

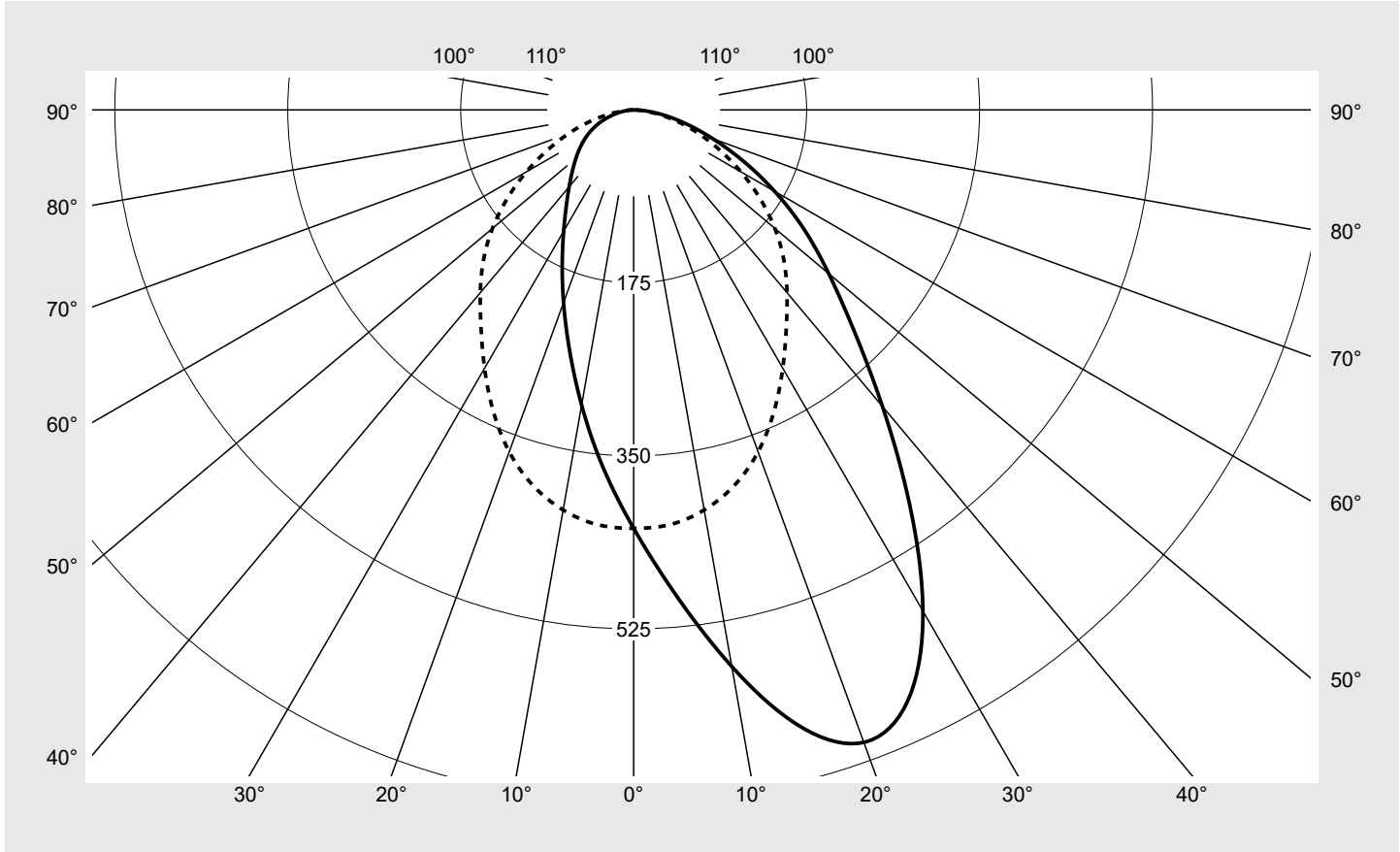


Photometric test report

Family Licross® 21 Recessed	Order number: 52TE147N48XG EAN: 4058352889749	LP number 58683_282
	Version cover frosted, asymmetric distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Rated values Net luminous flux = 8120 lm Power consumption = 47.9 W Luminous efficacy = 169.5 lm/W	serial documentation 04.08.2023
		

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	
η_{LB}	100.0%
ϕ_u	100.0%
ϕ_o	0.0%

Measurement conditions
DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
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C-planes	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°
γ	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
γ	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	siteco
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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	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°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°
	345°	330°	315°	300°	285°	270°	255°	240°	225°	210°	195°		
γ	Luminance in cd/m²												
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/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**

