

Photometric test report

Family
Licross® 21 Recessed

Order number: 52TL12MN4A5G
EAN: 4058352891100

LP number
59101_335



Version cover frosted, wide distribution, high visual comfort
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG Multilumen
Rated values Net luminous flux = 10990 lm
Power consumption = 60.5 W
Luminous efficacy = 181.7 lm/W

serial
documentation
24.08.2023

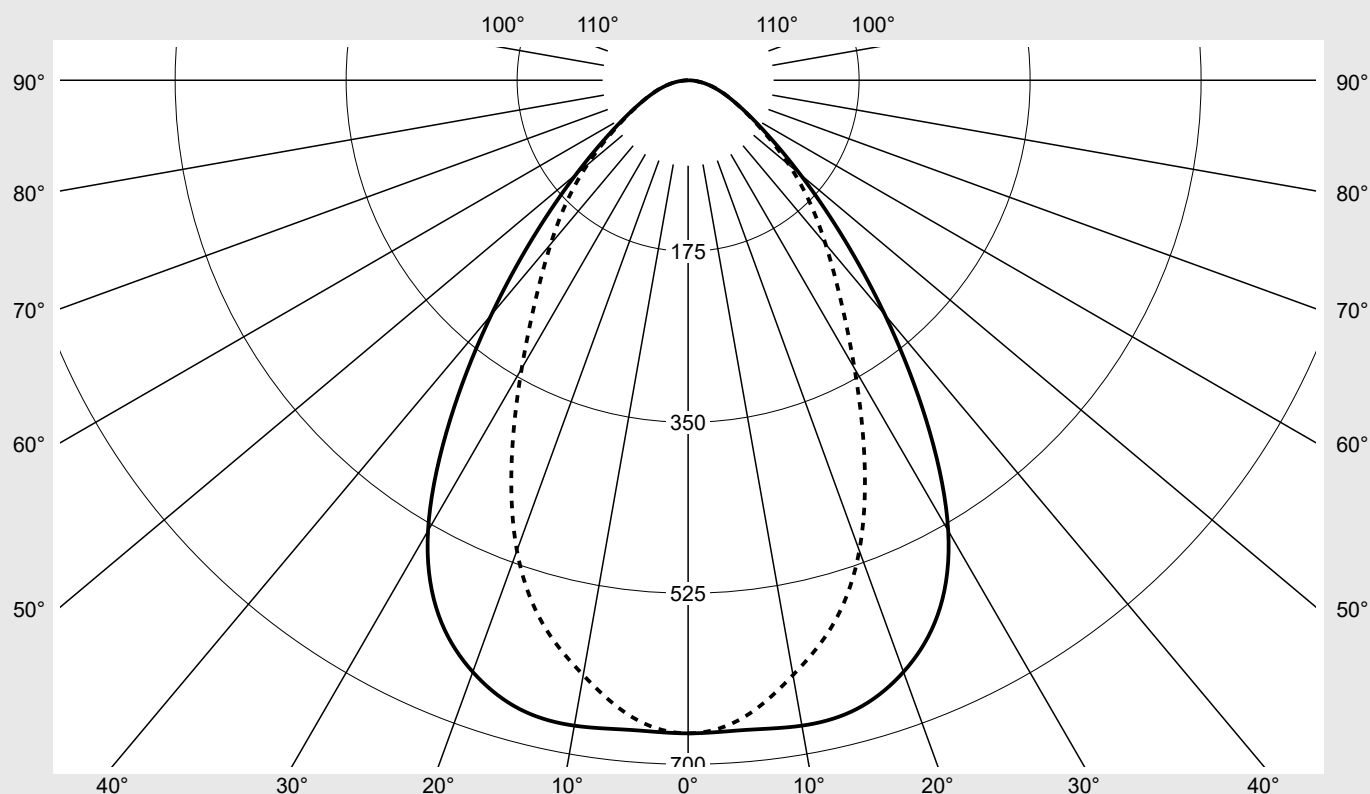
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Luminous intensity in cd/klm

C180-0

C270-90

Imax: 671 cd/klm



Classifications

DIN 5040 A 6 0
CIE N1=72 N2=92 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°	668.4	668.4	668.4	668.4	668.4	668.4	668.4	4.0	4.0
5°	667.5	664.4	657.4	655.8	655.7	654.2	654.4	31.4	35.4
10°	670.7	665.0	649.1	636.1	625.3	618.7	618.1	60.9	96.3
15°	666.2	657.2	632.9	612.0	594.0	578.5	575.5	87.4	183.7
20°	644.4	632.9	606.9	585.4	554.6	522.7	512.3	108.8	292.5
25°	604.1	590.6	566.7	541.2	494.5	444.9	427.0	121.8	414.2
30°	532.4	517.7	496.3	466.1	413.9	359.9	340.6	122.9	537.1
35°	425.0	409.7	387.0	361.9	325.4	286.0	271.1	111.0	648.1
40°	313.4	295.8	270.7	255.1	246.8	229.4	218.8	91.8	739.9
45°	219.2	200.3	175.7	171.1	181.8	184.7	175.5	71.8	811.7
50°	149.7	132.6	112.6	116.3	133.0	145.6	134.9	54.8	866.5
55°	102.7	89.1	74.7	81.5	98.1	107.9	98.1	41.3	907.7
60°	72.4	62.1	51.3	58.3	71.8	76.5	71.0	31.0	938.7
65°	52.1	44.3	35.9	41.6	51.4	54.2	52.1	23.1	961.9
70°	37.6	31.7	24.7	29.1	35.6	38.4	38.3	16.9	978.8
75°	26.0	21.3	16.2	19.0	22.9	25.9	26.8	11.6	990.4
80°	16.1	12.5	9.2	10.4	12.6	14.8	15.7	6.8	997.3
85°	7.0	5.4	3.8	4.1	4.8	5.7	5.8	2.7	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	22.1	23.5	22.4	23.8	24.1	22.0	23.4	22.4	23.8	24.1
	3H	22.7	23.9	23.0	24.3	24.6	22.8	24.1	23.2	24.4	24.8
	4H	22.9	24.1	23.3	24.5	24.8	23.1	24.3	23.5	24.7	25.0
	6H	23.2	24.3	23.6	24.6	25.0	23.4	24.5	23.8	24.8	25.2
	8H	23.4	24.3	23.8	24.7	25.1	23.5	24.5	24.0	24.9	25.3
	12H	23.4	24.3	23.9	24.7	25.1	23.6	24.5	24.0	24.9	25.3
4H	2H	22.2	23.4	22.6	23.8	24.1	22.2	23.4	22.6	23.7	24.1
	3H	22.9	23.9	23.3	24.3	24.7	23.2	24.1	23.6	24.5	24.9
	4H	23.2	24.1	23.7	24.5	25.0	23.6	24.5	24.1	24.9	25.3
	6H	23.6	24.3	24.0	24.8	25.2	24.0	24.7	24.4	25.2	25.6
	8H	23.7	24.4	24.2	24.8	25.3	24.1	24.8	24.6	25.2	25.7
	12H	23.8	24.4	24.3	24.9	25.4	24.2	24.8	24.7	25.2	25.7
8H	4H	23.3	24.0	23.8	24.5	24.9	23.7	24.3	24.1	24.8	25.3
	6H	23.7	24.2	24.2	24.7	25.2	24.1	24.7	24.6	25.1	25.6
	8H	23.8	24.3	24.3	24.8	25.3	24.3	24.7	24.8	25.2	25.8
	12H	24.0	24.4	24.5	24.9	25.4	24.4	24.8	24.9	25.3	25.8
12H	4H	23.3	23.9	23.8	24.4	24.9	23.7	24.3	24.2	24.7	25.2
	6H	23.7	24.2	24.2	24.7	25.2	24.1	24.6	24.6	25.1	25.6
	8H	23.9	24.3	24.4	24.8	25.3	24.3	24.7	24.8	25.2	25.7

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°	39162.8	35791.4	31383.3	30572.6	32477.7	32995.9	31356.8
50°	29416.4	26053.5	22130.5	22856.7	26136.4	28617.1	26502.0
55°	22610.7	19628.7	16455.5	17954.3	21600.5	23774.0	21595.0
60°	18286.9	15697.5	12962.6	14740.2	18131.5	19330.0	17932.4
65°	15573.4	13254.9	10745.0	12441.5	15377.7	16187.1	15558.5
70°	13878.0	11701.8	9124.2	10730.8	13136.0	14183.0	14147.2
75°	12689.3	10394.4	7922.8	9262.6	11182.2	12621.5	13076.4
80°	11704.1	9124.5	6713.0	7598.3	9185.6	10802.0	11451.7
85°	10150.0	7818.0	5520.7	5952.6	6997.6	8194.8	8461.5

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Luminance values in cd/m²

γ 65°

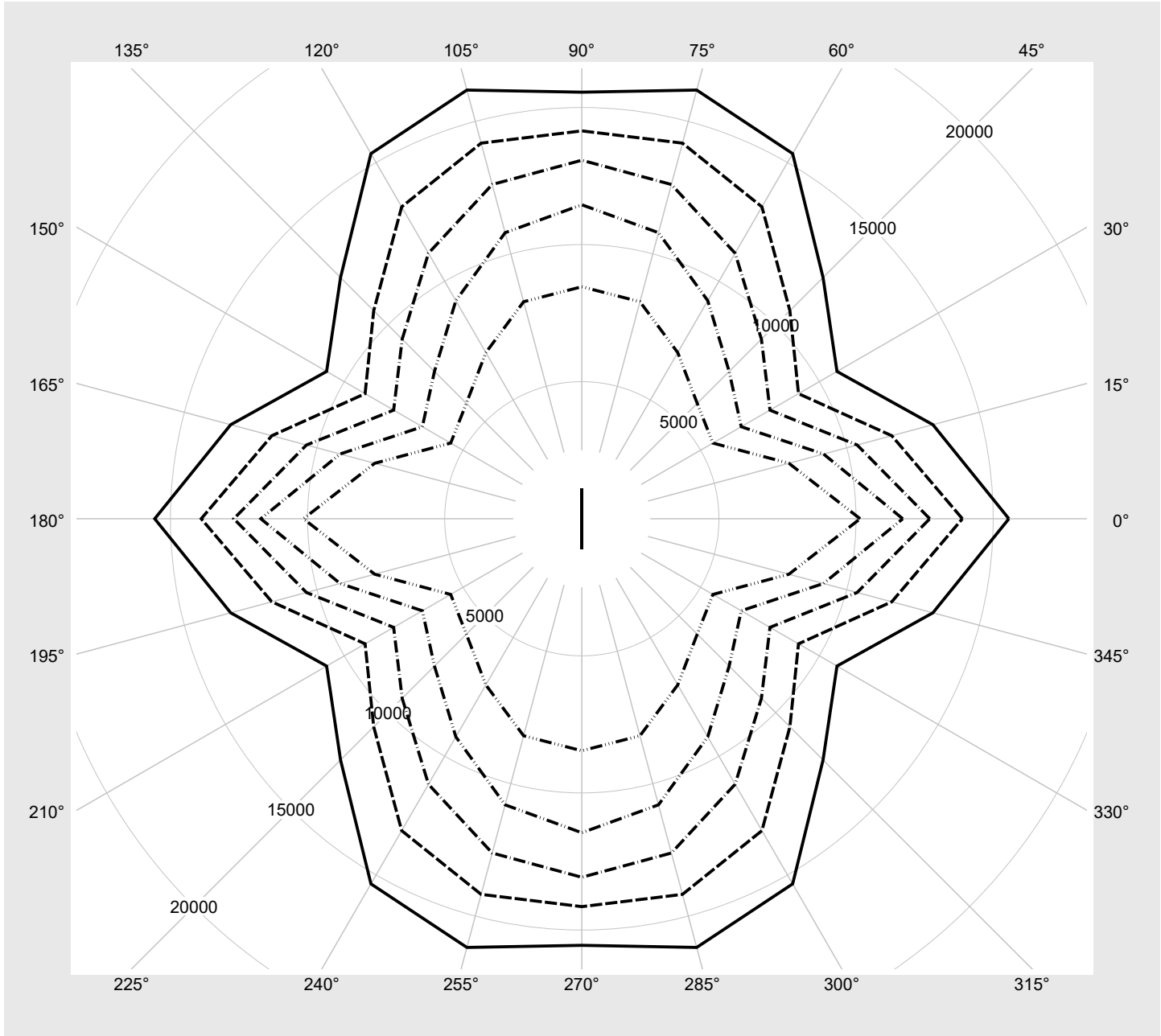
γ 70°

γ 75°

γ 80°

γ 85°

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Family Licross® 21 Recessed	Order number: 52TL12MN4A5G EAN: 4058352891100	LP number 59101_335
Multilumen Table	environmental temperature: 25°C	siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	10990	60.5
2	A	C	F	10350	56.5
3	A	D	E	9850	53.4
4	A	D	F	9340	50.3
5	B	C	E	8820	47.3
6	B	C	F	8300	44.4
7	B	D	E	7770	41.4
8	B	D	F	7240	38.4