
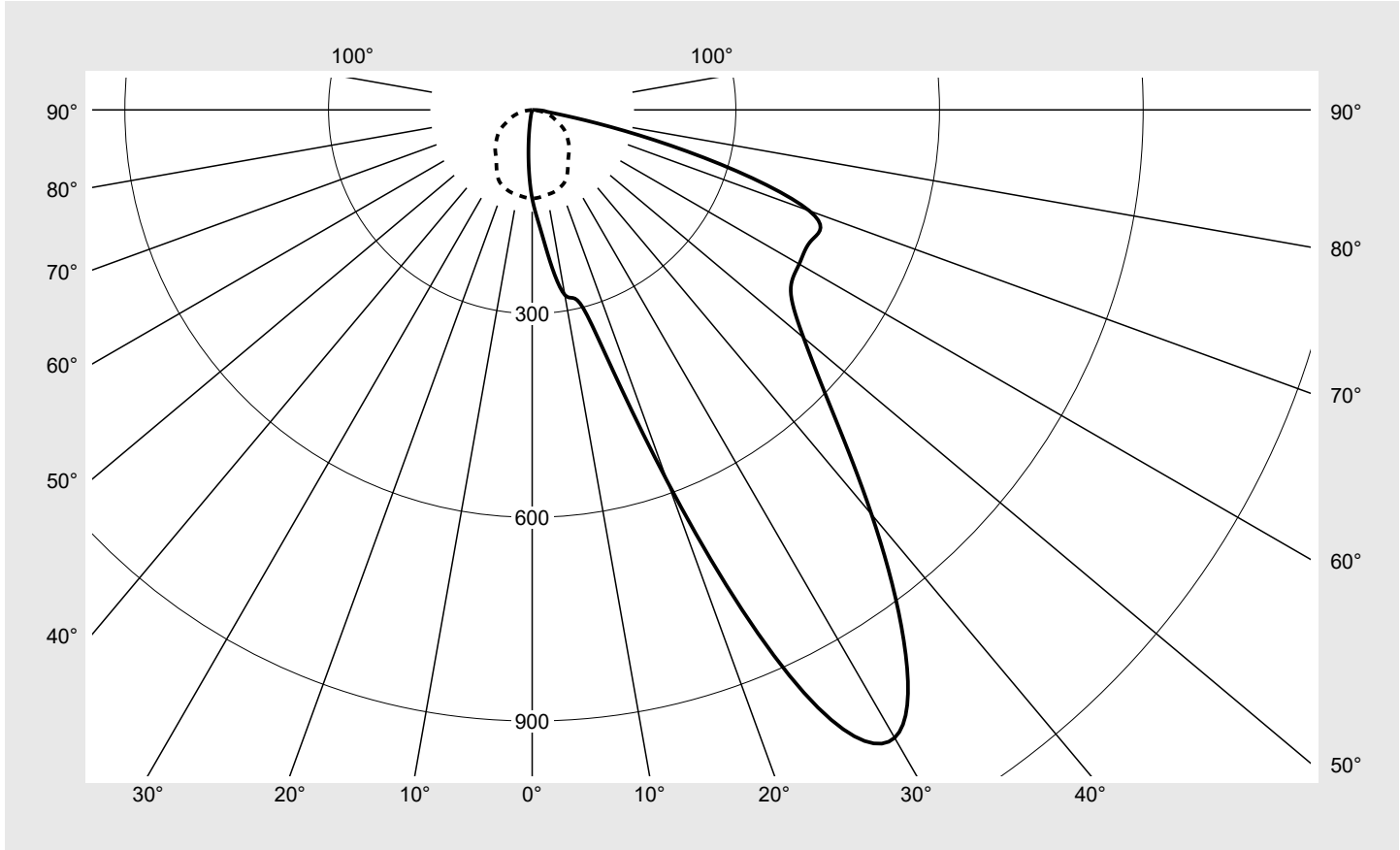


# Photometric test report

<b>Family</b> <b>Lunis micro round</b>	<b>Order number: 51DJ11CD1WM21</b> <b>EAN: 4058352132241</b>	<b>LP number</b> <b>57409_8</b>
	<b>Version</b> wallwasher, aluminium reflector, direct, asymmetric distribution	<b>serial documentation</b> <b>16.02.2017</b>
	<b>Lamps</b> 1 x LED 3000K / CRI ≥ 90 (unbekannt LED 3000K / CRI = 90)	
	<b>Controlgear</b> ECG-DALI	
<b>Rated values</b>	Net luminous flux = 1100 lm Power consumption = 19.7 W Luminous efficacy = 55.8 lm/W	



Luminous intensity in cd/klm C180-0 C270-90 Imax: 1068 cd/klm



Classifications	
DIN 5040	A 3 0
CIE	N1=42 N2=76 N3=96 N4=100 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	100.0%
$\phi_o$	0.0%

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

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

C-planes	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°
$\gamma$	Luminous intensity in cd/klm						
0°	130.4	130.4	130.4	130.4	130.4	130.4	130.4
5°	191.9	191.0	189.2	182.0	167.7	149.0	129.1
10°	276.7	273.9	259.5	218.1	191.4	168.4	126.8
15°	313.6	299.6	287.9	270.8	219.1	180.5	125.0
20°	583.0	524.5	420.4	293.3	264.0	181.8	121.1
25°	947.1	893.5	733.5	431.6	270.7	194.9	115.3
30°	1067.8	1056.6	982.7	683.1	309.6	208.2	104.3
35°	954.3	962.0	962.9	889.9	416.1	216.6	92.2
40°	777.7	791.7	828.6	872.3	537.1	202.3	83.9
45°	623.6	638.5	661.4	715.1	584.9	200.0	77.0
50°	521.8	515.9	519.1	530.8	515.5	212.6	68.7
55°	465.0	452.8	425.3	383.0	401.5	229.1	61.1
60°	454.2	433.9	381.2	300.5	290.6	230.8	51.7
65°	454.2	432.1	371.3	264.9	203.4	185.5	40.1
70°	434.3	419.0	360.5	241.5	152.5	125.8	32.4
75°	237.0	258.2	238.4	209.1	124.3	82.1	23.7
80°	52.3	62.2	59.9	86.1	80.9	54.5	14.3
85°	18.0	19.4	15.8	17.1	18.9	15.3	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Family Lunis micro round	Order number: 51DJ11CD1WM21 EAN: 4058352132241	LP number 57409_8
Table of values for luminous intensities		Maximum luminous intensity
		<b>sitEco</b>

C-planes	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°	Phi-zone	Total Phi-zone
$\gamma$	Luminous intensity in cd/klm						Luminous flux in lm/klm	
0°	130.4	130.4	130.4	130.4	130.4	130.4	0.8	0.8
5°	110.9	91.7	77.9	71.6	64.0	63.1	6.2	7.0
10°	91.7	63.0	43.7	32.9	19.8	18.0	13.0	19.9
15°	73.8	40.6	14.9	9.5	4.5	3.6	19.9	39.9
20°	58.4	16.9	5.0	1.4	0.9	0.9	34.0	73.9
25°	44.0	9.3	1.4	0.9	0.9	0.9	61.2	135.1
30°	29.4	3.2	1.4	0.9	0.9	0.9	89.4	224.5
35°	16.6	2.7	0.9	0.9	0.9	0.9	105.8	330.3
40°	10.4	2.5	0.9	0.9	0.9	0.9	109.2	439.6
45°	5.8	2.3	0.9	0.9	0.9	0.0	103.3	542.9
50°	3.1	2.2	0.9	0.9	0.5	0.0	92.1	635.0
55°	2.7	2.1	0.9	0.9	0.5	0.0	82.0	717.0
60°	2.5	1.9	0.9	0.0	0.5	0.0	76.0	793.0
65°	2.3	1.8	0.5	0.0	0.0	0.0	71.6	864.6
70°	2.1	1.7	0.0	0.0	0.0	0.0	66.6	931.2
75°	1.8	1.5	0.0	0.0	0.0	0.0	46.7	977.9
80°	1.6	1.4	0.0	0.0	0.0	0.0	17.4	995.3
85°	1.3	1.3	0.0	0.0	0.0	0.0	4.6	1000.0
90°	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	1000.0
100°	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	1000.0
110°	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	1000.0
120°	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	1000.0
130°	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	1000.0
140°	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	1000.0
150°	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	1000.0
160°	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	1000.0
170°	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	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	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	37.5	39.3	37.9	39.6	40.0	31.3	33.1	31.7	33.4	33.7
	3H	40.5	42.1	40.9	42.4	42.8	32.2	33.8	32.5	34.1	34.5
	4H	41.5	42.9	41.8	43.3	43.6	32.4	33.9	32.8	34.3	34.7
	6H	41.7	43.0	42.1	43.4	43.8	32.5	34.0	32.9	34.3	34.7
	8H	41.7	43.0	42.1	43.3	43.7	32.5	33.9	32.9	34.3	34.7
	12H	41.7	42.9	42.2	43.3	43.7	32.5	33.9	32.9	34.2	34.7
4H	2H	38.0	39.6	38.4	39.9	40.3	32.7	34.2	33.1	34.6	34.9
	3H	41.3	42.6	41.7	43.0	43.4	33.9	35.2	34.3	35.5	35.9
	4H	42.4	43.5	42.8	43.9	44.4	34.3	35.5	34.7	35.9	36.3
	6H	42.7	43.7	43.1	44.1	44.5	34.6	35.6	35.0	36.1	36.5
	8H	42.7	43.6	43.2	44.0	44.5	34.6	35.6	35.1	36.1	36.5
	12H	42.7	43.5	43.2	44.0	44.5	34.6	35.6	35.1	36.0	36.5
8H	4H	42.5	43.5	43.0	43.9	44.4	35.6	36.5	36.1	36.9	37.4
	6H	42.9	43.6	43.3	44.1	44.6	36.1	36.8	36.5	37.3	37.8
	8H	42.9	43.6	43.4	44.0	44.6	36.2	36.9	36.7	37.3	37.9
	12H	42.9	43.5	43.4	44.0	44.5	36.2	36.8	36.7	37.3	37.8
12H	4H	42.5	43.4	43.0	43.9	44.4	35.7	36.5	36.1	36.9	37.4
	6H	42.9	43.6	43.3	44.0	44.6	36.2	36.8	36.7	37.3	37.8
	8H	42.9	43.5	43.4	44.0	44.5	36.3	36.9	36.8	37.4	37.9

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 50</b>
			<b>B = 37</b>

C-planes	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°
$\gamma$	Luminance in cd/m <sup>2</sup>												
45°	524365.9	536867.3	556193.3	601278.1	491858.1	168182.6	64749.7	4887.2	1894.5	757.6	757.6	757.6	0.0
50°	482639.2	477222.2	480137.0	490974.6	476806.0	196682.5	63518.7	2834.3	2000.8	833.4	833.4	417.2	0.0
55°	482031.2	469413.2	440923.1	397017.0	416217.8	237510.7	63289.2	2802.0	2149.0	934.0	934.0	467.5	0.0
60°	540095.2	515986.8	453297.5	357384.6	345598.6	274495.8	61510.8	2946.8	2249.9	1071.5	0.0	536.3	0.0
65°	638987.1	607931.9	522345.5	372743.8	286152.8	261043.3	56417.9	3233.1	2535.3	634.5	0.0	0.0	0.0
70°	755104.6	728478.0	626643.2	419854.7	265069.3	218777.1	56241.5	3682.1	2898.0	0.0	0.0	0.0	0.0
75°	544459.7	593112.7	547574.9	480288.2	285591.2	188701.0	54446.9	4139.8	3519.5	0.0	0.0	0.0	0.0
80°	178965.8	212909.2	205194.6	294677.5	277087.8	186526.3	49061.0	5553.9	4783.5	0.0	0.0	0.0	0.0
85°	122956.7	132180.3	107586.2	116809.8	129103.5	104509.4	27357.1	8916.6	8916.6	0.0	0.0	0.0	0.0

**Photometric test report**

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**Luminance values in cd/m<sup>2</sup>**

$\gamma$ 65°	$\gamma$ 70°	$\gamma$ 75°	$\gamma$ 80°	$\gamma$ 85°
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