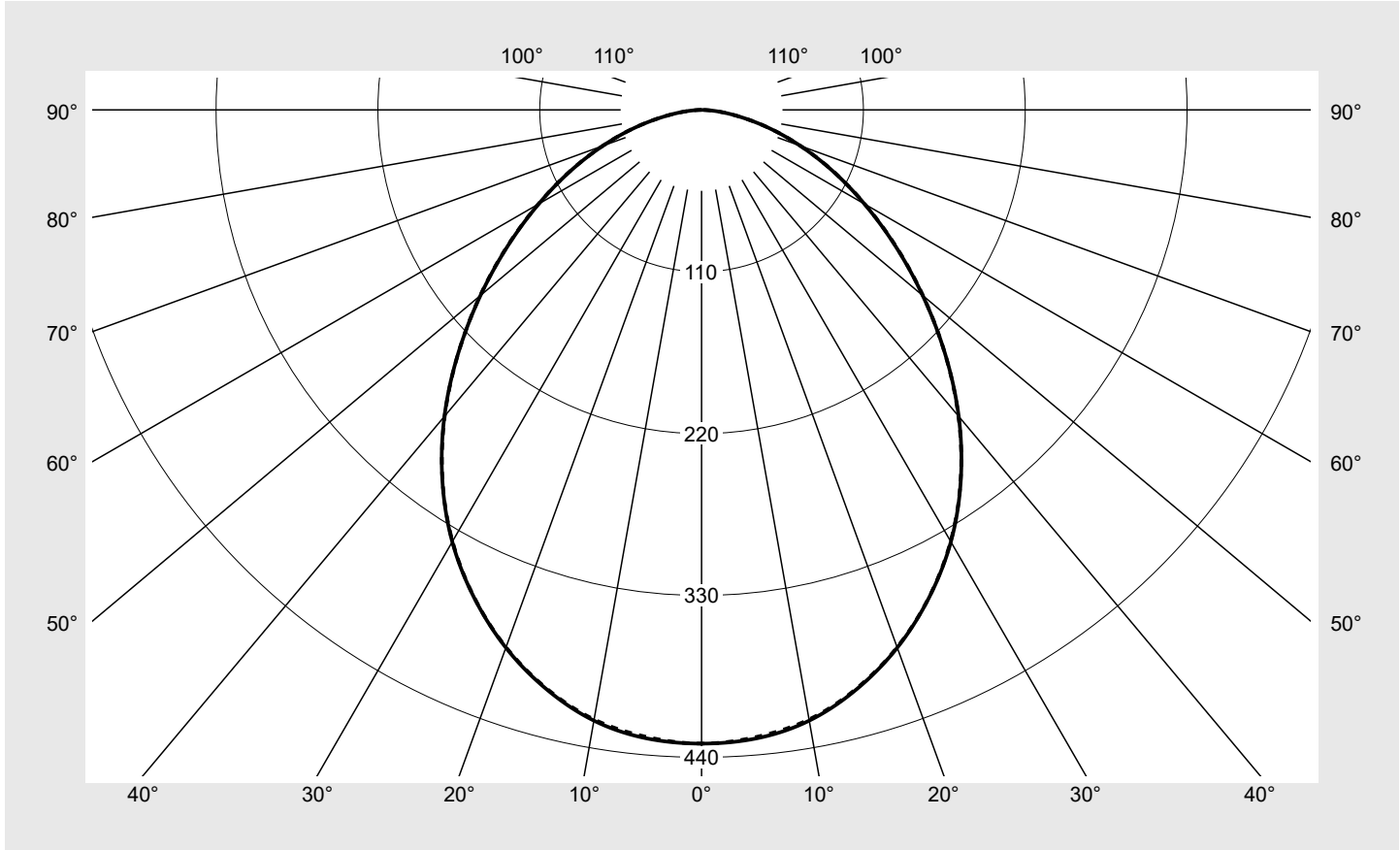


# Photometric test report

<b>Family</b> <b>Lunis R LED</b>	<b>Order number: 5LR610D4OB11AF + 5LR94685EE</b> <b>EAN: 4058352125915 + 4039806161208</b>	<b>LP number</b> <b>58556_4</b>
	<b>Version</b> Downlight for recessed ceiling, diffuser disc, frosted, matt inner	<b>serial documentation</b> <b>03.05.2018</b>
	<b>Lamps</b> 1 x LED 4000K / CRI ≥ 80 (unbekannt LED 4000K / CRI = 80)	
<b>Controlgear</b> ECG-DALI	<b>Setting</b> individual position: Low Lumen Output	
<b>Rated values</b> Net luminous flux = 2770 lm Power consumption = 26.0 W Luminous efficacy = 106.5 lm/W		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 431 cd/klm**



Classifications	
DIN 5040	A 4 0
CIE	N1=54 N2=84 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

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

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°	430.7	430.7	430.7	430.7	430.7	430.7	430.7	2.6	2.6
5°	428.8	428.7	428.5	428.4	428.2	428.0	427.8	20.5	23.0
10°	421.5	421.2	421.1	421.0	420.8	420.8	420.7	40.1	63.1
15°	407.6	407.5	407.4	407.4	407.2	407.2	407.1	57.8	120.9
20°	389.0	389.0	389.0	388.9	388.8	388.7	388.6	72.9	193.8
25°	365.8	365.9	365.8	365.8	365.6	365.7	365.6	84.7	278.5
30°	338.9	338.9	338.7	338.8	338.7	338.7	338.6	92.8	371.4
35°	307.2	307.4	307.2	307.2	307.2	307.2	307.0	96.6	468.0
40°	271.9	271.8	271.7	271.8	271.8	271.7	271.6	95.7	563.7
45°	233.9	233.9	233.9	233.9	233.9	233.9	233.9	90.7	654.4
50°	196.2	196.3	196.2	196.3	196.3	196.3	196.5	82.4	736.8
55°	160.5	160.6	160.6	160.8	160.8	160.9	161.0	72.2	809.0
60°	127.8	128.0	128.0	128.1	128.0	128.2	128.2	60.8	869.7
65°	98.4	98.5	98.5	98.6	98.7	98.8	98.7	49.0	918.7
70°	71.4	71.4	71.4	71.6	71.6	71.6	71.6	36.8	955.6
75°	47.1	47.1	47.2	47.3	47.3	47.3	47.3	25.0	980.6
80°	25.8	25.9	25.8	25.9	25.9	26.0	25.9	14.0	994.5
85°	10.1	10.0	10.0	10.0	10.0	9.9	10.0	5.4	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-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	20.3	21.9	20.6	22.2	22.5	20.3	21.9	20.6	22.2	22.5
	3H	21.5	22.9	21.9	23.3	23.6	21.5	22.9	21.9	23.3	23.6
	4H	21.9	23.3	22.3	23.7	24.0	22.0	23.3	22.4	23.7	24.0
	6H	22.3	23.5	22.7	23.9	24.3	22.3	23.5	22.7	23.9	24.3
	8H	22.4	23.5	22.8	23.9	24.3	22.4	23.6	22.8	23.9	24.3
	12H	22.4	23.5	22.9	23.9	24.3	22.5	23.5	22.9	23.9	24.4
4H	2H	20.9	22.2	21.3	22.6	23.0	20.9	22.2	21.3	22.6	23.0
	3H	22.3	23.4	22.7	23.8	24.2	22.3	23.4	22.7	23.8	24.2
	4H	22.8	23.9	23.3	24.3	24.7	22.9	23.9	23.3	24.3	24.7
	6H	23.2	24.1	23.7	24.6	25.0	23.3	24.2	23.7	24.6	25.0
	8H	23.4	24.2	23.8	24.6	25.1	23.4	24.2	23.9	24.6	25.1
	12H	23.5	24.2	24.0	24.6	25.1	23.5	24.2	24.0	24.7	25.1
8H	4H	23.1	23.9	23.6	24.3	24.8	23.1	23.9	23.6	24.4	24.8
	6H	23.6	24.2	24.1	24.7	25.2	23.6	24.3	24.1	24.7	25.2
	8H	23.7	24.3	24.2	24.8	25.3	23.8	24.4	24.3	24.8	25.4
	12H	23.9	24.4	24.4	24.9	25.4	23.9	24.4	24.4	24.9	25.4
12H	4H	23.1	23.8	23.6	24.3	24.8	23.1	23.8	23.6	24.3	24.8
	6H	23.6	24.2	24.1	24.7	25.2	23.6	24.2	24.2	24.7	25.2
	8H	23.8	24.3	24.3	24.8	25.4	23.8	24.3	24.4	24.8	25.4

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>D = 308</b>
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C-planes	$\gamma$	0° 180°	15°	30°	45°	60°	75°	90° 270°
			165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°	
Luminance in cd/m <sup>2</sup>								
45°		12299.9	12298.6	12296.5	12297.3	12298.6	12297.8	12296.5
50°		11346.5	11352.1	11348.0	11353.1	11355.9	11355.0	11365.3
55°		10403.3	10412.8	10412.3	10421.2	10424.8	10429.6	10432.7
60°		9505.5	9514.6	9513.9	9521.8	9519.3	9535.0	9534.4
65°		8657.3	8662.3	8663.0	8675.1	8685.1	8689.3	8685.8
70°		7759.1	7761.9	7762.7	7779.4	7777.6	7787.3	7785.5
75°		6768.1	6770.6	6780.9	6788.0	6792.6	6799.6	6798.5
80°		5523.8	5535.6	5531.3	5536.0	5540.9	5561.1	5551.4
85°		4288.3	4267.9	4260.2	4248.7	4257.2	4234.2	4261.5

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**Luminance values in cd/m<sup>2</sup>**      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**

