

Photometric test report

Family
Licross® 21 Recessed

Order number: 52TE18CN4C5M
EAN: 4058352889862

LP number
59104_160



Version cover frosted, medium distribution, high visual comfort
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-Multilumen CLOi
Rated values Net luminous flux = 12540 lm
 Power consumption = 68.4 W
 Luminous efficacy = 183.3 lm/W

serial
documentation
17.08.2023

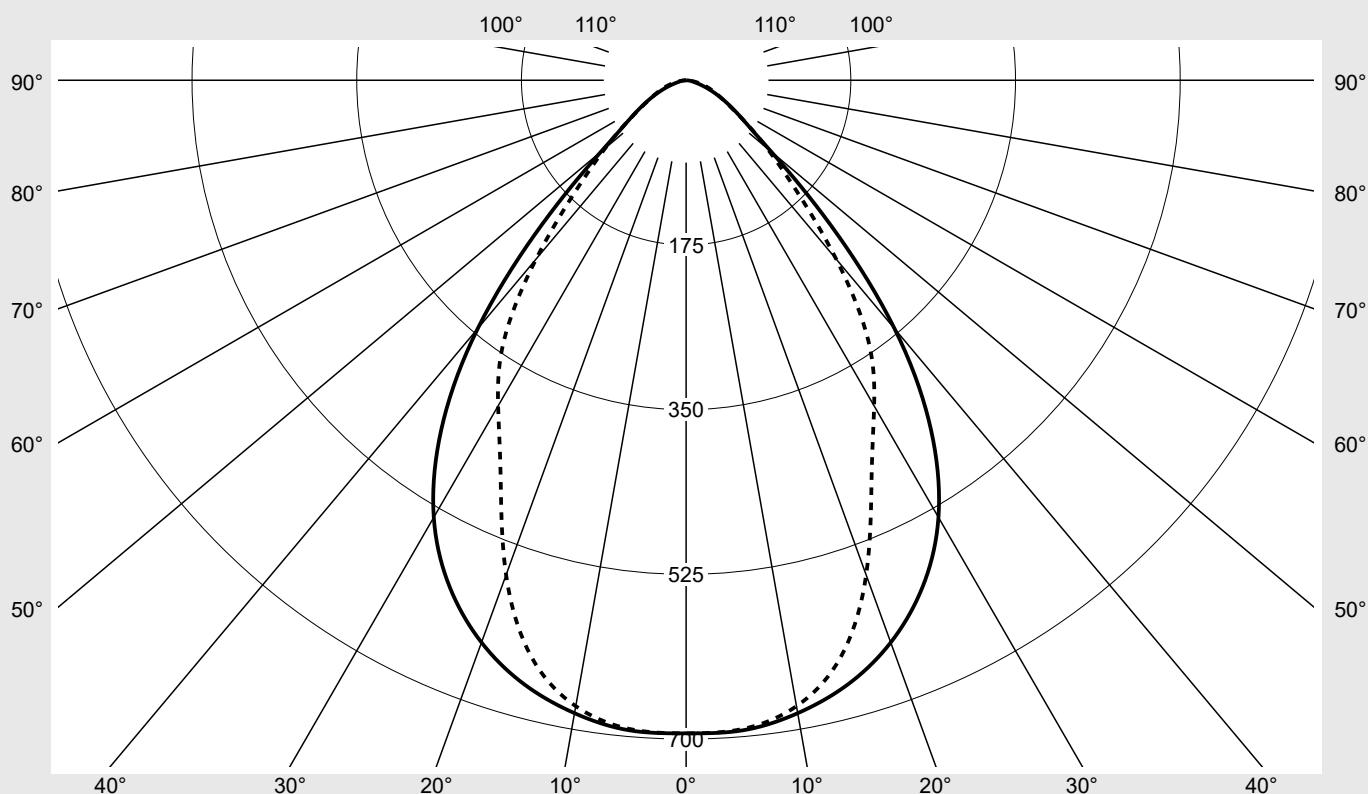
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Luminous intensity in cd/klm

C180-0

C270-90

Imax: 694 cd/klm



Classifications

DIN 5040 A 6 0
 CIE N1=75 N2=94 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°	694.0	694.0	694.0	694.0	694.0	694.0	694.0	4.2	4.2
5°	693.3	691.2	687.0	689.0	691.7	691.4	691.9	33.0	37.1
10°	682.9	681.6	676.2	676.6	677.1	675.1	675.3	64.5	101.6
15°	664.5	663.4	655.7	650.8	644.2	637.0	634.6	92.2	193.9
20°	635.7	634.6	621.8	603.7	582.0	564.8	559.4	112.6	306.5
25°	594.3	592.8	570.2	532.2	493.8	471.5	466.3	123.2	429.7
30°	536.3	532.4	496.5	443.5	408.6	399.3	399.5	125.5	555.2
35°	453.8	445.6	398.8	354.7	341.6	338.2	337.4	119.2	674.4
40°	344.5	330.9	285.8	265.8	259.9	251.4	248.0	99.2	773.7
45°	216.1	203.7	174.1	171.5	169.1	165.7	165.2	69.4	843.1
50°	117.9	113.3	108.5	113.4	112.2	111.3	112.1	47.2	890.2
55°	75.1	72.3	72.7	81.4	80.0	76.7	75.3	34.3	924.5
60°	52.8	51.4	52.2	58.3	58.9	53.9	51.6	25.9	950.4
65°	36.0	35.7	38.4	42.9	44.1	39.6	37.5	19.7	970.1
70°	22.2	22.5	25.4	30.3	32.0	29.3	27.4	14.1	984.2
75°	11.8	12.0	13.9	18.9	21.4	20.1	18.3	8.9	993.1
80°	6.2	6.2	6.9	9.4	11.9	11.6	10.1	4.9	998.0
85°	3.0	2.9	3.0	3.8	4.5	4.6	3.6	2.0	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	22.3	23.7	22.6	24.0	24.3	21.6	23.0	22.0	23.3	23.7
	3H	22.5	23.8	22.9	24.1	24.5	22.2	23.4	22.5	23.7	24.1
	4H	22.6	23.7	23.0	24.1	24.5	22.4	23.5	22.8	23.9	24.3
	6H	22.6	23.6	23.0	24.0	24.4	22.6	23.6	23.0	24.0	24.4
	8H	22.7	23.6	23.1	24.0	24.4	22.7	23.6	23.1	24.0	24.4
	12H	22.7	23.5	23.1	23.9	24.3	22.7	23.5	23.1	23.9	24.4
4H	2H	22.4	23.6	22.8	23.9	24.3	21.9	23.0	22.3	23.4	23.8
	3H	22.8	23.8	23.3	24.2	24.6	22.6	23.6	23.1	24.0	24.4
	4H	22.9	23.8	23.4	24.2	24.6	23.0	23.8	23.4	24.2	24.7
	6H	23.0	23.7	23.4	24.1	24.6	23.2	24.0	23.7	24.4	24.9
	8H	23.0	23.6	23.5	24.1	24.6	23.3	24.0	23.8	24.4	24.9
	12H	23.0	23.6	23.5	24.0	24.5	23.4	23.9	23.9	24.4	24.9
8H	4H	23.0	23.7	23.5	24.1	24.6	23.1	23.7	23.6	24.2	24.7
	6H	23.1	23.6	23.6	24.1	24.6	23.4	24.0	23.9	24.4	24.9
	8H	23.1	23.6	23.6	24.1	24.6	23.5	24.0	24.0	24.5	25.0
	12H	23.1	23.5	23.7	24.0	24.6	23.6	24.0	24.2	24.5	25.1
12H	4H	23.0	23.6	23.5	24.1	24.6	23.1	23.6	23.6	24.1	24.6
	6H	23.1	23.6	23.6	24.0	24.6	23.4	23.9	24.0	24.4	24.9
	8H	23.1	23.5	23.7	24.0	24.6	23.6	24.0	24.1	24.5	25.0

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°	44051.2	41525.6	35479.7	34954.6	34462.7	33776.2	33684.5
50°	26442.5	25404.7	24334.6	25432.9	25170.6	24956.4	25142.1
55°	18880.4	18161.0	18274.1	20455.6	20111.5	19283.3	18916.9
60°	15231.9	14809.9	15039.6	16809.1	16982.9	15551.6	14861.2
65°	12280.5	12167.3	13109.0	14622.9	15042.4	13496.1	12803.7
70°	9363.8	9488.5	10689.2	12764.7	13504.8	12355.5	11537.5
75°	6553.1	6677.3	7748.8	10534.4	11894.4	11215.5	10183.6
80°	5112.3	5142.2	5711.6	7785.1	9867.7	9649.4	8380.3
85°	4991.2	4857.2	5020.9	6292.7	7466.9	7660.4	6004.9

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Luminance values in cd/m²

γ 65°

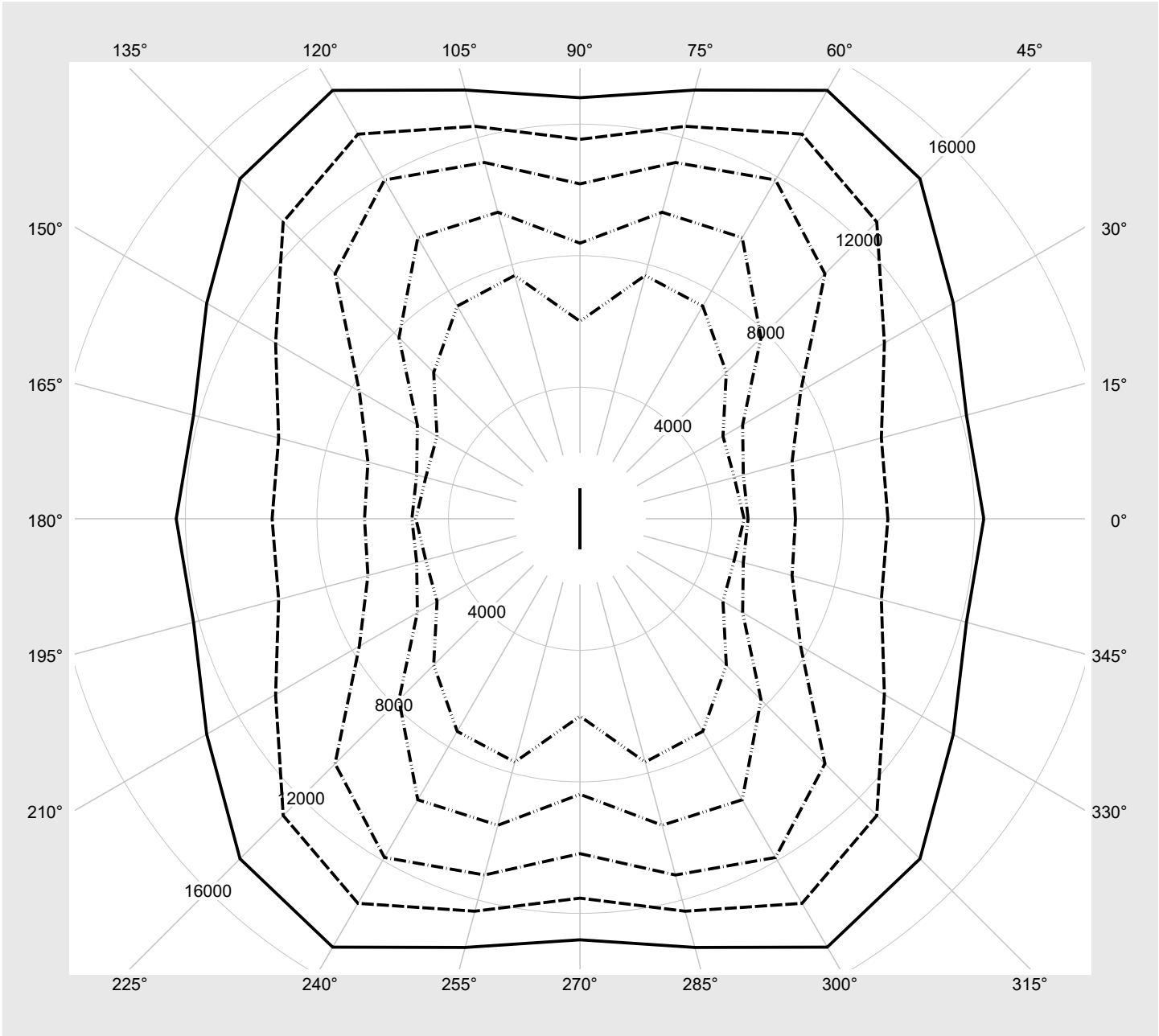
γ 70°

γ 75°

γ 80°

γ 85°

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Family Licross® 21 Recessed	Order number: 52TE18CN4C5M EAN: 4058352889862	LP number 59104_160
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	12540	68.4	83.1	75.8
2	A	C	F	12030	65.4	79.7	72.6
3	A	D	E	11010	59.4	71.9	65.6
4	A	D	F	10040	53.9	64.9	59.4
5	B	C	E	8990	47.9	57.7	52.8
6	B	C	F	7990	42.4	50.9	46.6
7	B	D	E	6990	37.1	44.2	40.7
8	B	D	F	5970	31.6	37.5	34.6