

Photometric test report

Family
Licross® 21 Recessed

Order number: 52TL1EDE445GD
EAN: 4069025365521

LP number
59263_193



Version cover frosted, elliptical narrow distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Setting AC-mode
Rated values Net luminous flux = 4970 lm
 Power consumption = 29.9 W
 Luminous efficacy = 166.2 lm/W

serial
documentation
27.09.2023

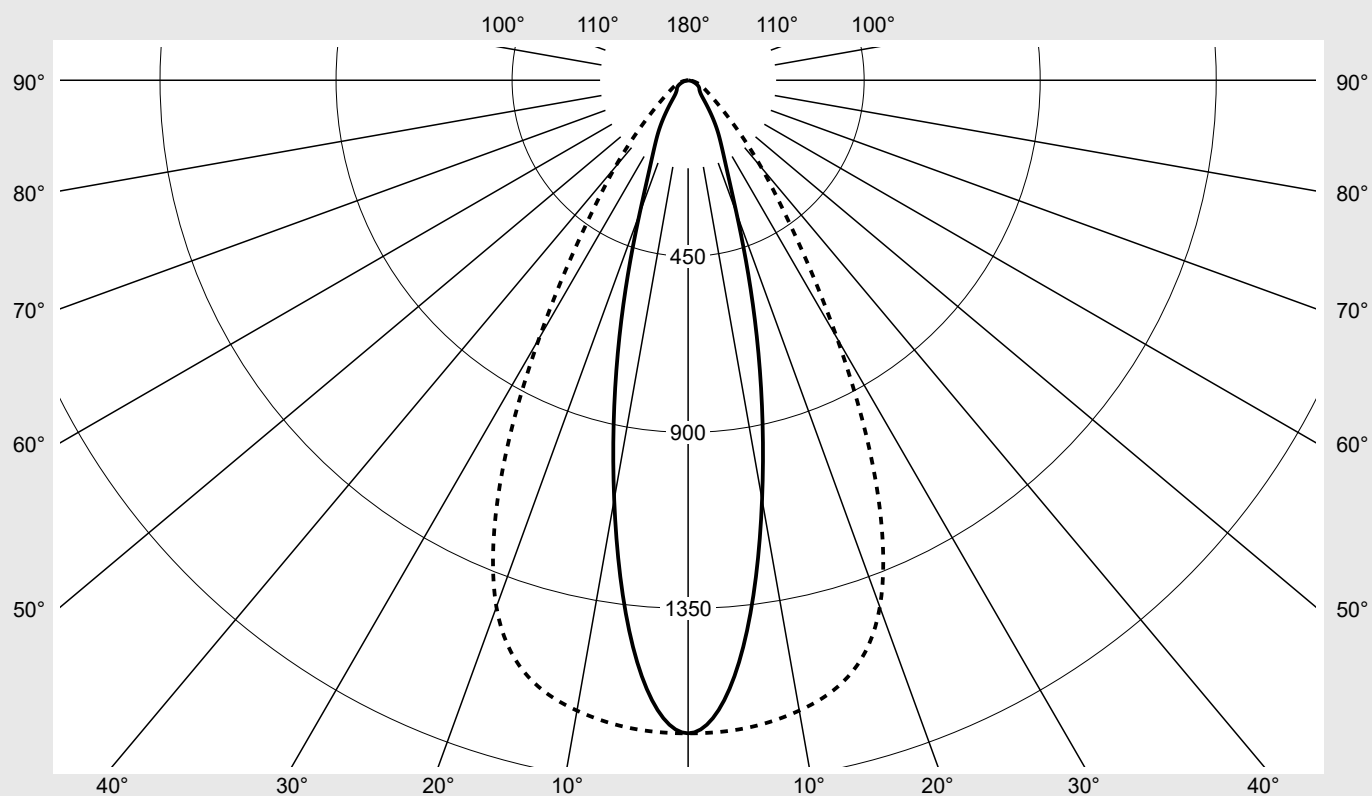
siteco

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
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C- planes	0° 180°	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
γ	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		
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 = 750 B = 58	
C-planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
		γ Luminance in cd/m²					
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°

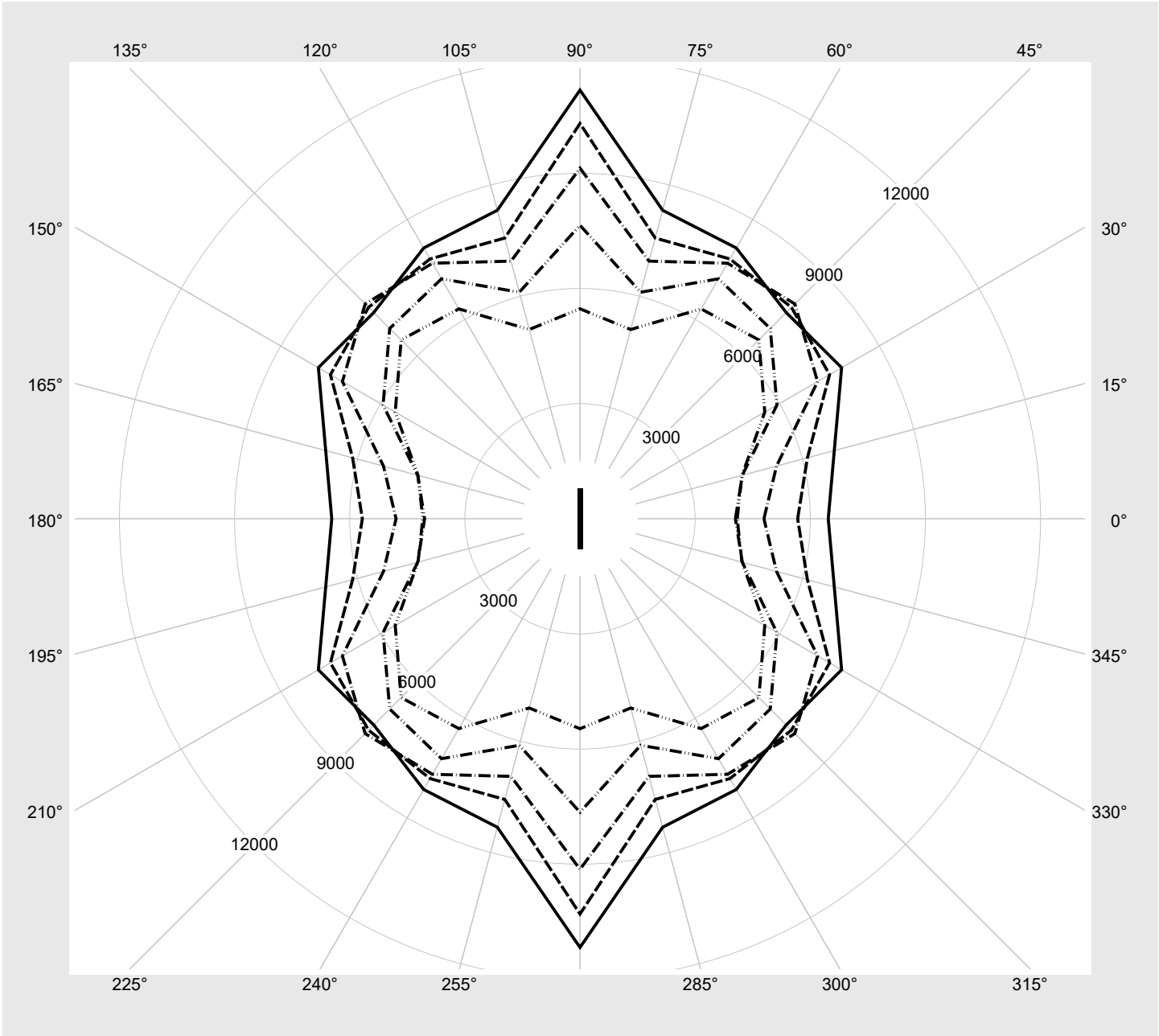
γ 70°

γ 75°

γ 80°

γ 85°

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Family Licross® 21 Recessed	Order number: 52TL1EDE445GD EAN: 4069025365521	LP number 59263_193
Dimming levels table		environmental temperature: 25°C



Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	4970	29.9
95	240	252	4719	28.3
90	226	250	4466	26.7
85	213	248	4228	25.2
80	199	245	3969	23.6
75	186	243	3725	22.1
70	173	240	3480	20.6
65	160	237	3233	19.1
60	147	234	2983	17.6
55	134	231	2730	16.0
50	122	227	2494	14.8
45	109	223	2236	13.4
40	97	219	1997	12.2
35	84	213	1736	10.8
30	72	208	1491	9.4
25	60	201	1245	8.0
20	48	193	999	6.6
17	40	186	832	5.6