

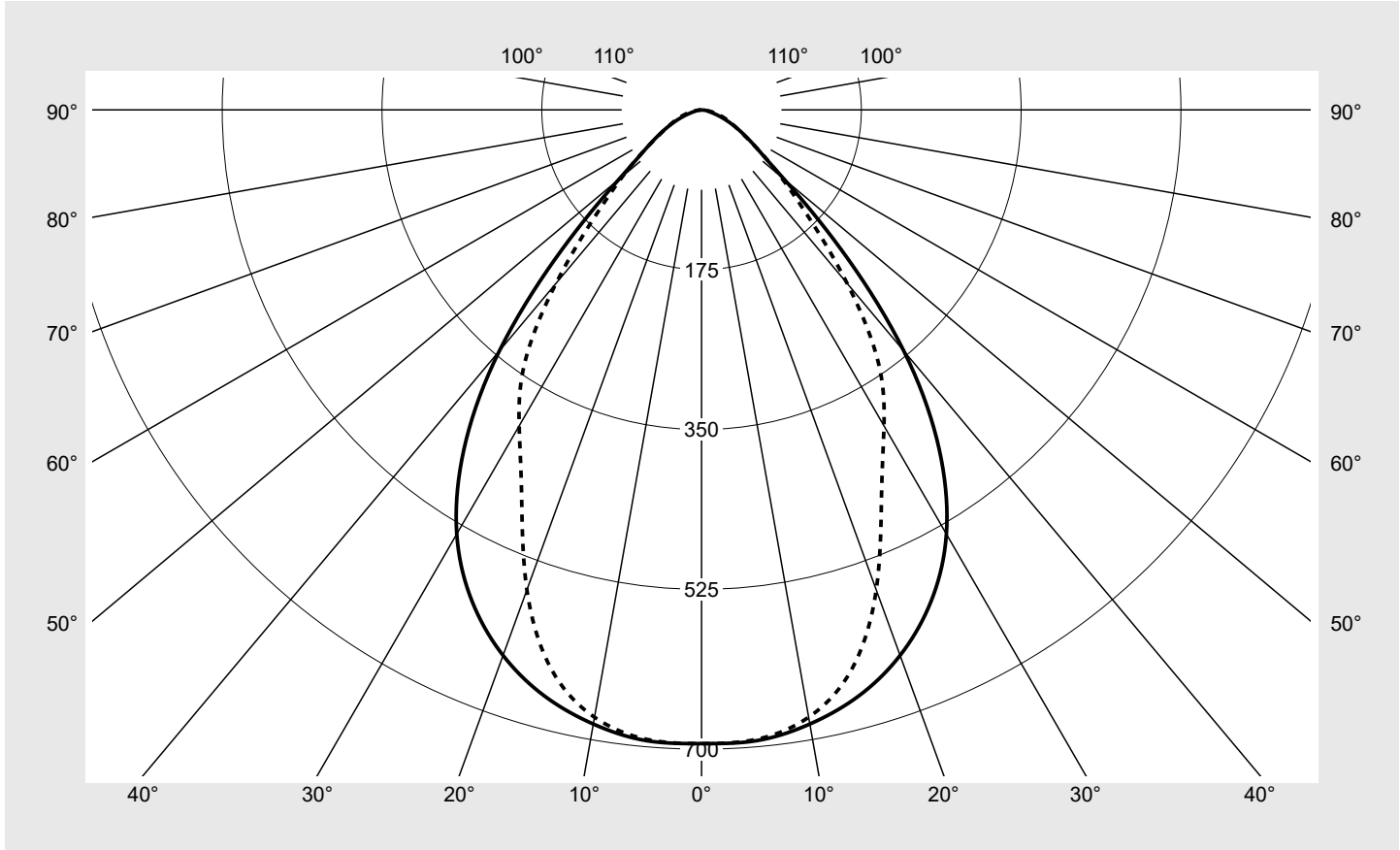
# Photometric test report

<b>Family</b> <b>Licross® 21 Recessed</b>	<b>Order number: 52TL18DV4L2M</b> <b>EAN: 4058352891421</b>	<b>LP number</b> <b>59104_147</b>
	<b>Version</b> cover frosted, medium distribution, high visual comfort <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 22480 lm Power consumption = 125.6 W Luminous efficacy = 179 lm/W	<b>serial documentation</b> <b>02.08.2023</b>





**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 694 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=75 N2=94 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°	694.0	694.0	694.0	694.0	694.0	694.0	694.0	4.2	4.2
5°	693.3	691.2	687.0	689.0	691.7	691.4	691.9	33.0	37.1
10°	682.9	681.6	676.2	676.6	677.1	675.1	675.3	64.5	101.6
15°	664.5	663.4	655.7	650.8	644.2	637.0	634.6	92.2	193.9
20°	635.7	634.6	621.8	603.7	582.0	564.8	559.4	112.6	306.5
25°	594.3	592.8	570.2	532.2	493.8	471.5	466.3	123.2	429.7
30°	536.3	532.4	496.5	443.5	408.6	399.3	399.5	125.5	555.2
35°	453.8	445.6	398.8	354.7	341.6	338.2	337.4	119.2	674.4
40°	344.5	330.9	285.8	265.8	259.9	251.4	248.0	99.2	773.7
45°	216.1	203.7	174.1	171.5	169.1	165.7	165.2	69.4	843.1
50°	117.9	113.3	108.5	113.4	112.2	111.3	112.1	47.2	890.2
55°	75.1	72.3	72.7	81.4	80.0	76.7	75.3	34.3	924.5
60°	52.8	51.4	52.2	58.3	58.9	53.9	51.6	25.9	950.4
65°	36.0	35.7	38.4	42.9	44.1	39.6	37.5	19.7	970.1
70°	22.2	22.5	25.4	30.3	32.0	29.3	27.4	14.1	984.2
75°	11.8	12.0	13.9	18.9	21.4	20.1	18.3	8.9	993.1
80°	6.2	6.2	6.9	9.4	11.9	11.6	10.1	4.9	998.0
85°	3.0	2.9	3.0	3.8	4.5	4.6	3.6	2.0	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	22.9	24.3	23.2	24.6	24.9	22.2	23.6	22.6	24.0	24.3
	3H	23.2	24.4	23.6	24.7	25.1	22.8	24.0	23.2	24.4	24.7
	4H	23.2	24.4	23.6	24.7	25.1	23.0	24.2	23.4	24.5	24.9
	6H	23.2	24.3	23.7	24.6	25.0	23.2	24.2	23.6	24.6	25.0
	8H	23.3	24.2	23.7	24.6	25.0	23.3	24.2	23.7	24.6	25.0
	12H	23.3	24.1	23.7	24.5	25.0	23.3	24.2	23.7	24.6	25.0
4H	2H	23.1	24.2	23.5	24.6	24.9	22.5	23.7	22.9	24.0	24.4
	3H	23.5	24.4	23.9	24.8	25.2	23.3	24.2	23.7	24.6	25.0
	4H	23.6	24.4	24.0	24.8	25.2	23.6	24.5	24.0	24.9	25.3
	6H	23.6	24.3	24.1	24.7	25.2	23.9	24.6	24.3	25.0	25.5
	8H	23.6	24.3	24.1	24.7	25.2	23.9	24.6	24.4	25.0	25.5
	12H	23.6	24.2	24.1	24.6	25.1	24.0	24.6	24.5	25.0	25.5
8H	4H	23.6	24.3	24.1	24.7	25.2	23.7	24.4	24.2	24.8	25.3
	6H	23.7	24.2	24.2	24.7	25.2	24.0	24.6	24.5	25.1	25.6
	8H	23.7	24.2	24.2	24.7	25.2	24.2	24.6	24.7	25.1	25.6
	12H	23.8	24.1	24.3	24.6	25.2	24.3	24.6	24.8	25.1	25.7
12H	4H	23.7	24.2	24.2	24.7	25.2	23.7	24.3	24.2	24.7	25.2
	6H	23.7	24.2	24.2	24.7	25.2	24.1	24.5	24.6	25.0	25.5
	8H	23.8	24.1	24.3	24.6	25.2	24.2	24.6	24.7	25.1	25.6

<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	$\gamma$	0° 180°	15°	30°	45°	60°	75°	90° 270°
			165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°	
Luminance in cd/m²								
45°		52646.0	49627.7	42402.1	41774.5	41186.7	40366.2	40256.6
50°		31601.6	30361.4	29082.5	30395.1	30081.6	29825.7	30047.6
55°		22564.2	21704.3	21839.5	24446.6	24035.5	23045.6	22607.7
60°		18203.8	17699.4	17974.0	20088.7	20296.4	18585.9	17760.8
65°		14676.6	14541.2	15666.6	17476.0	17977.3	16129.3	15301.8
70°		11190.7	11339.8	12774.7	15255.2	16139.7	14766.2	13788.6
75°		7831.7	7980.1	9260.7	12589.8	14215.1	13403.8	12170.5
80°		6109.8	6145.5	6826.0	9304.1	11793.0	11532.1	10015.3
85°		5965.0	5804.9	6000.6	7520.5	8923.8	9155.0	7176.6

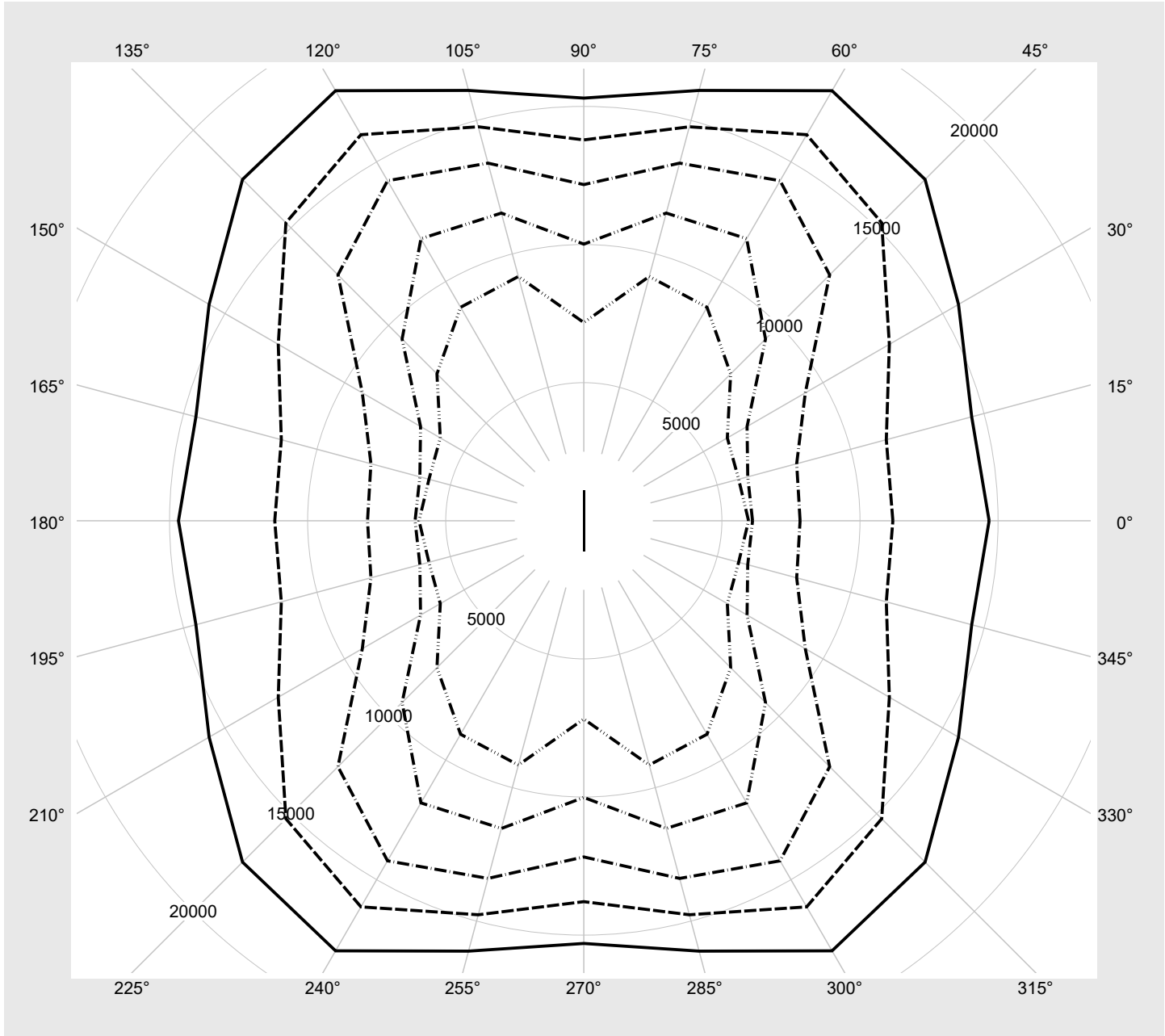
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  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	22480	125.6
95	240	252	21351	118.9
90	226	250	20213	112.2
85	213	248	19139	106.0
80	199	245	17972	99.1
75	186	243	16872	92.8
70	173	240	15761	86.4
65	160	237	14638	80.1
60	147	234	13504	73.8
55	134	231	12361	67.4
50	121	227	11201	61.2
45	109	223	10124	55.4
40	96	218	8949	49.1
35	84	213	7848	43.3
30	72	208	6744	37.6
25	60	201	5633	31.8
20	48	193	4509	26.0
15	36	182	3382	20.2
10	24	168	2248	14.0
5	12	142	1101	7.6
1	4	102	337	2.8