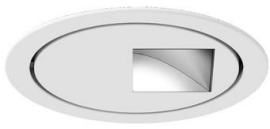

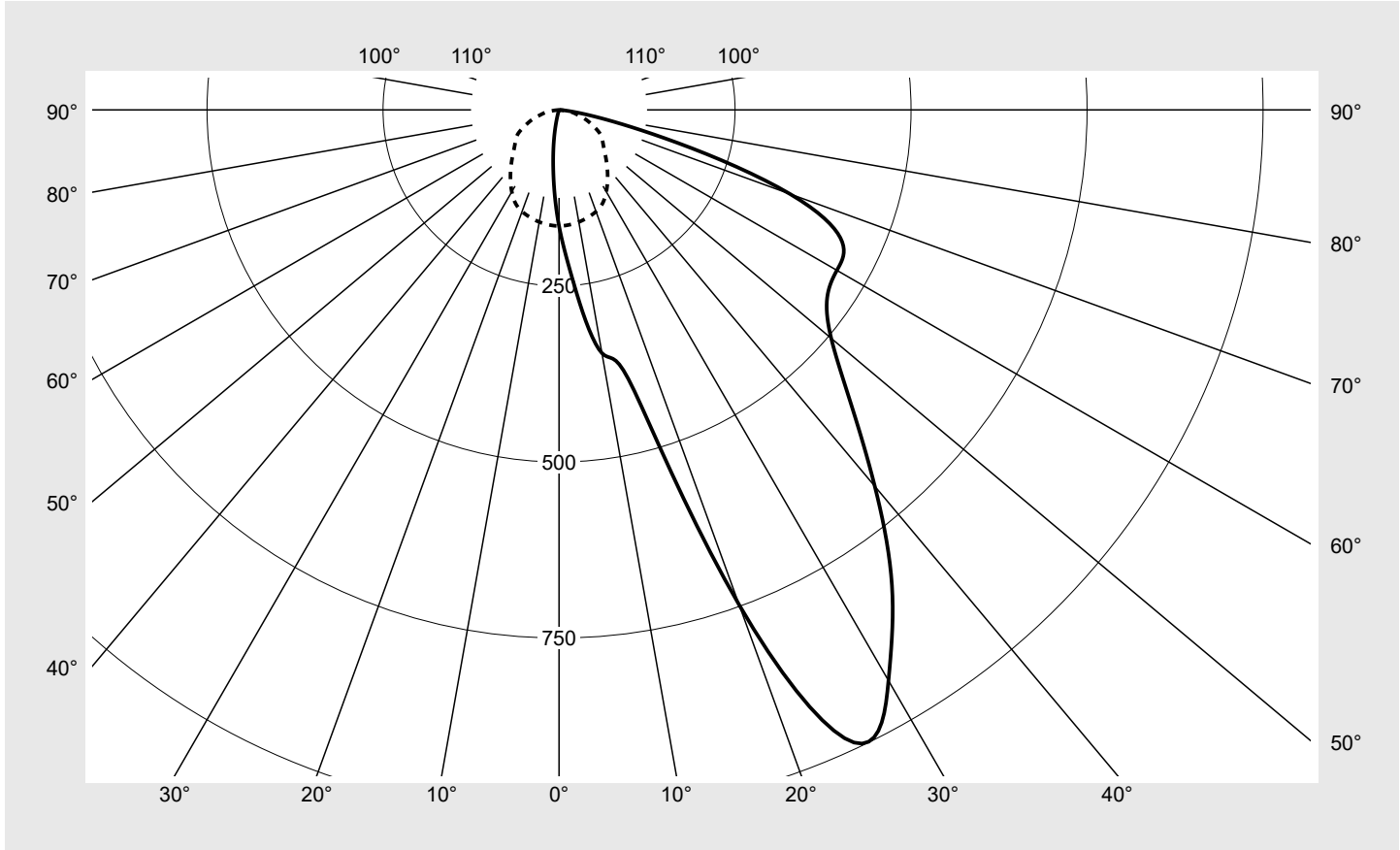


Photometric test report

Family Lunis mini round	Order number: 51DK11B72WG21 EAN: 4058352105535	LP number 57410_1
	Version wallwasher, aluminium reflector, direct, asymmetric distribution	serial documentation 16.02.2017
	Lamps 1 x LED 4000K / CRI ≥ 80 (unbekannt LED 4000K / CRI = 80)	
Controlgear ECG		
Rated values Net luminous flux = 2470 lm Power consumption = 28.1 W Luminous efficacy = 87.9 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	
η_{LB}	100.0%
ϕ_u	100.0%
ϕ_o	0.0%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Lunis mini round	Order number: 51DK11B72WG21 EAN: 4058352105535	LP number 57410_1
Table of values for luminous intensities		Maximum luminous intensity
		sITeco

C-planes	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°
γ	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: 51DK11B72WG21 EAN: 4058352105535	LP number 57410_1
Table of values for luminous intensities		Maximum luminous intensity
		sITeco

C-planes	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°	Phi-zone	Total Phi-zone
γ	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

Family Lunis mini round	Order number: 51DK11B72WG21 EAN: 4058352105535	LP number 57410_1
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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	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

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 68
			B = 54

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°
γ	Luminance in cd/m ²												
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

Family Lunis mini round	Order number: 51DK11B72WG21 EAN: 4058352105535	LP number 57410_1
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

