

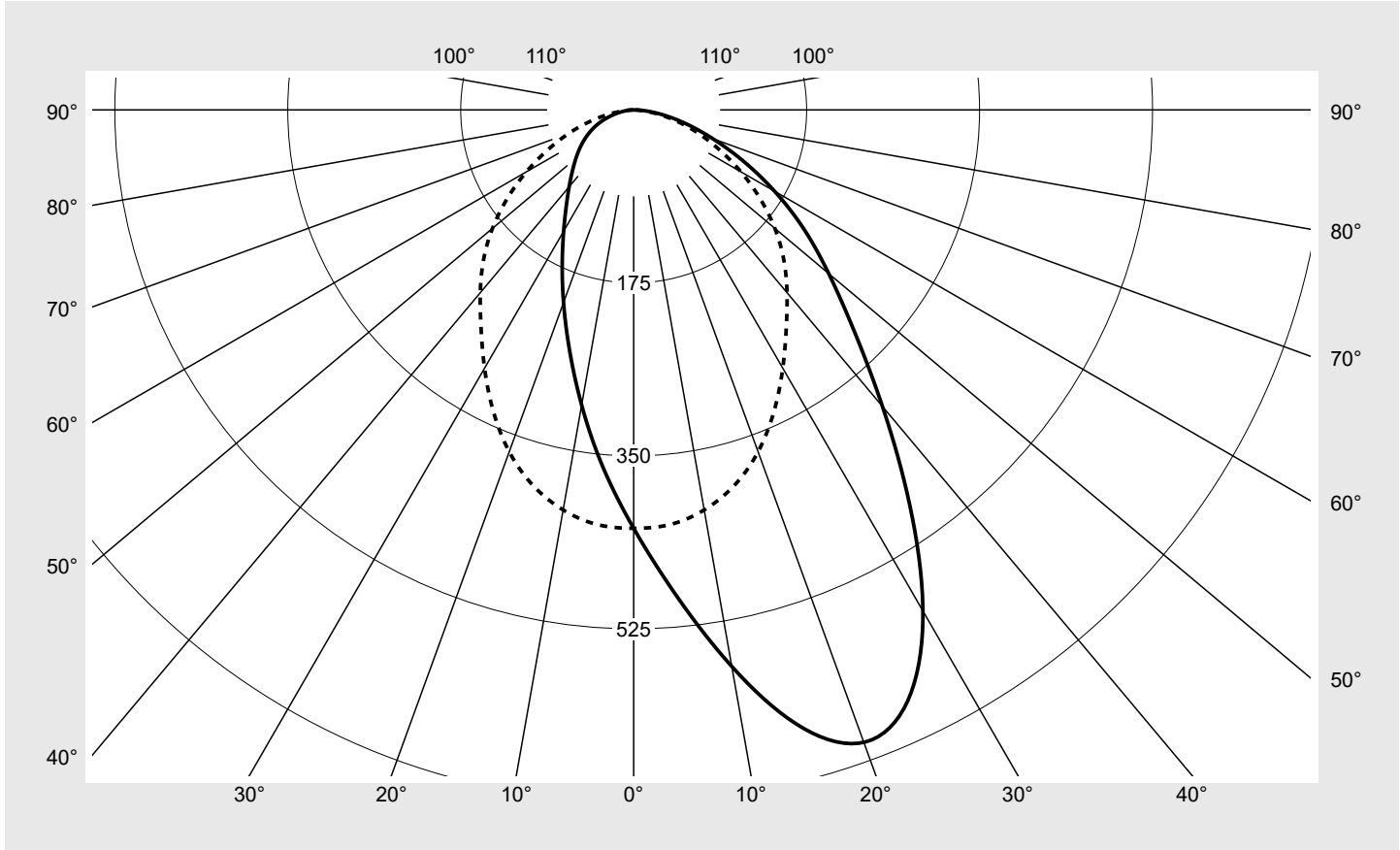


# Photometric test report

<b>Family</b> <b>Licross® 21 Recessed</b>	<b>Order number: 52TL147N48XG</b> <b>EAN: 4058352891155</b>	<b>LP number</b> <b>58683_281</b>
	<b>Version</b> cover frosted, asymmetric distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG <b>Rated values</b> Net luminous flux = 8120 lm Power consumption = 47.9 W Luminous efficacy = 169.5 lm/W	<b>serial documentation</b> <b>04.08.2023</b>
		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 681 cd/klm**



Classifications	
DIN 5040	A 4 0
CIE	N1=56 N2=84 N3=97 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	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°
$\gamma$	Luminous intensity in cd/klm						
0°	423.3	423.3	423.3	423.3	423.3	423.3	423.3
5°	492.9	491.4	480.7	469.8	456.1	438.7	421.2
10°	571.7	566.6	544.9	518.0	484.6	447.0	411.0
15°	644.7	637.1	605.9	562.5	507.2	447.4	393.4
20°	680.9	674.8	644.8	594.0	519.7	438.2	368.1
25°	657.9	657.6	642.1	600.0	518.2	419.3	336.2
30°	585.4	591.2	594.0	574.0	501.7	394.4	301.7
35°	486.6	496.5	513.6	518.9	472.6	367.8	269.2
40°	391.6	400.9	423.7	447.6	435.3	342.4	241.4
45°	315.0	320.7	340.1	373.0	389.0	312.9	214.9
50°	257.7	259.4	273.6	305.9	334.9	275.1	186.5
55°	210.4	209.0	219.8	247.0	276.4	230.5	156.0
60°	164.7	163.2	172.4	194.6	218.3	183.7	125.4
65°	122.2	121.6	130.0	147.7	165.1	139.3	96.1
70°	85.2	85.7	92.4	106.6	118.3	100.1	70.2
75°	55.7	56.1	61.0	71.1	77.9	65.9	46.5
80°	31.6	31.9	35.4	40.3	43.4	36.3	25.7
85°	13.1	12.9	14.6	16.5	16.2	13.2	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C-planes	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°	Phi-zone	Total Phi-zone
$\gamma$	Luminous intensity in cd/klm						Luminous flux in lm/klm	
0°	423.3	423.3	423.3	423.3	423.3	423.3	2.5	2.5
5°	404.2	389.5	375.7	365.6	362.1	361.8	20.2	22.8
10°	378.5	351.6	328.9	312.6	305.3	303.2	40.3	63.1
15°	347.6	311.7	283.3	263.5	254.2	251.1	59.8	123.0
20°	312.8	271.7	241.2	220.7	211.0	207.4	77.2	200.1
25°	275.0	232.7	202.9	183.7	174.4	171.0	89.9	290.0
30°	237.7	196.9	169.7	152.6	144.6	141.7	96.4	386.5
35°	204.1	165.0	141.0	127.0	121.0	118.9	96.9	483.4
40°	176.0	138.8	117.2	106.8	102.8	101.6	93.4	576.7
45°	151.3	116.9	98.0	90.5	88.3	87.8	87.1	663.9
50°	128.6	98.3	82.7	77.4	76.2	76.3	79.3	743.1
55°	107.1	82.4	69.7	65.9	65.5	66.0	69.9	813.0
60°	87.0	68.0	58.3	55.3	55.4	56.0	59.0	872.0
65°	68.6	55.0	47.7	45.3	45.4	45.9	47.4	919.5
70°	51.6	42.4	37.2	35.1	35.2	35.4	35.8	955.3
75°	35.3	29.8	26.5	24.5	24.4	24.5	24.7	980.0
80°	20.2	17.6	15.6	14.5	14.4	14.5	14.3	994.3
85°	7.8	7.1	6.7	6.2	6.2	6.3	5.7	1000.0
90°	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	1000.0

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UGR-Table		Standard room									
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	25.7	27.3	26.0	27.6	27.9	24.3	25.9	24.6	26.2	26.5
	3H	26.6	28.1	27.0	28.4	28.8	25.4	26.8	25.8	27.2	27.5
	4H	27.0	28.3	27.4	28.7	29.1	25.8	27.2	26.2	27.5	27.9
	6H	27.3	28.5	27.7	28.9	29.3	26.1	27.3	26.5	27.7	28.1
	8H	27.3	28.5	27.8	28.9	29.3	26.2	27.3	26.6	27.7	28.1
	12H	27.4	28.5	27.9	28.9	29.3	26.2	27.3	26.7	27.7	28.1
4H	2H	26.4	27.8	26.8	28.1	28.5	24.9	26.2	25.3	26.6	27.0
	3H	27.5	28.7	28.0	29.1	29.5	26.3	27.4	26.7	27.8	28.2
	4H	28.0	29.0	28.4	29.4	29.9	26.8	27.9	27.3	28.3	28.7
	6H	28.3	29.2	28.8	29.6	30.1	27.2	28.1	27.7	28.5	29.0
	8H	28.4	29.2	28.9	29.7	30.2	27.3	28.1	27.8	28.6	29.0
	12H	28.5	29.2	29.0	29.7	30.2	27.4	28.1	27.9	28.6	29.1
8H	4H	28.3	29.1	28.8	29.6	30.0	27.1	27.9	27.5	28.3	28.8
	6H	28.8	29.4	29.2	29.9	30.4	27.6	28.3	28.1	28.7	29.2
	8H	28.9	29.5	29.4	30.0	30.5	27.8	28.3	28.3	28.8	29.3
	12H	29.0	29.5	29.5	30.0	30.6	27.9	28.4	28.4	28.9	29.4
12H	4H	28.4	29.1	28.9	29.5	30.0	27.1	27.8	27.6	28.3	28.8
	6H	28.8	29.4	29.3	29.9	30.4	27.6	28.2	28.1	28.7	29.2
	8H	29.0	29.5	29.5	30.0	30.5	27.8	28.3	28.4	28.8	29.4

Luminance table		Max. for $\gamma \geq 65^\circ$											
		Photometric dimensions in mm: L = 1500 B = 58											
C-planes	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°
$\gamma$	Luminance in cd/m <sup>2</sup>												
45°	41573.0	42324.3	44895.4	49236.4	51340.1	41305.8	28366.4	19976.7	15427.1	12929.4	11949.4	11657.9	11583.6
50°	37412.8	37660.8	39727.0	44410.4	48634.7	39938.2	27081.6	18678.8	14279.1	12002.6	11232.2	11069.5	11080.6
55°	34229.2	34013.1	35762.6	40188.0	44983.8	37502.0	25378.6	17433.7	13404.5	11341.2	10727.8	10659.9	10746.3
60°	30742.3	30470.9	32182.6	36326.5	40753.6	34284.1	23399.2	16234.2	12688.9	10875.6	10331.3	10334.8	10460.1
65°	26985.1	26845.5	28703.1	32614.0	36455.2	30756.5	21227.9	15147.8	12156.0	10528.6	10009.2	10024.4	10146.1
70°	23244.4	23398.0	25220.6	29098.6	32274.2	27321.0	19155.7	14076.4	11565.3	10160.5	9565.0	9602.9	9647.7
75°	20093.0	20230.0	21983.6	25633.0	28089.2	23771.9	16783.6	12733.2	10762.8	9540.4	8819.5	8798.9	8821.7
80°	17010.3	17159.8	19012.5	21677.9	23302.7	19505.3	13828.4	10864.2	9464.0	8376.2	7815.0	7760.7	7804.8
85°	14020.0	13863.6	15590.9	17629.9	17332.2	14107.8	9780.3	8364.6	7633.2	7124.6	6691.9	6657.7	6718.7

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**Luminance values in cd/m<sup>2</sup>**     γ 65°   γ 70°   γ 75°   γ 80°   γ 85°     **siteco**

