

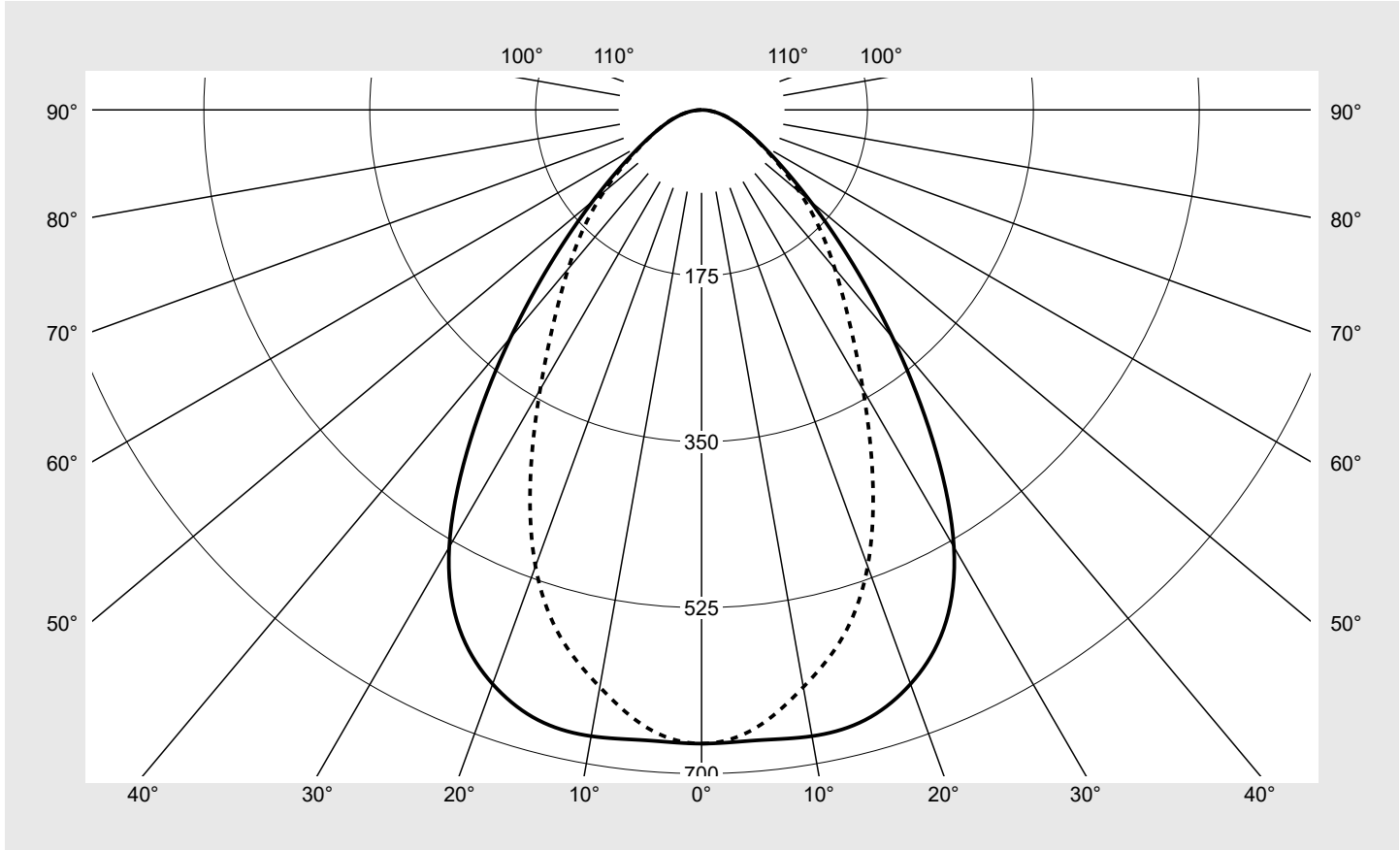


Photometric test report

Family Licross® 21 Recessed	Order number: 52TL12DN5AXG EAN: 4058352971338	LP number 59101_353
	Version cover frosted, wide distribution, high visual comfort Lamps LED 5000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 10170 lm Power consumption = 58.0 W Luminous efficacy = 175.3 lm/W	serial documentation 28.09.2023
		

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	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	23.2	22.2	23.5	23.9	21.7	23.2	22.1	23.5	23.8
	3H	22.4	23.7	22.8	24.0	24.3	22.5	23.8	22.9	24.1	24.5
	4H	22.7	23.8	23.1	24.2	24.6	22.9	24.0	23.3	24.4	24.8
	6H	22.9	24.0	23.3	24.4	24.8	23.1	24.2	23.5	24.6	25.0
	8H	23.1	24.0	23.5	24.4	24.8	23.3	24.2	23.7	24.6	25.0
	12H	23.2	24.0	23.6	24.4	24.9	23.3	24.2	23.7	24.6	25.0
4H	2H	22.0	23.2	22.4	23.5	23.9	21.9	23.1	22.3	23.5	23.8
	3H	22.6	23.6	23.1	24.0	24.4	22.9	23.9	23.3	24.3	24.7
	4H	23.0	23.9	23.4	24.3	24.7	23.3	24.2	23.8	24.6	25.1
	6H	23.3	24.1	23.8	24.5	24.9	23.7	24.5	24.2	24.9	25.4
	8H	23.4	24.1	23.9	24.6	25.0	23.8	24.5	24.3	25.0	25.4
	12H	23.6	24.1	24.1	24.6	25.1	23.9	24.5	24.4	25.0	25.5
8H	4H	23.1	23.7	23.5	24.2	24.7	23.4	24.1	23.9	24.5	25.0
	6H	23.4	24.0	23.9	24.4	24.9	23.8	24.4	24.3	24.9	25.4
	8H	23.6	24.1	24.1	24.5	25.1	24.0	24.5	24.5	25.0	25.5
	12H	23.7	24.1	24.2	24.6	25.2	24.1	24.5	24.6	25.0	25.6
12H	4H	23.1	23.7	23.6	24.1	24.6	23.4	24.0	23.9	24.4	24.9
	6H	23.4	23.9	23.9	24.4	24.9	23.8	24.3	24.4	24.8	25.3
	8H	23.6	24.0	24.1	24.5	25.0	24.0	24.4	24.5	24.9	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°		36240.7	33120.9	29041.7	28291.5	30054.4	30534.0	29017.2	
50°		27221.5	24109.6	20479.3	21151.3	24186.3	26481.9	24524.6	
55°		20923.6	18164.1	15227.7	16614.6	19988.8	22000.1	19983.7	
60°		16922.4	14526.3	11995.5	13640.4	16778.6	17887.7	16594.4	
65°		14411.5	12265.9	9943.2	11513.2	14230.3	14979.3	14397.6	
70°		12842.5	10828.7	8443.4	9930.2	12155.8	13124.8	13091.6	
75°		11742.5	9618.9	7331.7	8571.5	10347.8	11679.8	12100.7	
80°		10830.8	8443.7	6212.1	7031.4	8500.2	9996.1	10597.2	
85°		9392.7	7234.6	5108.8	5508.5	6475.5	7583.4	7830.1	

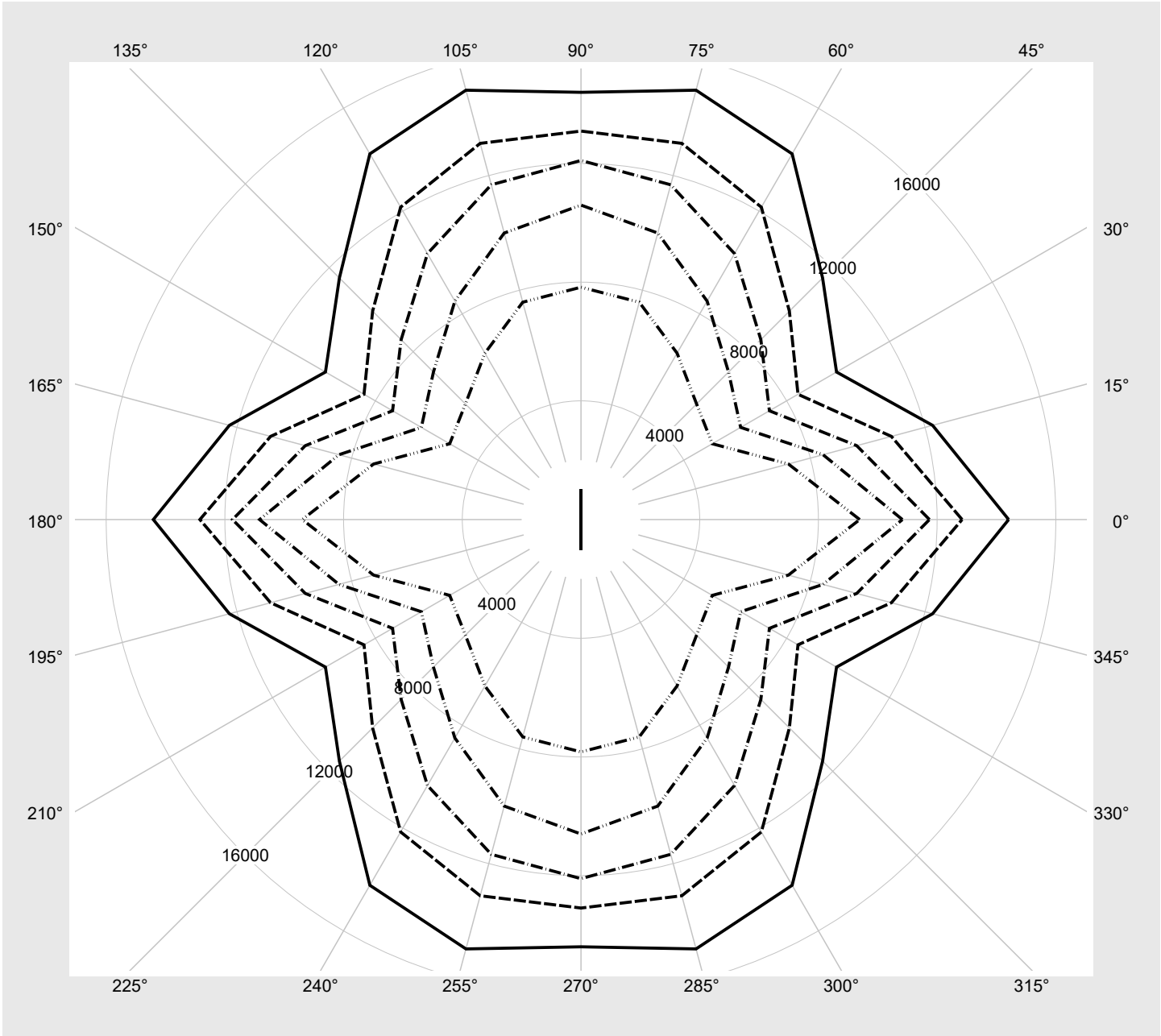
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco



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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	10170	58.0
95	240	252	9657	54.8
90	226	250	9139	51.5
85	213	248	8650	48.7
80	199	245	8120	45.5
75	186	243	7621	42.6
70	173	240	7118	39.6
65	160	237	6612	36.8
60	147	234	6100	33.9
55	134	231	5583	31.0
50	122	227	5100	28.4
45	109	223	4574	25.5
40	97	219	4084	22.9
35	84	213	3549	20.1
30	72	208	3050	17.5
25	60	201	2547	15.0
20	48	193	2041	12.3
15	36	182	1531	9.7
10	24	168	1019	7.2
5	12	142	503	4.6
2	4	102	156	3.0