
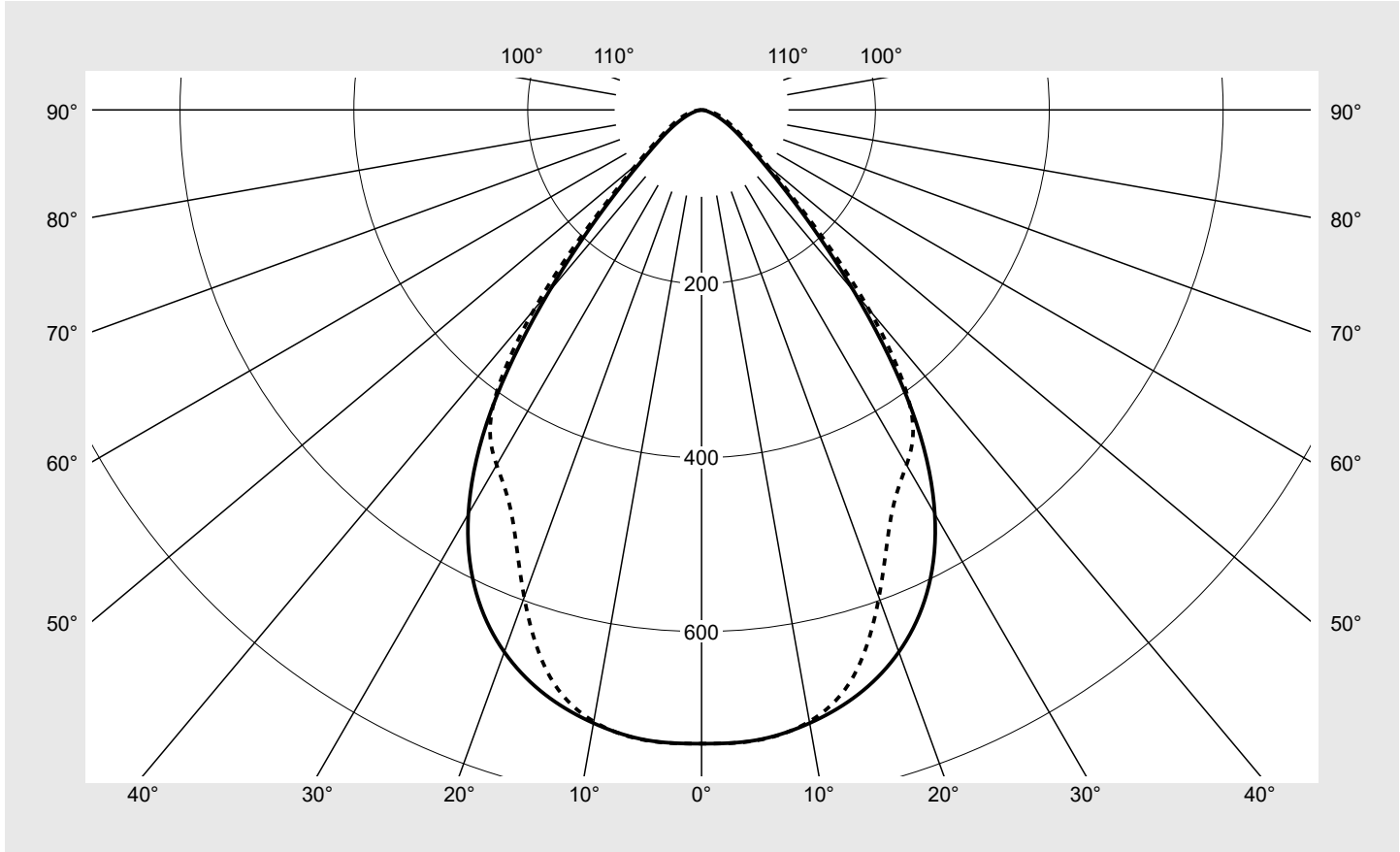


Photometric test report

Family Licross® 21 Recessed	Order number: 52TL18DE445G EAN: 4058352891322	LP number 59103_239
	Version cover frosted, medium distribution, high visual comfort Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 4990 lm Power consumption = 29.9 W Luminous efficacy = 166.9 lm/W	serial documentation 02.08.2023
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 729 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=79 N2=95 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°	728.9	728.9	728.9	728.9	728.9	728.9	728.9	4.4	4.4
5°	727.6	725.6	721.4	724.4	727.7	727.5	728.0	34.7	39.0
10°	716.2	715.8	711.3	714.1	716.0	714.5	714.3	68.0	107.0
15°	696.1	697.2	692.4	692.3	687.6	678.3	674.7	97.7	204.8
20°	663.5	665.6	659.3	649.0	628.4	605.3	596.6	119.9	324.7
25°	613.2	616.1	603.1	573.7	542.7	522.2	516.0	132.1	456.8
30°	536.6	538.7	513.6	472.5	462.2	468.1	471.5	135.2	592.0
35°	422.0	421.2	386.0	361.6	387.1	411.1	419.4	125.1	717.1
40°	273.6	269.8	241.4	246.2	279.1	295.4	299.7	95.1	812.2
45°	153.4	148.0	132.2	146.4	164.6	167.9	167.6	59.4	871.5
50°	87.1	86.0	88.4	95.4	105.5	102.0	98.3	39.9	911.4
55°	56.5	55.2	58.2	69.2	74.7	68.5	64.6	28.9	940.4
60°	37.8	37.4	39.6	46.2	52.4	47.5	45.7	20.9	961.3
65°	24.5	24.8	27.6	32.4	36.8	34.0	33.6	15.3	976.6
70°	15.3	15.7	18.0	22.8	25.8	24.5	24.5	10.9	987.5
75°	8.5	8.7	10.3	14.3	17.1	16.5	16.4	7.0	994.5
80°	4.5	4.6	5.3	7.4	9.6	9.5	9.0	3.9	998.3
85°	2.3	2.3	2.4	3.2	3.8	3.8	3.2	1.7	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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Family Licross® 21 Recessed	Order number: 52TL18DE445G EAN: 4058352891322	LP number 59103_239
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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	20.2	21.6	20.6	21.9	22.2	20.9	22.2	21.2	22.5	22.9
	3H	20.4	21.6	20.8	21.9	22.3	21.3	22.4	21.6	22.8	23.1
	4H	20.4	21.5	20.8	21.9	22.2	21.4	22.5	21.8	22.9	23.3
	6H	20.4	21.4	20.8	21.8	22.2	21.5	22.5	22.0	22.9	23.3
	8H	20.5	21.3	20.9	21.7	22.1	21.6	22.5	22.1	22.9	23.3
	12H	20.4	21.3	20.9	21.7	22.1	21.6	22.5	22.1	22.9	23.3
4H	2H	20.4	21.5	20.8	21.8	22.2	21.0	22.1	21.4	22.4	22.8
	3H	20.6	21.5	21.0	21.9	22.3	21.5	22.4	21.9	22.8	23.2
	4H	20.7	21.5	21.1	21.9	22.3	21.8	22.6	22.2	23.0	23.4
	6H	20.7	21.4	21.2	21.8	22.3	22.0	22.6	22.4	23.1	23.5
	8H	20.7	21.3	21.2	21.8	22.2	22.0	22.6	22.5	23.1	23.6
	12H	20.7	21.2	21.2	21.7	22.2	22.1	22.6	22.6	23.0	23.5
8H	4H	20.7	21.4	21.2	21.8	22.3	21.8	22.4	22.3	22.9	23.3
	6H	20.8	21.3	21.3	21.8	22.3	22.0	22.6	22.5	23.0	23.5
	8H	20.8	21.2	21.3	21.7	22.3	22.1	22.6	22.6	23.1	23.6
	12H	20.8	21.2	21.3	21.7	22.2	22.2	22.6	22.7	23.1	23.6
12H	4H	20.8	21.3	21.3	21.8	22.3	21.8	22.3	22.3	22.8	23.3
	6H	20.8	21.2	21.3	21.7	22.2	22.0	22.5	22.6	23.0	23.5
	8H	20.8	21.2	21.3	21.7	22.2	22.1	22.5	22.7	23.0	23.6

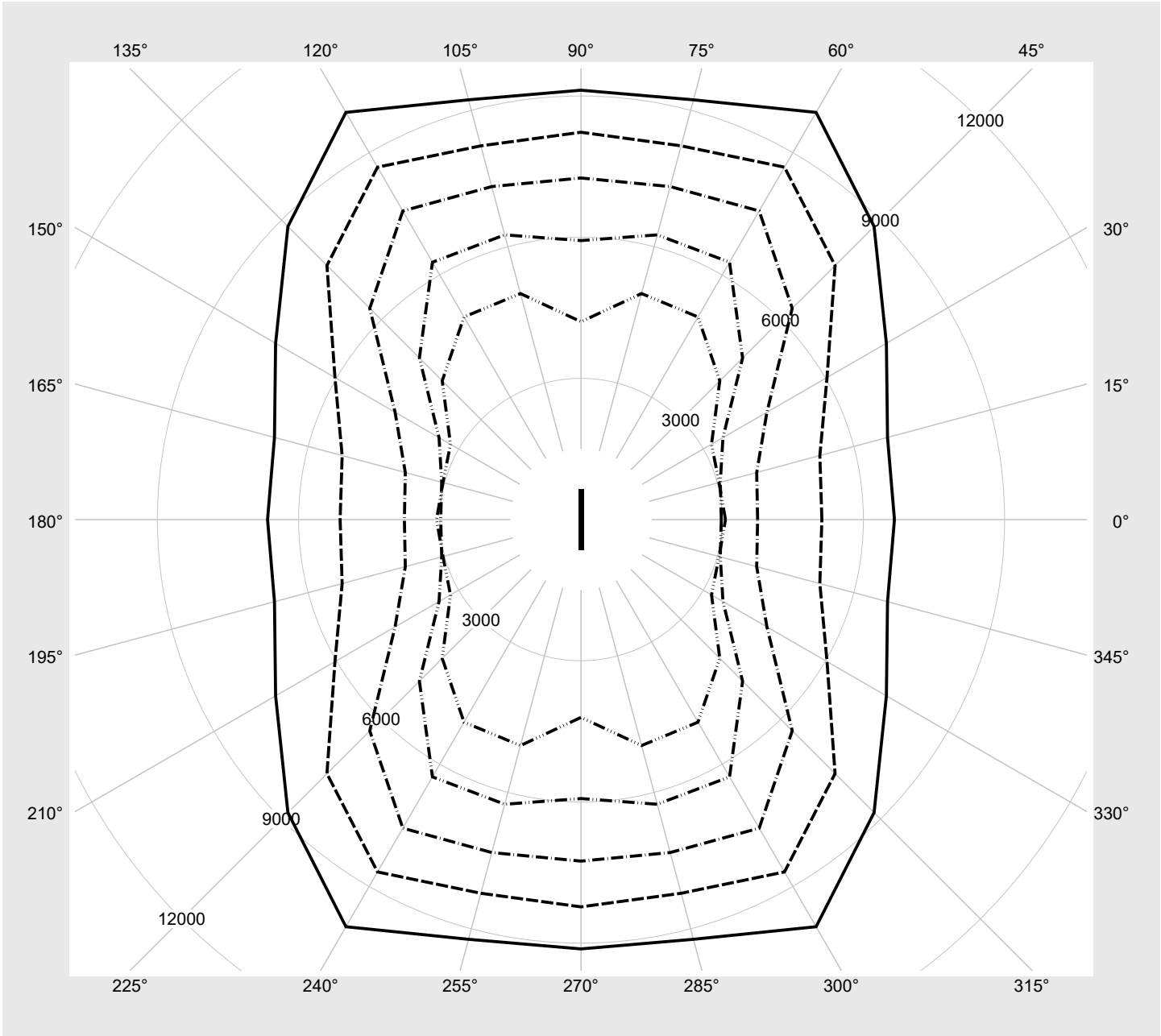
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 750 B = 58
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C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°	45°	24885.2	24005.2	21443.5	23742.1	26702.6	27237.1	27196.1	
50°	50°	15551.3	15347.7	15777.4	17025.9	18830.7	18197.3	17550.6	
55°	55°	11294.1	11035.5	11633.7	13848.9	14938.9	13707.1	12916.1	
60°	60°	8664.5	8571.6	9077.4	10600.8	12014.1	10897.5	10478.8	
65°	65°	6659.6	6742.1	7492.1	8806.1	9989.6	9232.8	9122.6	
70°	70°	5117.5	5253.7	6035.8	7634.0	8645.5	8220.6	8229.0	
75°	75°	3752.3	3864.4	4561.1	6347.3	7571.5	7324.6	7257.2	
80°	80°	2980.6	3063.9	3482.7	4855.4	6312.7	6262.5	5927.6	
85°	85°	3069.3	3036.4	3202.3	4169.7	4971.2	4971.2	4203.9	

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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	4990	29.9
95	240	252	4738	28.3
90	226	250	4484	26.7
85	213	248	4245	25.2
80	199	245	3985	23.6
75	186	243	3740	22.1
70	173	240	3494	20.6
65	160	237	3246	19.1
60	147	234	2995	17.6
55	134	231	2741	16.0
50	122	227	2504	14.8
45	109	223	2245	13.4
40	97	219	2005	12.2
35	84	213	1743	10.8
30	72	208	1497	9.4
25	60	201	1250	8.0
20	48	193	1003	6.6
17	40	186	836	5.6