

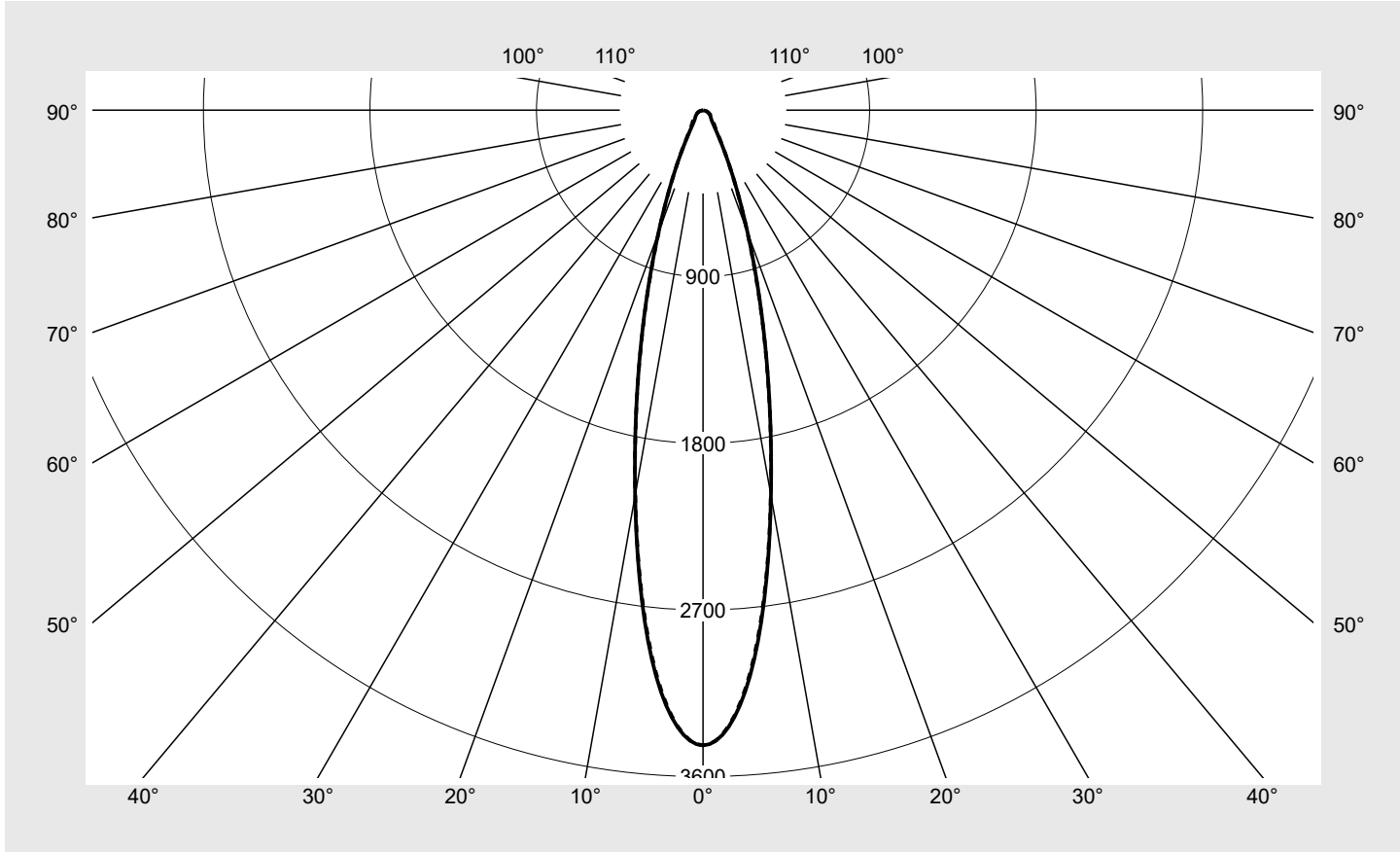


# Photometric test report

<b>Family</b> <b>Licross® 21 Recessed</b>	<b>Order number: 52TL11DV4L2S</b> <b>EAN: 4058352890622</b>	<b>LP number</b> <b>58784_242</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 = 22660 lm Power consumption = 125.6 W Luminous efficacy = 180.4 lm/W	<b>serial documentation</b> <b>02.08.2023</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>
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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°	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	17.4	18.6	17.8	18.9	19.2	17.8	19.0	18.2	19.3	19.6
	3H	18.8	19.8	19.2	20.1	20.5	19.2	20.2	19.6	20.6	20.9
	4H	19.2	20.1	19.6	20.4	20.8	19.7	20.7	20.1	21.0	21.4
	6H	19.3	20.1	19.7	20.5	20.9	20.1	20.9	20.5	21.3	21.7
	8H	19.4	20.1	19.9	20.5	20.9	20.2	20.9	20.7	21.3	21.7
	12H	19.4	20.1	19.8	20.5	20.9	20.3	20.9	20.7	21.3	21.7
4H	2H	18.2	19.1	18.6	19.4	19.8	18.5	19.4	18.9	19.7	20.1
	3H	19.7	20.4	20.1	20.8	21.2	20.1	20.8	20.5	21.2	21.6
	4H	20.1	20.8	20.5	21.2	21.6	20.7	21.4	21.1	21.8	22.2
	6H	20.3	20.9	20.8	21.3	21.8	21.1	21.7	21.6	22.1	22.6
	8H	20.3	20.8	20.8	21.3	21.8	21.2	21.7	21.7	22.2	22.7
	12H	20.3	20.8	20.8	21.3	21.8	21.3	21.7	21.8	22.2	22.7
8H	4H	20.4	20.9	20.9	21.4	21.9	21.0	21.5	21.4	21.9	22.4
	6H	20.7	21.1	21.2	21.6	22.1	21.5	21.9	22.0	22.4	22.9
	8H	20.7	21.1	21.2	21.6	22.1	21.6	22.0	22.1	22.5	23.0
	12H	20.7	21.0	21.3	21.6	22.1	21.7	22.0	22.2	22.5	23.1
12H	4H	20.4	20.9	20.9	21.3	21.8	20.9	21.4	21.4	21.8	22.3
	6H	20.7	21.1	21.2	21.6	22.1	21.5	21.8	22.0	22.3	22.9
	8H	20.8	21.1	21.3	21.6	22.1	21.7	22.0	22.2	22.5	23.0

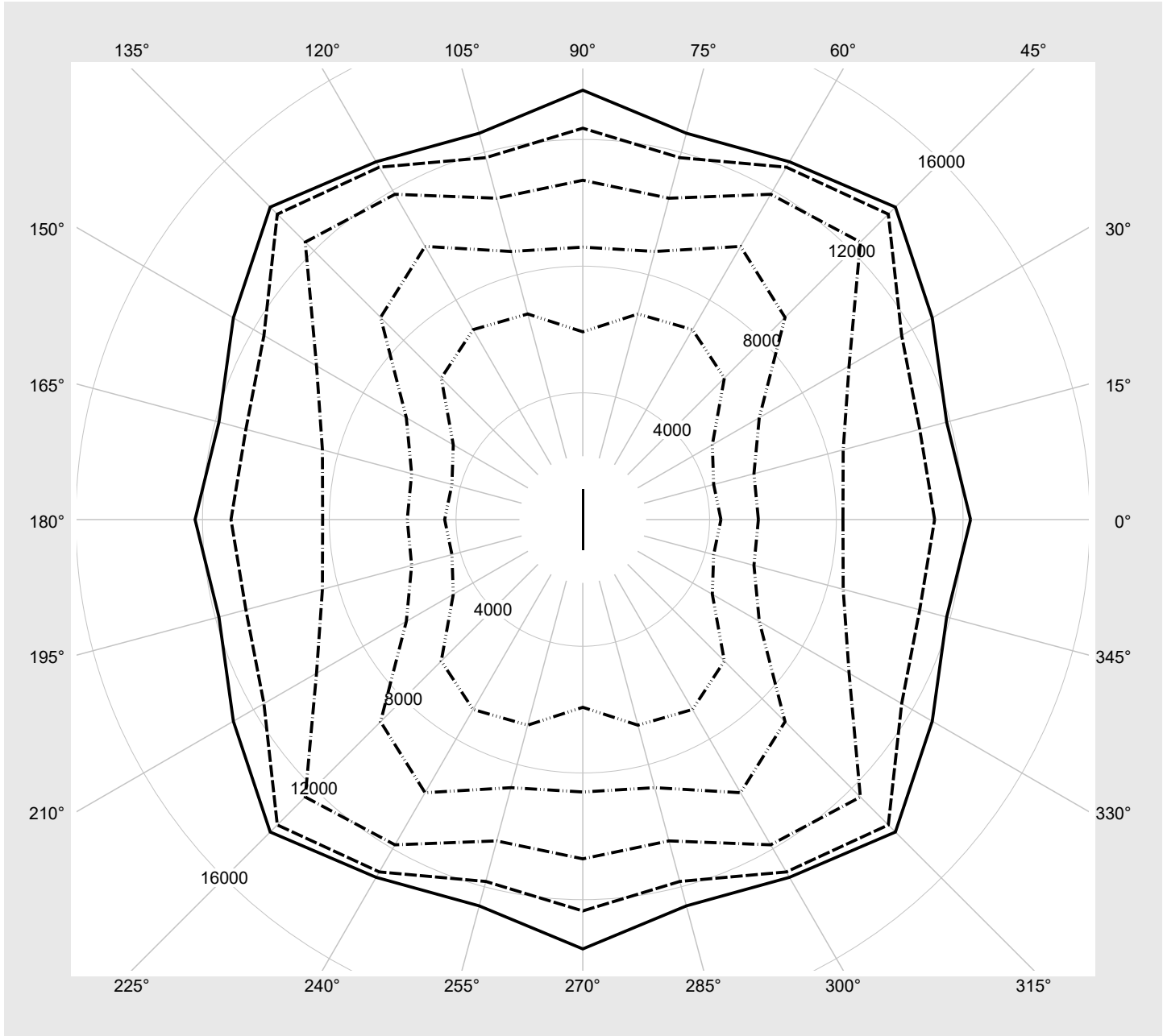
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 2250</b>
			<b>B = 58</b>

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°		14909.4	14420.2	14005.5	13968.2	14216.9	16373.0	18549.6	
50°		14248.6	13919.3	13843.4	13676.2	13498.1	15131.1	17076.4	
55°		13575.7	13151.0	13752.5	13629.0	13024.1	14028.6	15644.9	
60°		12952.5	12529.5	13254.3	13815.5	12930.6	13197.0	14529.8	
65°		12236.8	11888.0	12733.6	13951.0	13042.6	12626.8	13554.9	
70°		11102.1	11007.2	11620.0	13634.5	12845.5	11828.1	12355.6	
75°		8210.4	8506.9	9703.1	12387.4	11857.4	10502.8	10711.5	
80°		5540.7	5591.7	6430.7	9025.6	9957.5	8762.6	8600.6	
85°		4359.1	4275.5	4719.7	6317.6	6923.2	6720.0	5927.1	

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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	22660	125.6
95	240	252	21522	118.9
90	226	250	20375	112.2
85	213	248	19292	106.0
80	199	245	18116	99.1
75	186	243	17007	92.8
70	173	240	15888	86.4
65	160	237	14755	80.1
60	147	234	13612	73.8
55	134	231	12460	67.4
50	121	227	11290	61.2
45	109	223	10205	55.4
40	96	218	9020	49.1
35	84	213	7911	43.3
30	72	208	6798	37.6
25	60	201	5678	31.8
20	48	193	4545	26.0
15	36	182	3409	20.2
10	24	168	2266	14.0
5	12	142	1110	7.6
1	4	102	340	2.8