

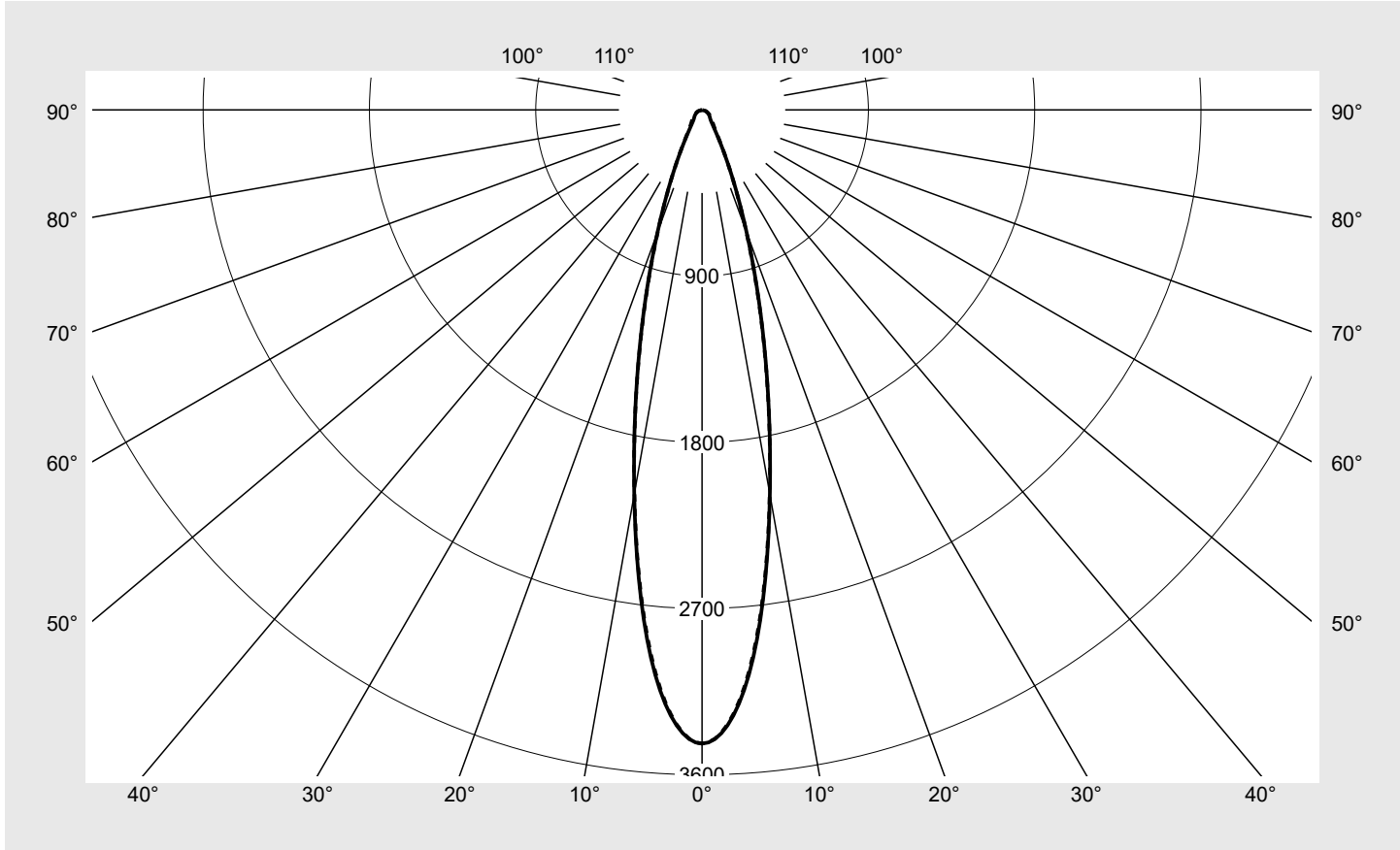


## Photometric test report

<b>Family</b> <b>Licross® 21 Recessed</b>	<b>Order number: 52TL11DN4DXS</b> <b>EAN: 4058352890561</b>	<b>LP number</b> <b>58784_247</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 = 13000 lm Power consumption = 72.5 W Luminous efficacy = 179.3 lm/W	<b>serial documentation</b> <b>03.08.2023</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 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°	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	18.7	19.1
	3H	18.3	19.2	18.7	19.6	19.9	18.7	19.7	19.1	20.0	20.4
	4H	18.6	19.6	19.0	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	20.7	21.1
	8H	18.9	19.6	19.3	20.0	20.4	19.7	20.4	20.1	20.8	21.2
	12H	18.9	19.5	19.3	19.9	20.4	19.7	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	19.5	20.3	20.0	20.7	21.1
	4H	19.6	20.3	20.0	20.7	21.1	20.2	20.8	20.6	21.3	21.7
	6H	19.8	20.3	20.2	20.8	21.3	20.6	21.1	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	22.1
	12H	19.8	20.3	20.3	20.7	21.2	20.8	21.2	21.2	21.7	22.2
8H	4H	19.9	20.4	20.4	20.9	21.4	20.4	20.9	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	20.7	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	20.5	20.7	21.0	21.6	21.0	21.3	21.5	21.8	22.3
	8H	20.2	20.6	20.8	21.1	21.6	21.1	21.5	21.7	22.0	22.5

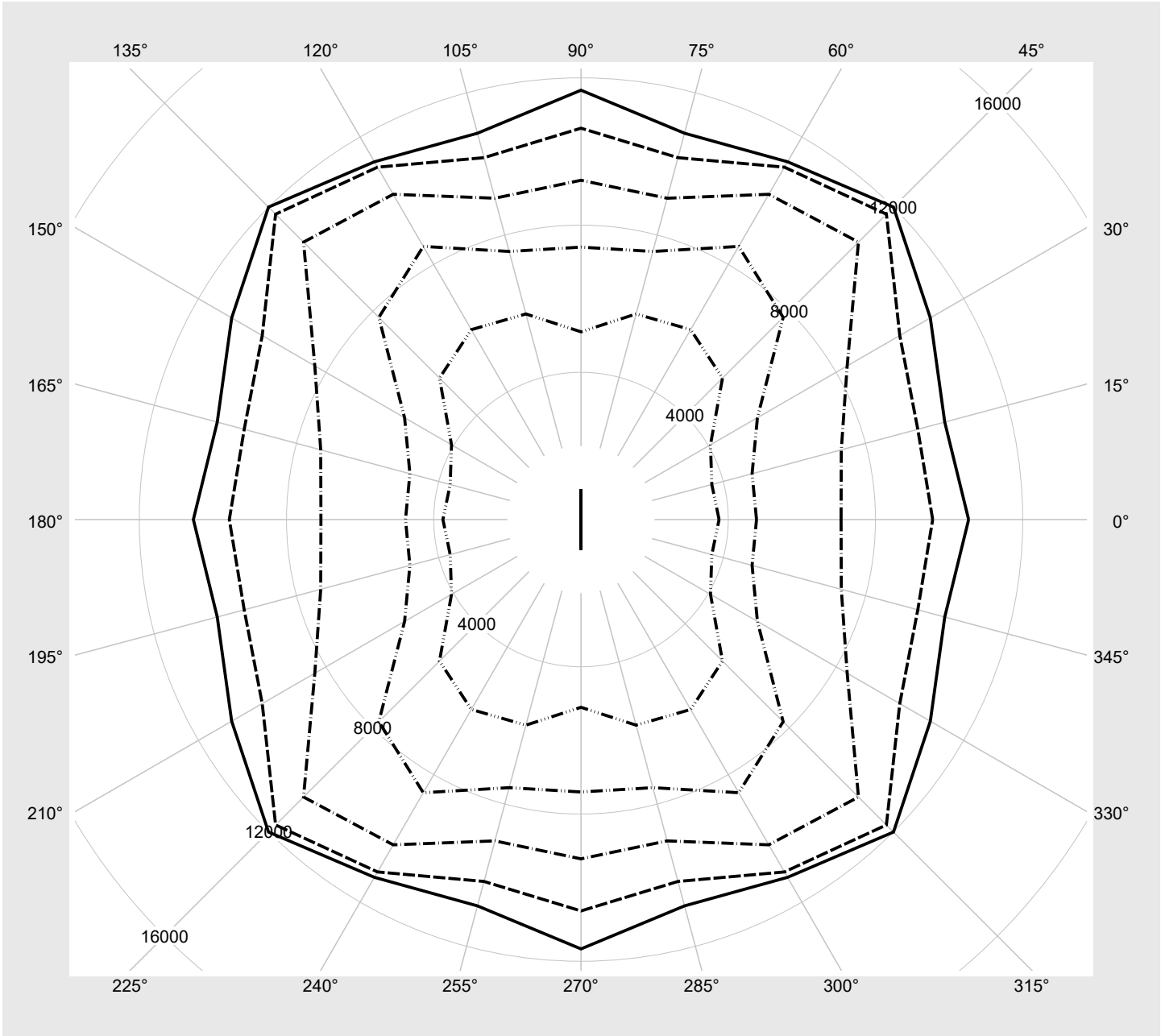
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1500</b>
			<b>B = 58</b>

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°		12830.2	12409.3	12052.4	12020.3	12234.3	14089.7	15962.8	
50°		12261.6	11978.2	11912.9	11769.0	11615.8	13021.0	14695.0	
55°		11682.5	11317.0	11834.7	11728.4	11207.9	12072.3	13463.2	
60°		11146.2	10782.2	11405.9	11888.9	11127.4	11356.6	12503.6	
65°		10530.4	10230.2	10957.9	12005.5	11223.7	10865.9	11664.6	
70°		9553.9	9472.2	9999.5	11733.1	11054.2	10178.7	10632.6	
75°		7065.4	7320.6	8350.0	10659.9	10203.8	9038.2	9217.7	
80°		4768.1	4811.9	5533.9	7766.9	8568.9	7540.6	7401.2	
85°		3751.2	3679.2	4061.6	5436.6	5957.8	5782.9	5100.5	

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



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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	13000	72.5
95	240	252	12337	68.5
90	227	250	11712	64.8
85	213	248	11034	60.9
80	200	245	10400	57.3
75	187	243	9757	53.7
70	174	240	9111	50.0
65	161	237	8460	46.5
60	148	234	7804	42.8
55	135	231	7138	39.2
50	123	227	6522	35.9
45	110	223	5850	32.4
40	98	219	5222	29.1
35	85	214	4539	25.6
30	73	208	3906	22.4
25	61	202	3266	19.2
20	49	194	2625	16.0
15	36	182	1926	12.5
10	24	168	1278	9.2
5	12	142	623	6.0
2	5	110	242	4.2