

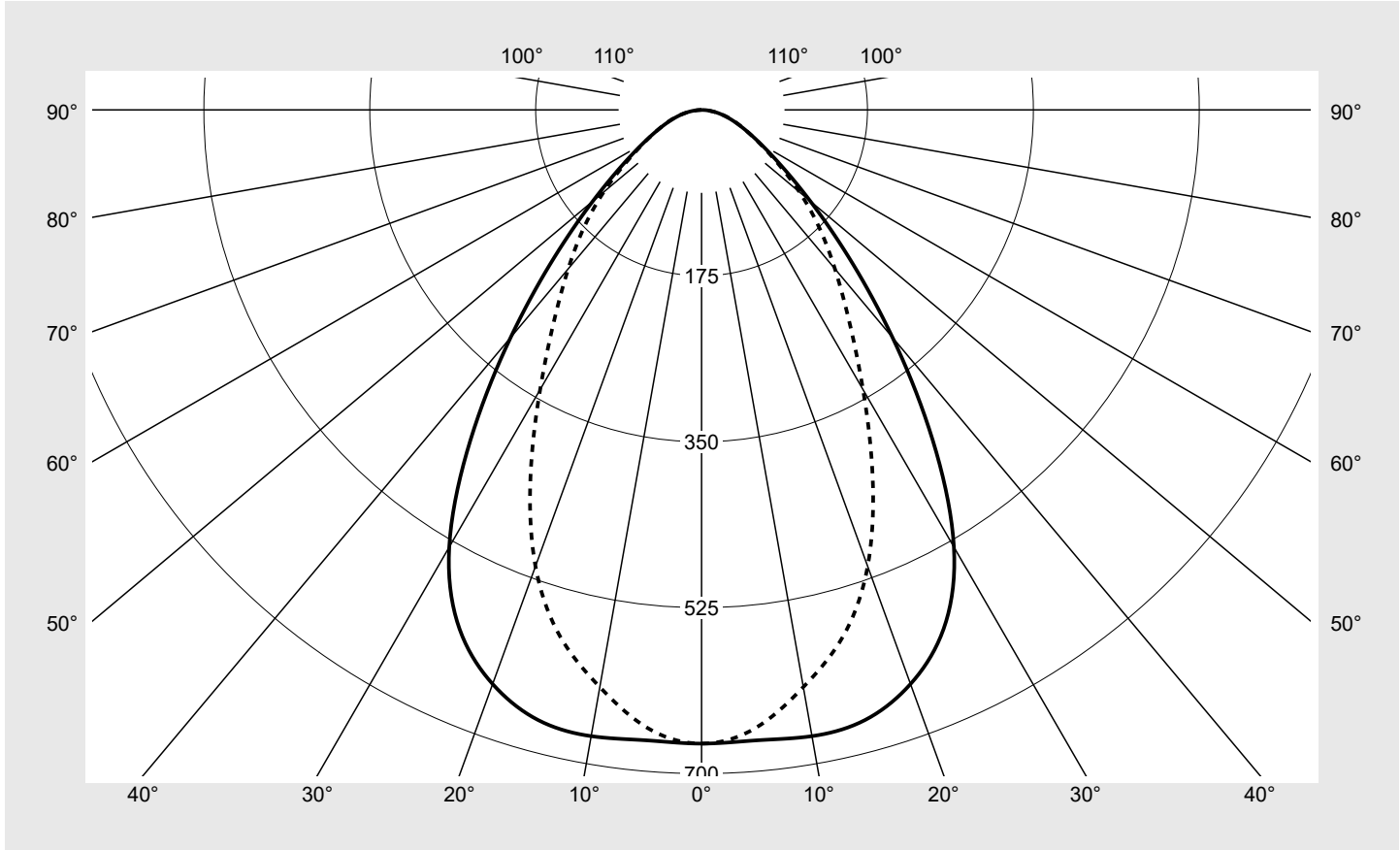


Photometric test report

Family Licross® 21 Recessed	Order number: 52TL12DN48XG EAN: 4058352890882	LP number 59101_282
	Version cover frosted, wide distribution, high visual comfort Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 8000 lm Power consumption = 44.2 W Luminous efficacy = 181 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° 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°	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	21.0	22.4	21.3	22.7	23.0	20.9	22.3	21.3	22.7	23.0
	3H	21.6	22.8	21.9	23.2	23.5	21.7	23.0	22.1	23.3	23.7
	4H	21.8	23.0	22.2	23.4	23.7	22.0	23.2	22.4	23.6	23.9
	6H	22.1	23.2	22.5	23.5	23.9	22.3	23.4	22.7	23.7	24.1
	8H	22.3	23.2	22.7	23.6	24.0	22.4	23.4	22.9	23.8	24.2
	12H	22.3	23.2	22.8	23.6	24.0	22.5	23.4	22.9	23.8	24.2
4H	2H	21.1	22.3	21.5	22.7	23.0	21.1	22.3	21.5	22.6	23.0
	3H	21.8	22.8	22.2	23.2	23.6	22.1	23.0	22.5	23.4	23.8
	4H	22.1	23.0	22.6	23.4	23.9	22.5	23.4	22.9	23.8	24.2
	6H	22.5	23.2	22.9	23.7	24.1	22.9	23.6	23.3	24.1	24.5
	8H	22.6	23.3	23.1	23.7	24.2	23.0	23.7	23.5	24.1	24.6
	12H	22.7	23.3	23.2	23.8	24.3	23.1	23.7	23.6	24.1	24.6
8H	4H	22.2	22.9	22.7	23.3	23.8	22.6	23.2	23.0	23.7	24.2
	6H	22.6	23.1	23.1	23.6	24.1	23.0	23.6	23.5	24.0	24.5
	8H	22.7	23.2	23.2	23.7	24.2	23.2	23.6	23.7	24.1	24.7
	12H	22.9	23.3	23.4	23.8	24.3	23.3	23.7	23.8	24.2	24.7
12H	4H	22.2	22.8	22.7	23.3	23.8	22.6	23.2	23.1	23.6	24.1
	6H	22.6	23.1	23.1	23.6	24.1	23.0	23.5	23.5	24.0	24.5
	8H	22.8	23.2	23.3	23.7	24.2	23.2	23.6	23.7	24.1	24.6

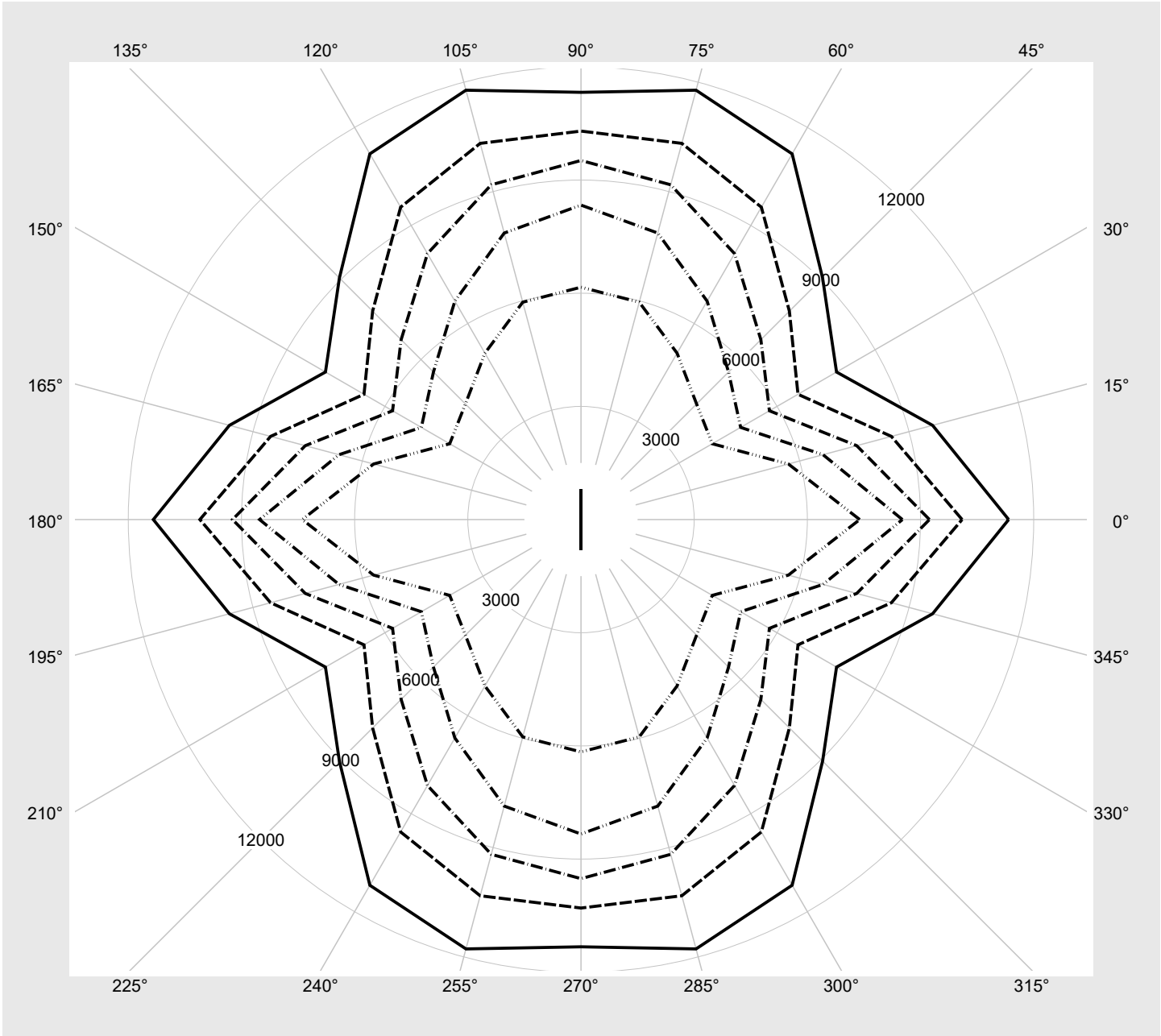
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1500 B = 58
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C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		28507.9	26053.8	22845.0	22254.8	23641.6	24018.9	22825.7	
50°		21413.2	18965.2	16109.6	16638.2	19025.6	20831.4	19291.7	
55°		16459.1	14288.4	11978.6	13069.5	15723.7	17305.9	15719.7	
60°		13311.6	11426.8	9436.0	10729.9	13198.5	14071.0	13053.6	
65°		11336.4	9648.7	7821.6	9056.6	11193.9	11783.1	11325.6	
70°		10102.2	8518.2	6641.8	7811.3	9562.1	10324.3	10298.2	
75°		9237.0	7566.5	5767.3	6742.6	8139.9	9187.6	9518.7	
80°		8519.8	6642.0	4886.6	5531.1	6686.5	7863.2	8336.1	
85°		7388.5	5691.0	4018.7	4333.1	5093.8	5965.3	6159.4	

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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	8000	44.2
95	240	252	7586	41.9
90	227	250	7198	39.7
85	214	248	6811	37.4
80	200	245	6387	35.1
75	187	243	5991	32.9
70	174	240	5590	30.6
65	161	237	5188	28.6
60	149	234	4815	26.6
55	136	231	4407	24.3
50	123	227	3995	22.2
45	111	224	3615	20.2
40	98	219	3198	18.1
35	86	214	2811	16.2
30	73	208	2389	14.0
25	61	202	2001	12.0
20	49	194	1608	10.0
15	37	183	1212	8.1
10	24	168	783	6.0
5	12	142	385	4.0
2	5	110	150	2.9