

Photometric test report

Family
Licross® 21 Recessed

Order number: 52TE12CN4C5M
EAN: 4058352889541

LP number
59446_47



Version cover frosted, wide distribution, high visual comfort

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-Multilumen CLOi

Rated values Net luminous flux = 12670 lm
Power consumption = 68.4 W
Luminous efficacy = 185.2 lm/W

serial
documentation
17.08.2023

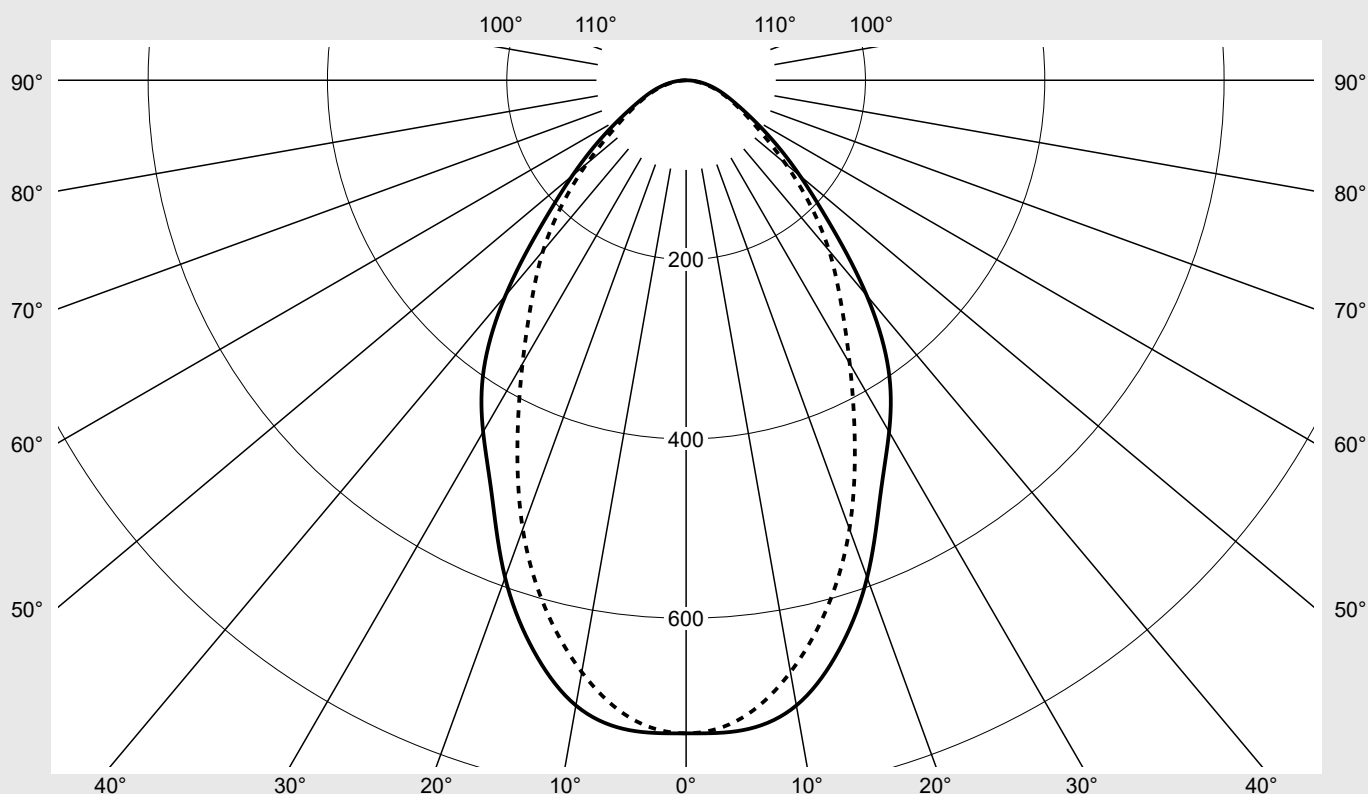
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 728 cd/klm



Classifications

DIN 5040 A 5 0
CIE N1=69 N2=91 N3=98
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
		siteco

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°	728.4	728.4	728.4	728.4	728.4	728.4	728.4	4.4	4.4
5°	727.5	724.8	717.6	716.9	716.5	714.4	713.9	34.3	38.7
10°	708.0	704.6	693.5	687.1	680.0	672.5	670.2	65.5	104.1
15°	658.1	653.2	637.7	629.5	623.7	612.7	608.6	89.6	193.8
20°	590.3	582.5	562.9	551.9	546.6	538.5	532.6	104.5	298.2
25°	512.2	499.8	475.2	461.5	453.8	449.4	445.1	108.8	407.1
30°	452.8	433.7	396.2	371.8	363.4	365.0	364.9	106.8	513.9
35°	393.4	374.1	335.3	295.7	285.6	295.2	300.5	101.3	615.2
40°	313.5	300.8	276.8	238.3	224.4	239.2	248.1	91.6	706.8
45°	227.2	217.7	208.5	191.4	176.2	187.2	194.9	77.0	783.8
50°	165.8	151.3	143.3	147.8	138.9	142.4	144.5	61.5	845.3
55°	119.7	105.2	93.7	108.9	109.4	104.2	103.2	47.4	892.7
60°	84.3	73.0	63.0	78.5	83.8	75.4	76.1	35.9	928.6
65°	60.6	51.5	43.5	55.3	61.5	55.5	56.9	27.0	955.6
70°	44.8	36.9	29.5	37.3	40.5	40.0	42.0	19.5	975.1
75°	31.9	25.4	19.2	23.6	27.6	27.0	29.3	13.5	988.6
80°	20.2	15.5	11.1	12.8	15.3	15.6	17.2	8.0	996.7
85°	9.4	7.2	4.9	5.0	5.8	6.0	6.3	3.3	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	23.1	24.6	23.5	24.9	25.2	22.8	24.2	23.1	24.5	24.8
	3H	23.8	25.1	24.2	25.4	25.8	23.6	24.9	23.9	25.2	25.5
	4H	24.2	25.4	24.6	25.7	26.1	23.9	25.1	24.3	25.5	25.8
	6H	24.5	25.6	24.9	26.0	26.3	24.2	25.3	24.6	25.7	26.1
	8H	24.7	25.7	25.1	26.0	26.5	24.3	25.3	24.8	25.7	26.1
	12H	24.8	25.7	25.2	26.1	26.5	24.4	25.3	24.8	25.7	26.1
4H	2H	23.4	24.6	23.8	25.0	25.4	23.1	24.3	23.5	24.7	25.1
	3H	24.2	25.2	24.6	25.6	26.0	24.1	25.1	24.5	25.5	25.9
	4H	24.6	25.5	25.0	25.9	26.3	24.6	25.5	25.0	25.9	26.3
	6H	25.0	25.7	25.4	26.2	26.6	24.9	25.7	25.4	26.1	26.6
	8H	25.2	25.8	25.6	26.3	26.8	25.1	25.8	25.5	26.2	26.7
	12H	25.3	25.9	25.8	26.4	26.9	25.2	25.8	25.6	26.2	26.7
8H	4H	24.7	25.4	25.2	25.8	26.3	24.7	25.4	25.2	25.8	26.3
	6H	25.1	25.7	25.6	26.2	26.7	25.1	25.7	25.6	26.2	26.7
	8H	25.3	25.8	25.8	26.3	26.8	25.3	25.8	25.8	26.3	26.8
	12H	25.5	25.9	26.0	26.4	27.0	25.4	25.8	25.9	26.3	26.9
12H	4H	24.7	25.3	25.2	25.8	26.3	24.7	25.3	25.2	25.8	26.3
	6H	25.1	25.6	25.7	26.1	26.6	25.2	25.6	25.7	26.1	26.6
	8H	25.4	25.8	25.9	26.3	26.8	25.3	25.7	25.9	26.2	26.8

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°	46802.9	44834.1	42942.0	39425.8	36292.4	38545.1	40134.0
50°	37572.2	34276.1	32465.0	33475.7	31478.5	32257.7	32728.0
55°	30399.2	26721.2	23794.7	27653.5	27787.3	26453.8	26206.0
60°	24566.1	21253.9	18343.2	22860.2	24398.9	21962.2	22174.2
65°	20874.5	17746.0	14980.9	19059.2	21200.2	19139.5	19614.4
70°	19062.2	15724.8	12543.6	15900.2	17264.5	17011.1	17897.2
75°	17947.2	14279.1	10810.8	13287.1	15526.0	15198.0	16491.6
80°	16963.6	13026.9	9324.2	10727.3	12806.4	13068.9	14427.5
85°	15728.6	12027.4	8115.8	8413.2	9709.8	9995.6	10525.3

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Luminance values in cd/m²

γ 65°

γ 70°

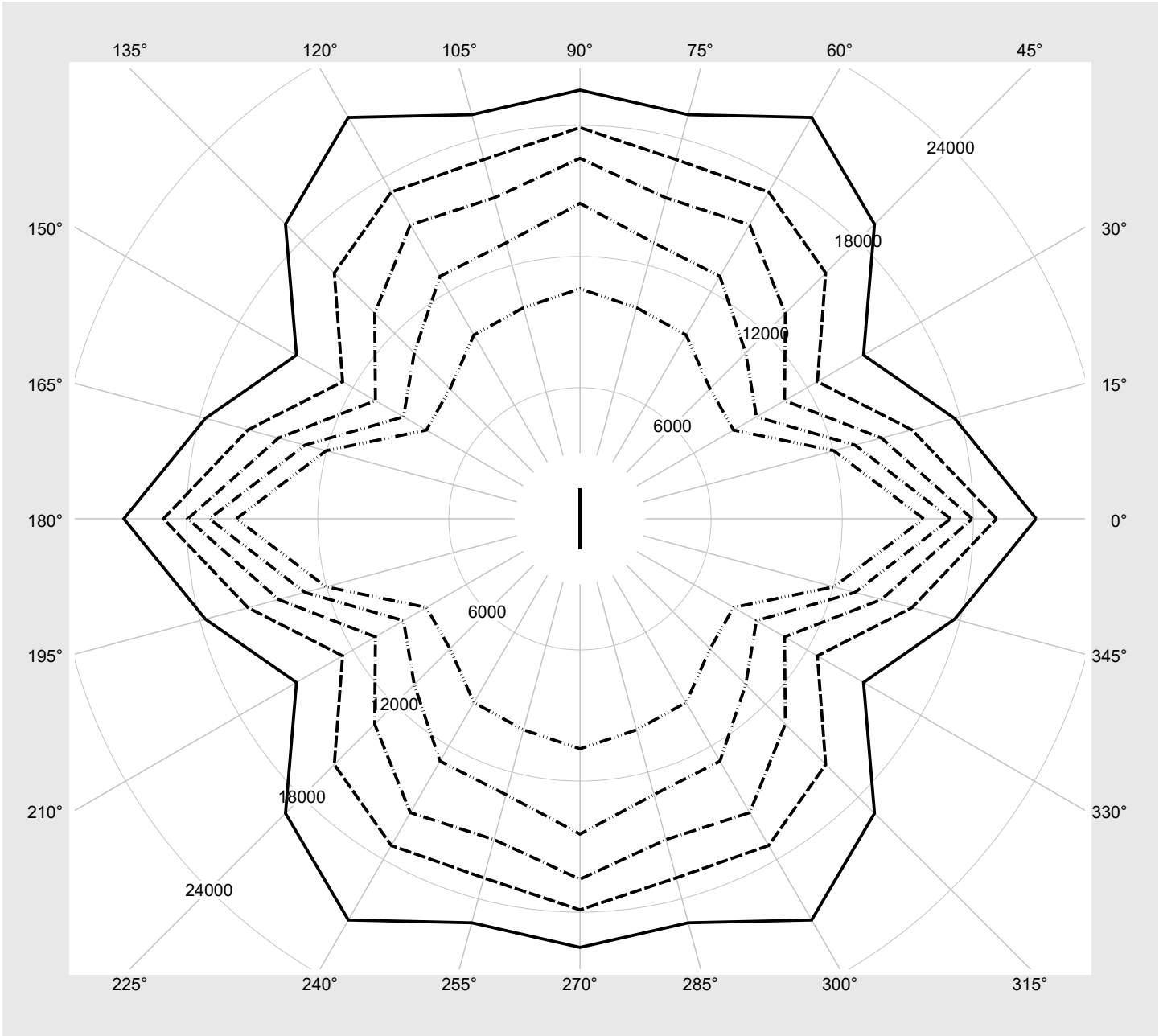
γ 75°

γ 80°

γ 85°

sit

eco



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Family Licross® 21 Recessed	Order number: 52TE12CN4C5M EAN: 4058352889541	LP number 59446_47
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	12670	68.4	83.1	75.8
2	A	C	F	12160	65.4	79.7	72.6
3	A	D	E	11120	59.4	71.9	65.6
4	A	D	F	10140	53.9	64.9	59.4
5	B	C	E	9080	47.9	57.7	52.8
6	B	C	F	8070	42.4	50.9	46.6
7	B	D	E	7060	37.1	44.2	40.7
8	B	D	F	6030	31.6	37.5	34.6