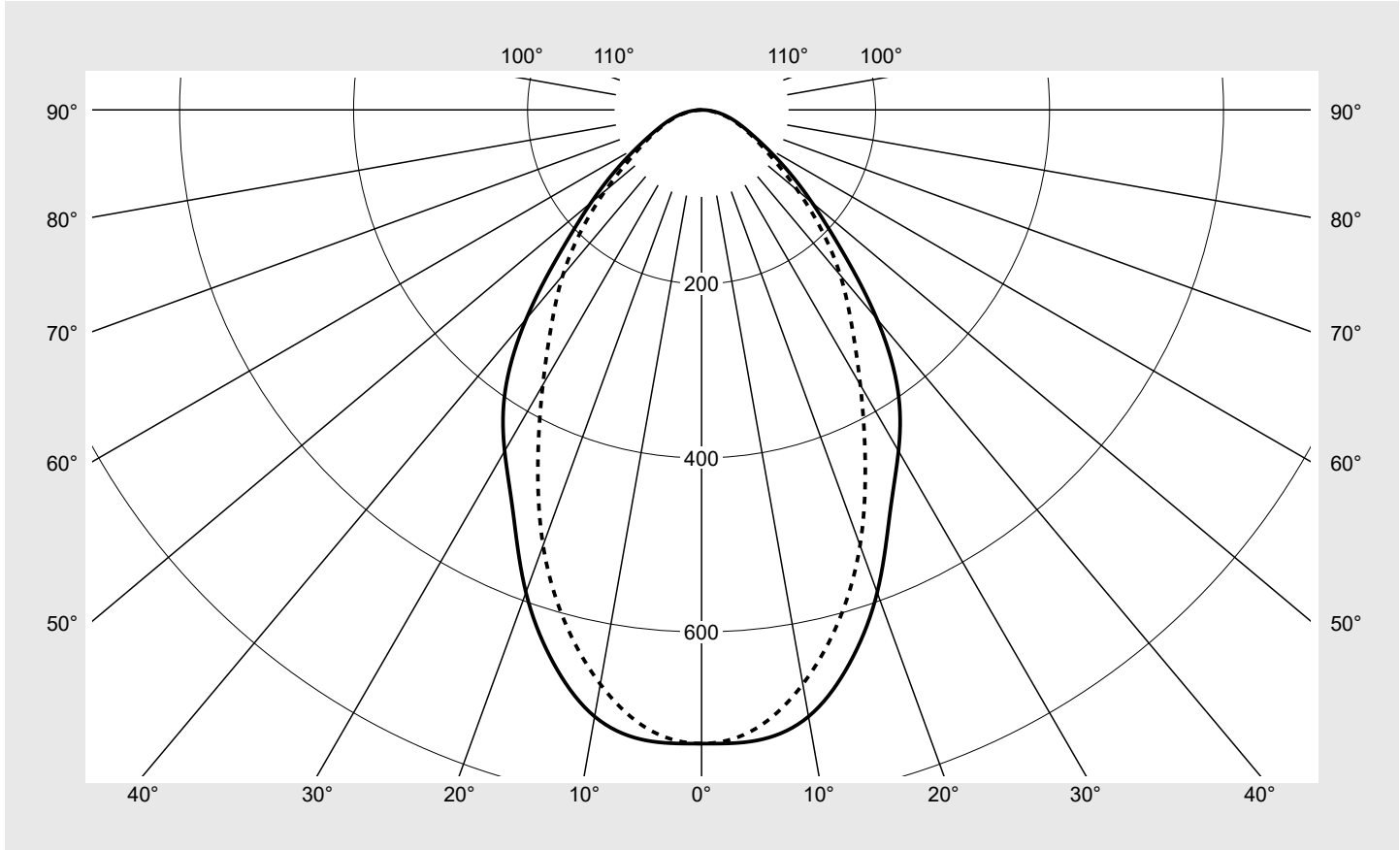


# Photometric test report

<b>Family</b> <b>Licross® 21 Recessed</b>	<b>Order number: 52TL12DV4L2M</b> <b>EAN: 4058352891056</b>	<b>LP number</b> <b>59446_21</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>Rated values</b> Net luminous flux = 22710 lm Power consumption = 125.6 W Luminous efficacy = 180.8 lm/W	<b>serial documentation</b> <b>02.08.2023</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 $\gamma$	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°	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

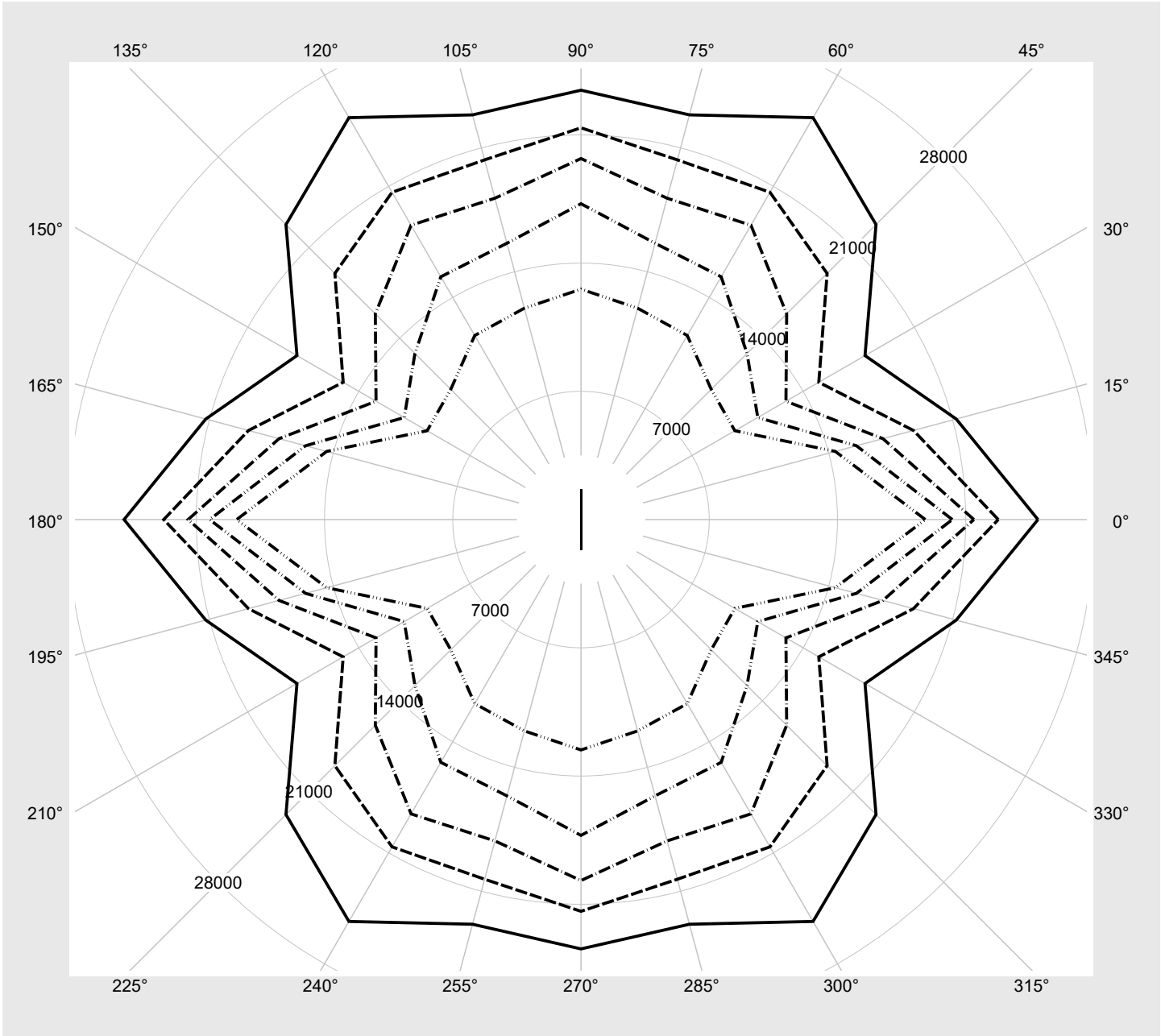
**Photometric test report**

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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	125.6
95	240	252	21570	118.9
90	226	250	20420	112.2
85	213	248	19335	106.0
80	199	245	18156	99.1
75	186	243	17045	92.8
70	173	240	15923	86.4
65	160	237	14788	80.1
60	147	234	13642	73.8
55	134	231	12488	67.4
50	121	227	11315	61.2
45	109	223	10228	55.4
40	96	218	9040	49.1
35	84	213	7929	43.3
30	72	208	6813	37.6
25	60	201	5691	31.8
20	48	193	4555	26.0
15	36	182	3416	20.2
10	24	168	2271	14.0
5	12	142	1113	7.6
1	4	102	340	2.8