

Photometric test report

Family
Licross® 21 Recessed

Order number: 52TL12CN495M
EAN: 4058352890721

LP number
59446_46



Version cover frosted, wide distribution, high visual comfort
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-Multilumen CLOi
Rated values Net luminous flux = 10000 lm
 Power consumption = 53.0 W
 Luminous efficacy = 188.7 lm/W

serial
documentation
17.08.2023

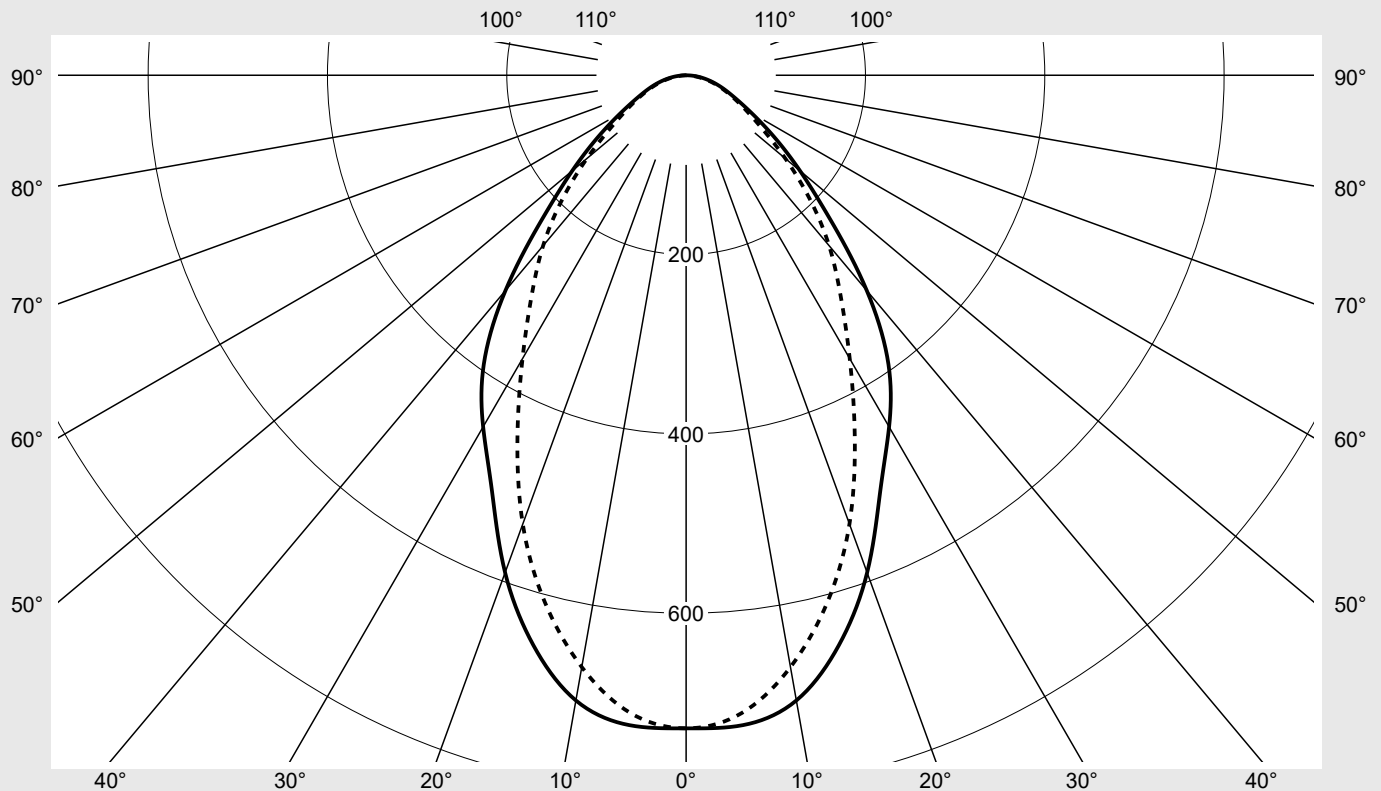
siteco

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
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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°	728.4	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
Reflection factor of walls		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3
Reflection factor of floor		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	23.8	22.7	24.1	24.4	21.9	23.4	22.3	23.7
	3H	23.0	24.3	23.4	24.6	25.0	22.7	24.0	23.1	24.4
	4H	23.4	24.5	23.7	24.9	25.3	23.1	24.3	23.5	24.7
	6H	23.7	24.8	24.1	25.1	25.5	23.4	24.5	23.8	24.8
	8H	23.9	24.8	24.3	25.2	25.6	23.5	24.5	23.9	24.9
	12H	24.0	24.9	24.4	25.3	25.7	23.6	24.5	24.0	24.9
4H	2H	22.6	23.8	23.0	24.2	24.5	22.3	23.5	22.7	23.9
	3H	23.4	24.4	23.8	24.7	25.2	23.3	24.3	23.7	24.7
	4H	23.8	24.7	24.2	25.1	25.5	23.8	24.6	24.2	25.1
	6H	24.2	24.9	24.6	25.4	25.8	24.1	24.9	24.6	25.3
	8H	24.3	25.0	24.8	25.5	26.0	24.2	24.9	24.7	25.4
	12H	24.5	25.1	25.0	25.6	26.1	24.3	24.9	24.8	25.4
8H	4H	23.9	24.6	24.3	25.0	25.5	23.9	24.6	24.3	25.0
	6H	24.3	24.9	24.8	25.3	25.8	24.3	24.9	24.8	25.4
	8H	24.5	25.0	25.0	25.5	26.0	24.5	25.0	25.0	25.5
	12H	24.7	25.1	25.2	25.6	26.2	24.6	25.0	25.1	25.5
12H	4H	23.9	24.5	24.4	24.9	25.4	23.9	24.5	24.4	24.9
	6H	24.3	24.8	24.8	25.3	25.8	24.3	24.8	24.8	25.3
	8H	24.5	24.9	25.1	25.4	26.0	24.5	24.9	25.0	25.4

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1500 B = 58	
C-planes	γ	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°
			Luminance in cd/m²				
45° 50° 55° 60°	γ	36939.9	35386.1	33892.7	31117.4	28644.3	30422.3
		29654.4	27053.0	25623.5	26421.2	24844.9	25459.9
		23993.0	21090.1	18780.3	21825.9	21931.6	20879.1
		19389.2	16774.9	14477.7	18042.8	19257.2	17334.0
65° 70° 75° 80°	γ	16475.6	14006.3	11823.9	15042.8	16732.6	15106.2
		15045.2	12411.0	9900.3	12549.5	13626.3	13426.3
		14165.1	11270.0	8532.6	10487.1	12254.2	11995.2
		13388.8	10281.7	7359.3	8466.7	10107.6	10314.8
85°	γ	12414.0	9492.8	6405.5	6640.2	7663.6	7889.2

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Luminance values in cd/m²

γ 65°

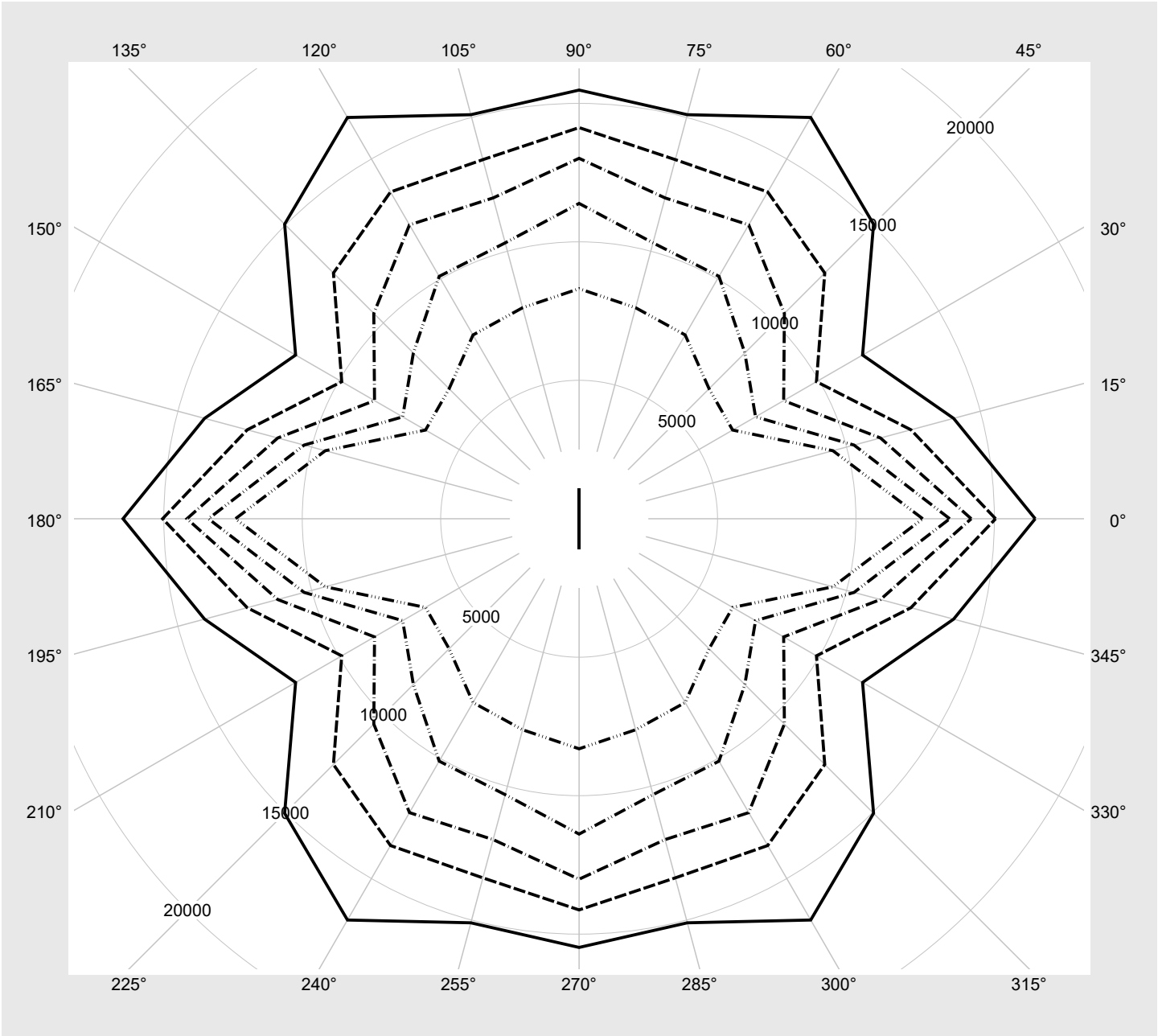
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Family Licross® 21 Recessed	Order number: 52TL12CN495M EAN: 4058352890721	LP number 59446_46
Multilumen Table		environmental temperature: 25°C
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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	10000	53.0	64.5	58.8
2	A	C	F	9540	50.4	60.7	55.6
3	A	D	E	9010	47.5	56.8	52.2
4	A	D	F	8470	44.6	53.0	48.8
5	B	C	E	8000	42.0	50.1	46.0
6	B	C	F	7540	39.5	47.5	43.5
7	B	D	E	6990	36.7	43.3	40.0
8	B	D	F	6510	34.1	40.8	37.4