

Photometric test report

Family
Licross® 21 Recessed

Order number: 52TL18CN49XG
EAN: 4058352891285

LP number
59103_254



Version cover frosted, medium distribution, high visual comfort
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-Multilumen CLOi
Rated values Net luminous flux = 9000 lm
Power consumption = 49.9 W
Luminous efficacy = 180.4 lm/W

serial
documentation
17.08.2023

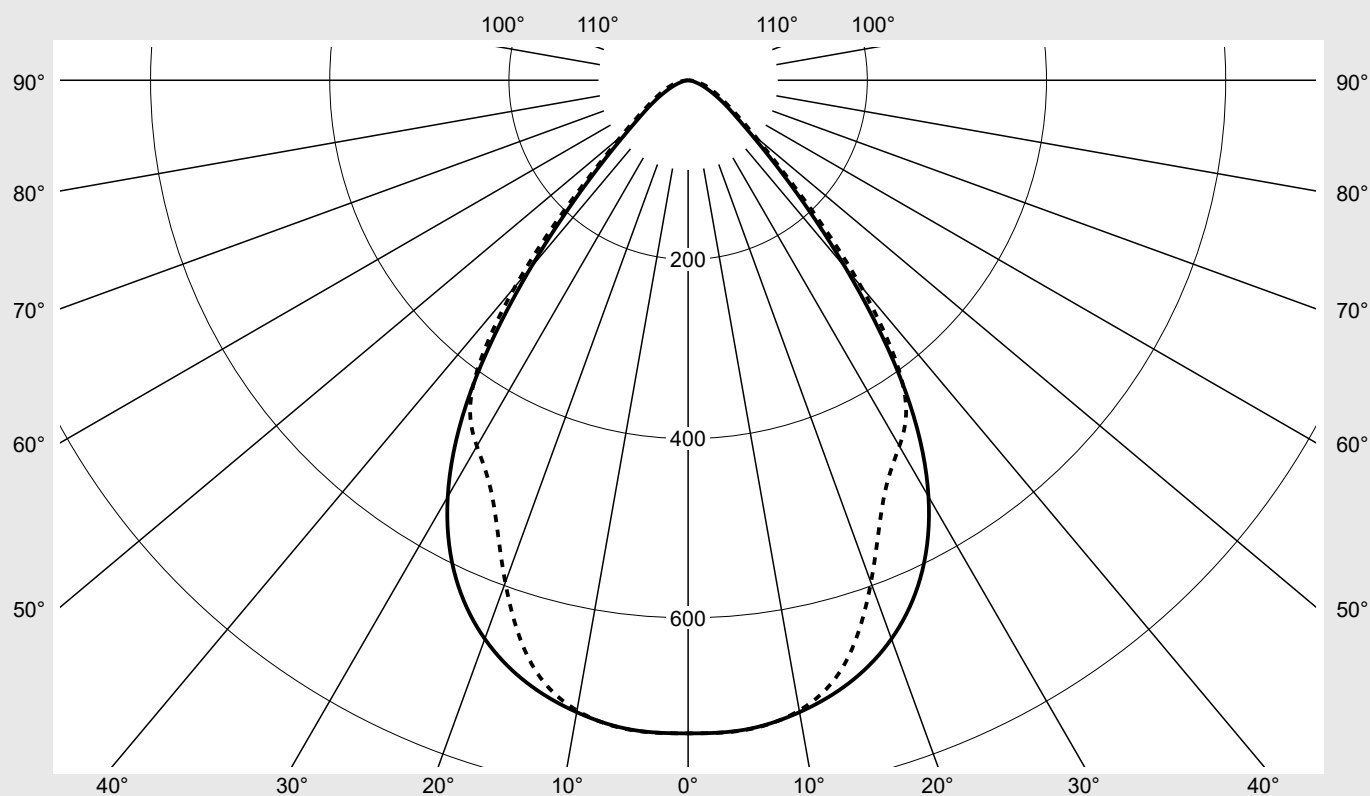
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 729 cd/klm



Classifications

DIN 5040 A 6 0
CIE N1=79 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	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm							Luminous flux in lm/klm	
0°	728.9	728.9	728.9	728.9	728.9	728.9	728.9	4.4	4.4
5°	727.6	725.6	721.4	724.4	727.7	727.5	728.0	34.7	39.0
10°	716.2	715.8	711.3	714.1	716.0	714.5	714.3	68.0	107.0
15°	696.1	697.2	692.4	692.3	687.6	678.3	674.7	97.7	204.8
20°	663.5	665.6	659.3	649.0	628.4	605.3	596.6	119.9	324.7
25°	613.2	616.1	603.1	573.7	542.7	522.2	516.0	132.1	456.8
30°	536.6	538.7	513.6	472.5	462.2	468.1	471.5	135.2	592.0
35°	422.0	421.2	386.0	361.6	387.1	411.1	419.4	125.1	717.1
40°	273.6	269.8	241.4	246.2	279.1	295.4	299.7	95.1	812.2
45°	153.4	148.0	132.2	146.4	164.6	167.9	167.6	59.4	871.5
50°	87.1	86.0	88.4	95.4	105.5	102.0	98.3	39.9	911.4
55°	56.5	55.2	58.2	69.2	74.7	68.5	64.6	28.9	940.4
60°	37.8	37.4	39.6	46.2	52.4	47.5	45.7	20.9	961.3
65°	24.5	24.8	27.6	32.4	36.8	34.0	33.6	15.3	976.6
70°	15.3	15.7	18.0	22.8	25.8	24.5	24.5	10.9	987.5
75°	8.5	8.7	10.3	14.3	17.1	16.5	16.4	7.0	994.5
80°	4.5	4.6	5.3	7.4	9.6	9.5	9.0	3.9	998.3
85°	2.3	2.3	2.4	3.2	3.8	3.8	3.2	1.7	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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UGR-Table		Standard room							siTeco		
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	19.9	21.2	20.2	21.5	21.9	20.5	21.9	20.9	22.2	22.5
	3H	20.0	21.2	20.4	21.6	21.9	20.9	22.1	21.3	22.4	22.8
	4H	20.0	21.2	20.4	21.5	21.9	21.1	22.2	21.5	22.5	22.9
	6H	20.0	21.0	20.5	21.4	21.8	21.2	22.2	21.6	22.6	22.9
	8H	20.1	21.0	20.5	21.4	21.8	21.3	22.2	21.7	22.5	22.9
	12H	20.1	20.9	20.5	21.3	21.7	21.3	22.1	21.7	22.5	22.9
4H	2H	20.0	21.1	20.4	21.5	21.9	20.6	21.7	21.0	22.1	22.4
	3H	20.3	21.2	20.7	21.6	22.0	21.1	22.1	21.6	22.4	22.9
	4H	20.3	21.1	20.8	21.5	22.0	21.4	22.2	21.8	22.6	23.1
	6H	20.3	21.0	20.8	21.5	21.9	21.6	22.3	22.1	22.7	23.2
	8H	20.3	21.0	20.8	21.4	21.9	21.7	22.3	22.1	22.7	23.2
	12H	20.4	20.9	20.8	21.3	21.8	21.7	22.2	22.2	22.7	23.2
8H	4H	20.4	21.0	20.9	21.5	21.9	21.4	22.0	21.9	22.5	23.0
	6H	20.4	20.9	20.9	21.4	21.9	21.7	22.2	22.2	22.7	23.2
	8H	20.4	20.9	20.9	21.4	21.9	21.8	22.2	22.3	22.7	23.2
	12H	20.5	20.8	21.0	21.3	21.9	21.8	22.2	22.4	22.7	23.3
12H	4H	20.4	20.9	20.9	21.4	21.9	21.4	21.9	21.9	22.4	22.9
	6H	20.5	20.9	21.0	21.4	21.9	21.7	22.1	22.2	22.6	23.1
	8H	20.5	20.8	21.0	21.3	21.9	21.8	22.1	22.3	22.7	23.2

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1500 B = 58	
C-planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
γ	Luminance in cd/m²						
45°	22441.5	21648.0	19337.8	21410.7	24080.5	24562.5	24525.5
50°	14024.2	13840.6	14228.1	15354.0	16981.6	16410.4	15827.2
55°	10185.1	9951.9	10491.3	12489.0	13471.9	12361.1	11647.8
60°	7813.7	7729.9	8186.1	9559.9	10834.3	9827.4	9449.8
65°	6005.7	6080.1	6756.4	7941.4	9008.6	8326.2	8226.8
70°	4615.0	4737.8	5443.1	6884.3	7796.6	7413.4	7420.9
75°	3383.8	3484.9	4113.2	5724.0	6828.0	6605.3	6544.6
80°	2688.0	2763.0	3140.7	4378.7	5692.8	5647.6	5345.5
85°	2767.9	2738.3	2887.8	3760.2	4483.1	4483.1	3791.1

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Luminance values in cd/m²

γ 65°

γ 70°

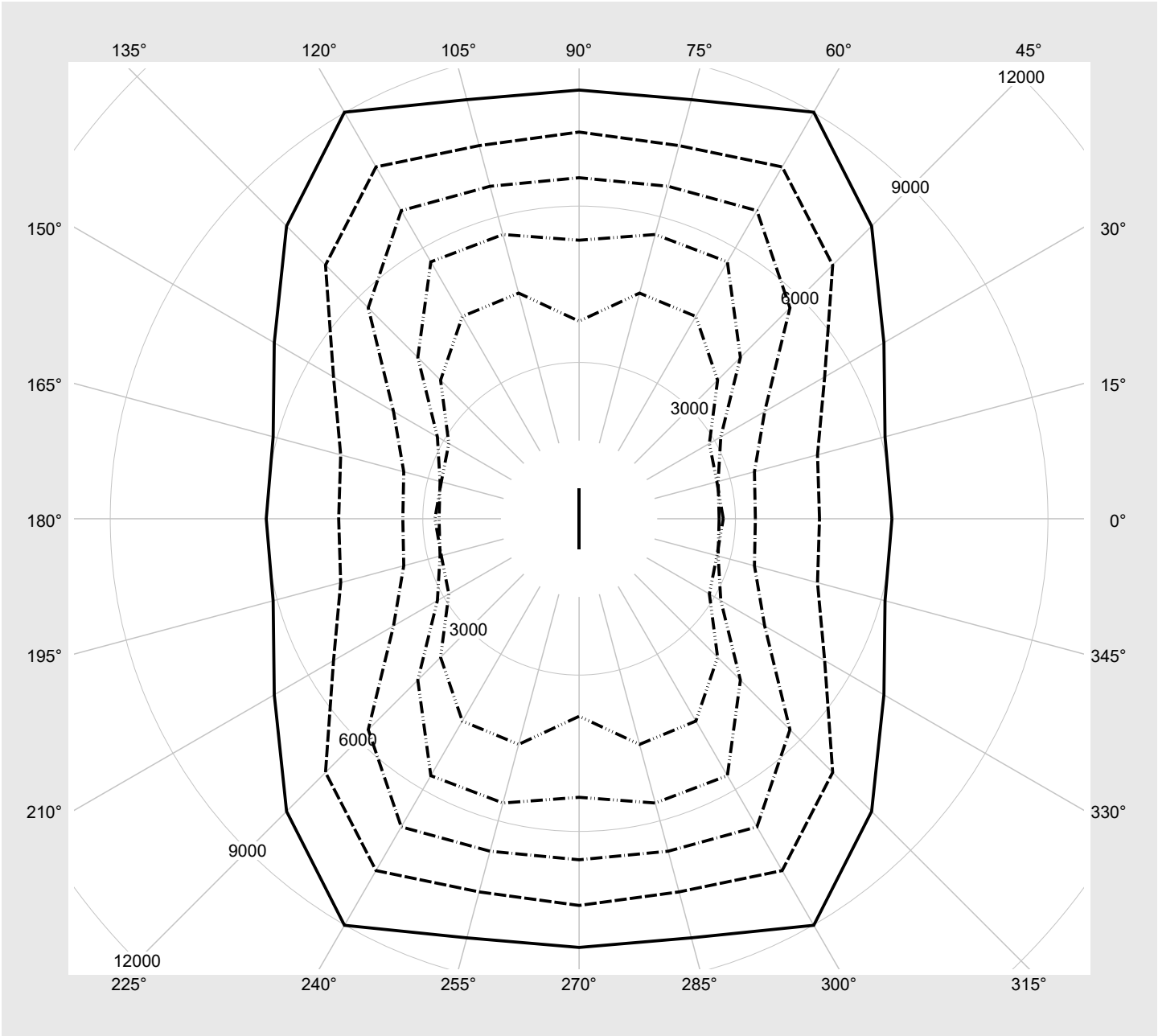
γ 75°

γ 80°

γ 85°

sit

eco



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Family Licross® 21 Recessed	Order number: 52TL18CN49XG EAN: 4058352891285	LP number 59103_254
Multilumen Table	environmental temperature: 25°C	siteco

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	9000	49.9	60.5	55.2
2	A	C	F	8570	47.3	56.9	52.1
3	A	D	E	8070	44.4	53.4	48.9
4	A	D	F	7550	41.4	49.5	45.4
5	B	C	E	7030	38.4	45.6	42.0
6	B	C	F	6500	35.3	42.2	38.8
7	B	D	E	6050	32.8	39.2	36.0
8	B	D	F	5520	29.9	35.3	32.6