
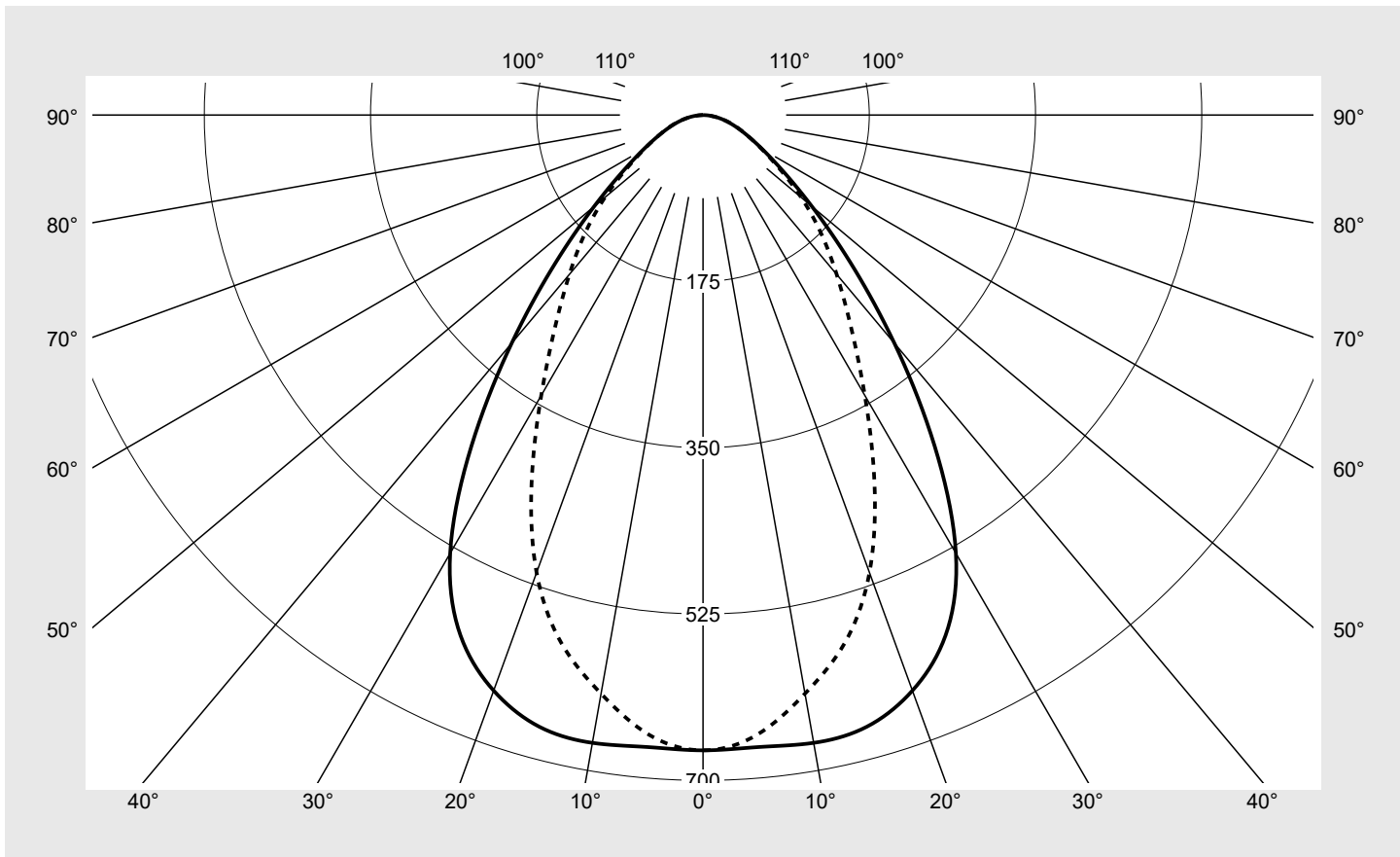


Photometric test report

Family Licross® 21 Recessed	Order number: 52TL12DN455G EAN: 4058352890837	LP number 59101_280
	Version cover frosted, wide distribution, high visual comfort Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 5500 lm Power consumption = 29.6 W Luminous efficacy = 185.8 lm/W	serial documentation 03.08.2023
		

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	19.7	21.1	20.0	21.4	21.7	19.6	21.0	20.0	21.3	21.7
	3H	20.3	21.5	20.6	21.9	22.2	20.4	21.7	20.8	22.0	22.4
	4H	20.5	21.7	20.9	22.1	22.4	20.7	21.9	21.1	22.3	22.6
	6H	20.8	21.9	21.2	22.2	22.6	21.0	22.1	21.4	22.4	22.8
	8H	21.0	21.9	21.4	22.3	22.7	21.1	22.1	21.6	22.5	22.9
	12H	21.0	21.9	21.5	22.3	22.7	21.2	22.1	21.6	22.5	22.9
4H	2H	19.8	21.0	20.2	21.4	21.7	19.8	21.0	20.2	21.3	21.7
	3H	20.5	21.5	20.9	21.9	22.3	20.8	21.7	21.2	22.1	22.5
	4H	20.8	21.7	21.3	22.1	22.6	21.2	22.1	21.6	22.5	22.9
	6H	21.2	21.9	21.6	22.3	22.8	21.6	22.3	22.0	22.8	23.2
	8H	21.3	22.0	21.8	22.4	22.9	21.7	22.4	22.2	22.8	23.3
	12H	21.4	22.0	21.9	22.5	23.0	21.8	22.4	22.3	22.8	23.3
8H	4H	20.9	21.6	21.4	22.0	22.5	21.3	21.9	21.7	22.4	22.9
	6H	21.3	21.8	21.8	22.3	22.8	21.7	22.2	22.2	22.7	23.2
	8H	21.4	21.9	21.9	22.4	22.9	21.9	22.3	22.4	22.8	23.4
	12H	21.6	22.0	22.1	22.5	23.0	22.0	22.4	22.5	22.9	23.4
12H	4H	20.9	21.5	21.4	22.0	22.5	21.3	21.8	21.8	22.3	22.8
	6H	21.3	21.8	21.8	22.3	22.8	21.7	22.2	22.2	22.7	23.2
	8H	21.5	21.9	22.0	22.4	22.9	21.9	22.3	22.4	22.8	23.3

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°		19599.2	17912.0	15705.9	15300.2	16253.6	16513.0	15692.7	
50°		14721.6	13038.6	11075.3	11438.7	13080.1	14321.6	13263.0	
55°		11315.6	9823.3	8235.3	8985.3	10810.1	11897.8	10807.3	
60°		9151.7	7855.9	6487.2	7376.8	9074.0	9673.8	8974.4	
65°		7793.8	6633.5	5377.4	6226.4	7695.8	8100.9	7786.3	
70°		6945.3	5856.2	4566.2	5370.3	6574.0	7098.0	7080.0	
75°		6350.4	5201.9	3965.0	4635.5	5596.2	6316.5	6544.1	
80°		5857.4	4566.4	3359.5	3802.6	4597.0	5405.9	5731.0	
85°		5079.6	3912.5	2762.9	2979.0	3502.0	4101.1	4234.6	

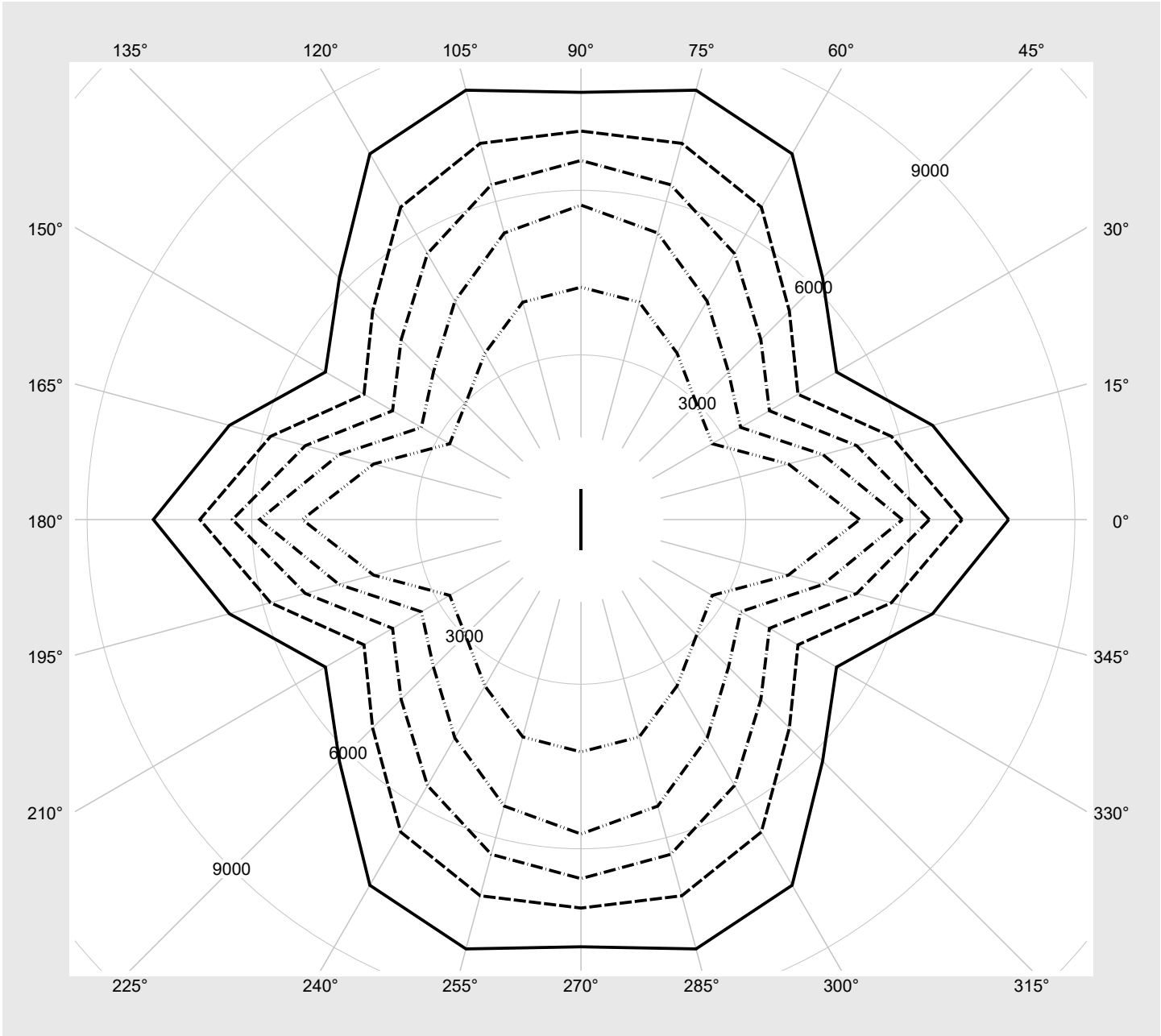
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Luminance values in cd/m²

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	5500	29.6
95	241	252	5229	28.2
90	228	250	4957	26.8
85	215	248	4684	25.4
80	202	246	4408	24.1
75	189	243	4133	22.7
70	176	241	3854	21.2
65	163	238	3576	19.8
60	150	235	3295	18.3
55	137	231	3015	16.8
50	125	228	2753	15.4
45	112	224	2468	13.9
40	100	220	2207	12.5
35	87	215	1921	11.5
30	75	209	1657	10.3
25	62	202	1370	8.9
20	50	194	1103	7.5
15	38	184	837	6.2