
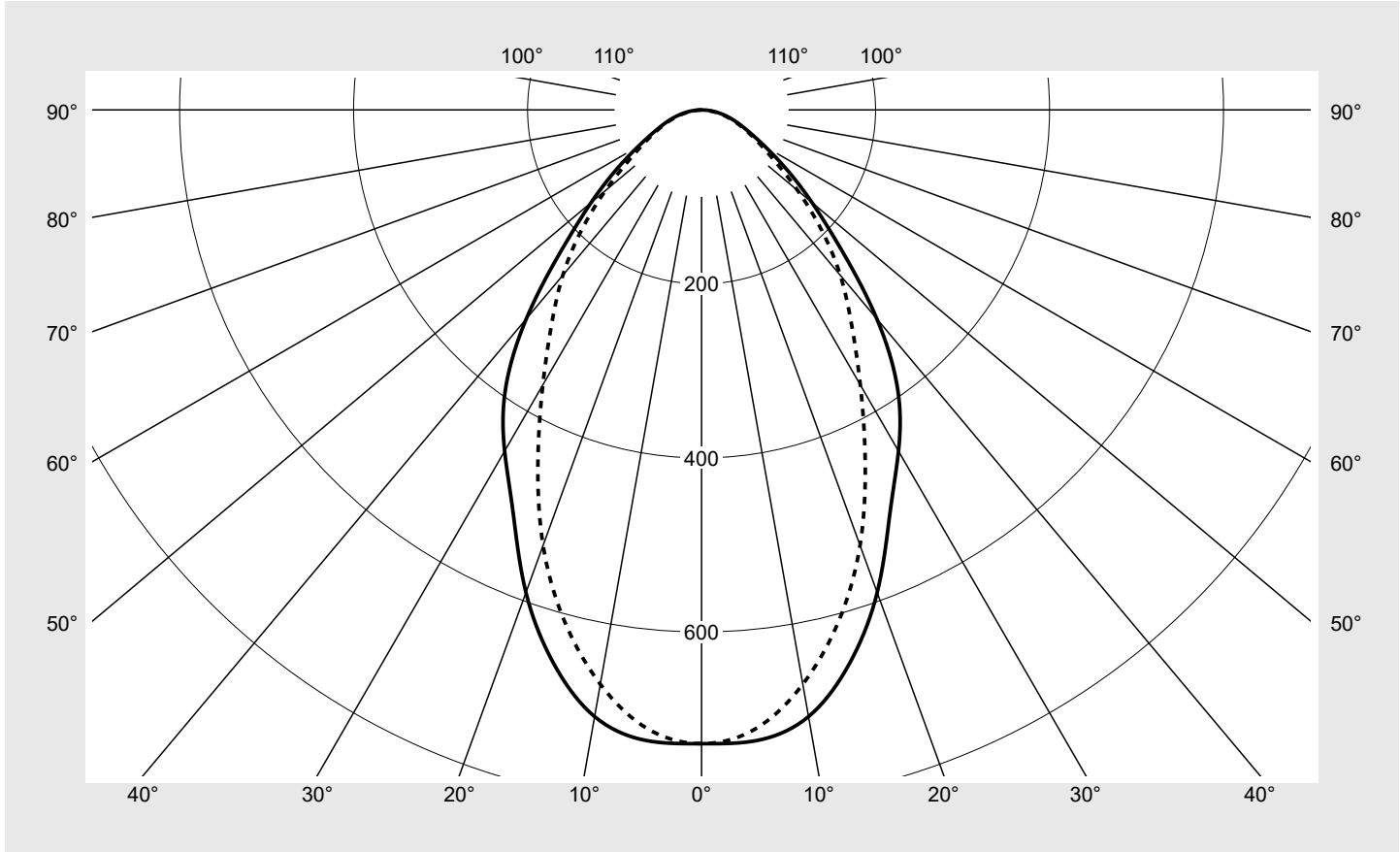


# Photometric test report

<b>Family</b> <b>Licross® 21 Recessed</b>	<b>Order number: 52TL12MN4FXM</b> <b>EAN: 4058352891124</b>	<b>LP number</b> <b>59446_74</b>
	<b>Version</b> cover frosted, wide distribution, high visual comfort <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG Multilumen <b>Rated values</b> Net luminous flux = 15100 lm Power consumption = 83.1 W Luminous efficacy = 181.7 lm/W	<b>serial documentation</b> <b>24.08.2023</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	25.4
	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	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	26.0	23.7	24.9	24.1	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	26.2	26.9	27.4	25.7	26.4	26.1	26.8	27.3
12H	25.9	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	25.7	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	26.7	27.0	27.6	26.0	26.4	26.5	26.9	27.5
12H	4H	25.3	25.9	25.8	26.4	26.9	25.3	25.9	25.8	26.4	26.9
	6H	25.8	26.2	26.3	26.7	27.2	25.8	26.2	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 = 1500</b>
			<b>B = 58</b>

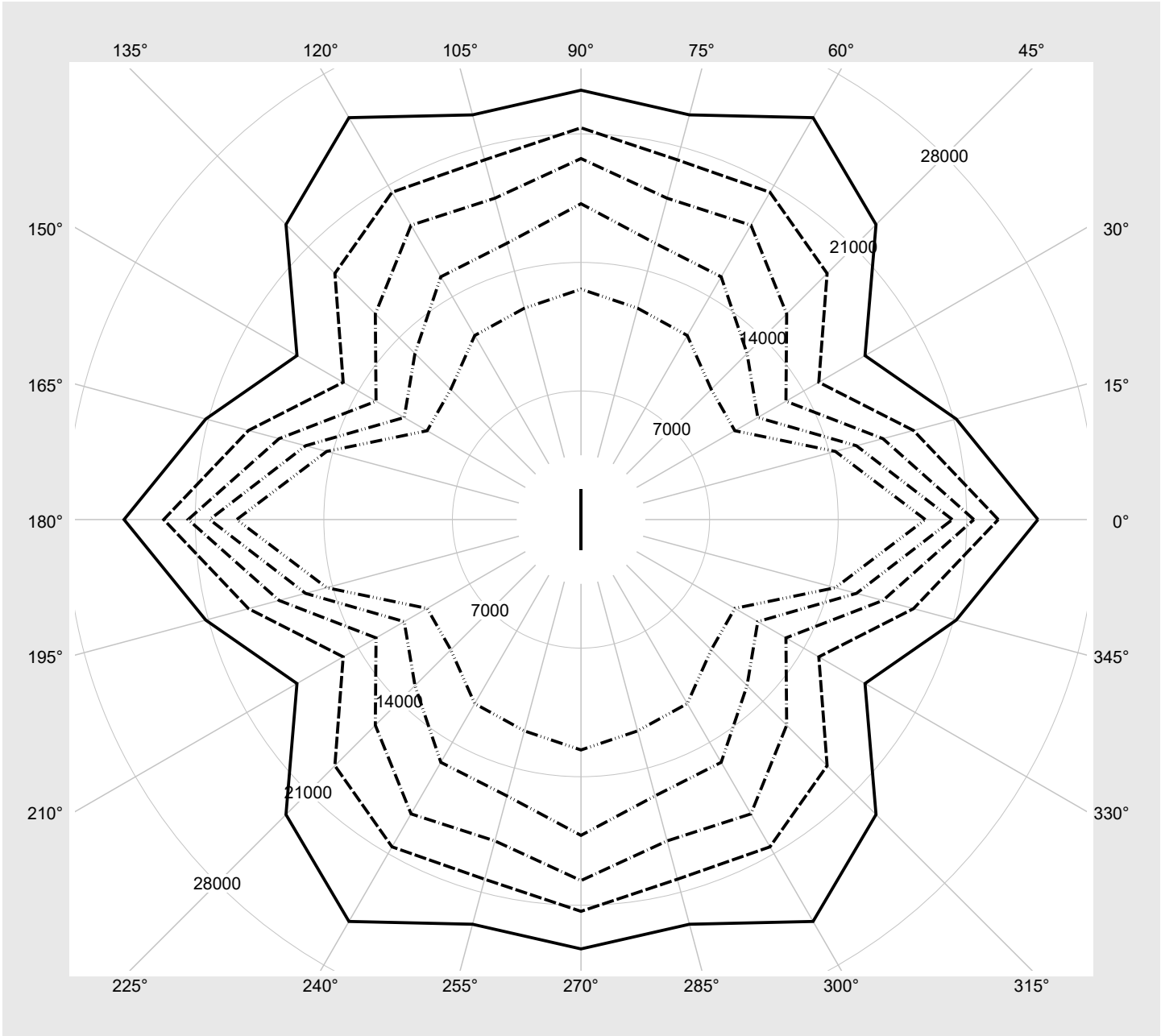
C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		55779.3	53433.0	51178.0	46987.3	43252.9	45937.7	47831.4
50°		44778.2	40850.0	38691.5	39896.0	37515.8	38444.4	39005.0
55°		36229.5	31846.0	28358.3	32957.2	33116.7	31527.4	31232.1
60°		29277.7	25330.2	21861.3	27244.6	29078.4	26174.4	26427.1
65°		24878.1	21149.5	17854.1	22714.6	25266.2	22810.3	23376.2
70°		22718.2	18740.7	14949.4	18949.8	20575.7	20273.7	21329.8
75°		21389.4	17017.7	12884.2	15835.5	18503.8	18112.8	19654.5
80°		20217.1	15525.4	11112.6	12784.7	15262.5	15575.4	17194.6
85°		18745.2	14334.2	9672.3	10026.8	11572.1	11912.6	12543.9

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

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°



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Family <b>Licross® 21 Recessed</b>	Order number: <b>52TL12MN4FXM</b> EAN: <b>4058352891124</b>	LP number <b>59446_74</b>
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<b>Multilumen Table</b>	environmental temperature: 25°C	<b>sITeco</b>
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	15100	83.1
2	A	C	F	14186	77.5
3	A	D	E	13105	71.1
4	A	D	F	12160	65.4
5	B	C	E	11120	59.4
6	B	C	F	10144	53.9
7	B	D	E	9083	47.9
8	B	D	F	8075	42.4