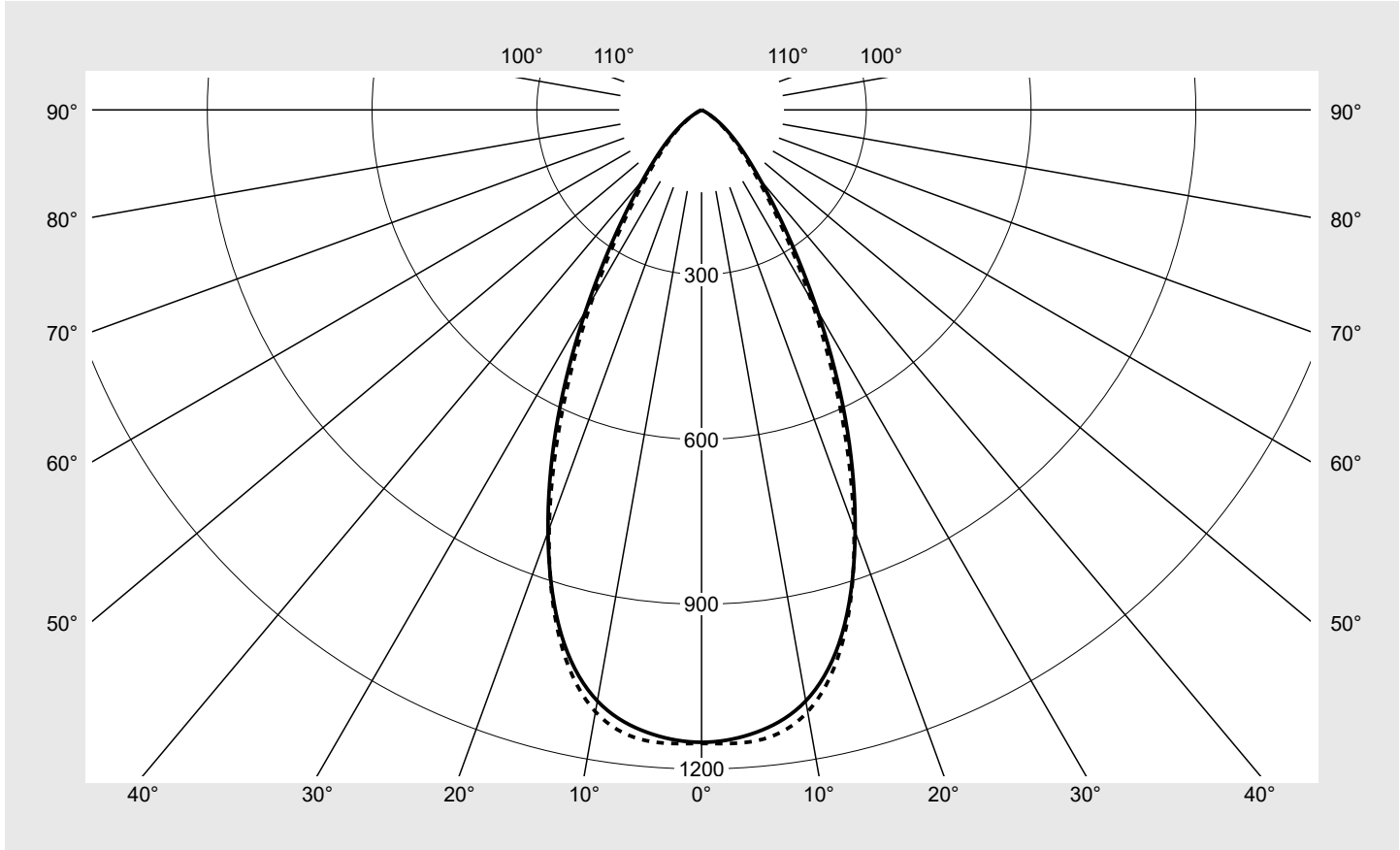


Photometric test report

Family Lunis micro square	Order number: 51DE11B71FG22 + 59DL1L0000G0000D0 + 59DL10000200E00DB	LP number 57965_9
	EAN: 4058352107942 + 4058352030165 + 4058352127438	
Version	prismatic diffuser, darklight reflector, highly specular, medium beam, cover panel, IP54, transparent	serial documentation 15.02.2018
Lamps	LED 4000K / CRI ≥ 80	
Controlgear	ECG	sITeco
Rated values	Net luminous flux = 1120 lm Power consumption = 10.4 W Luminous efficacy = 107.7 lm/W	

Luminous intensity in cd/klm C180-0 C270-90 Imax: 1154 cd/klm



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

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	100.0%
ϕ_o	0.0%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

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Table of values for luminous intensities		Maximum luminous intensity



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°	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

Photometric test report

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UGR-Table	Standard room	siteco
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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	19.5	20.7	19.9	21.0	21.3	19.1	20.3	19.5	20.6	21.0
	3H	19.4	20.4	19.7	20.8	21.1	19.0	20.0	19.4	20.4	20.7
	4H	19.3	20.3	19.7	20.6	21.0	18.9	19.9	19.3	20.2	20.6
	6H	19.2	20.1	19.6	20.5	20.9	18.8	19.7	19.2	20.1	20.5
	8H	19.3	20.0	19.7	20.4	20.8	18.9	19.6	19.3	20.0	20.4
	12H	19.3	19.9	19.7	20.3	20.7	18.9	19.5	19.3	19.9	20.3
4H	2H	19.4	20.3	19.7	20.7	21.1	19.0	19.9	19.4	20.3	20.7
	3H	19.2	20.0	19.6	20.4	20.8	18.8	19.6	19.2	20.0	20.4
	4H	19.1	19.8	19.5	20.2	20.6	18.7	19.4	19.1	19.8	20.3
	6H	19.0	19.6	19.5	20.0	20.5	18.6	19.2	19.1	19.6	20.1
	8H	19.0	19.5	19.4	19.9	20.4	18.6	19.1	19.1	19.5	20.0
	12H	19.0	19.4	19.4	19.8	20.3	18.6	19.0	19.1	19.5	20.0
8H	4H	19.0	19.5	19.4	19.9	20.4	18.6	19.1	19.1	19.5	20.0
	6H	18.9	19.3	19.4	19.7	20.3	18.5	18.9	19.0	19.4	19.9
	8H	18.8	19.2	19.3	19.6	20.2	18.4	18.8	18.9	19.3	19.8
	12H	18.7	19.0	19.3	19.5	20.1	18.4	18.7	18.9	19.2	19.7
12H	4H	19.0	19.4	19.4	19.8	20.3	18.6	19.0	19.1	19.5	20.0
	6H	18.8	19.2	19.3	19.6	20.2	18.4	18.8	18.9	19.3	19.8
	8H	18.7	19.0	19.3	19.5	20.1	18.4	18.7	18.9	19.2	19.7

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 82 B = 82
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C-planes	γ	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
			Luminance in cd/m²					
45°		25201.4	26504.0	31110.0	31283.8	29026.2	24246.4	22593.7
50°		17207.7	17972.4	20458.0	19693.1	19310.9	16729.4	15486.8
55°		10498.9	10927.5	11891.9	10927.5	11463.3	10284.6	9427.6
60°		4547.3	4547.3	5284.9	4793.1	5039.0	4547.3	4055.6
65°		727.2	727.2	1163.1	1017.6	1163.1	872.6	581.7
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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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°

