

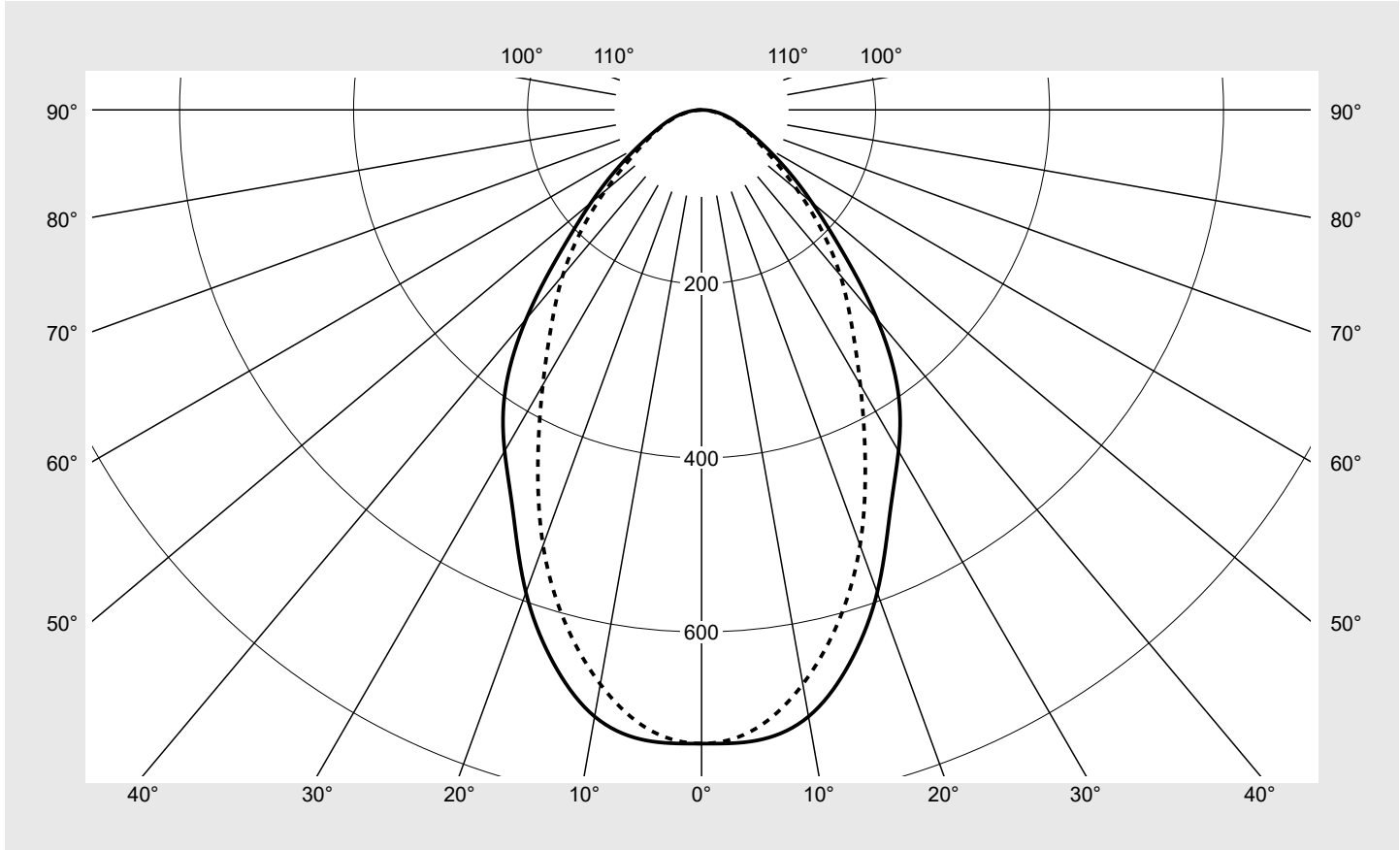


# Photometric test report

<b>Family</b> <b>Licross® 21 Recessed</b>	<b>Order number: 52TL12DN4FXM3C</b> <b>EAN: 4058352908143</b>	<b>LP number</b> <b>59446_52</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 = 15000 lm Power consumption = 88.4 W Luminous efficacy = 169.7 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 $\gamma$	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	23.7	25.2	24.1	25.5	25.8	23.3	24.8	23.7	25.1	25.4
	3H	24.4	25.7	24.8	26.0	26.4	24.1	25.4	24.5	25.8	26.1
	4H	24.8	26.0	25.2	26.3	26.7	24.5	25.7	24.9	26.1	26.4
	6H	25.1	26.2	25.5	26.5	26.9	24.8	25.9	25.2	26.3	26.6
	8H	25.3	26.3	25.7	26.6	27.0	24.9	25.9	25.4	26.3	26.7
	12H	25.4	26.3	25.8	26.7	27.1	25.0	25.9	25.4	26.3	26.7
4H	2H	24.0	25.2	24.4	25.6	25.9	23.7	24.9	24.1	25.3	25.6
	3H	24.8	25.8	25.2	26.2	26.6	24.7	25.7	25.1	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	26.3	26.0	26.8	27.2	25.5	26.3	26.0	26.7	27.2
	8H	25.7	26.4	26.2	26.9	27.4	25.7	26.3	26.1	26.8	27.3
	12H	25.9	26.5	26.4	27.0	27.5	25.7	26.3	26.2	26.8	27.3
8H	4H	25.3	26.0	25.7	26.4	26.9	25.3	26.0	25.7	26.4	26.9
	6H	25.7	26.3	26.2	26.7	27.3	25.7	26.3	26.2	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	26.5	26.6	27.0	27.6	26.0	26.4	26.5	26.9	27.5
12H	4H	25.3	25.9	25.8	26.4	26.8	25.3	25.9	25.8	26.3	26.8
	6H	25.7	26.2	26.2	26.7	27.2	25.8	26.2	26.3	26.7	27.2
	8H	25.9	26.4	26.5	26.9	27.4	25.9	26.3	26.4	26.8	27.4

<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>
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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°	45°	55409.9	53079.1	50839.0	46676.1	42966.5	45633.5	47514.6	
50°	50°	44481.6	40579.4	38435.2	39631.8	37267.4	38189.8	38746.6	
55°	55°	35989.6	31635.1	28170.5	32738.9	32897.3	31318.6	31025.2	
60°	60°	29083.8	25162.4	21716.6	27064.1	28885.9	26001.0	26252.1	
65°	65°	24713.3	21009.4	17735.9	22564.2	25098.9	22659.2	23221.4	
70°	70°	22567.7	18616.6	14850.4	18824.3	20439.4	20139.5	21188.5	
75°	75°	21247.7	16905.0	12798.9	15730.6	18381.2	17992.9	19524.4	
80°	80°	20083.2	15422.6	11039.0	12700.1	15161.5	15472.2	17080.7	
85°	85°	18621.0	14239.3	9608.2	9960.4	11495.5	11833.8	12460.8	

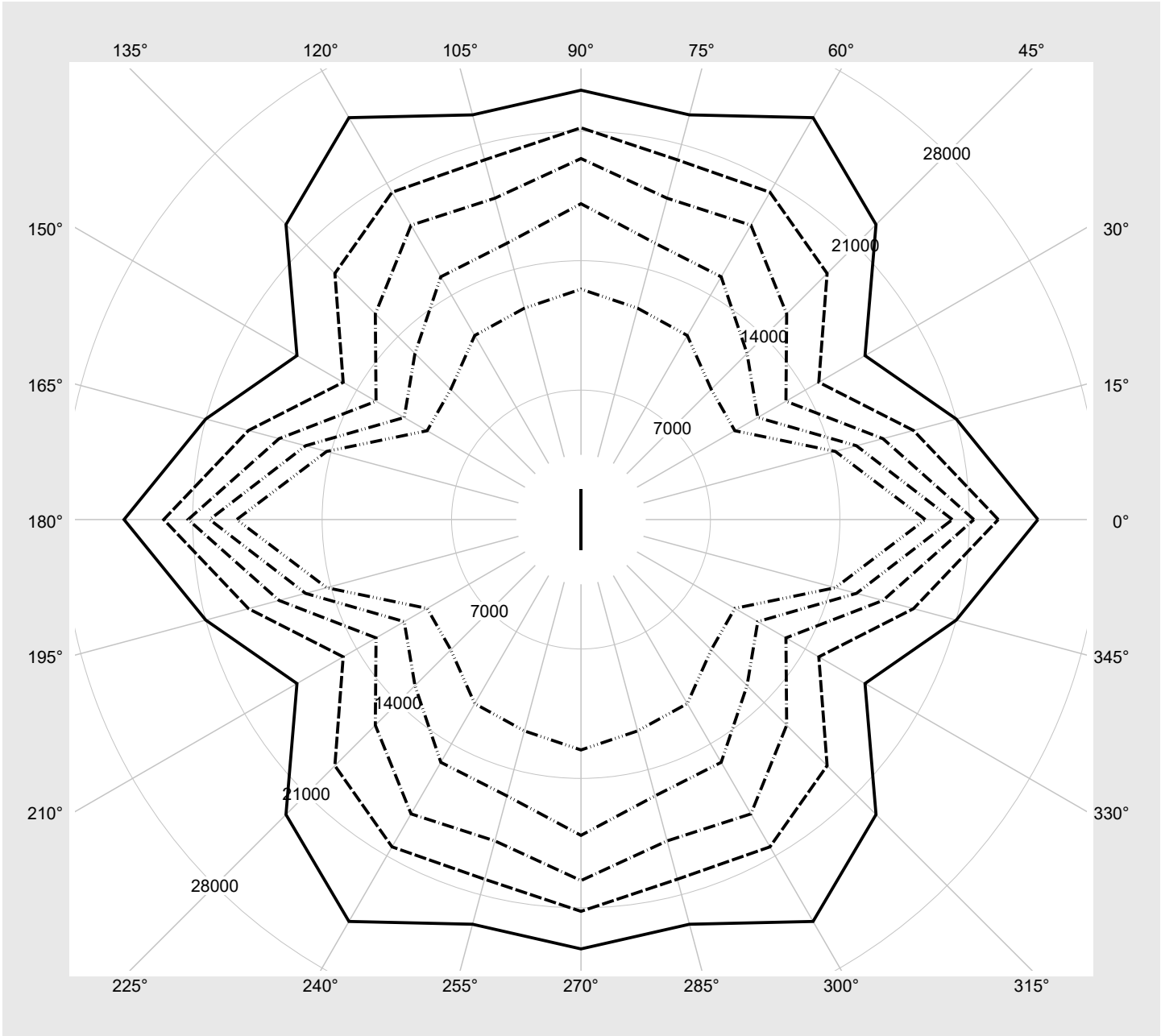
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  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	15000	88.4
95	240	252	14247	83.8
90	226	250	13483	79.0
85	213	248	12769	74.8
80	199	245	11989	70.1
75	186	243	11253	65.8
70	173	240	10512	61.6
65	160	237	9761	57.4
60	147	234	9006	53.1
55	134	231	8243	48.9
50	122	227	7528	45.0
45	109	223	6751	40.9
40	97	219	6028	37.0
35	84	213	5233	32.9
30	72	208	4497	29.2
25	60	201	3756	25.4
20	48	193	3006	21.6
15	36	182	2255	17.8
10	24	168	1498	14.0
5	12	142	734	10.3
1	4	102	224	7.9