
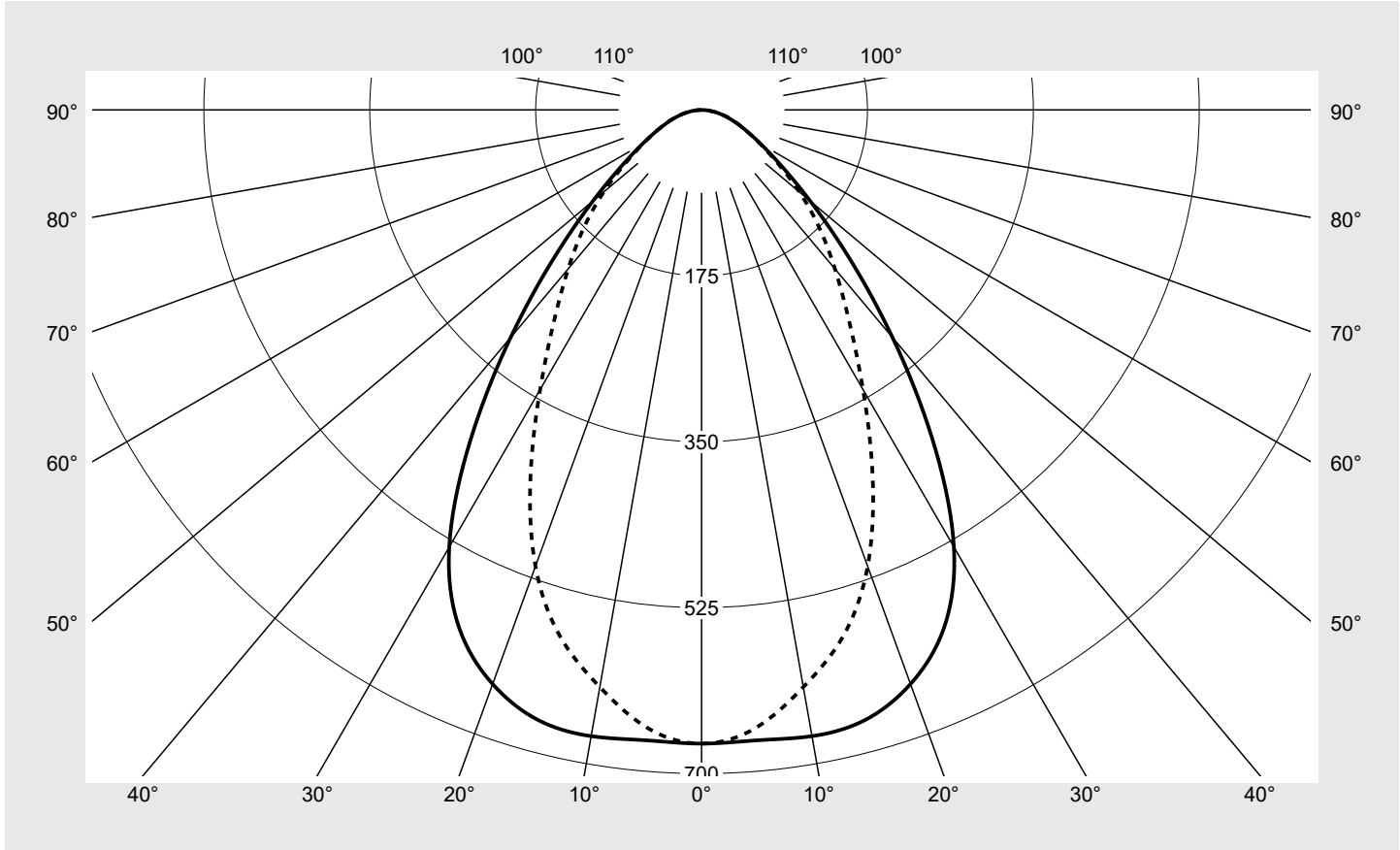


Photometric test report

Family Licross® 21 Recessed	Order number: 52TL12DN4AXG3C EAN: 4058352908082	LP number 59101_312
	Version cover frosted, wide distribution, high visual comfort Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Setting AC-mode Rated values Net luminous flux = 10280 lm Power consumption = 61.8 W Luminous efficacy = 166.3 lm/W	serial documentation 17.08.2023



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°	30°	45°	60°	75°	90°	Phi-zone	Total Phi-zone
	180°	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°	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	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	21.8	23.3	22.2	23.6	23.9	21.8	23.2	22.1	23.5	23.8
	3H	22.4	23.7	22.8	24.0	24.4	22.6	23.8	22.9	24.2	24.5
	4H	22.7	23.9	23.1	24.2	24.6	22.9	24.1	23.3	24.4	24.8
	6H	23.0	24.0	23.4	24.4	24.8	23.2	24.2	23.6	24.6	25.0
	8H	23.1	24.1	23.6	24.5	24.9	23.3	24.3	23.7	24.7	25.1
	12H	23.2	24.1	23.6	24.5	24.9	23.3	24.2	23.8	24.6	25.1
4H	2H	22.0	23.2	22.4	23.5	23.9	22.0	23.2	22.4	23.5	23.9
	3H	22.7	23.7	23.1	24.0	24.5	22.9	23.9	23.4	24.3	24.7
	4H	23.0	23.9	23.5	24.3	24.7	23.4	24.3	23.8	24.7	25.1
	6H	23.3	24.1	23.8	24.5	25.0	23.7	24.5	24.2	24.9	25.4
	8H	23.5	24.2	24.0	24.6	25.1	23.9	24.5	24.3	25.0	25.5
	12H	23.6	24.2	24.1	24.6	25.1	24.0	24.5	24.4	25.0	25.5
8H	4H	23.1	23.8	23.6	24.2	24.7	23.4	24.1	23.9	24.6	25.0
	6H	23.5	24.0	23.9	24.5	25.0	23.9	24.4	24.4	24.9	25.4
	8H	23.6	24.1	24.1	24.6	25.1	24.0	24.5	24.5	25.0	25.5
	12H	23.8	24.2	24.3	24.7	25.2	24.2	24.6	24.7	25.1	25.6
12H	4H	23.1	23.7	23.6	24.2	24.7	23.5	24.0	23.9	24.5	25.0
	6H	23.5	23.9	24.0	24.4	25.0	23.9	24.3	24.4	24.8	25.4
	8H	23.6	24.0	24.2	24.5	25.1	24.1	24.5	24.6	25.0	25.5

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1500
			B = 58

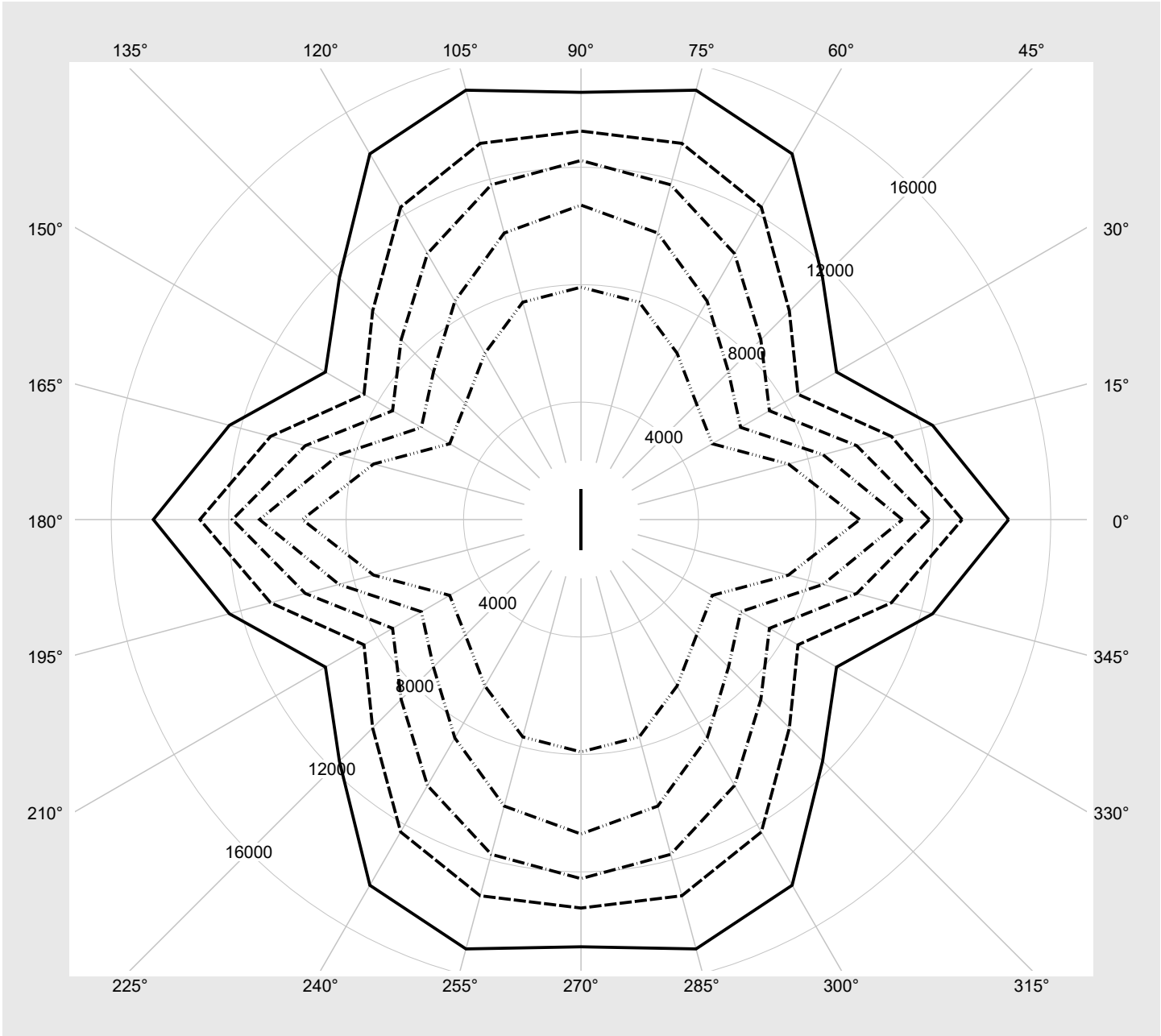
C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		36632.7	33479.1	29355.8	28597.5	30379.5	30864.3	29331.1	
50°		27516.0	24370.3	20700.8	21380.0	24447.9	26768.3	24789.8	
55°		21149.9	18360.6	15392.5	16794.3	20205.0	22238.1	20199.8	
60°		17105.4	14683.4	12125.2	13788.0	16960.1	18081.2	16773.9	
65°		14567.3	12398.5	10050.8	11637.8	14384.2	15141.3	14553.4	
70°		12981.4	10945.8	8534.7	10037.6	12287.3	13266.8	13233.2	
75°		11869.6	9722.9	7411.0	8664.2	10459.8	11806.1	12231.6	
80°		10947.9	8535.0	6279.3	7107.4	8592.2	10104.2	10711.8	
85°		9494.3	7312.9	5164.0	5568.0	6545.5	7665.4	7914.8	

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Luminance values in cd/m²

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°



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Dimming levels table	environmental temperature: 25°C	sITeco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	10280	61.8
95	240	252	9762	58.6
90	226	250	9239	55.3
85	213	248	8746	52.5
80	199	245	8210	49.3
75	186	243	7706	46.4
70	173	240	7198	43.4
65	160	237	6687	40.6
60	147	234	6170	37.7
55	134	231	5647	34.8
50	122	227	5159	32.2
45	109	223	4627	29.3
40	97	219	4132	26.7
35	84	213	3591	23.9
30	72	208	3086	21.3
25	60	201	2577	18.8
20	48	193	2065	16.1
15	36	182	1550	13.5
10	24	168	1031	11.0
5	12	142	509	8.4
2	4	102	158	6.8