
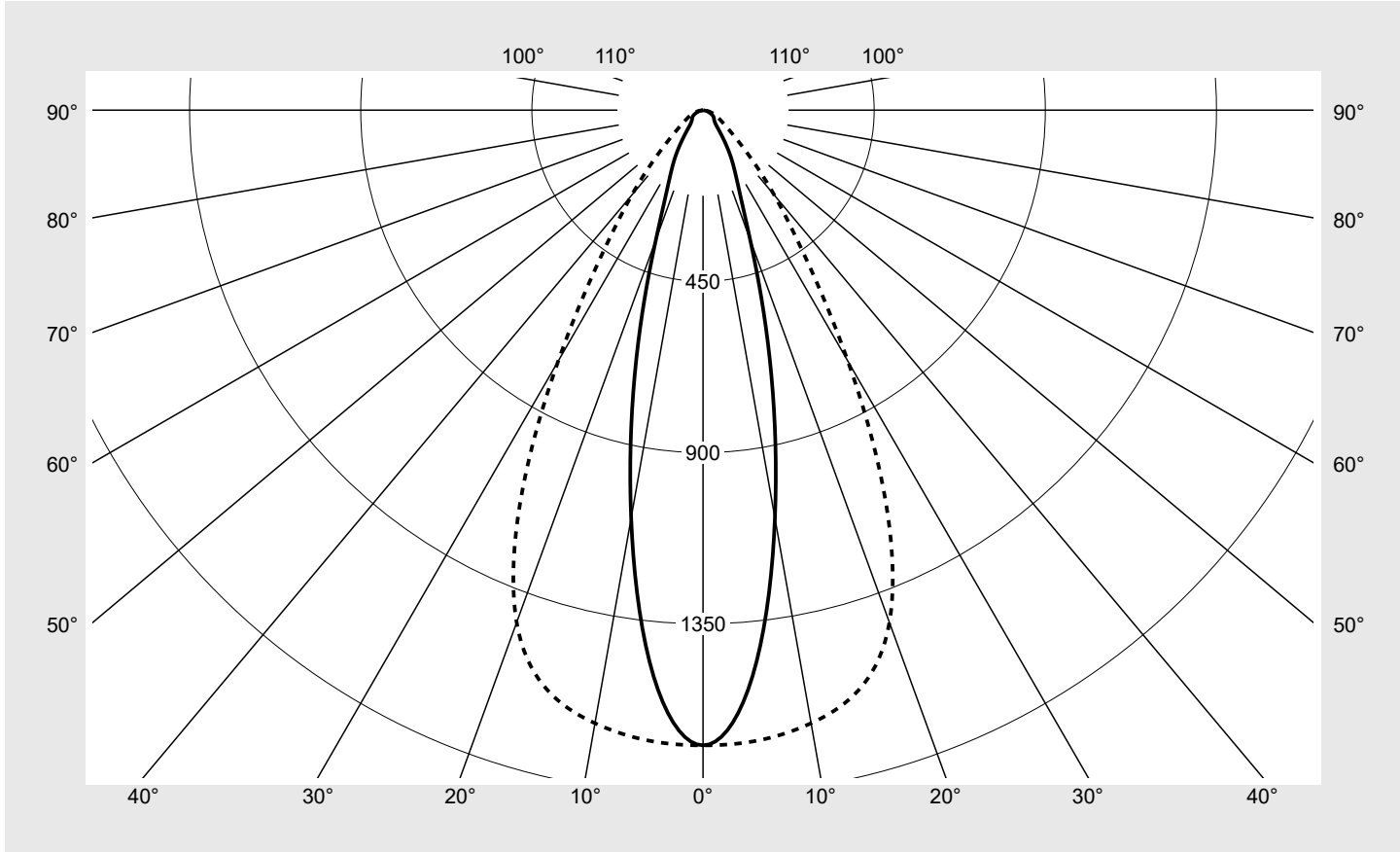


Photometric test report

Family Licross® 21 Recessed	Order number: 52TL1EDV4E5G EAN: 4058352891865	LP number 59263_73
	Version cover frosted, elliptical narrow distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 14910 lm Power consumption = 85.3 W Luminous efficacy = 174.8 lm/W	serial documentation 02.08.2023
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 1670 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=85 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° 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°	1669.5	1669.5	1669.5	1669.5	1669.5	1669.5	1669.5	10.0	10.0
5°	1493.3	1495.6	1516.6	1565.9	1616.3	1649.8	1662.9	75.0	85.0
10°	1088.5	1106.7	1175.0	1303.4	1460.6	1586.1	1636.2	126.8	211.8
15°	678.3	712.7	825.0	1006.5	1239.9	1474.8	1578.7	151.0	362.9
20°	362.1	388.9	492.0	707.6	980.6	1275.8	1432.9	148.2	511.0
25°	217.8	231.1	285.8	436.7	705.9	972.9	1137.5	127.8	638.8
30°	151.3	158.5	185.3	264.1	455.8	646.3	761.7	99.0	737.8
35°	95.4	107.0	131.3	171.8	268.4	391.1	463.8	70.7	808.5
40°	57.7	64.5	93.9	120.6	157.9	239.7	291.4	50.0	858.5
45°	43.5	45.9	58.2	86.3	99.5	145.4	176.9	35.2	893.7
50°	37.7	39.0	42.8	61.0	68.3	89.3	109.1	26.2	919.9
55°	34.6	35.0	36.7	43.5	50.5	59.6	73.7	20.9	940.8
60°	30.2	31.1	32.8	34.2	38.6	42.0	53.5	17.5	958.3
65°	23.9	25.4	29.1	28.1	30.1	30.8	41.3	14.6	972.8
70°	17.0	18.4	22.5	23.3	23.4	22.7	30.8	11.5	984.3
75°	10.9	12.0	16.2	17.9	17.4	15.7	20.7	8.4	992.7
80°	6.2	6.7	9.0	10.7	11.0	9.3	11.6	5.0	997.7
85°	3.1	3.3	4.2	5.0	4.8	3.9	4.2	2.3	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	15.1	16.4	15.5	16.7	17.0	20.1	21.4	20.5	21.7	22.0
	3H	16.3	17.4	16.7	17.7	18.1	20.7	21.8	21.1	22.1	22.5
	4H	16.7	17.7	17.1	18.1	18.4	21.0	22.0	21.4	22.3	22.7
	6H	16.9	17.8	17.3	18.2	18.6	21.2	22.1	21.6	22.4	22.8
	8H	17.1	17.9	17.5	18.3	18.7	21.4	22.1	21.8	22.5	22.9
	12H	17.1	17.9	17.5	18.3	18.7	21.4	22.1	21.8	22.5	22.9
4H	2H	16.0	16.9	16.4	17.3	17.6	20.1	21.2	20.5	21.5	21.9
	3H	17.4	18.2	17.8	18.6	19.0	20.8	21.7	21.3	22.1	22.5
	4H	17.9	18.6	18.3	19.0	19.5	21.2	22.0	21.7	22.4	22.8
	6H	18.2	18.8	18.6	19.3	19.7	21.5	22.1	22.0	22.6	23.0
	8H	18.3	18.9	18.8	19.3	19.8	21.6	22.2	22.1	22.6	23.1
	12H	18.4	18.9	18.9	19.3	19.8	21.7	22.2	22.2	22.6	23.1
8H	4H	18.4	18.9	18.8	19.4	19.8	21.3	21.9	21.8	22.3	22.8
	6H	18.8	19.3	19.3	19.7	20.3	21.7	22.2	22.2	22.6	23.2
	8H	19.0	19.4	19.5	19.9	20.4	21.8	22.3	22.4	22.7	23.3
	12H	19.1	19.4	19.6	19.9	20.5	21.9	22.3	22.5	22.8	23.3
12H	4H	18.4	18.9	18.9	19.3	19.8	21.3	21.8	21.8	22.3	22.8
	6H	18.9	19.3	19.4	19.8	20.3	21.7	22.1	22.2	22.6	23.1
	8H	19.1	19.5	19.6	20.0	20.5	21.9	22.2	22.4	22.7	23.3

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 2250 B = 58
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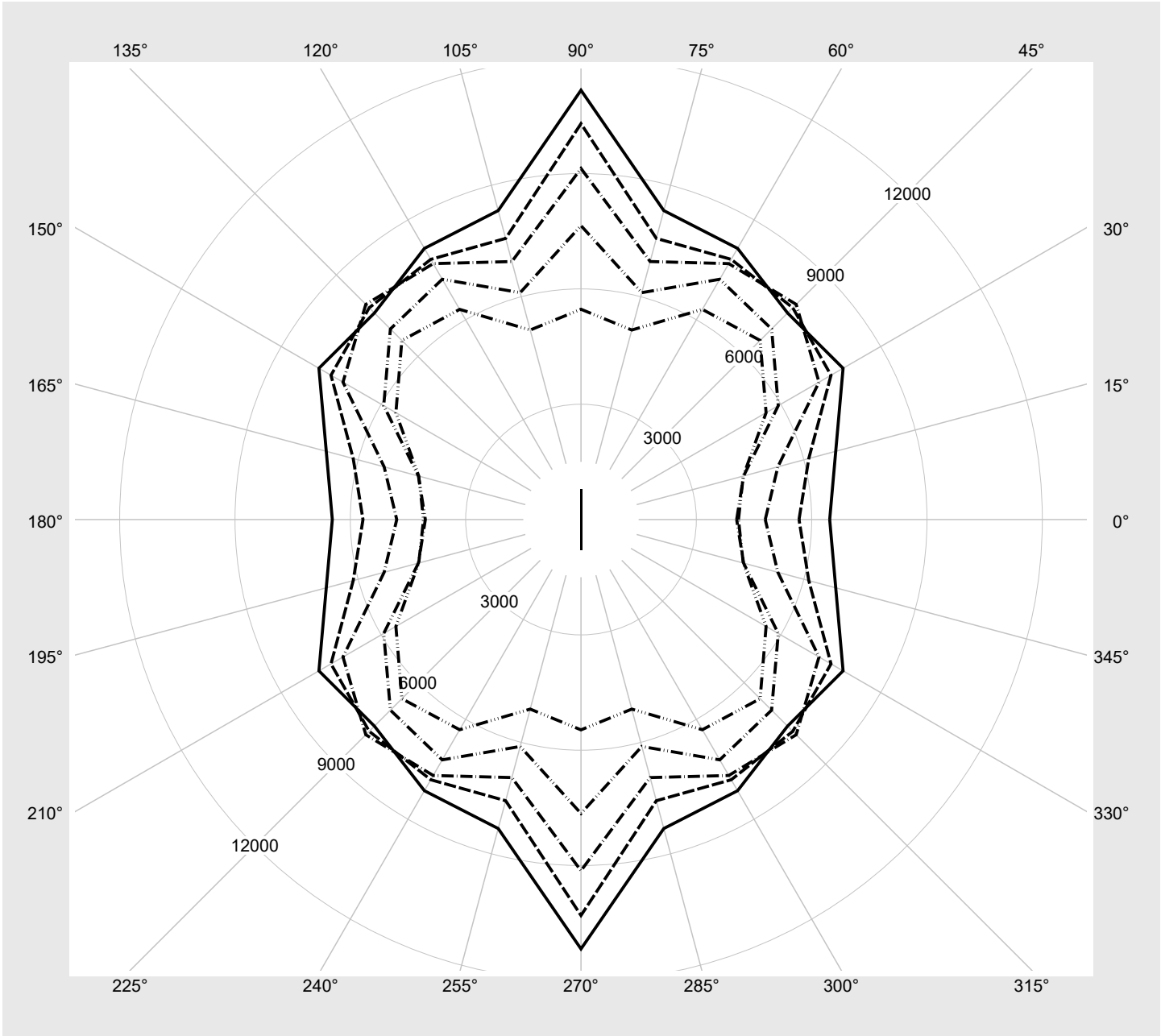
C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		7026.9	7412.4	9396.1	13940.6	16082.5	23493.4	28589.6	
50°		6708.0	6928.5	7607.0	10848.7	12142.0	15878.0	19398.5	
55°		6884.5	6968.0	7314.4	8660.0	10062.7	11877.1	14684.4	
60°		6890.8	7117.3	7498.4	7821.1	8818.7	9592.9	12223.2	
65°		6468.8	6859.7	7871.6	7599.1	8145.5	8321.0	11169.0	
70°		5671.2	6134.2	7509.2	7790.8	7815.5	7572.0	10298.2	
75°		4792.7	5301.2	7148.7	7916.3	7687.7	6948.7	9132.9	
80°		4049.1	4378.7	5925.6	7011.8	7217.8	6111.1	7645.4	
85°		4096.6	4369.2	5559.5	6589.9	6313.3	5104.7	5470.4	

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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	14910	85.3
95	240	252	14160	80.7
90	226	250	13400	76.1
85	213	248	12685	71.7
80	199	245	11909	67.0
75	186	243	11176	62.7
70	173	240	10440	58.3
65	160	237	9698	54.0
60	147	234	8949	49.7
55	134	231	8191	45.4
50	122	227	7483	41.4
45	109	223	6710	37.3
40	97	219	5993	33.4
35	84	213	5208	29.2
30	72	208	4475	25.3
25	60	201	3738	21.5
20	48	193	2996	17.4
15	36	182	2248	13.3
10	24	168	1496	9.0
5	12	142	739	4.4
2	4	102	228	1.4