

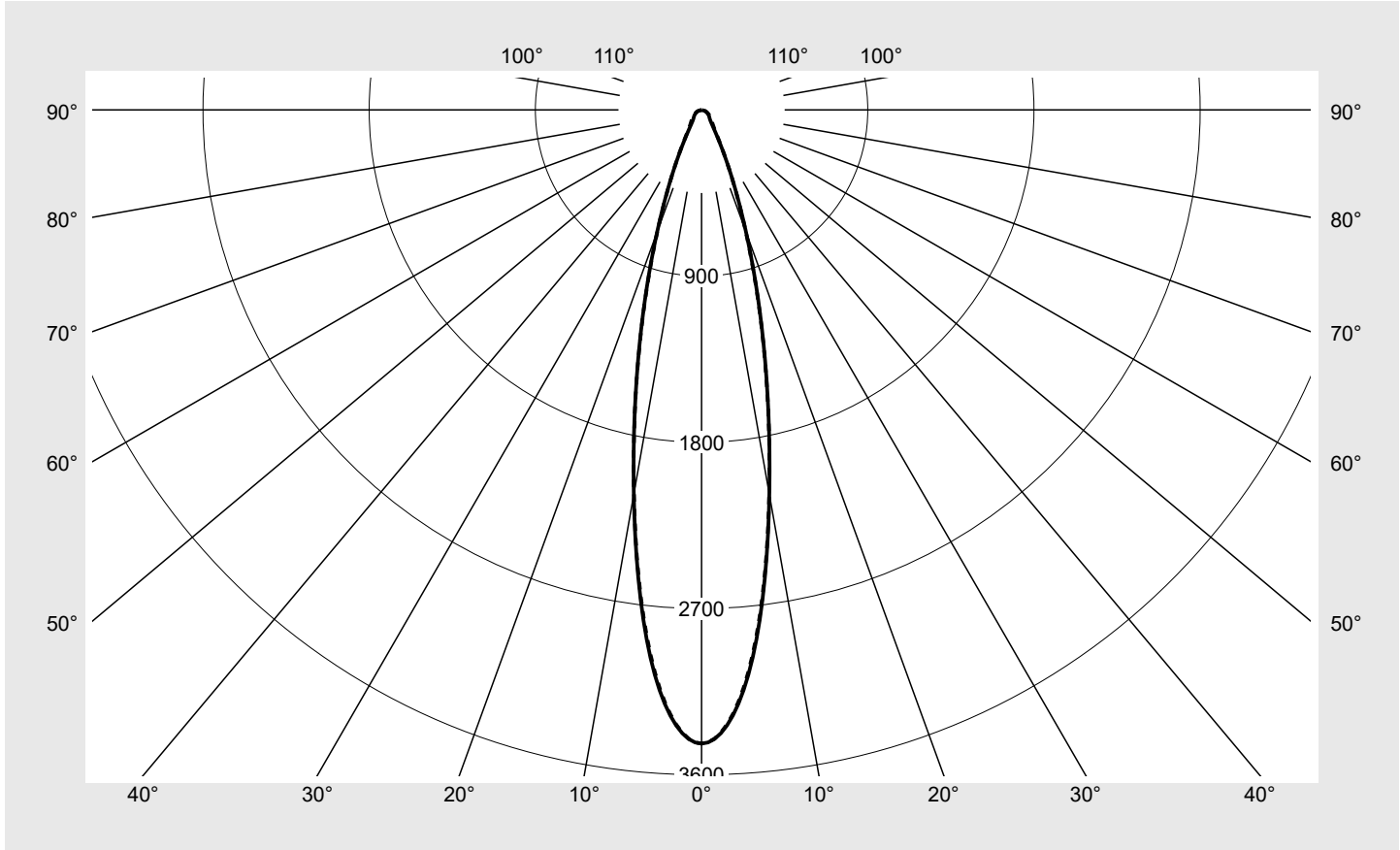


Photometric test report

Family Licross® Recessed	Order number: 51TL11CN4CXR EAN: 4058352210192	LP number 58784_4
	Version cover frosted, narrow distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-Multilumen CLOi Rated values Net luminous flux = 12100 lm Power consumption = 68.8 W Luminous efficacy = 175.9 lm/W	serial documentation 15.11.2019
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 3431 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=87 N2=95 N3=99 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 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°	3431.3	3431.3	3431.3	3431.3	3431.3	3431.3	3431.3	20.5	20.5
5°	3030.0	3009.9	2995.2	3008.4	3015.8	3015.7	3017.5	143.9	164.4
10°	2113.5	2098.5	2092.1	2104.8	2111.9	2109.7	2109.2	200.3	364.7
15°	1287.2	1281.7	1283.9	1294.7	1294.7	1286.2	1283.2	182.7	547.4
20°	703.4	705.4	717.6	726.5	719.3	702.5	697.3	133.5	680.9
25°	354.0	358.8	370.9	376.0	367.5	355.6	354.0	84.3	765.2
30°	176.2	179.2	185.6	185.7	179.6	178.8	183.6	49.7	814.9
35°	102.4	102.6	103.9	102.5	99.6	107.7	116.7	32.8	847.7
40°	73.1	72.4	71.7	70.6	70.7	80.9	90.2	26.3	874.0
45°	60.7	58.7	57.0	56.9	57.9	66.7	75.5	23.6	897.6
50°	52.7	51.5	51.2	50.6	50.0	56.0	63.2	22.2	919.8
55°	44.8	43.4	45.4	45.0	43.0	46.3	51.7	20.3	940.1
60°	37.3	36.1	38.2	39.8	37.2	38.0	41.8	18.1	958.2
65°	29.8	28.9	31.0	34.0	31.7	30.7	33.0	15.5	973.8
70°	21.9	21.7	22.9	26.9	25.3	23.3	24.3	12.3	986.1
75°	12.2	12.7	14.5	18.5	17.7	15.7	16.0	8.2	994.3
80°	5.5	5.6	6.4	9.0	10.0	8.8	8.6	4.2	998.5
85°	2.2	2.1	2.4	3.2	3.5	3.4	3.0	1.6	1000.0
90°	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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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	16.7	17.8	17.0	18.1	18.4	17.0	18.2	17.4	18.5	18.8
	3H	18.0	19.0	18.4	19.3	19.7	18.5	19.4	18.8	19.8	20.1
	4H	18.4	19.3	18.8	19.7	20.0	19.0	19.9	19.4	20.2	20.6
	6H	18.5	19.4	19.0	19.7	20.1	19.3	20.1	19.7	20.5	20.9
	8H	18.7	19.3	19.1	19.7	20.1	19.5	20.2	19.9	20.5	21.0
	12H	18.6	19.3	19.1	19.7	20.1	19.5	20.1	19.9	20.5	20.9
4H	2H	17.4	18.3	17.8	18.7	19.1	17.7	18.6	18.1	19.0	19.3
	3H	18.9	19.6	19.3	20.0	20.5	19.3	20.1	19.7	20.5	20.9
	4H	19.3	20.0	19.8	20.4	20.9	19.9	20.6	20.4	21.0	21.5
	6H	19.5	20.1	20.0	20.5	21.0	20.3	20.9	20.8	21.3	21.8
	8H	19.6	20.1	20.1	20.5	21.0	20.5	21.0	20.9	21.4	21.9
	12H	19.6	20.0	20.1	20.5	21.0	20.5	20.9	21.0	21.4	21.9
8H	4H	19.7	20.2	20.1	20.6	21.1	20.2	20.7	20.7	21.2	21.6
	6H	19.9	20.3	20.4	20.8	21.3	20.7	21.1	21.2	21.6	22.1
	8H	19.9	20.3	20.5	20.8	21.3	20.9	21.2	21.4	21.7	22.3
	12H	20.0	20.3	20.5	20.8	21.3	20.9	21.3	21.5	21.8	22.3
12H	4H	19.7	20.1	20.2	20.6	21.1	20.2	20.6	20.7	21.1	21.6
	6H	19.9	20.3	20.5	20.8	21.3	20.7	21.1	21.2	21.6	22.1
	8H	20.0	20.3	20.5	20.8	21.4	20.9	21.2	21.4	21.7	22.3

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1500
			B = 58

C-planes	γ	Luminance in cd/m ²						
		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°	11942.0	11550.2	11218.0	11188.1	11387.3	13114.3	14857.7
	50°	11412.7	11148.9	11088.1	10954.2	10811.6	12119.6	13677.7
	55°	10873.7	10533.5	11015.4	10916.4	10431.9	11236.5	12531.1
	60°	10374.6	10035.8	10616.3	11065.8	10357.0	10570.4	11638.0
	65°	9801.4	9522.0	10199.2	11174.3	10446.7	10113.7	10857.1
	70°	8892.5	8816.4	9307.3	10920.8	10288.9	9474.0	9896.5
	75°	6576.3	6813.8	7771.9	9921.9	9497.4	8412.5	8579.6
	80°	4438.0	4478.8	5150.8	7229.2	7975.7	7018.6	6888.8
	85°	3491.5	3424.5	3780.4	5060.2	5545.3	5382.5	4747.4

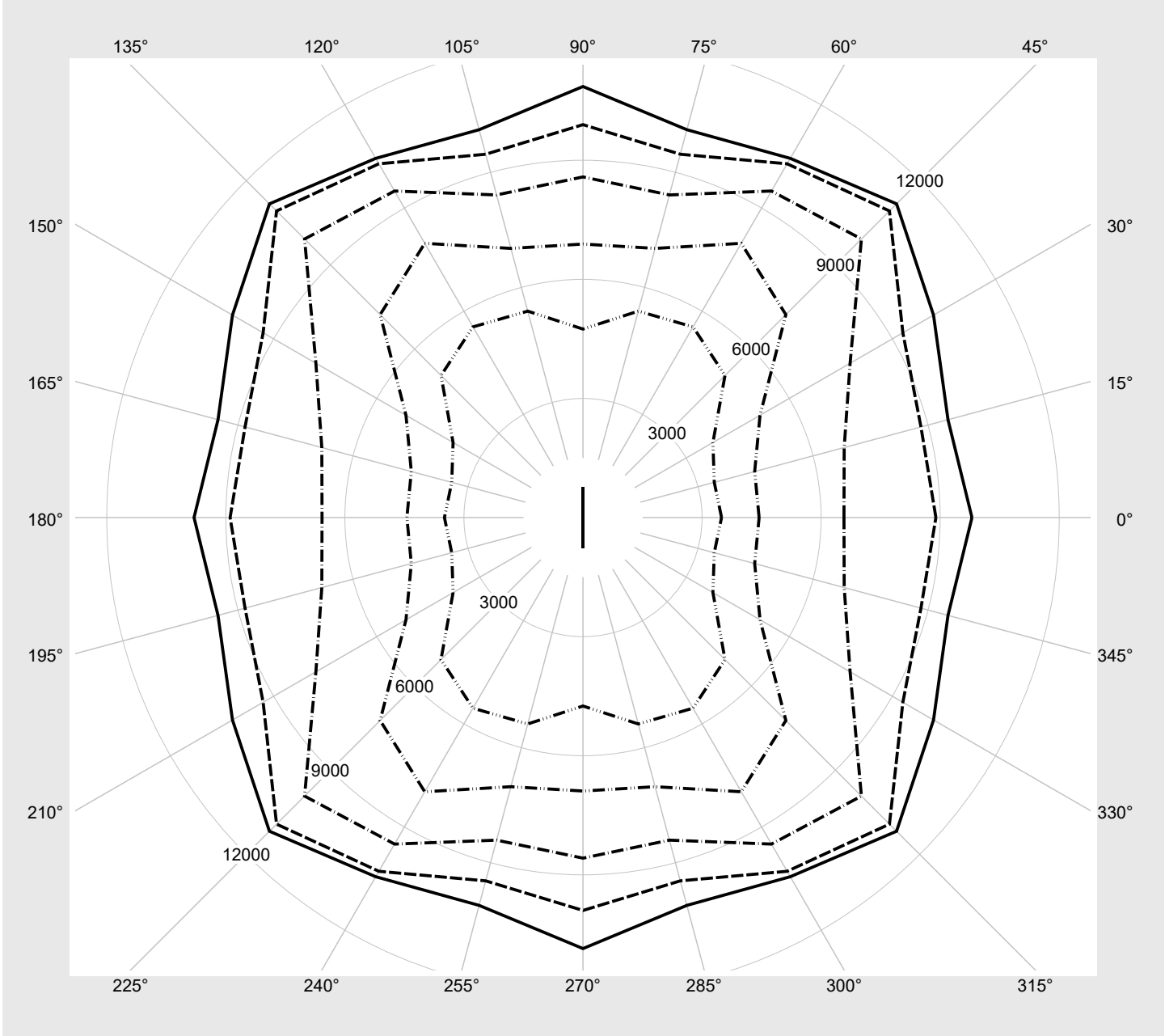
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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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Multilumen Table	environmental temperature: 25°C	sITeco
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]	Power consumption [W]	Power consumption [W]
	1	2	3			end of lifetime	average
1	A	C	E	12100	68.8	76.9	72.8
2	A	C	F	11050	62.1	69.3	65.7
3	A	D	E	10060	56.0	62.2	59.1
4	A	D	F	9050	49.9	55.2	52.6
5	B	C	E	8020	43.9	48.6	46.2
6	B	C	F	7050	38.4	42.2	40.3
7	B	D	E	6070	32.9	36.3	34.6
8	B	D	F	5070	27.5	30.0	28.8