

Photometric test report

Family
Licross® 21 Recessed

Order number: 52TL12DN3EXM
EAN: 4058352971314

LP number
59446_84



Version cover frosted, wide distribution, high visual comfort
Lamps LED 3000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 14040 lm
Power consumption = 84.6 W
Luminous efficacy = 166 lm/W

serial
documentation
28.09.2023

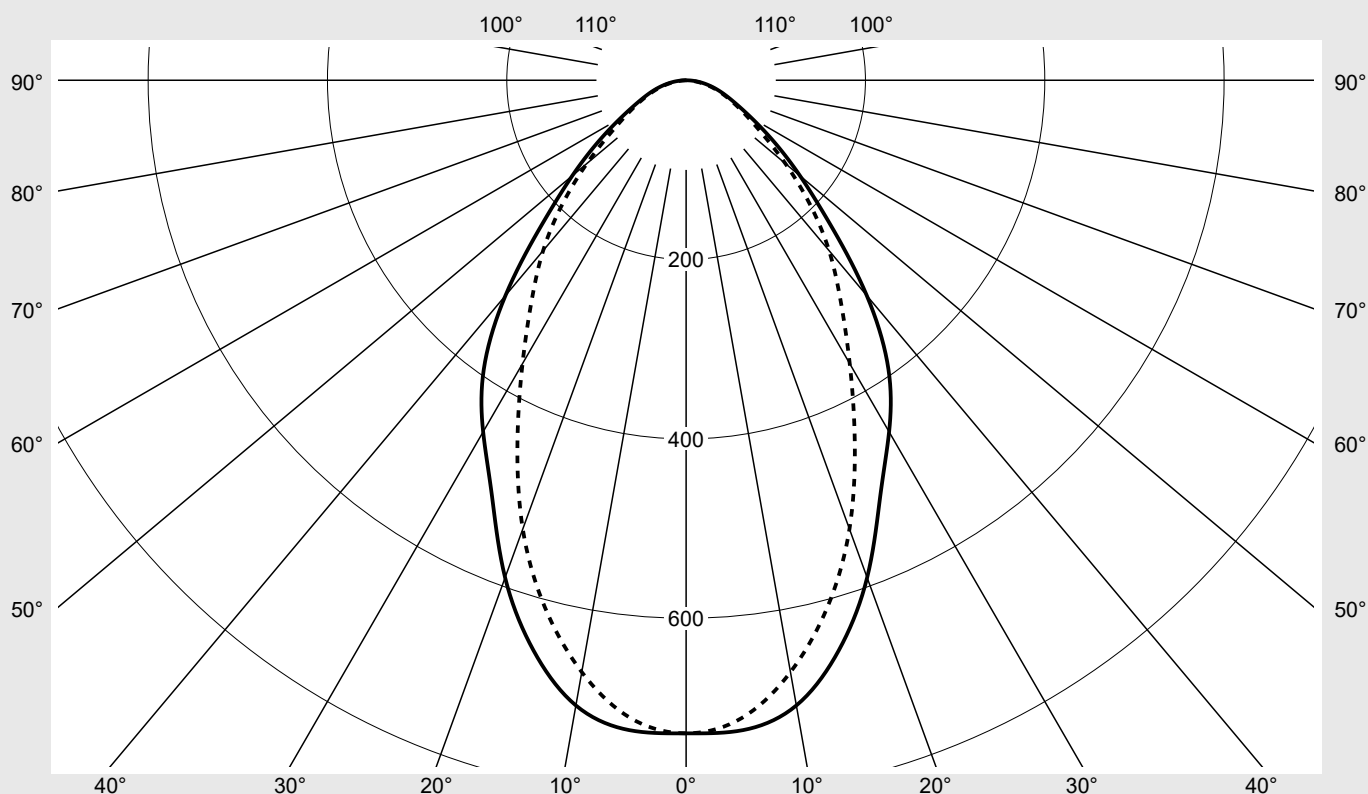
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 728 cd/klm



Classifications

DIN 5040 A 5 0
CIE N1=69 N2=91 N3=98
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°	728.4	728.4	728.4	728.4	728.4	728.4	728.4	4.4	4.4
5°	727.5	724.8	717.6	716.9	716.5	714.4	713.9	34.3	38.7
10°	708.0	704.6	693.5	687.1	680.0	672.5	670.2	65.5	104.1
15°	658.1	653.2	637.7	629.5	623.7	612.7	608.6	89.6	193.8
20°	590.3	582.5	562.9	551.9	546.6	538.5	532.6	104.5	298.2
25°	512.2	499.8	475.2	461.5	453.8	449.4	445.1	108.8	407.1
30°	452.8	433.7	396.2	371.8	363.4	365.0	364.9	106.8	513.9
35°	393.4	374.1	335.3	295.7	285.6	295.2	300.5	101.3	615.2
40°	313.5	300.8	276.8	238.3	224.4	239.2	248.1	91.6	706.8
45°	227.2	217.7	208.5	191.4	176.2	187.2	194.9	77.0	783.8
50°	165.8	151.3	143.3	147.8	138.9	142.4	144.5	61.5	845.3
55°	119.7	105.2	93.7	108.9	109.4	104.2	103.2	47.4	892.7
60°	84.3	73.0	63.0	78.5	83.8	75.4	76.1	35.9	928.6
65°	60.6	51.5	43.5	55.3	61.5	55.5	56.9	27.0	955.6
70°	44.8	36.9	29.5	37.3	40.5	40.0	42.0	19.5	975.1
75°	31.9	25.4	19.2	23.6	27.6	27.0	29.3	13.5	988.6
80°	20.2	15.5	11.1	12.8	15.3	15.6	17.2	8.0	996.7
85°	9.4	7.2	4.9	5.0	5.8	6.0	6.3	3.3	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	23.5	25.0	23.9	25.3	25.6	23.1	24.6	23.5	24.9	25.2	
	3H	24.2	25.5	24.6	25.8	26.2	23.9	25.2	24.3	25.5	25.9	
	4H	24.5	25.7	24.9	26.1	26.5	24.3	25.5	24.7	25.8	26.2	
	6H	24.9	25.9	25.3	26.3	26.7	24.6	25.7	25.0	26.0	26.4	
	8H	25.1	26.0	25.5	26.4	26.8	24.7	25.7	25.1	26.1	26.5	
	12H	25.2	26.1	25.6	26.5	26.9	24.7	25.7	25.2	26.1	26.5	
4H	2H	23.8	25.0	24.2	25.3	25.7	23.5	24.7	23.9	25.0	25.4	
	3H	24.5	25.5	25.0	25.9	26.3	24.5	25.5	24.9	25.9	26.3	
	4H	24.9	25.8	25.4	26.2	26.7	24.9	25.8	25.4	26.2	26.7	
	6H	25.3	26.1	25.8	26.5	27.0	25.3	26.1	25.8	26.5	27.0	
	8H	25.5	26.2	26.0	26.7	27.1	25.4	26.1	25.9	26.6	27.0	
	12H	25.7	26.3	26.2	26.7	27.2	25.5	26.1	26.0	26.6	27.1	
8H	4H	25.0	25.7	25.5	26.2	26.7	25.0	25.7	25.5	26.2	26.7	
	6H	25.5	26.0	26.0	26.5	27.0	25.5	26.1	26.0	26.5	27.0	
	8H	25.7	26.2	26.2	26.7	27.2	25.7	26.2	26.2	26.6	27.2	
	12H	25.9	26.3	26.4	26.8	27.3	25.8	26.2	26.3	26.7	27.2	
12H	4H	25.1	25.7	25.6	26.1	26.6	25.1	25.7	25.6	26.1	26.6	
	6H	25.5	26.0	26.0	26.5	27.0	25.5	26.0	26.0	26.5	27.0	
	8H	25.7	26.1	26.2	26.6	27.2	25.7	26.1	26.2	26.6	27.1	

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°
γ	Luminance in cd/m²						
45°	51863.6	49682.0	47585.3	43688.8	40216.6	42713.0	44473.7
50°	41634.8	37982.4	35975.4	37095.4	34882.3	35745.7	36266.9
55°	33686.2	29610.5	26367.6	30643.6	30791.9	29314.2	29039.6
60°	27222.4	23552.0	20326.7	25332.0	27037.2	24337.0	24571.9
65°	23131.7	19664.8	16600.8	21120.1	23492.5	21209.0	21735.2
70°	21123.4	17425.1	13900.0	17619.5	19131.3	18850.5	19832.4
75°	19887.9	15823.1	11979.7	14723.8	17204.8	16841.3	18274.8
80°	18797.9	14435.5	10332.5	11887.3	14191.1	14482.0	15987.5
85°	17429.3	13328.0	8993.3	9322.9	10759.8	11076.4	11663.4

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Luminance values in cd/m²

γ 65°

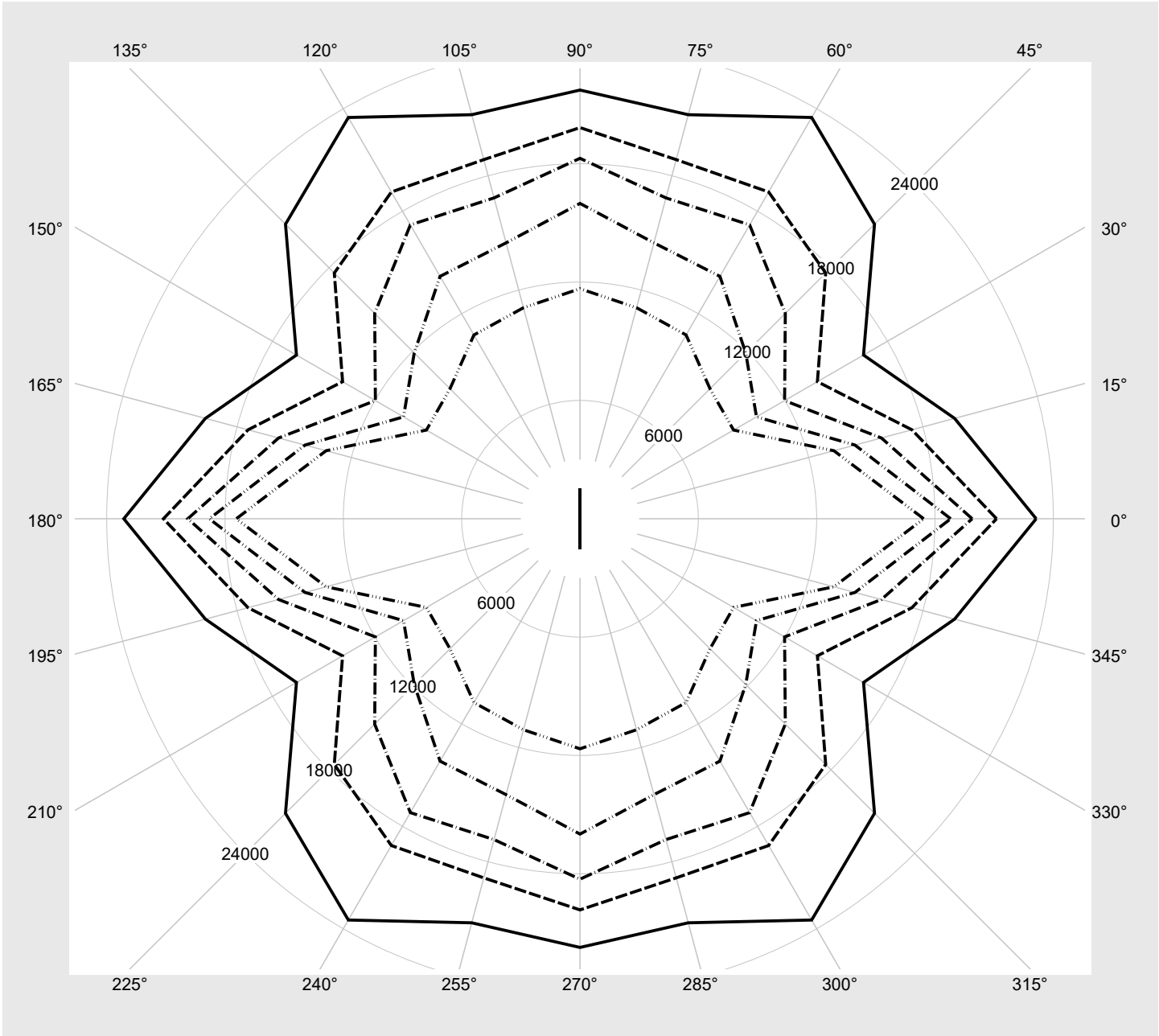
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Dimming levels table environmental temperature: 25°C		

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	14040	84.6
95	240	252	13339	79.9
90	226	250	12628	75.2
85	212	247	11910	70.6
80	199	245	11235	66.3
75	186	243	10547	62.0
70	172	240	9802	57.5
65	159	237	9100	53.3
60	147	234	8449	49.3
55	134	231	7735	45.1
50	121	227	7010	40.9
45	109	223	6338	37.1
40	96	218	5603	32.9
35	84	213	4916	29.1
30	72	208	4225	25.4
25	60	201	3530	21.6
20	48	193	2826	17.8
15	36	182	2120	14.0
10	24	168	1409	10.2
5	12	142	691	6.5
2	4	102	211	4.1