
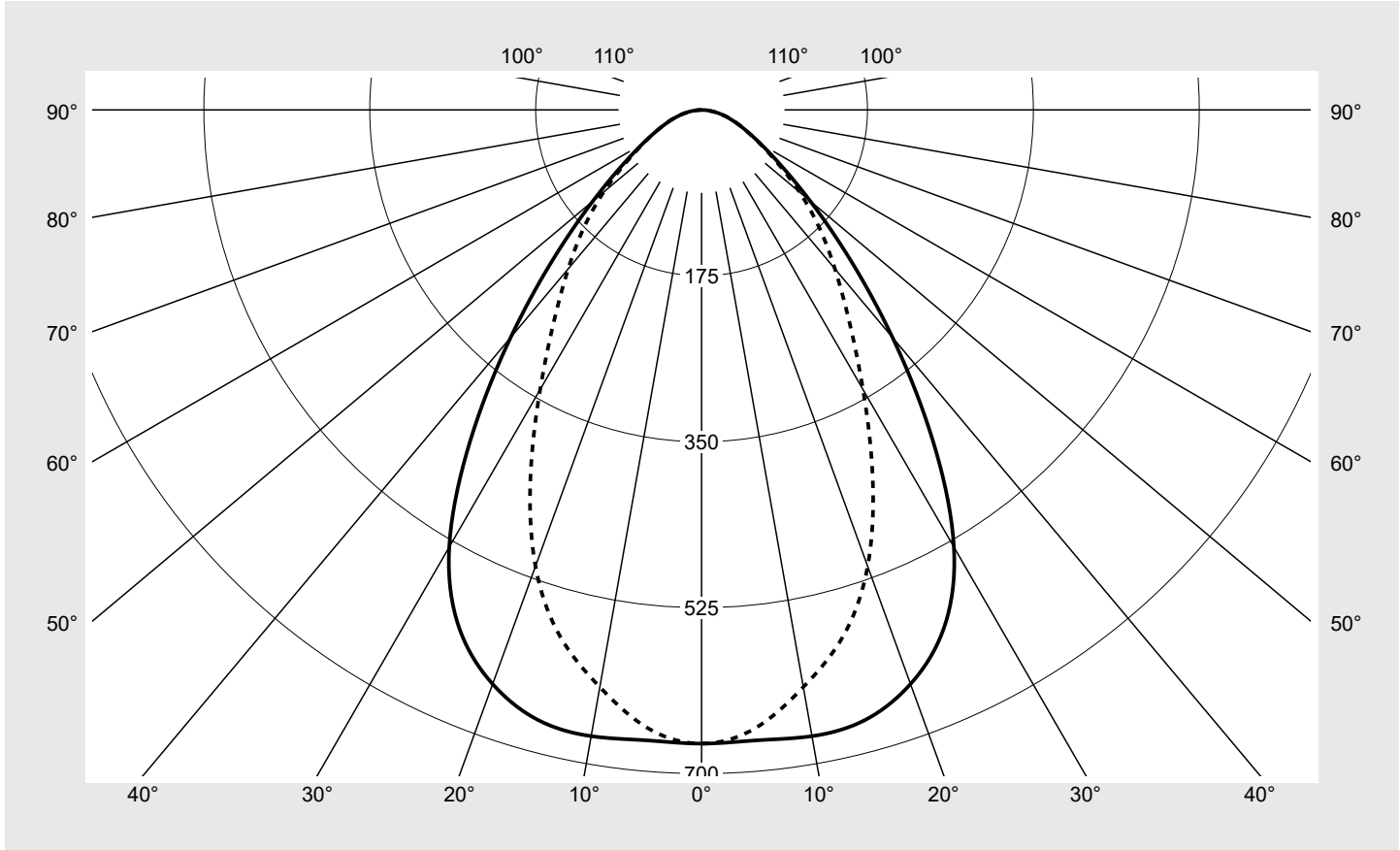


Photometric test report

Family Licross® 21 Recessed	Order number: 52TL12MN4A5G EAN: 4058352891100	LP number 59101_335
	Version cover frosted, wide distribution, high visual comfort Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Multilumen Rated values Net luminous flux = 10990 lm Power consumption = 60.5 W Luminous efficacy = 181.7 lm/W	serial documentation 24.08.2023
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 671 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=72 N2=92 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°	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
	Luminous intensity in cd/klm							Luminous flux in lm/klm	
0°	668.4	668.4	668.4	668.4	668.4	668.4	668.4	4.0	4.0
5°	667.5	664.4	657.4	655.8	655.7	654.2	654.4	31.4	35.4
10°	670.7	665.0	649.1	636.1	625.3	618.7	618.1	60.9	96.3
15°	666.2	657.2	632.9	612.0	594.0	578.5	575.5	87.4	183.7
20°	644.4	632.9	606.9	585.4	554.6	522.7	512.3	108.8	292.5
25°	604.1	590.6	566.7	541.2	494.5	444.9	427.0	121.8	414.2
30°	532.4	517.7	496.3	466.1	413.9	359.9	340.6	122.9	537.1
35°	425.0	409.7	387.0	361.9	325.4	286.0	271.1	111.0	648.1
40°	313.4	295.8	270.7	255.1	246.8	229.4	218.8	91.8	739.9
45°	219.2	200.3	175.7	171.1	181.8	184.7	175.5	71.8	811.7
50°	149.7	132.6	112.6	116.3	133.0	145.6	134.9	54.8	866.5
55°	102.7	89.1	74.7	81.5	98.1	107.9	98.1	41.3	907.7
60°	72.4	62.1	51.3	58.3	71.8	76.5	71.0	31.0	938.7
65°	52.1	44.3	35.9	41.6	51.4	54.2	52.1	23.1	961.9
70°	37.6	31.7	24.7	29.1	35.6	38.4	38.3	16.9	978.8
75°	26.0	21.3	16.2	19.0	22.9	25.9	26.8	11.6	990.4
80°	16.1	12.5	9.2	10.4	12.6	14.8	15.7	6.8	997.3
85°	7.0	5.4	3.8	4.1	4.8	5.7	5.8	2.7	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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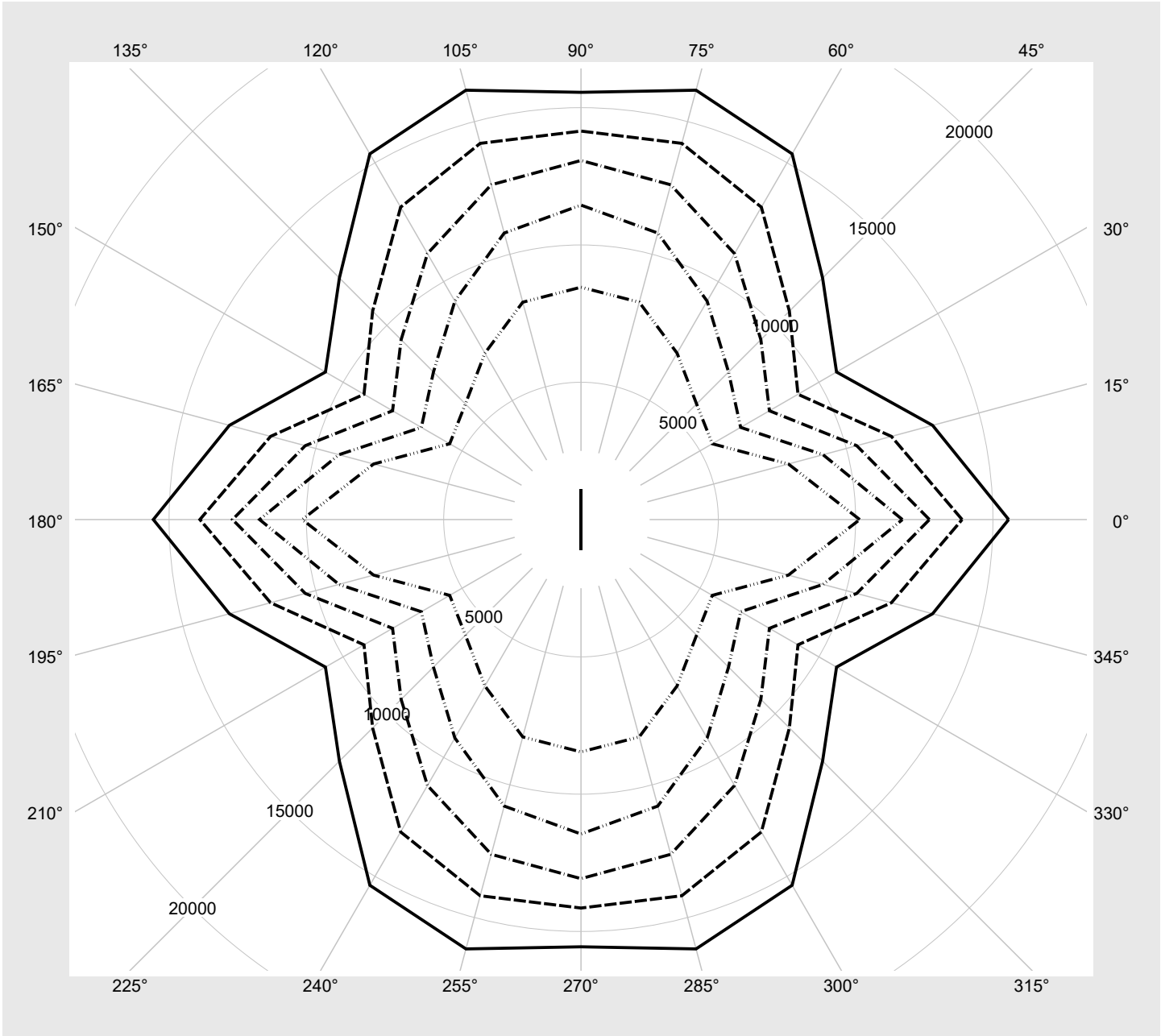
UGR-Table		Standard room									
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	22.1	23.5	22.4	23.8	24.1	22.0	23.4	22.4	23.8	24.1
	3H	22.7	23.9	23.0	24.3	24.6	22.8	24.1	23.2	24.4	24.8
	4H	22.9	24.1	23.3	24.5	24.8	23.1	24.3	23.5	24.7	25.0
	6H	23.2	24.3	23.6	24.6	25.0	23.4	24.5	23.8	24.8	25.2
	8H	23.4	24.3	23.8	24.7	25.1	23.5	24.5	24.0	24.9	25.3
	12H	23.4	24.3	23.9	24.7	25.1	23.6	24.5	24.0	24.9	25.3
4H	2H	22.2	23.4	22.6	23.8	24.1	22.2	23.4	22.6	23.7	24.1
	3H	22.9	23.9	23.3	24.3	24.7	23.2	24.1	23.6	24.5	24.9
	4H	23.2	24.1	23.7	24.5	25.0	23.6	24.5	24.1	24.9	25.3
	6H	23.6	24.3	24.0	24.8	25.2	24.0	24.7	24.4	25.2	25.6
	8H	23.7	24.4	24.2	24.8	25.3	24.1	24.8	24.6	25.2	25.7
	12H	23.8	24.4	24.3	24.9	25.4	24.2	24.8	24.7	25.2	25.7
8H	4H	23.3	24.0	23.8	24.5	24.9	23.7	24.3	24.1	24.8	25.3
	6H	23.7	24.2	24.2	24.7	25.2	24.1	24.7	24.6	25.1	25.6
	8H	23.8	24.3	24.3	24.8	25.3	24.3	24.7	24.8	25.2	25.8
	12H	24.0	24.4	24.5	24.9	25.4	24.4	24.8	24.9	25.3	25.8
12H	4H	23.3	23.9	23.8	24.4	24.9	23.7	24.3	24.2	24.7	25.2
	6H	23.7	24.2	24.2	24.7	25.2	24.1	24.6	24.6	25.1	25.6
	8H	23.9	24.3	24.4	24.8	25.3	24.3	24.7	24.8	25.2	25.7

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°	90° 270°				
Luminance in cd/m²												
45°		39162.8	35791.4	31383.3	30572.6	32477.7	32995.9	31356.8				
50°		29416.4	26053.5	22130.5	22856.7	26136.4	28617.1	26502.0				
55°		22610.7	19628.7	16455.5	17954.3	21600.5	23774.0	21595.0				
60°		18286.9	15697.5	12962.6	14740.2	18131.5	19330.0	17932.4				
65°		15573.4	13254.9	10745.0	12441.5	15377.7	16187.1	15558.5				
70°		13878.0	11701.8	9124.2	10730.8	13136.0	14183.0	14147.2				
75°		12689.3	10394.4	7922.8	9262.6	11182.2	12621.5	13076.4				
80°		11704.1	9124.5	6713.0	7598.3	9185.6	10802.0	11451.7				
85°		10150.0	7818.0	5520.7	5952.6	6997.6	8194.8	8461.5				

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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	
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	10990	60.5
2	A	C	F	10339	56.5
3	A	D	E	9846	53.4
4	A	D	F	9332	50.3
5	B	C	E	8817	47.3
6	B	C	F	8292	44.4
7	B	D	E	7768	41.4
8	B	D	F	7232	38.4