

Photometric test report

Family
Licross® 21 Recessed

Order number: 52TE12DN455G
EAN: 4069025012715

LP number
59101_364



Version cover frosted, wide distribution, high visual comfort
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 5510 lm
Power consumption = 29.7 W
Luminous efficacy = 185.5 lm/W

serial
documentation
24.11.2023

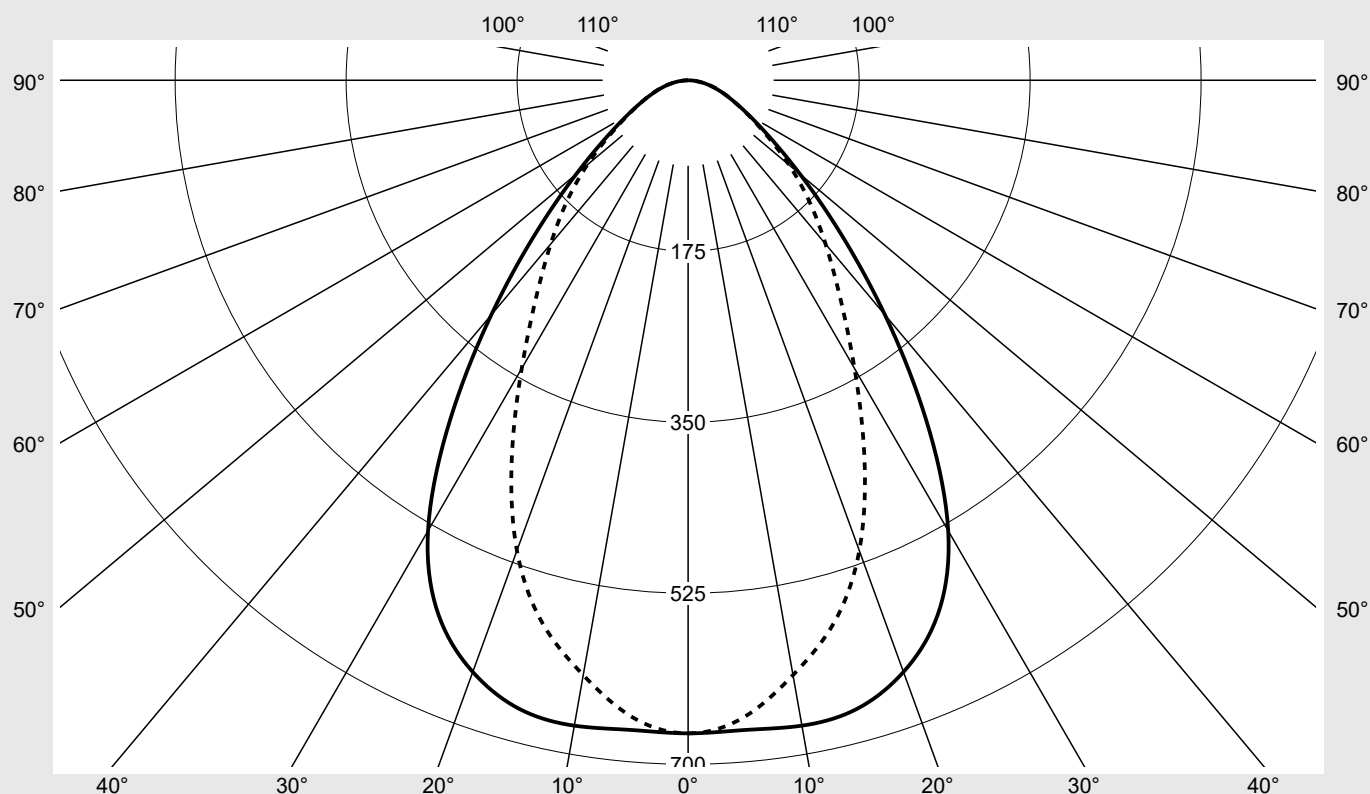
siteco

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	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°	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		
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	21.4	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	21.7	22.5	22.9
	6H	21.2	21.9	21.6	22.4	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	22.1	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	22.3	22.2	22.7	23.2
	8H	21.4	21.9	21.9	22.4	22.9	21.9	22.4	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	21.9	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	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
		Luminance in cd/m²					
γ							
45°	19634.8	17944.5	15734.5	15328.0	16283.2	16543.0	15721.2
50°	14748.3	13062.3	11095.5	11459.5	13103.9	14347.6	13287.2
55°	11336.2	9841.1	8250.2	9001.6	10829.7	11919.4	10827.0
60°	9168.4	7870.2	6499.0	7390.2	9090.5	9691.4	8990.7
65°	7808.0	6645.5	5387.1	6237.7	7709.8	8115.6	7800.5
70°	6957.9	5866.9	4574.5	5380.1	6585.9	7110.9	7092.9
75°	6362.0	5211.4	3972.2	4643.9	5606.3	6328.0	6556.0
80°	5868.0	4574.7	3365.7	3809.5	4605.3	5415.8	5741.5
85°	5088.9	3919.6	2767.9	2984.4	3508.4	4108.6	4242.3

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Luminance values in cd/m²

γ 65°

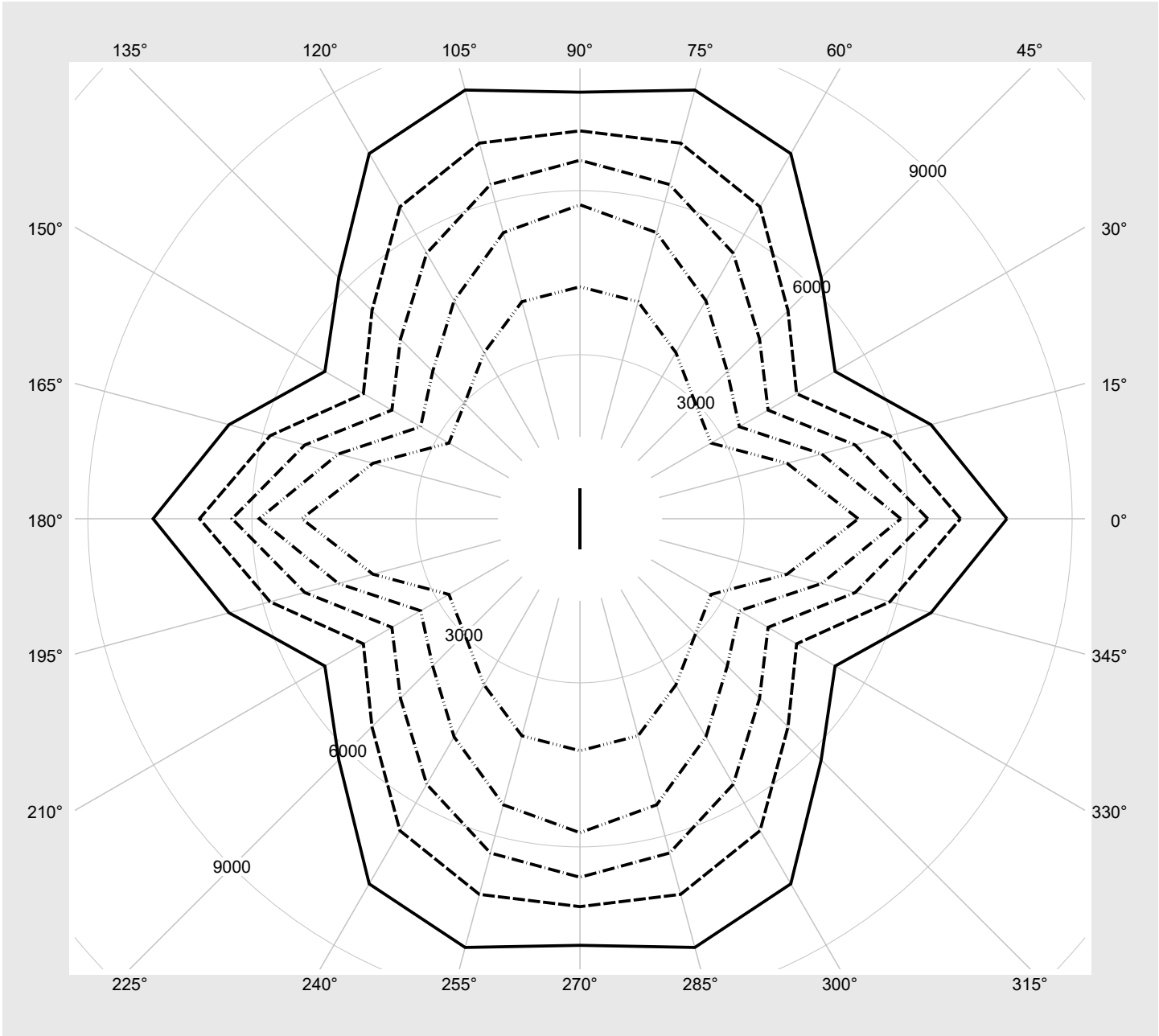
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Dimming levels table	environmental temperature: 25°C	siteco

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	5510	29.7
95	241	252	5239	28.3
90	228	250	4966	26.9
85	215	248	4693	25.5
80	202	246	4416	24.2
75	189	243	4140	22.8
70	176	241	3861	21.3
65	163	238	3583	19.9
60	150	235	3301	18.4
55	137	231	3021	16.9
50	125	228	2758	15.5
45	112	224	2473	14.0
40	100	220	2212	12.5
35	87	215	1925	11.5
30	75	209	1660	10.3
25	62	202	1372	8.9
20	50	194	1105	7.5
15	38	184	839	6.2