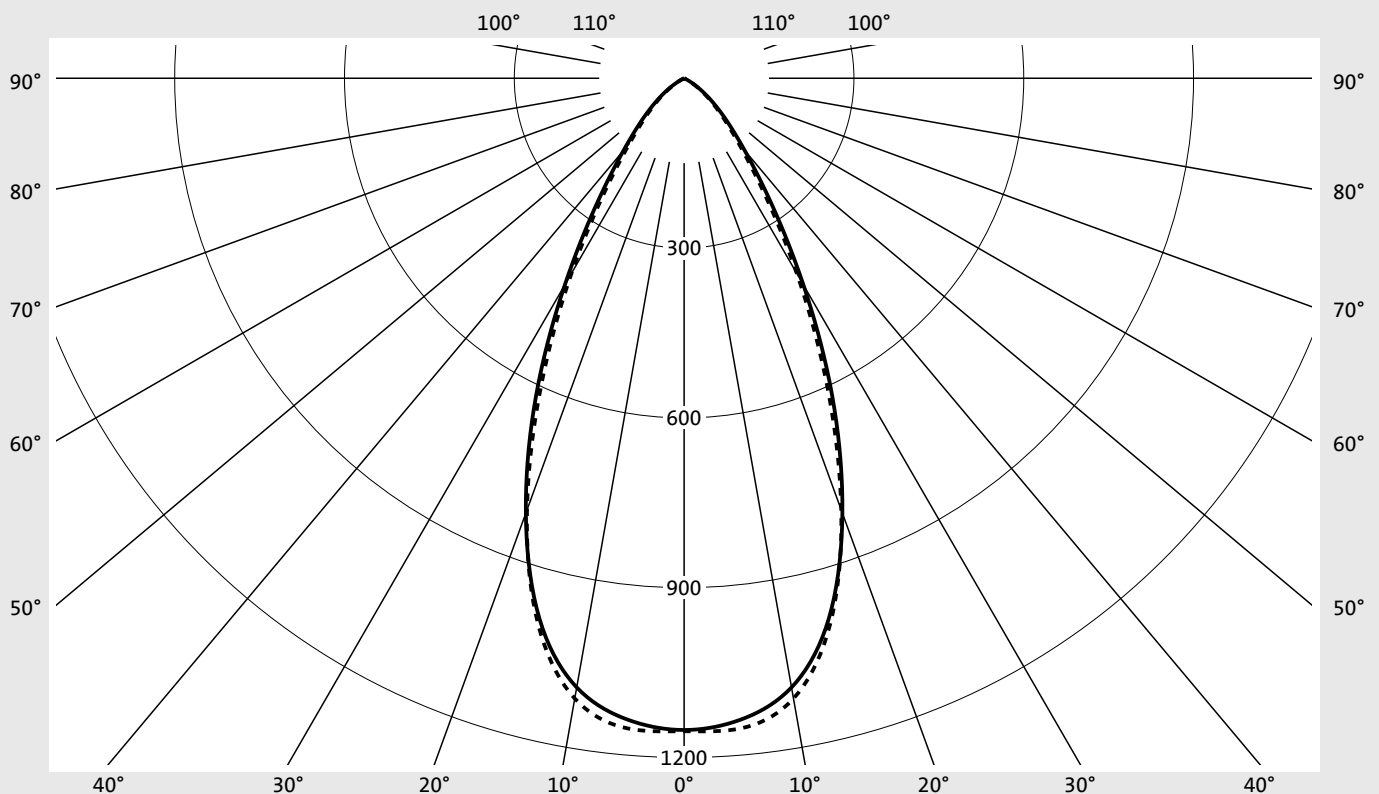
**siteco**

Lichtstärke in cd/klm

C180-0

C270-90

**Imax: 1154 cd/klm**



**Klassifizierungen**

DIN 5040 A 7 0  
CIE N1=89 N2=100 N3=100  
N4=100 N5=100

**Leuchtenbetriebswirkungsgrade**

$\eta_{LB}$  100,0%  
 $\phi_u$  100,0%  
 $\phi_o$  0,0%

**Messbedingungen**

DIN EN 13032 und DIN 5032

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<b>Wertetabelle Lichtstärkemessung</b>		<b>Maximale Lichtstärke</b>
		<b>sITeco</b>

C- Ebenen	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-Zone	Summe Phi-Zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
γ		Lichtstärke in cd/klm						Lichtstrom in lm/klm	
0°	1151.4	1151.4	1152.1	1153.2	1152.5	1153.2	1153.6	6.9	6.9
5°	1137.7	1139.9	1145.8	1147.3	1151.8	1152.1	1152.8	54.8	61.7
10°	1092.7	1095.7	1108.2	1110.1	1116.3	1113.0	1112.7	105.4	167.1
15°	988.0	992.8	1019.7	1017.8	1021.5	1003.4	997.6	143.0	310.1
20°	817.5	826.0	867.3	863.6	860.7	824.5	811.6	158.0	468.1
25°	619.0	627.5	678.1	673.3	666.3	615.3	596.9	149.4	617.5
30°	421.3	434.2	489.2	488.8	474.1	417.2	398.1	123.9	741.4
35°	266.0	279.6	327.6	332.4	312.8	261.6	244.2	92.7	834.1
40°	166.4	176.3	209.5	215.1	197.4	162.0	149.8	65.7	899.8
45°	107.0	112.5	132.1	132.8	123.2	102.9	95.9	45.5	945.3
50°	66.4	69.4	78.9	76.0	74.5	64.6	59.8	29.8	975.2
55°	36.2	37.6	41.0	37.6	39.5	35.4	32.5	16.9	992.0
60°	13.7	13.7	15.9	14.4	15.1	13.7	12.2	6.8	998.8
65°	1.8	1.8	3.0	2.6	3.0	2.2	1.5	1.2	1000.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

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<b>UGR-Tabelle</b>	<b>Standardraum</b>	<b>siteco</b>
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Reflexionsgrad Decke	0,7	0,7	0,5	0,5	0,3	0,7	0,7	0,5	0,5	0,3	
Reflexionsgrad Wände	0,5	0,3	0,5	0,3	0,3	0,5	0,3	0,5	0,3	0,3	
Reflexionsgrad Boden	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	
Raumabmessungen	Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)					
x	y										
2H	2H	22,7	23,9	23,1	24,2	24,5	22,3	23,5	22,7	23,8	24,1
	3H	22,6	23,6	22,9	23,9	24,3	22,2	23,2	22,5	23,5	23,9
	4H	22,5	23,4	22,9	23,8	24,2	22,1	23,0	22,5	23,4	23,8
	6H	22,4	23,3	22,8	23,6	24,0	22,0	22,9	22,4	23,2	23,6
	8H	22,5	23,2	22,9	23,6	24,0	22,1	22,8	22,5	23,2	23,6
	12H	22,4	23,1	22,9	23,5	23,9	22,0	22,7	22,5	23,1	23,5
4H	2H	22,5	23,5	22,9	23,9	24,2	22,2	23,1	22,6	23,5	23,8
	3H	22,4	23,2	22,8	23,6	24,0	22,0	22,8	22,4	23,2	23,6
	4H	22,3	23,0	22,7	23,4	23,8	21,9	22,6	22,3	23,0	23,4
	6H	22,2	22,8	22,6	23,2	23,7	21,8	22,4	22,3	22,8	23,3
	8H	22,1	22,7	22,6	23,1	23,6	21,8	22,3	22,2	22,7	23,2
	12H	22,1	22,6	22,6	23,0	23,5	21,7	22,2	22,2	22,6	23,1
8H	4H	22,1	22,7	22,6	23,1	23,6	21,8	22,3	22,2	22,7	23,2
	6H	22,0	22,5	22,5	22,9	23,4	21,6	22,1	22,1	22,5	23,1
	8H	22,0	22,3	22,5	22,8	23,4	21,6	22,0	22,1	22,4	23,0
	12H	21,9	22,2	22,5	22,7	23,3	21,5	21,8	22,1	22,3	22,9
12H	4H	22,1	22,6	22,6	23,0	23,5	21,8	22,2	22,2	22,6	23,1
	6H	22,0	22,3	22,5	22,8	23,4	21,6	22,0	22,1	22,4	23,0
	8H	21,9	22,2	22,5	22,7	23,3	21,5	21,8	22,1	22,3	22,9

<b>Leuchtdichten-Tabelle</b>	<b>Max. für <math>\gamma \geq 65^\circ</math></b>	<b>Lichttechnische Abmessungen in mm:</b>	<b>L = 82</b> <b>B = 82</b>
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C- Ebenen	$\gamma$	0° 180°	15°	30°	45°	60°	75°	90° 270°
			165°	150°	135°	120°	105°	
			195°	210°	225°	240°	255°	
			345°	330°	315°	300°	285°	
			Leuchtdichte in cd/m²					
	45°	63003.4	66260.1	77774.9	78209.5	72565.5	60616.0	56484.2
	50°	43019.3	44931.1	51145.1	49232.7	48277.1	41823.4	38717.1
	55°	26247.2	27318.8	29729.9	27318.8	28658.3	25711.4	23569.0
	60°	11368.2	11368.2	13212.1	11982.9	12597.5	11368.2	10139.0
	65°	1817.9	1817.9	2907.7	2544.1	2907.7	2181.5	1454.3
	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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<b>Leuchtdichten in cd/m²</b>		
<div style="display: flex; justify-content: space-around;"> <span>γ 65°</span> <span>γ 70°</span> <span>γ 75°</span> <span>γ 80°</span> <span>γ 85°</span> </div>		

**siteco**

