

Photometric test report

Family
Licross® 21 Recessed

Order number: 52TL12DV4DXGD
EAN: 4069025156679

LP number
59101_303



Version cover frosted, wide distribution, high visual comfort
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Setting AC-mode
Rated values Net luminous flux = 13000 lm
Power consumption = 71.0 W
Luminous efficacy = 183.1 lm/W

serial
documentation
10.08.2023

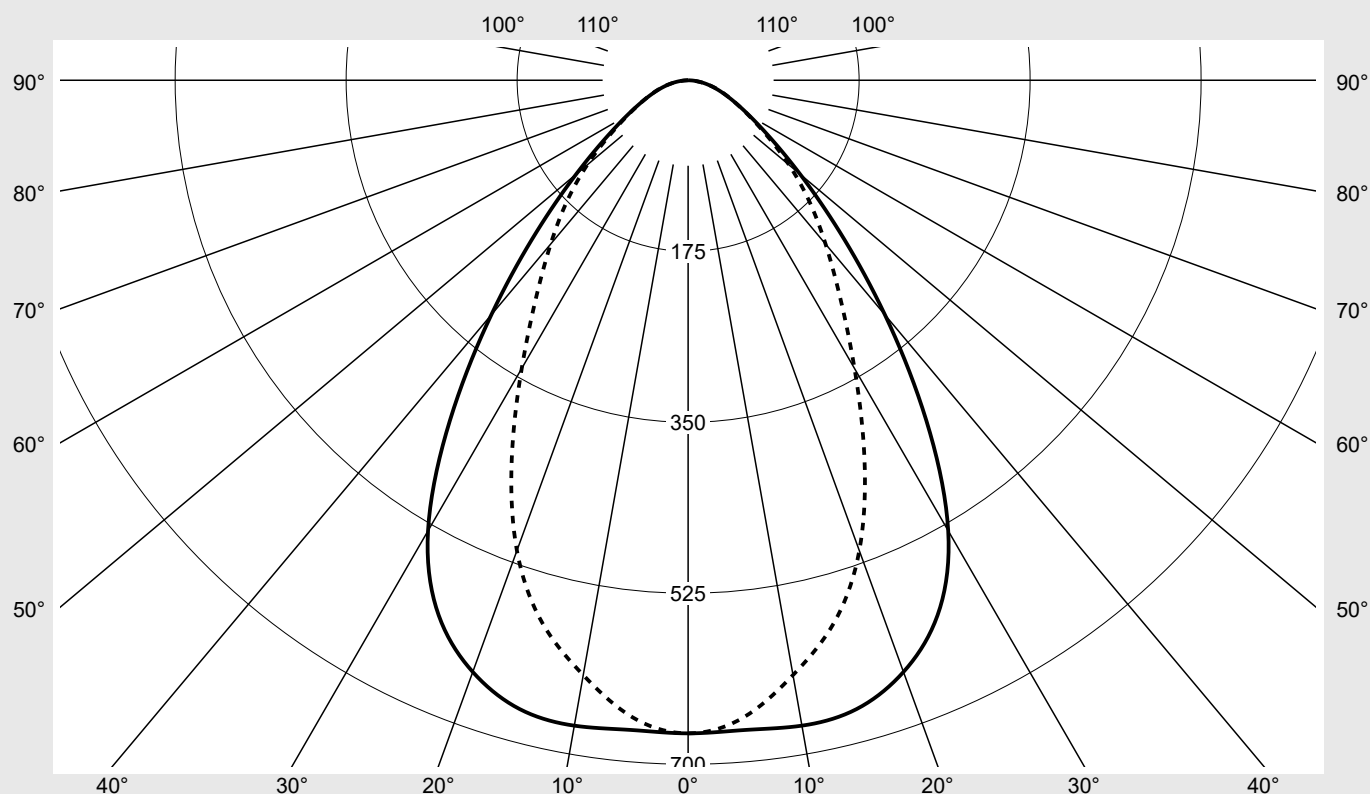
siteco

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

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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°	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	21.2	22.7	21.6	23.0	23.3	21.2	22.6	21.5	22.9	23.3
	3H	21.8	23.1	22.2	23.4	23.8	22.0	23.2	22.4	23.6	23.9
	4H	22.1	23.3	22.5	23.6	24.0	22.3	23.5	22.7	23.8	24.2
	6H	22.4	23.4	22.8	23.8	24.2	22.6	23.6	23.0	24.0	24.4
	8H	22.5	23.5	23.0	23.9	24.3	22.7	23.7	23.1	24.1	24.5
	12H	22.6	23.5	23.0	23.9	24.3	22.7	23.7	23.2	24.0	24.5
4H	2H	21.4	22.6	21.8	22.9	23.3	21.4	22.6	21.8	22.9	23.3
	3H	22.1	23.1	22.5	23.4	23.9	22.3	23.3	22.8	23.7	24.1
	4H	22.4	23.3	22.9	23.7	24.1	22.8	23.7	23.2	24.1	24.5
	6H	22.7	23.5	23.2	23.9	24.4	23.1	23.9	23.6	24.3	24.8
	8H	22.9	23.6	23.4	24.0	24.5	23.3	24.0	23.7	24.4	24.9
	12H	23.0	23.6	23.5	24.1	24.5	23.4	23.9	23.9	24.4	24.9
8H	4H	22.5	23.2	23.0	23.6	24.1	22.8	23.5	23.3	24.0	24.4
	6H	22.9	23.4	23.4	23.9	24.4	23.3	23.8	23.8	24.3	24.8
	8H	23.0	23.5	23.5	24.0	24.5	23.4	23.9	23.9	24.4	24.9
	12H	23.2	23.6	23.7	24.1	24.6	23.6	24.0	24.1	24.5	25.0
12H	4H	22.5	23.1	23.0	23.6	24.1	22.9	23.4	23.3	23.9	24.4
	6H	22.9	23.3	23.4	23.8	24.4	23.3	23.7	23.8	24.2	24.8
	8H	23.0	23.4	23.6	23.9	24.5	23.5	23.9	24.0	24.4	24.9

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 2250 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°	30883.6	28224.9	24748.7	24109.4	25611.8	26020.4	24727.9
50°	23197.6	20545.7	17452.0	18024.7	20611.1	22567.3	20899.3
55°	17830.7	15479.1	12976.8	14158.6	17034.0	18748.1	17029.7
60°	14420.9	12379.0	10222.3	11624.1	14298.4	15243.6	14141.4
65°	12281.1	10452.7	8473.4	9811.3	12126.8	12765.1	12269.4
70°	10944.1	9228.0	7195.3	8462.3	10359.0	11184.7	11156.4
75°	10006.8	8197.0	6247.9	7304.4	8818.2	9953.3	10312.0
80°	9229.8	7195.6	5293.8	5992.0	7243.7	8518.4	9030.7
85°	8004.3	6165.2	4353.6	4694.2	5518.3	6462.4	6672.7

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Order number: **52TL12DV4DXGD**
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Luminance values in cd/m²

γ 65°

γ 70°

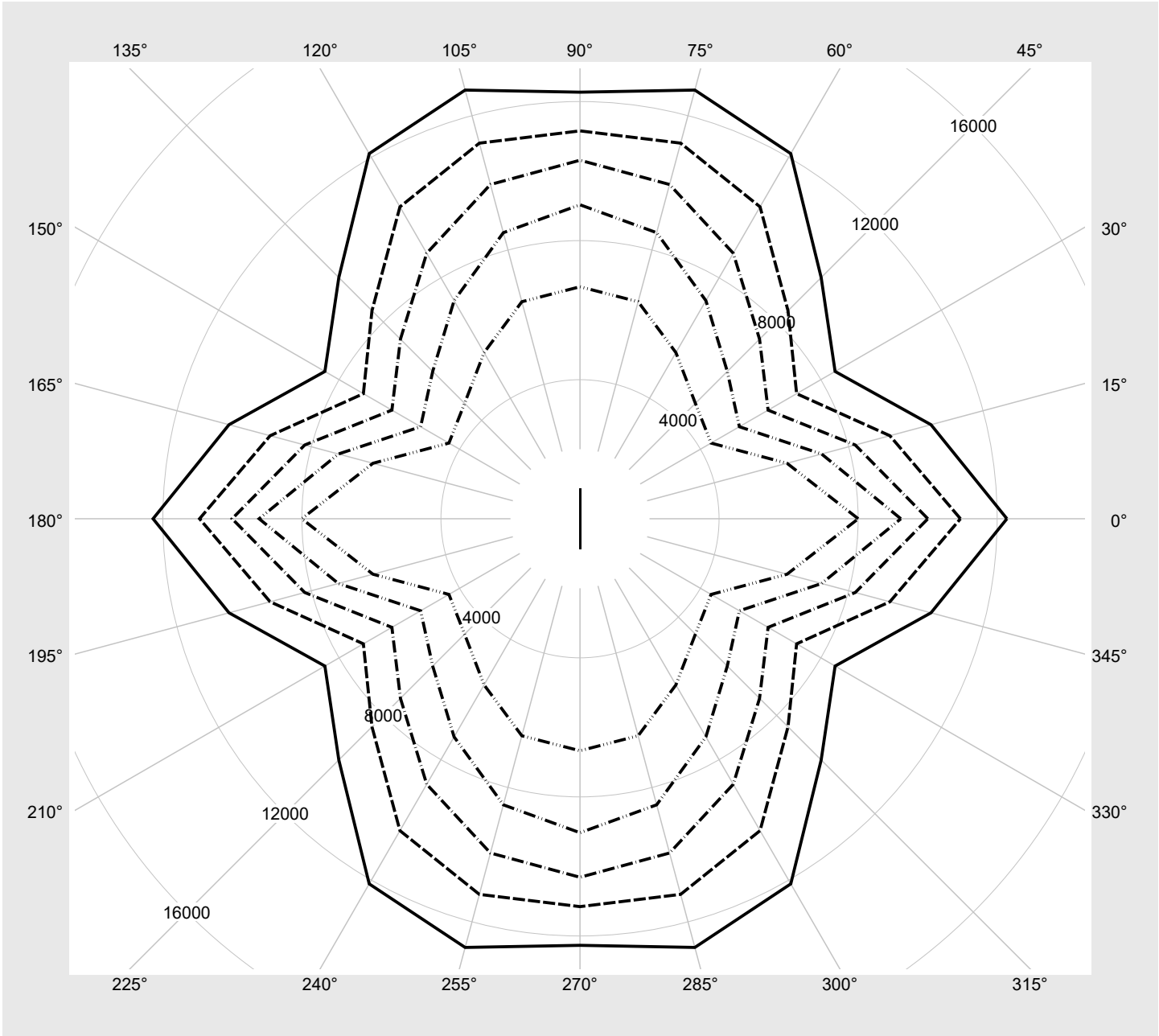
γ 75°

γ 80°

γ 85°

sit

eco



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Family Licross® 21 Recessed	Order number: 52TL12DV4DXGD EAN: 4069025156679	LP number 59101_303
Dimming levels table environmental temperature: 25°C		

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	13000	71.0
95	240	252	12335	67.1
90	227	250	11708	63.5
85	213	248	11028	59.6
80	200	245	10393	56.0
75	187	243	9752	52.5
70	174	240	9105	48.9
65	161	237	8453	45.3
60	148	234	7796	41.7
55	135	231	7134	38.3
50	123	227	6518	35.0
45	110	223	5844	31.6
40	98	219	5218	28.4
35	85	214	4539	24.9
30	73	208	3906	21.7
25	61	202	3269	18.3
20	49	194	2626	15.0
15	36	182	1928	11.1
10	24	168	1283	7.4
5	12	142	631	3.7
2	5	110	246	1.5