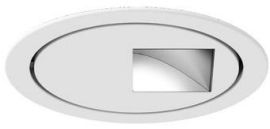

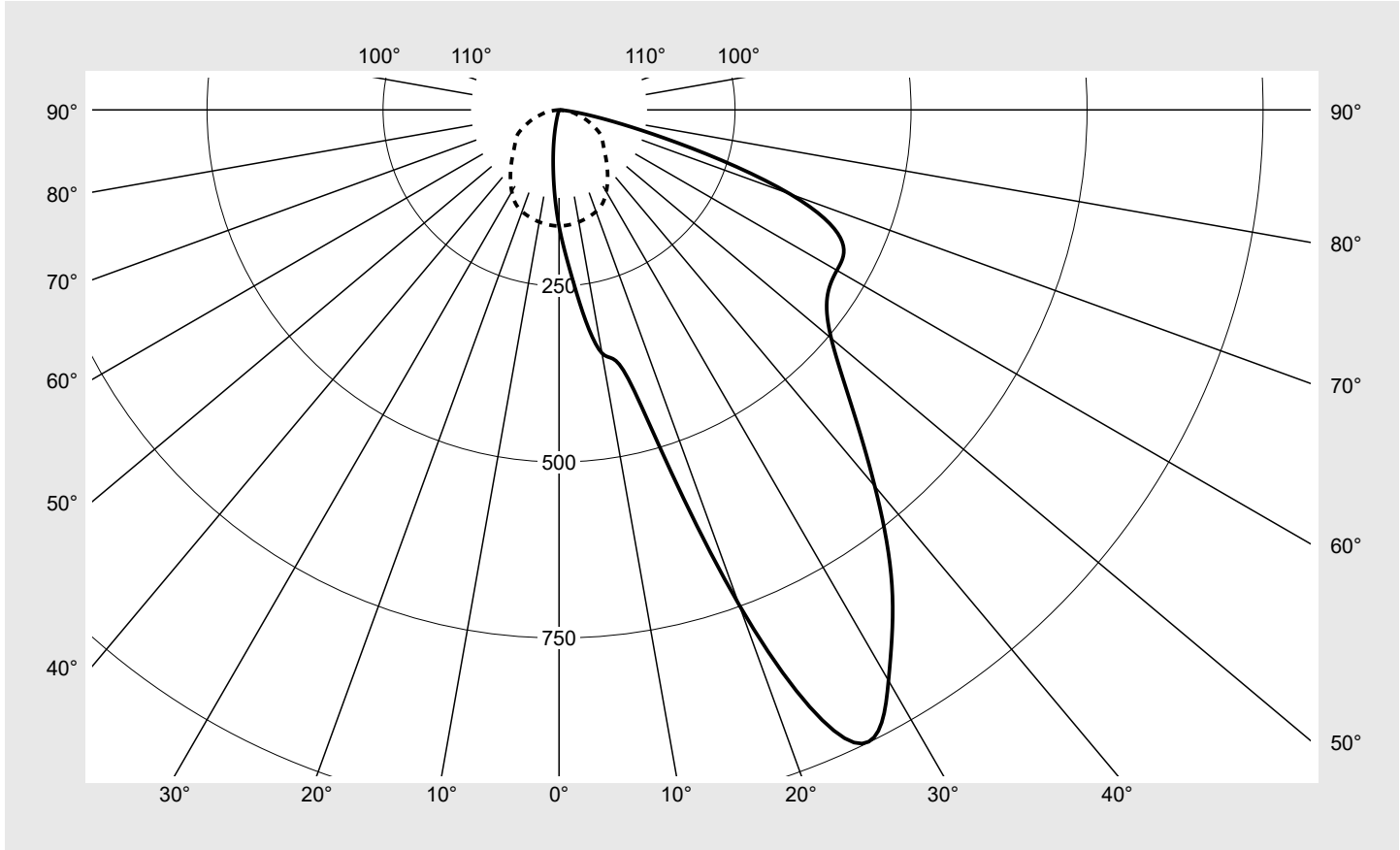


# Photometric test report

<b>Family</b> <b>Lunis mini round</b>	<b>Order number: 51DK11CD2WG21</b> <b>EAN: 4058352105498</b>	<b>LP number</b> <b>57410_3</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 4000K / CRI ≥ 80 (unbekannt LED 4000K / CRI = 80)	
	<b>Controlgear</b> ECG-DALI	
<b>Rated values</b> Net luminous flux = 2470 lm Power consumption = 27.8 W Luminous efficacy = 88.8 lm/W		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 991 cd/klm**



Classifications	
DIN 5040	A 3 0
CIE	N1=44 N2=77 N3=97 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

## Photometric test report

Family Lunis mini round	Order number: 51DK11CD2WG21 EAN: 4058352105498	LP number 57410_3
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°	164.9	164.9	164.9	164.9	164.9	164.9	164.9
5°	250.7	237.9	206.4	200.9	187.3	180.1	163.9
10°	350.8	344.2	319.8	297.2	230.3	188.8	161.6
15°	413.3	393.4	363.3	348.0	295.6	198.8	158.1
20°	748.3	695.8	529.4	381.5	330.4	237.3	153.6
25°	991.4	962.5	826.6	587.0	343.4	265.0	146.4
30°	935.9	953.0	958.5	814.4	419.8	266.7	134.2
35°	824.4	833.4	861.9	890.8	516.1	258.3	120.3
40°	697.7	708.9	748.3	778.2	575.9	244.8	106.4
45°	584.6	589.8	622.9	619.4	559.9	242.8	93.5
50°	504.7	501.1	508.7	462.5	466.3	252.0	82.9
55°	465.0	452.7	427.2	353.5	364.4	257.1	75.3
60°	455.7	436.7	383.9	300.2	276.5	243.0	67.0
65°	443.8	426.6	377.7	273.5	207.2	183.8	53.3
70°	349.1	358.4	344.5	249.3	157.4	124.7	41.1
75°	155.0	172.9	191.7	176.7	126.2	88.8	27.5
80°	44.0	47.3	53.3	59.3	68.5	56.6	17.7
85°	7.1	9.0	12.2	11.7	15.2	15.0	3.0
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

## Photometric test report

Family Lunis mini round	Order number: 51DK11CD2WG21 EAN: 4058352105498	LP number 57410_3
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°	164.9	164.9	164.9	164.9	164.9	164.9	1.0	1.0
5°	140.6	115.3	105.2	94.4	92.7	91.9	7.5	8.5
10°	114.6	86.7	66.6	47.9	41.9	40.2	16.6	25.2
15°	97.4	58.2	32.9	14.1	9.5	8.7	25.8	50.9
20°	82.0	33.4	9.5	0.8	0.0	0.5	44.2	95.1
25°	64.3	13.1	0.5	0.0	0.0	0.0	71.5	166.6
30°	45.7	3.8	0.0	0.0	0.0	0.0	92.8	259.4
35°	29.1	0.3	0.0	0.0	0.0	0.0	102.8	362.2
40°	15.6	0.3	0.0	0.0	0.0	0.0	103.6	465.8
45°	7.3	0.0	0.0	0.0	0.0	0.0	97.8	563.6
50°	2.6	0.0	0.0	0.0	0.0	0.0	88.5	652.0
55°	1.3	0.0	0.0	0.0	0.0	0.0	81.0	733.0
60°	1.1	0.0	0.0	0.0	0.0	0.0	76.6	809.6
65°	0.9	0.0	0.0	0.0	0.0	0.0	72.2	881.8
70°	0.8	0.0	0.0	0.0	0.0	0.0	62.3	944.1
75°	0.7	0.0	0.0	0.0	0.0	0.0	38.0	982.1
80°	0.6	0.0	0.0	0.0	0.0	0.0	14.6	996.8
85°	0.5	0.0	0.0	0.0	0.0	0.0	3.2	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

## Photometric test report

<b>Family</b> Lunis mini round	<b>Order number: 51DK11CD2WG21</b> <b>EAN: 4058352105498</b>	<b>LP number</b> 57410_3
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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	37.9	39.6	38.2	39.9	40.2	31.7	33.4	32.0	33.7	34.0
	3H	40.4	42.0	40.8	42.3	42.7	32.6	34.2	32.9	34.5	34.9
	4H	41.0	42.4	41.4	42.8	43.2	32.9	34.4	33.2	34.7	35.1
	6H	41.1	42.4	41.5	42.8	43.2	33.0	34.4	33.4	34.8	35.2
	8H	41.1	42.4	41.5	42.8	43.2	33.0	34.4	33.4	34.8	35.2
	12H	41.2	42.3	41.6	42.7	43.1	33.0	34.3	33.5	34.7	35.2
4H	2H	38.4	39.9	38.8	40.2	40.6	33.2	34.6	33.6	35.0	35.3
	3H	41.3	42.5	41.7	42.9	43.3	34.4	35.6	34.8	36.0	36.4
	4H	41.9	43.1	42.4	43.5	43.9	34.8	36.0	35.3	36.4	36.8
	6H	42.1	43.1	42.6	43.5	44.0	35.2	36.2	35.6	36.6	37.1
	8H	42.1	43.0	42.6	43.4	43.9	35.2	36.2	35.7	36.6	37.1
	12H	42.2	42.9	42.6	43.4	43.9	35.3	36.1	35.7	36.6	37.1
8H	4H	42.1	43.0	42.5	43.5	43.9	35.8	36.7	36.3	37.2	37.6
	6H	42.3	43.0	42.8	43.5	44.0	36.3	37.0	36.8	37.5	38.0
	8H	42.3	43.0	42.8	43.4	44.0	36.4	37.1	36.9	37.6	38.1
	12H	42.3	42.9	42.9	43.4	43.9	36.5	37.0	37.0	37.5	38.1
12H	4H	42.1	42.9	42.6	43.4	43.9	35.9	36.7	36.4	37.1	37.6
	6H	42.3	43.0	42.8	43.4	44.0	36.4	37.0	36.9	37.5	38.0
	8H	42.3	42.9	42.8	43.4	43.9	36.5	37.1	37.0	37.6	38.1

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 68</b>
			<b>B = 54</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°	556116.6	561030.0	592584.0	589222.2	532576.2	230958.9	88978.2	6932.0	0.0	0.0	0.0	0.0	0.0
50°	528105.3	524407.0	532373.8	484002.8	487983.6	263712.5	86728.3	2759.5	0.0	0.0	0.0	0.0	0.0
55°	545270.5	530924.4	500947.9	414537.8	427292.6	301467.8	88264.2	1498.8	0.0	0.0	0.0	0.0	0.0
60°	613077.9	587476.6	516505.8	403839.6	372016.2	326948.1	90132.1	1463.7	0.0	0.0	0.0	0.0	0.0
65°	706293.8	679024.1	601127.4	435368.8	329780.7	292561.7	84780.5	1470.7	0.0	0.0	0.0	0.0	0.0
70°	686625.3	704817.5	677541.0	490370.2	309616.8	245346.4	80749.6	1604.8	0.0	0.0	0.0	0.0	0.0
75°	402788.0	449449.5	498203.3	459333.4	327886.2	230656.9	71445.2	1697.1	0.0	0.0	0.0	0.0	0.0
80°	170631.9	183271.7	206440.2	229612.5	265424.7	219397.6	68463.5	2211.9	0.0	0.0	0.0	0.0	0.0
85°	54565.4	69252.6	94436.0	90237.5	117512.5	115837.7	22875.8	3774.0	0.0	0.0	0.0	0.0	0.0

**Photometric test report**

<b>Family</b> Lunis mini round	<b>Order number: 51DK11CD2WG21</b> <b>EAN: 4058352105498</b>	<b>LP number</b> 57410_3
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**Luminance values in cd/m<sup>2</sup>**

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

