
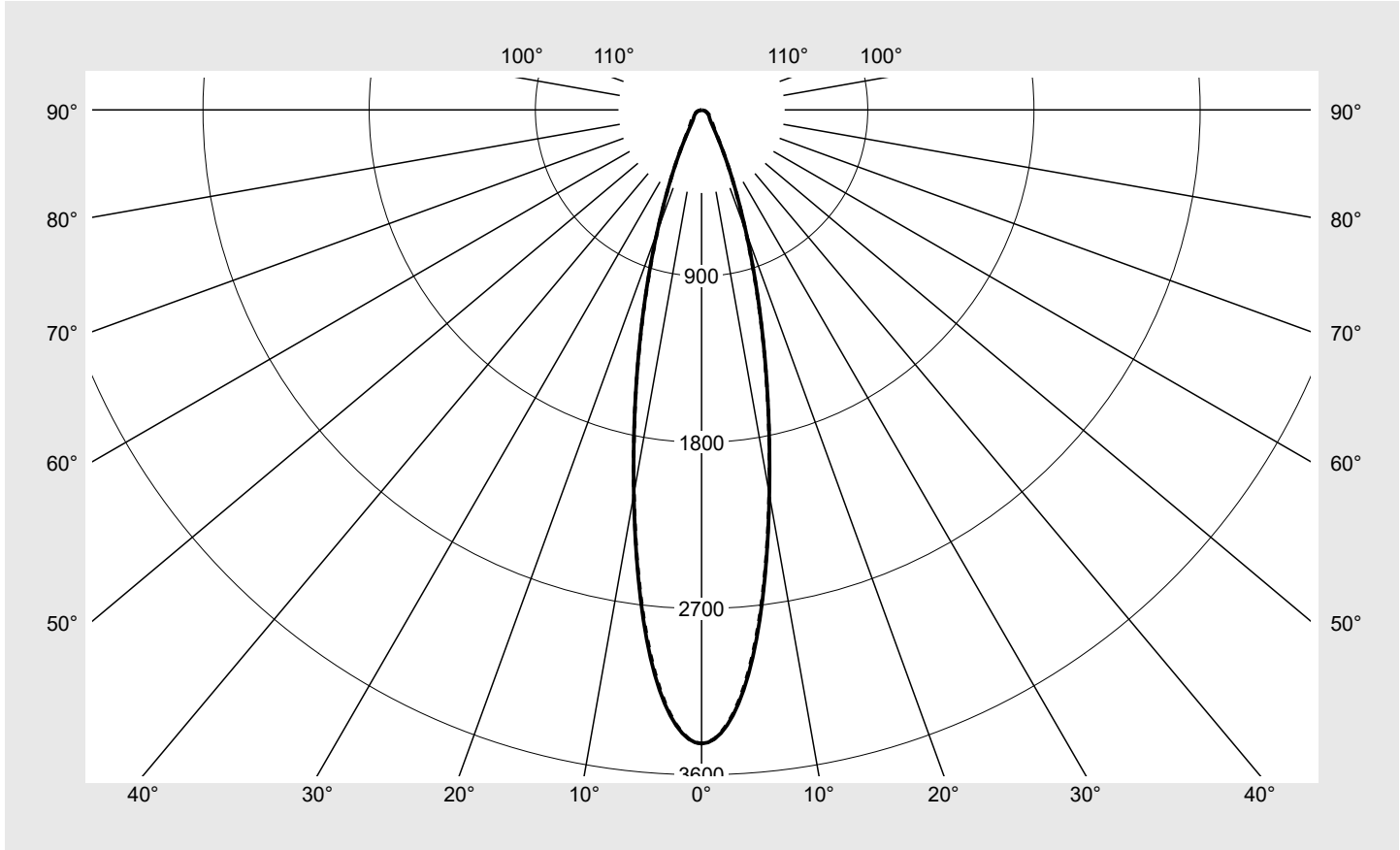


# Photometric test report

<b>Family</b> <b>Licross® Recessed</b>	<b>Order number: 51TL11DN4DXR</b> <b>EAN: 4058352255346</b>	<b>LP number</b> <b>58784_8</b>
	<b>Version</b> cover frosted, narrow distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 13060 lm Power consumption = 76.5 W Luminous efficacy = 170.7 lm/W	<b>serial documentation</b> <b>15.11.2019</b>
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 3431 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=87 N2=95 N3=99 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 $\gamma$	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°	3431.3	3431.3	3431.3	3431.3	3431.3	3431.3	3431.3	20.5	20.5
5°	3030.0	3009.9	2995.2	3008.4	3015.8	3015.7	3017.5	143.9	164.4
10°	2113.5	2098.5	2092.1	2104.8	2111.9	2109.7	2109.2	200.3	364.7
15°	1287.2	1281.7	1283.9	1294.7	1294.7	1286.2	1283.2	182.7	547.4
20°	703.4	705.4	717.6	726.5	719.3	702.5	697.3	133.5	680.9
25°	354.0	358.8	370.9	376.0	367.5	355.6	354.0	84.3	765.2
30°	176.2	179.2	185.6	185.7	179.6	178.8	183.6	49.7	814.9
35°	102.4	102.6	103.9	102.5	99.6	107.7	116.7	32.8	847.7
40°	73.1	72.4	71.7	70.6	70.7	80.9	90.2	26.3	874.0
45°	60.7	58.7	57.0	56.9	57.9	66.7	75.5	23.6	897.6
50°	52.7	51.5	51.2	50.6	50.0	56.0	63.2	22.2	919.8
55°	44.8	43.4	45.4	45.0	43.0	46.3	51.7	20.3	940.1
60°	37.3	36.1	38.2	39.8	37.2	38.0	41.8	18.1	958.2
65°	29.8	28.9	31.0	34.0	31.7	30.7	33.0	15.5	973.8
70°	21.9	21.7	22.9	26.9	25.3	23.3	24.3	12.3	986.1
75°	12.2	12.7	14.5	18.5	17.7	15.7	16.0	8.2	994.3
80°	5.5	5.6	6.4	9.0	10.0	8.8	8.6	4.2	998.5
85°	2.2	2.1	2.4	3.2	3.5	3.4	3.0	1.6	1000.0
90°	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	16.9	18.1	17.3	18.4	18.7	17.3	18.4	17.7	18.8	19.1
	3H	18.3	19.3	18.7	19.6	20.0	18.7	19.7	19.1	20.0	20.4
	4H	18.7	19.6	19.1	19.9	20.3	19.2	20.1	19.6	20.5	20.9
	6H	18.8	19.6	19.2	20.0	20.4	19.6	20.4	20.0	20.8	21.2
	8H	18.9	19.6	19.3	20.0	20.4	19.7	20.4	20.2	20.8	21.2
	12H	18.9	19.6	19.3	20.0	20.4	19.8	20.4	20.2	20.8	21.2
4H	2H	17.7	18.6	18.1	18.9	19.3	18.0	18.9	18.4	19.2	19.6
	3H	19.1	19.9	19.6	20.3	20.7	19.6	20.3	20.0	20.7	21.1
	4H	19.6	20.3	20.0	20.7	21.1	20.2	20.9	20.6	21.3	21.7
	6H	19.8	20.4	20.2	20.8	21.3	20.6	21.2	21.0	21.6	22.1
	8H	19.8	20.3	20.3	20.8	21.3	20.7	21.2	21.2	21.7	22.2
	12H	19.8	20.3	20.3	20.7	21.2	20.8	21.2	21.3	21.7	22.2
8H	4H	19.9	20.4	20.4	20.9	21.4	20.5	21.0	20.9	21.4	21.9
	6H	20.2	20.6	20.7	21.1	21.6	21.0	21.4	21.5	21.9	22.4
	8H	20.2	20.6	20.7	21.1	21.6	21.1	21.5	21.6	22.0	22.5
	12H	20.2	20.5	20.8	21.0	21.6	21.2	21.5	21.7	22.0	22.6
12H	4H	19.9	20.4	20.4	20.8	21.3	20.4	20.9	20.9	21.3	21.8
	6H	20.2	20.6	20.7	21.1	21.6	21.0	21.3	21.5	21.8	22.4
	8H	20.3	20.6	20.8	21.1	21.6	21.2	21.5	21.7	22.0	22.5

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1500</b>
			<b>B = 58</b>

C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		12889.5	12466.6	12108.0	12075.7	12290.8	14154.7	16036.5	
50°		12318.2	12033.5	11967.9	11823.3	11669.4	13081.1	14762.8	
55°		11736.5	11369.3	11889.3	11782.5	11259.6	12128.0	13525.3	
60°		11197.7	10832.0	11458.6	11943.7	11178.8	11409.0	12561.3	
65°		10579.0	10277.4	11008.4	12060.9	11275.5	10916.1	11718.5	
70°		9598.0	9515.9	10045.7	11787.3	11105.2	10225.6	10681.7	
75°		7098.0	7354.4	8388.5	10709.1	10250.9	9079.9	9260.3	
80°		4790.1	4834.2	5559.5	7802.8	8608.5	7575.4	7435.4	
85°		3768.6	3696.2	4080.3	5461.7	5985.3	5809.6	5124.1	

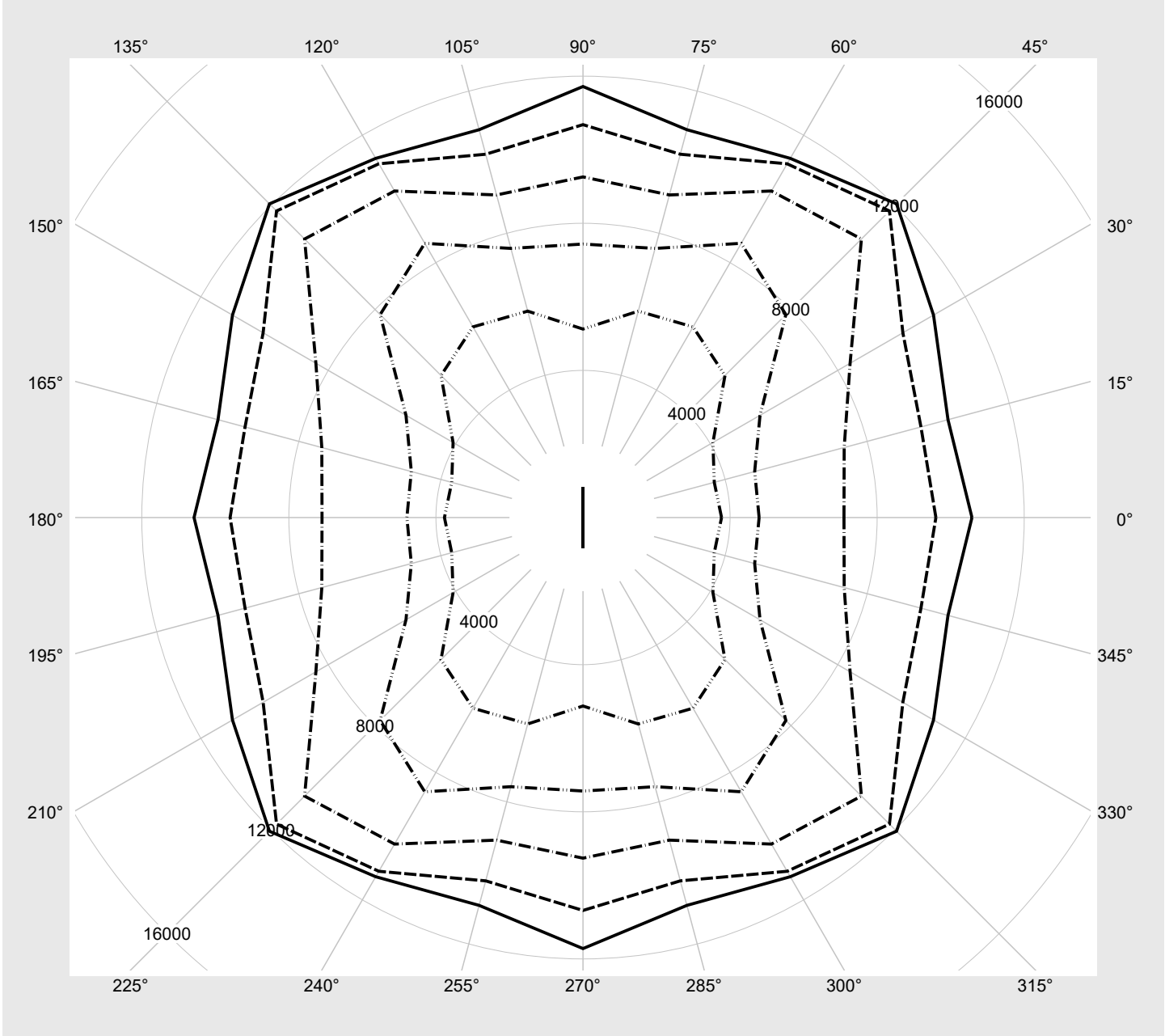
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$ 65°	$\gamma$ 70°	$\gamma$ 75°	$\gamma$ 80°	$\gamma$ 85°
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<b>Dimming levels table</b>	environmental temperature: 25°C	<b>sITeco</b>
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	13060	76.5
95	240	252	12411	72.2
90	226	250	11758	68.1
85	212	247	11104	63.9
80	199	245	10451	59.9
75	185	243	9798	55.9
70	172	240	9145	52.0
65	159	237	8492	48.1
60	146	234	7838	44.4
55	133	231	7185	40.6
50	121	227	6532	36.9
45	108	223	5879	33.3
40	96	218	5226	29.8
35	84	214	4572	26.3
30	72	208	3919	22.8
25	60	201	3266	19.4
20	48	193	2613	15.9
15	36	182	1960	12.6
10	24	167	1306	9.3
5	13	143	653	6.0