
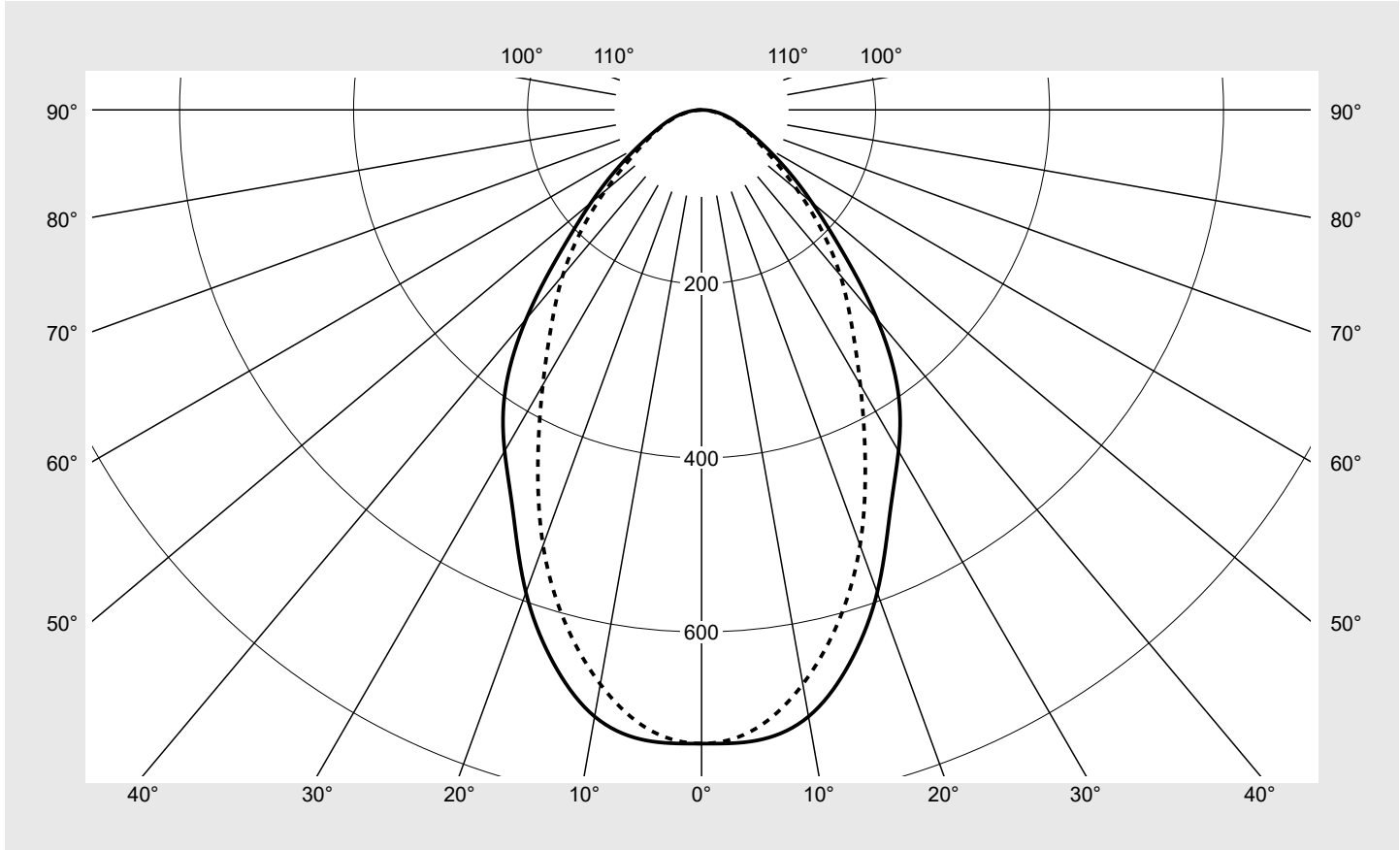


# Photometric test report

<b>Family</b> <b>Licross® 21 Recessed</b>	<b>Order number: 52TL12DV4L2M3S4</b> <b>EAN: 4058352908303</b>	<b>LP number</b> <b>59446_60</b>
	<b>Version</b> cover frosted, wide distribution, high visual comfort <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Setting</b> AC-mode <b>Rated values</b> Net luminous flux = 22710 lm Power consumption = 129.4 W Luminous efficacy = 175.5 lm/W	<b>serial documentation</b> <b>17.08.2023</b>



**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 728 cd/klm**



Classifications	
DIN 5040	A 5 0
CIE	N1=69 N2=91 N3=98 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°	728.4	728.4	728.4	728.4	728.4	728.4	728.4	4.4	4.4
5°	727.5	724.8	717.6	716.9	716.5	714.4	713.9	34.3	38.7
10°	708.0	704.6	693.5	687.1	680.0	672.5	670.2	65.5	104.1
15°	658.1	653.2	637.7	629.5	623.7	612.7	608.6	89.6	193.8
20°	590.3	582.5	562.9	551.9	546.6	538.5	532.6	104.5	298.2
25°	512.2	499.8	475.2	461.5	453.8	449.4	445.1	108.8	407.1
30°	452.8	433.7	396.2	371.8	363.4	365.0	364.9	106.8	513.9
35°	393.4	374.1	335.3	295.7	285.6	295.2	300.5	101.3	615.2
40°	313.5	300.8	276.8	238.3	224.4	239.2	248.1	91.6	706.8
45°	227.2	217.7	208.5	191.4	176.2	187.2	194.9	77.0	783.8
50°	165.8	151.3	143.3	147.8	138.9	142.4	144.5	61.5	845.3
55°	119.7	105.2	93.7	108.9	109.4	104.2	103.2	47.4	892.7
60°	84.3	73.0	63.0	78.5	83.8	75.4	76.1	35.9	928.6
65°	60.6	51.5	43.5	55.3	61.5	55.5	56.9	27.0	955.6
70°	44.8	36.9	29.5	37.3	40.5	40.0	42.0	19.5	975.1
75°	31.9	25.4	19.2	23.6	27.6	27.0	29.3	13.5	988.6
80°	20.2	15.5	11.1	12.8	15.3	15.6	17.2	8.0	996.7
85°	9.4	7.2	4.9	5.0	5.8	6.0	6.3	3.3	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	23.8	25.2	24.1	25.5	25.8	23.4	24.8	23.7	25.1	25.5
	3H	24.4	25.7	24.8	26.1	26.4	24.2	25.5	24.6	25.8	26.2
	4H	24.8	26.0	25.2	26.3	26.7	24.5	25.7	24.9	26.1	26.5
	6H	25.1	26.2	25.5	26.6	27.0	24.8	25.9	25.2	26.3	26.7
	8H	25.3	26.3	25.7	26.7	27.1	25.0	26.0	25.4	26.3	26.7
12H	25.4	26.3	25.9	26.7	27.1	25.0	25.9	25.4	26.3	26.7	
4H	2H	24.0	25.2	24.4	25.6	26.0	23.8	24.9	24.2	25.3	25.7
	3H	24.8	25.8	25.2	26.2	26.6	24.7	25.7	25.2	26.1	26.5
	4H	25.2	26.1	25.6	26.5	26.9	25.2	26.1	25.6	26.5	26.9
	6H	25.6	26.4	26.1	26.8	27.3	25.6	26.3	26.0	26.8	27.2
	8H	25.8	26.5	26.3	26.9	27.4	25.7	26.4	26.2	26.8	27.3
12H	26.0	26.5	26.4	27.0	27.5	25.8	26.4	26.3	26.8	27.3	
8H	4H	25.3	26.0	25.8	26.4	26.9	25.3	26.0	25.8	26.4	26.9
	6H	25.7	26.3	26.2	26.8	27.3	25.8	26.3	26.3	26.8	27.3
	8H	25.9	26.4	26.4	26.9	27.4	25.9	26.4	26.4	26.9	27.4
	12H	26.1	26.6	26.7	27.1	27.6	26.0	26.4	26.6	27.0	27.5
12H	4H	25.3	25.9	25.8	26.4	26.9	25.3	25.9	25.8	26.4	26.9
	6H	25.8	26.2	26.3	26.7	27.3	25.8	26.3	26.3	26.7	27.3
	8H	26.0	26.4	26.5	26.9	27.4	26.0	26.4	26.5	26.9	27.4

<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>
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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°		55927.0	53574.5	51313.5	47111.8	43367.5	46059.4	47958.1
50°		44896.8	40958.2	38794.0	40001.7	37615.2	38546.2	39108.3
55°		36325.5	31930.4	28433.4	33044.5	33204.4	31610.9	31314.8
60°		29355.2	25397.3	21919.2	27316.7	29155.5	26243.7	26497.1
65°		24944.0	21205.5	17901.4	22774.8	25333.1	22870.7	23438.1
70°		22778.4	18790.3	14989.0	19000.0	20630.2	20327.4	21386.3
75°		21446.0	17062.8	12918.3	15877.4	18552.8	18160.8	19706.6
80°		20270.7	15566.5	11142.0	12818.6	15303.0	15616.6	17240.1
85°		18794.8	14372.2	9697.9	10053.3	11602.8	11944.2	12577.1

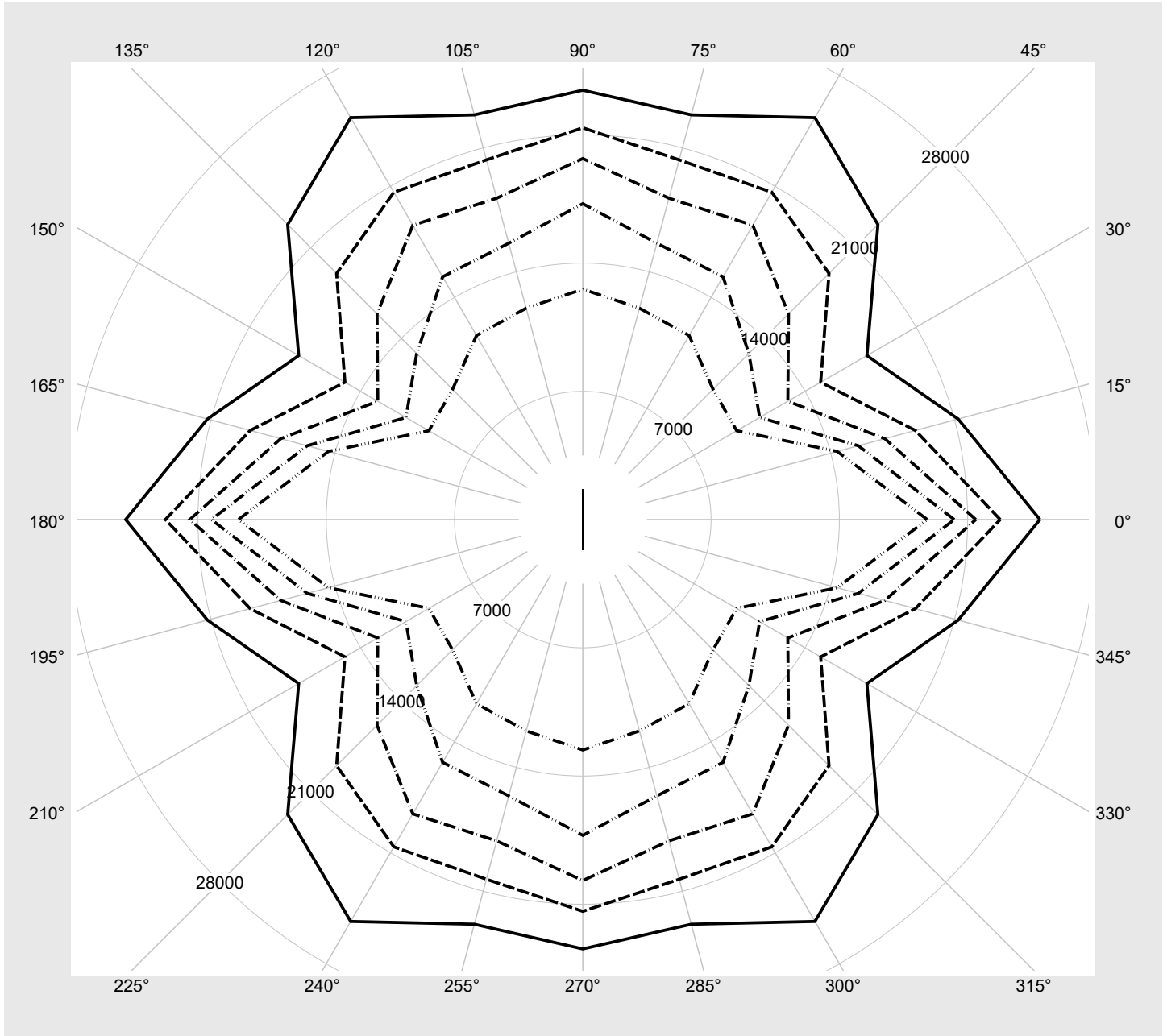
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$ 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	22710	129.4
95	240	252	21570	122.7
90	226	250	20420	116.0
85	213	248	19335	109.8
80	199	245	18156	102.9
75	186	243	17045	96.6
70	173	240	15923	90.2
65	160	237	14788	83.9
60	147	234	13642	77.6
55	134	231	12488	71.2
50	121	227	11315	65.0
45	109	223	10228	59.2
40	96	218	9040	52.9
35	84	213	7929	47.1
30	72	208	6813	41.4
25	60	201	5691	35.6
20	48	193	4555	29.8
15	36	182	3416	24.0
10	24	168	2271	17.8
5	12	142	1113	11.4
1	4	102	340	6.6