

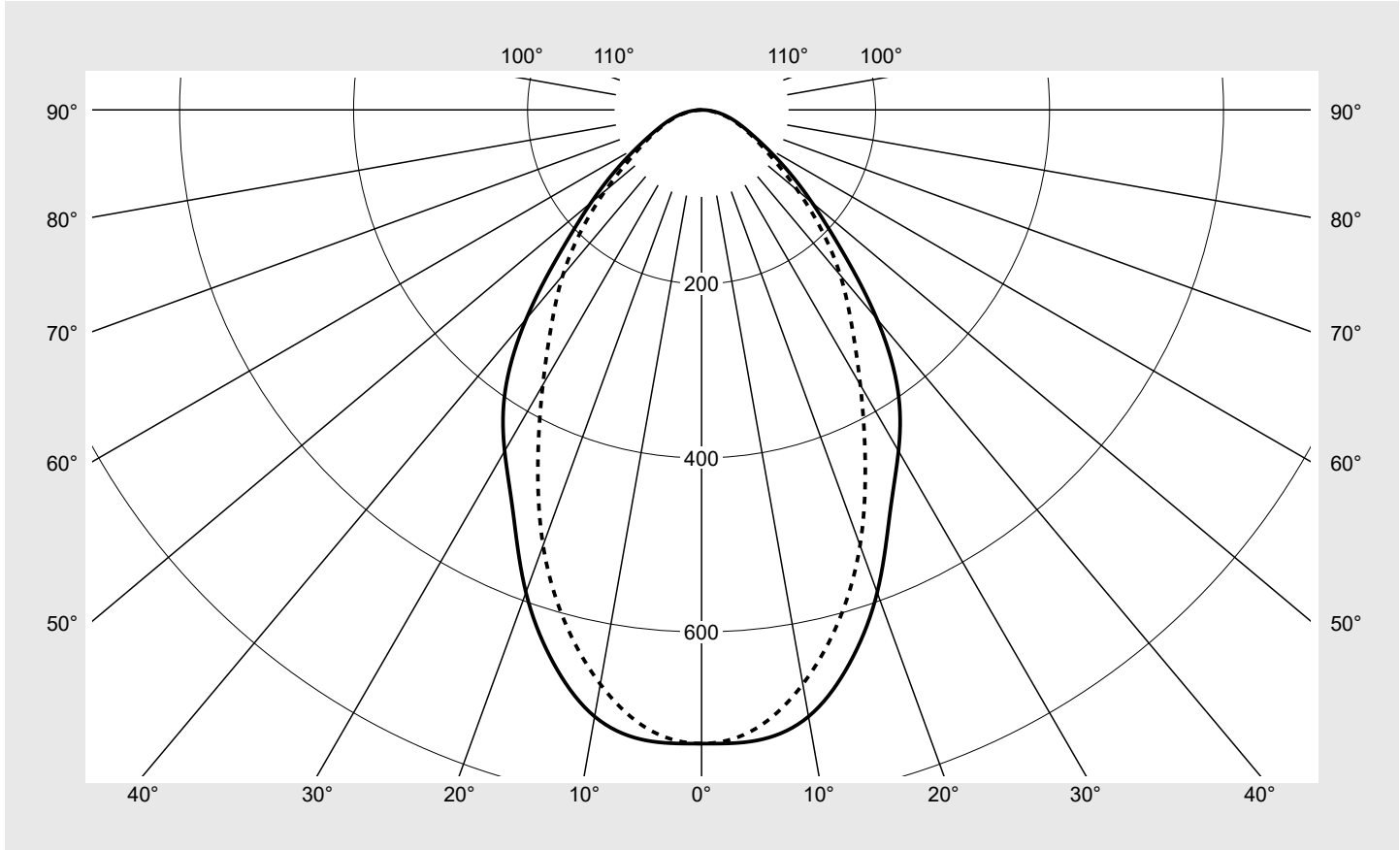
Photometric test report

Family Licross® 21 Recessed	Order number: 52TL12CN4C5M EAN: 4058352890769	LP number 59446_45
	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





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 γ	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
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
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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	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
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	

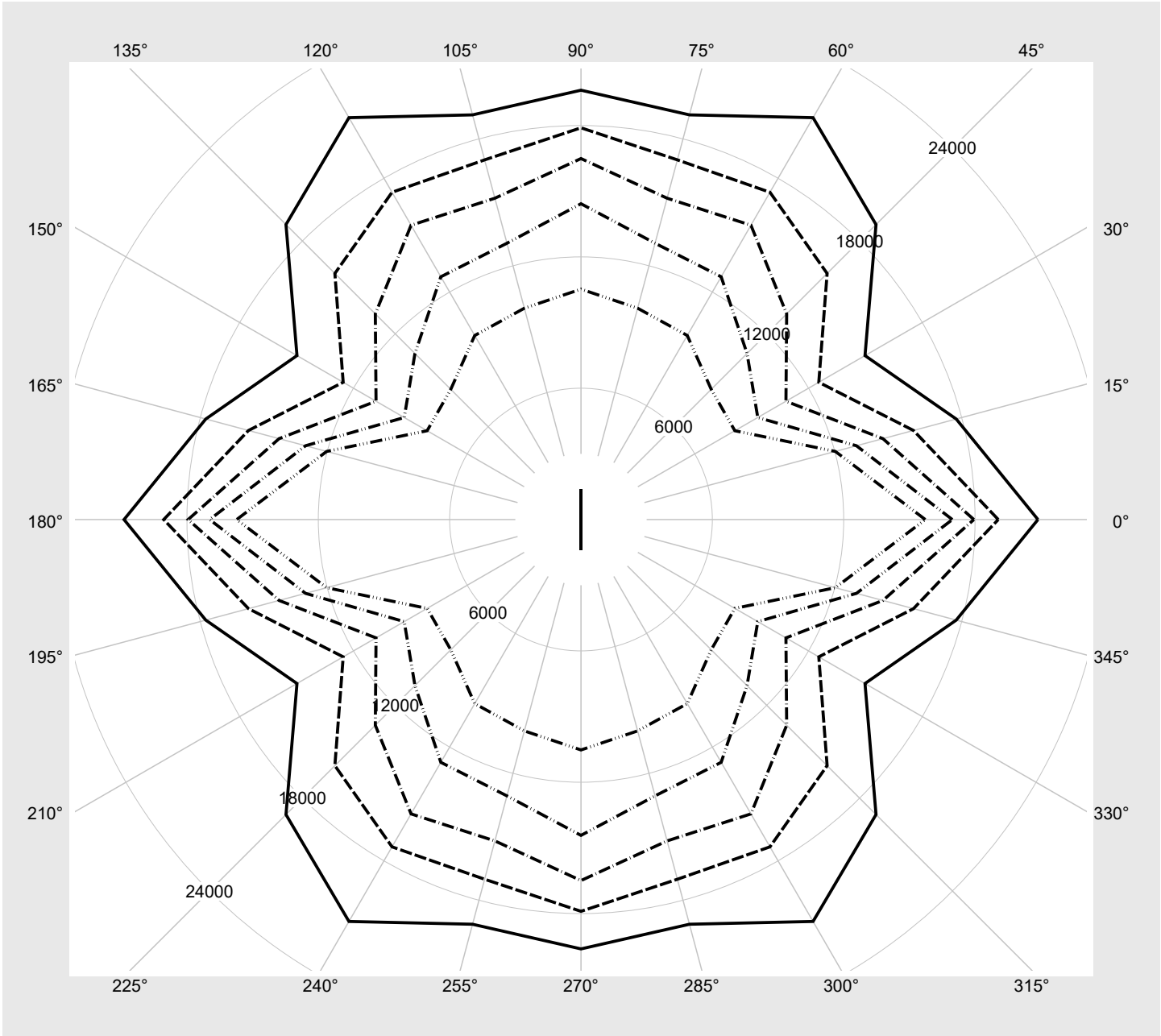
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco



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Multilumen Table	environmental temperature: 25°C	siteco
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]	Power consumption	Power consumption
	1	2	3			end of lifetime [W]	average [W]
1	A	C	E	12670	68.4	83.1	75.8
2	A	C	F	12156	65.4	79.7	72.6
3	A	D	E	11116	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	8072	42.4	50.9	46.6
7	B	D	E	7065	37.1	44.2	40.7
8	B	D	F	6025	31.6	37.5	34.6