

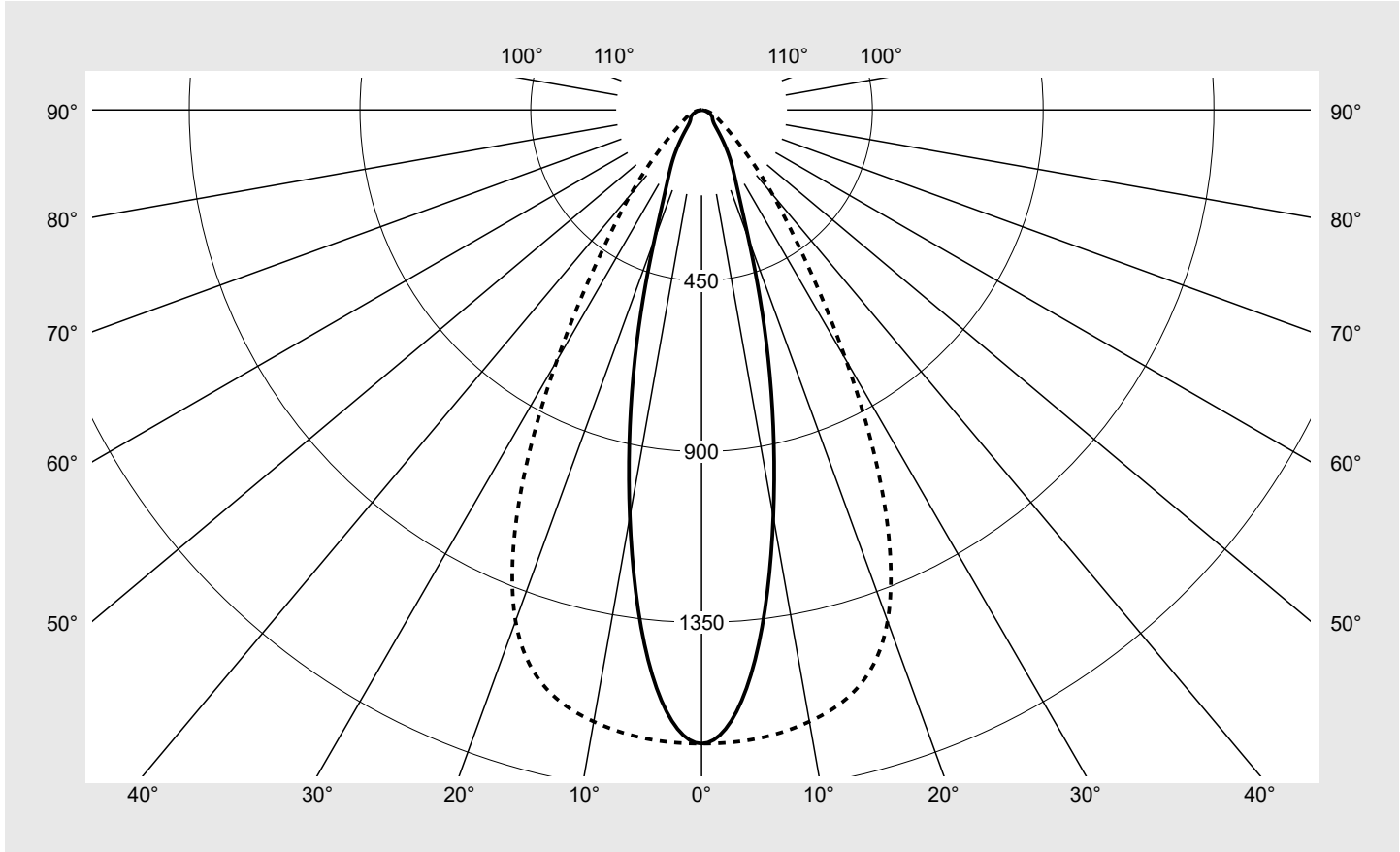


Photometric test report

Family Licross® 21 Recessed	Order number: 52TL1EMN4E5S EAN: 4058352891926	LP number 59263_178
	Version cover frosted, elliptical narrow distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Multilumen Rated values Net luminous flux = 14710 lm Power consumption = 83.1 W Luminous efficacy = 177 lm/W	serial documentation 24.08.2023
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 1670 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=85 N2=95 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
		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°	1669.5	1669.5	1669.5	1669.5	1669.5	1669.5	1669.5	10.0	10.0
5°	1493.3	1495.6	1516.6	1565.9	1616.3	1649.8	1662.9	75.0	85.0
10°	1088.5	1106.7	1175.0	1303.4	1460.6	1586.1	1636.2	126.8	211.8
15°	678.3	712.7	825.0	1006.5	1239.9	1474.8	1578.7	151.0	362.9
20°	362.1	388.9	492.0	707.6	980.6	1275.8	1432.9	148.2	511.0
25°	217.8	231.1	285.8	436.7	705.9	972.9	1137.5	127.8	638.8
30°	151.3	158.5	185.3	264.1	455.8	646.3	761.7	99.0	737.8
35°	95.4	107.0	131.3	171.8	268.4	391.1	463.8	70.7	808.5
40°	57.7	64.5	93.9	120.6	157.9	239.7	291.4	50.0	858.5
45°	43.5	45.9	58.2	86.3	99.5	145.4	176.9	35.2	893.7
50°	37.7	39.0	42.8	61.0	68.3	89.3	109.1	26.2	919.9
55°	34.6	35.0	36.7	43.5	50.5	59.6	73.7	20.9	940.8
60°	30.2	31.1	32.8	34.2	38.6	42.0	53.5	17.5	958.3
65°	23.9	25.4	29.1	28.1	30.1	30.8	41.3	14.6	972.8
70°	17.0	18.4	22.5	23.3	23.4	22.7	30.8	11.5	984.3
75°	10.9	12.0	16.2	17.9	17.4	15.7	20.7	8.4	992.7
80°	6.2	6.7	9.0	10.7	11.0	9.3	11.6	5.0	997.7
85°	3.1	3.3	4.2	5.0	4.8	3.9	4.2	2.3	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	16.5	17.7	16.8	18.0	18.4	21.5	22.7	21.9	23.0	23.4
	3H	17.7	18.8	18.1	19.1	19.4	22.1	23.1	22.5	23.5	23.8
	4H	18.0	19.1	18.4	19.4	19.8	22.4	23.3	22.8	23.7	24.0
	6H	18.2	19.2	18.7	19.6	20.0	22.6	23.4	23.0	23.8	24.2
	8H	18.4	19.2	18.9	19.6	20.0	22.7	23.5	23.1	23.8	24.3
	12H	18.5	19.3	18.9	19.6	20.1	22.8	23.4	23.2	23.8	24.2
4H	2H	17.3	18.3	17.7	18.6	19.0	21.5	22.5	21.9	22.9	23.2
	3H	18.7	19.6	19.2	20.0	20.4	22.2	23.0	22.6	23.4	23.8
	4H	19.2	20.0	19.7	20.4	20.8	22.6	23.3	23.0	23.7	24.2
	6H	19.5	20.2	20.0	20.6	21.1	22.9	23.5	23.3	23.9	24.4
	8H	19.7	20.2	20.1	20.7	21.2	23.0	23.5	23.5	24.0	24.5
	12H	19.7	20.2	20.2	20.7	21.2	23.1	23.5	23.6	24.0	24.5
8H	4H	19.7	20.3	20.2	20.7	21.2	22.7	23.2	23.1	23.7	24.2
	6H	20.2	20.6	20.7	21.1	21.6	23.1	23.5	23.6	24.0	24.5
	8H	20.3	20.7	20.8	21.2	21.7	23.2	23.6	23.7	24.1	24.6
	12H	20.4	20.8	21.0	21.3	21.8	23.3	23.6	23.8	24.1	24.7
12H	4H	19.8	20.2	20.3	20.7	21.2	22.7	23.2	23.1	23.6	24.1
	6H	20.3	20.7	20.8	21.1	21.7	23.1	23.5	23.6	24.0	24.5
	8H	20.5	20.8	21.0	21.3	21.9	23.2	23.6	23.8	24.1	24.6

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1500 B = 58
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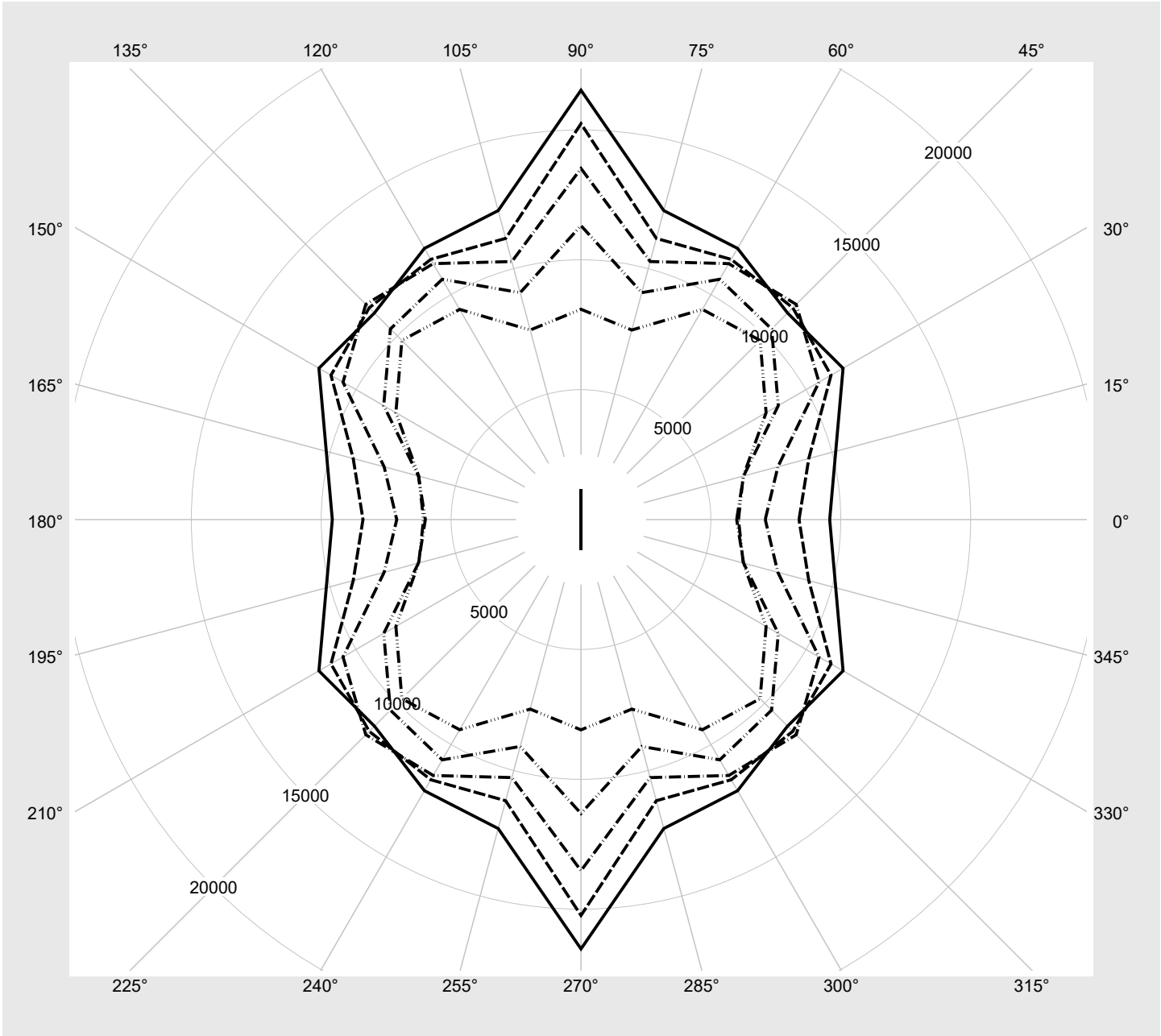
C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°	10398.9	10969.4	13905.1	20630.4	23800.2	34767.4	42309.2		
50°	9927.0	10253.4	11257.4	16054.8	17968.7	23497.6	28707.4		
55°	10188.3	10311.8	10824.4	12815.7	14891.5	17576.7	21731.1		
60°	10197.6	10532.7	11096.8	11574.2	13050.6	14196.3	18088.9		
65°	9573.1	10151.6	11649.1	11245.8	12054.4	12314.0	16528.8		
70°	8392.7	9077.9	11112.7	11529.4	11566.0	11205.6	15240.1		
75°	7092.6	7845.2	10579.2	11715.2	11376.8	10283.2	13515.6		
80°	5992.1	6479.9	8769.1	10376.7	10681.4	9043.7	11314.3		
85°	6062.4	6466.0	8227.5	9752.3	9342.9	7554.3	8095.5		

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Luminance values in cd/m²

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°



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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]
	1	2	3		
1	A	C	E	14710	83.1
2	A	C	F	13818	77.5
3	A	D	E	12768	71.1
4	A	D	F	11844	65.4
5	B	C	E	10836	59.4
6	B	C	F	9880	53.9
7	B	D	E	8851	47.9
8	B	D	F	7864	42.4