

## Photometric test report

**Family**  
Licross® 21 Recessed

**Order number: 52TL12DN4AXGD**  
**EAN: 4058352890905**

**LP number**  
**59101\_284**



**Version** cover frosted, wide distribution, high visual comfort  
**Lamps** LED 4000 K | CRI ≥ 80  
**Controlgear** ECG-DALI  
**Setting** AC-mode  
**Rated values** Net luminous flux = 10280 lm  
 Power consumption = 58.0 W  
 Luminous efficacy = 177.2 lm/W

**serial**  
**documentation**  
10.08.2023

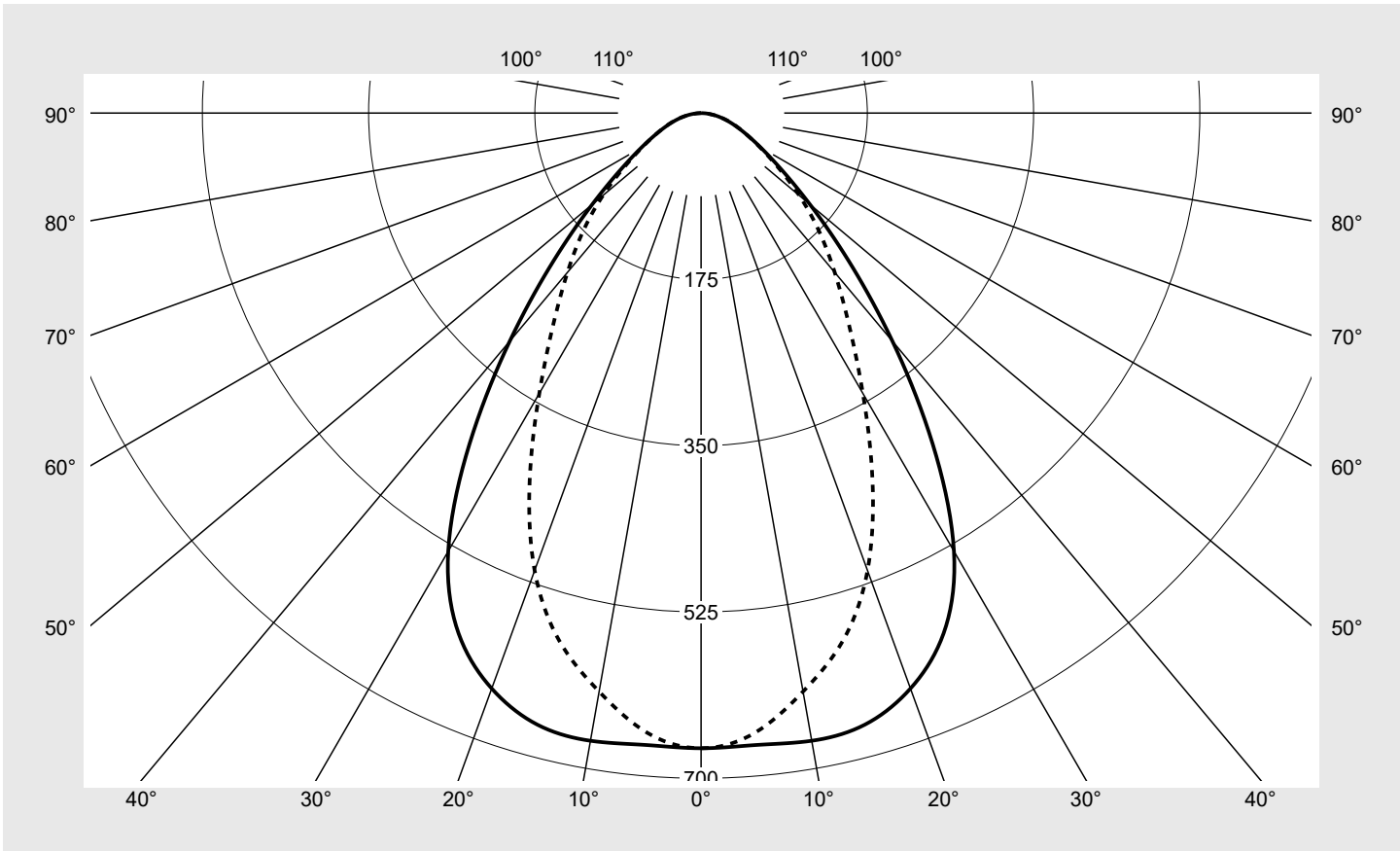
**sitEco**

**Luminous intensity in cd/klm**

C180-0

C270-90

**Imax: 671 cd/klm**



### Classifications

DIN 5040 A 6 0  
 CIE N1=72 N2=92 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>
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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°	668.4	668.4	668.4	668.4	668.4	668.4	668.4	4.0	4.0
5°	667.5	664.4	657.4	655.8	655.7	654.2	654.4	31.4	35.4
10°	670.7	665.0	649.1	636.1	625.3	618.7	618.1	60.9	96.3
15°	666.2	657.2	632.9	612.0	594.0	578.5	575.5	87.4	183.7
20°	644.4	632.9	606.9	585.4	554.6	522.7	512.3	108.8	292.5
25°	604.1	590.6	566.7	541.2	494.5	444.9	427.0	121.8	414.2
30°	532.4	517.7	496.3	466.1	413.9	359.9	340.6	122.9	537.1
35°	425.0	409.7	387.0	361.9	325.4	286.0	271.1	111.0	648.1
40°	313.4	295.8	270.7	255.1	246.8	229.4	218.8	91.8	739.9
45°	219.2	200.3	175.7	171.1	181.8	184.7	175.5	71.8	811.7
50°	149.7	132.6	112.6	116.3	133.0	145.6	134.9	54.8	866.5
55°	102.7	89.1	74.7	81.5	98.1	107.9	98.1	41.3	907.7
60°	72.4	62.1	51.3	58.3	71.8	76.5	71.0	31.0	938.7
65°	52.1	44.3	35.9	41.6	51.4	54.2	52.1	23.1	961.9
70°	37.6	31.7	24.7	29.1	35.6	38.4	38.3	16.9	978.8
75°	26.0	21.3	16.2	19.0	22.9	25.9	26.8	11.6	990.4
80°	16.1	12.5	9.2	10.4	12.6	14.8	15.7	6.8	997.3
85°	7.0	5.4	3.8	4.1	4.8	5.7	5.8	2.7	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	21.8	23.3	22.2	23.6	23.9	21.8	23.2	22.1	23.5	23.8
	3H	22.4	23.7	22.8	24.0	24.4	22.6	23.8	22.9	24.2	24.5
	4H	22.7	23.9	23.1	24.2	24.6	22.9	24.1	23.3	24.4	24.8
	6H	23.0	24.0	23.4	24.4	24.8	23.2	24.2	23.6	24.6	25.0
	8H	23.1	24.1	23.6	24.5	24.9	23.3	24.3	23.7	24.7	25.1
	12H	23.2	24.1	23.6	24.5	24.9	23.3	24.2	23.8	24.6	25.1
4H	2H	22.0	23.2	22.4	23.5	23.9	22.0	23.2	22.4	23.5	23.9
	3H	22.7	23.7	23.1	24.0	24.5	22.9	23.9	23.4	24.3	24.7
	4H	23.0	23.9	23.5	24.3	24.7	23.4	24.3	23.8	24.7	25.1
	6H	23.3	24.1	23.8	24.5	25.0	23.7	24.5	24.2	24.9	25.4
	8H	23.5	24.2	24.0	24.6	25.1	23.9	24.5	24.3	25.0	25.5
	12H	23.6	24.2	24.1	24.6	25.1	24.0	24.5	24.4	25.0	25.5
8H	4H	23.1	23.8	23.6	24.2	24.7	23.4	24.1	23.9	24.6	25.0
	6H	23.5	24.0	23.9	24.5	25.0	23.9	24.4	24.4	24.9	25.4
	8H	23.6	24.1	24.1	24.6	25.1	24.0	24.5	24.5	25.0	25.5
	12H	23.8	24.2	24.3	24.7	25.2	24.2	24.6	24.7	25.1	25.6
12H	4H	23.1	23.7	23.6	24.2	24.7	23.5	24.0	23.9	24.5	25.0
	6H	23.5	23.9	24.0	24.4	25.0	23.9	24.3	24.4	24.8	25.4
	8H	23.6	24.0	24.2	24.5	25.1	24.1	24.5	24.6	25.0	25.5

<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>

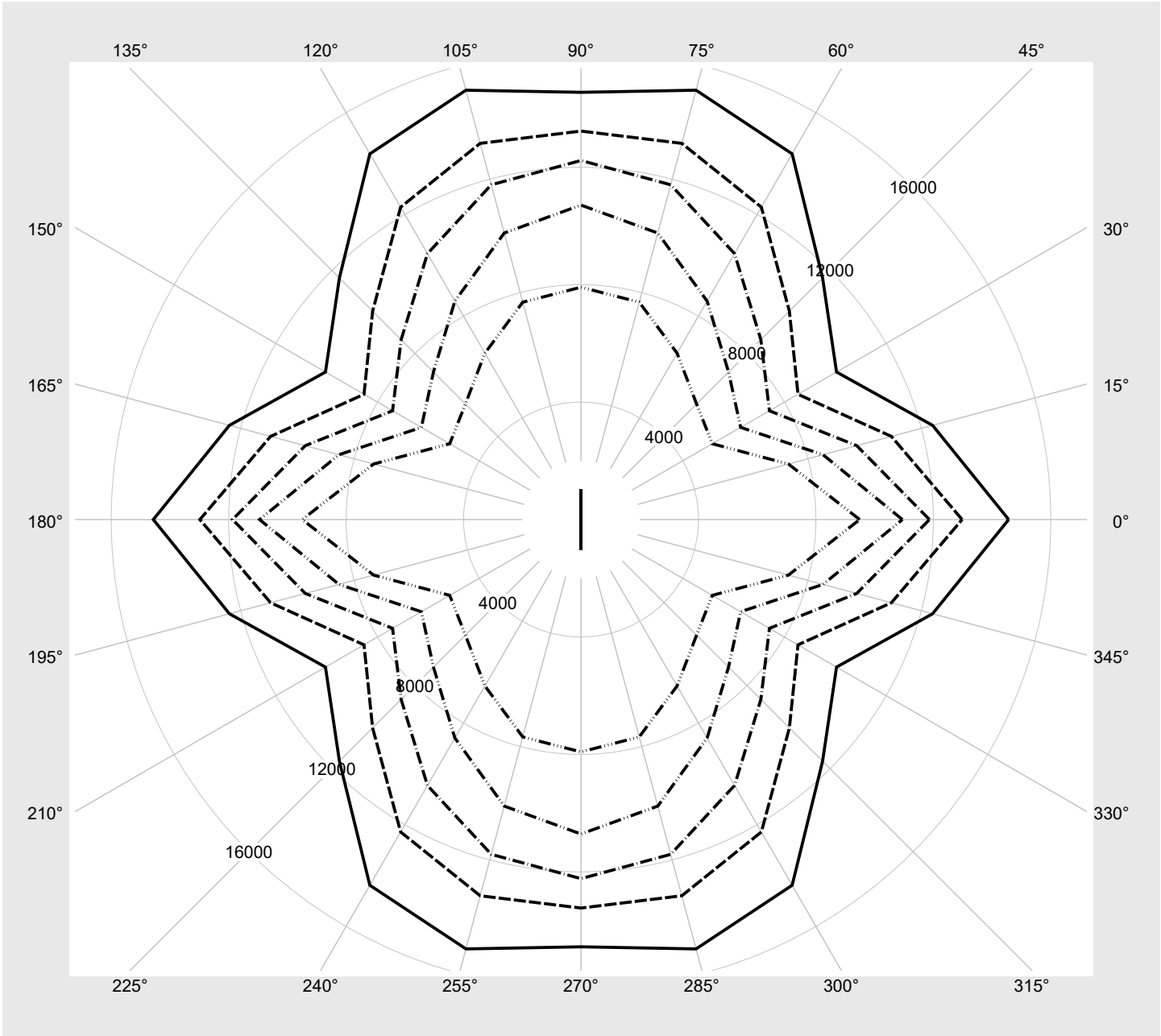
C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
	45°	36632.7	33479.1	29355.8	28597.5	30379.5	30864.3	29331.1	
	50°	27516.0	24370.3	20700.8	21380.0	24447.9	26768.3	24789.8	
	55°	21149.9	18360.6	15392.5	16794.3	20205.0	22238.1	20199.8	
	60°	17105.4	14683.4	12125.2	13788.0	16960.1	18081.2	16773.9	
	65°	14567.3	12398.5	10050.8	11637.8	14384.2	15141.3	14553.4	
	70°	12981.4	10945.8	8534.7	10037.6	12287.3	13266.8	13233.2	
	75°	11869.6	9722.9	7411.0	8664.2	10459.8	11806.1	12231.6	
	80°	10947.9	8535.0	6279.3	7107.4	8592.2	10104.2	10711.8	
	85°	9494.3	7312.9	5164.0	5568.0	6545.5	7665.4	7914.8	

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

γ 65°
γ 70°
γ 75°
γ 80°
γ 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	10280	58.0
95	240	252	9762	54.8
90	226	250	9239	51.5
85	213	248	8746	48.7
80	199	245	8210	45.5
75	186	243	7706	42.6
70	173	240	7198	39.6
65	160	237	6687	36.8
60	147	234	6170	33.9
55	134	231	5647	31.0
50	122	227	5159	28.4
45	109	223	4627	25.5
40	97	219	4132	22.9
35	84	213	3591	20.1
30	72	208	3086	17.5
25	60	201	2577	15.0
20	48	193	2065	12.3
15	36	182	1550	9.7
10	24	168	1031	7.2
5	12	142	509	4.6
2	4	102	158	3.0