

Photometric test report

Family
Licross® 21 Recessed

Order number: 51TL12DN4GXLD
EAN: 4058352530566

LP number
58689_53



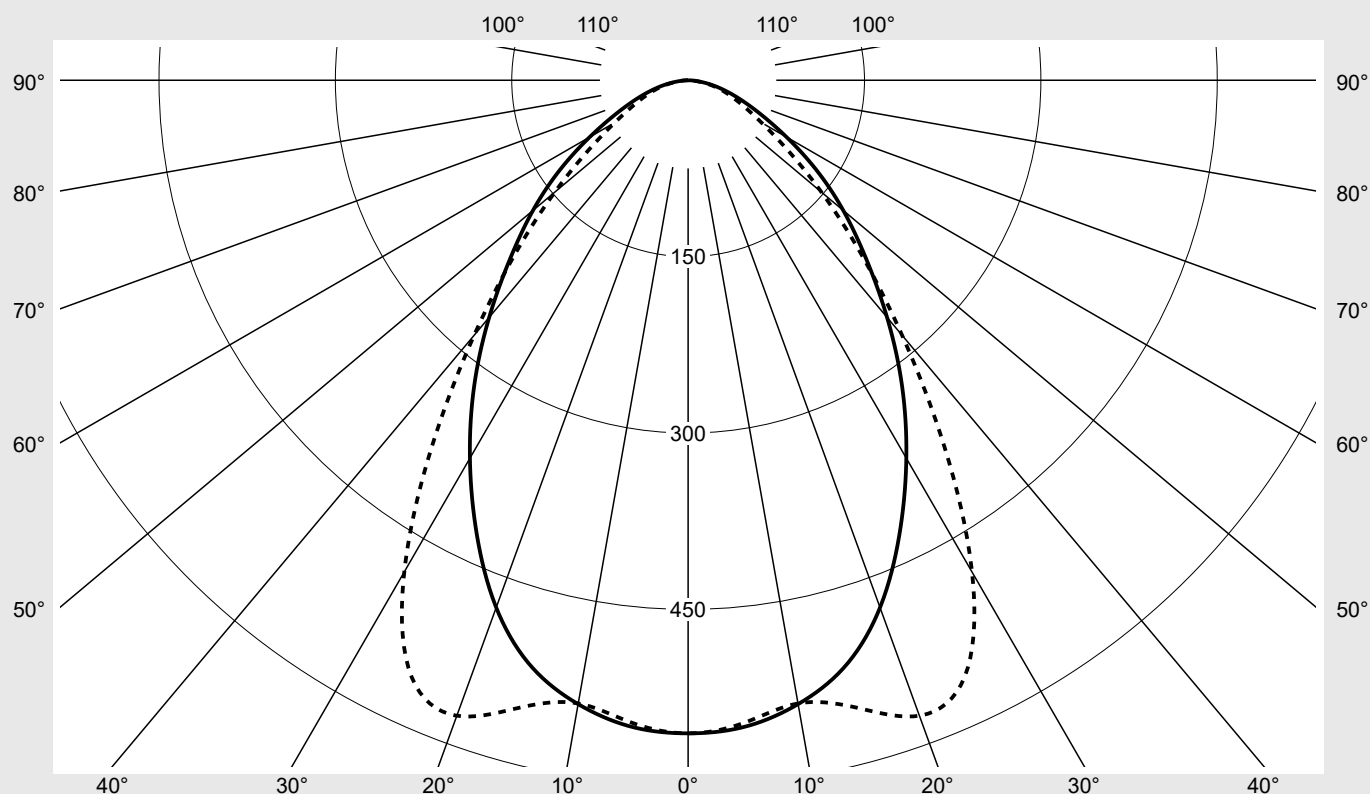
Version cover frosted, wide distribution, high visual comfort
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Setting AC-mode
Rated values Net luminous flux = 16080 lm
 Power consumption = 92.4 W
 Luminous efficacy = 174 lm/W

serial
documentation
29.07.2021

sitEco

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

Imax: 575 cd/klm



Classifications

DIN 5040 A 5 0
 CIE N1=66 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
		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°	555.4	555.4	555.4	555.4	555.4	555.4	555.4	3.3	3.3
5°	551.9	549.3	545.0	546.0	548.1	548.0	548.5	26.2	29.5
10°	538.7	535.0	528.7	529.1	532.7	535.9	538.2	50.8	80.3
15°	515.9	510.9	504.6	513.1	530.5	544.7	552.3	74.2	154.5
20°	477.2	471.4	470.1	497.6	537.0	563.7	575.1	95.8	250.2
25°	425.5	419.5	426.9	469.4	521.2	548.6	558.0	111.1	361.3
30°	371.2	364.3	378.4	421.3	459.9	477.2	482.9	115.5	476.8
35°	317.2	309.8	328.6	357.7	367.8	374.7	379.7	109.4	586.2
40°	263.2	255.5	280.4	291.4	277.2	277.7	283.1	97.2	683.4
45°	213.7	204.0	230.1	230.5	202.8	200.2	207.0	82.5	765.9
50°	172.3	160.2	177.2	176.6	149.6	143.3	148.0	67.7	833.6
55°	133.3	121.6	126.4	129.1	111.8	101.0	103.0	53.0	886.6
60°	96.7	87.9	85.2	90.2	83.1	71.0	72.1	39.7	926.3
65°	67.7	61.0	56.3	61.1	60.5	50.8	52.1	29.0	955.3
70°	46.9	41.7	36.5	40.2	42.1	36.4	38.1	20.6	975.8
75°	30.9	26.7	22.6	25.0	27.1	24.7	26.6	13.7	989.5
80°	17.8	14.8	12.0	13.1	14.7	14.1	15.6	7.7	997.1
85°	6.6	5.4	4.4	4.8	5.3	5.4	5.9	2.9	1000.0
90°	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	24.5	26.0	24.9	26.3	26.7	24.0	25.5	24.4	25.8	26.1
	3H	25.3	26.6	25.6	26.9	27.3	24.6	25.9	25.0	26.2	26.6
	4H	25.6	26.8	26.0	27.1	27.5	24.8	26.1	25.2	26.4	26.8
	6H	25.8	26.9	26.2	27.3	27.7	25.1	26.2	25.5	26.6	26.9
	8H	25.9	26.9	26.3	27.3	27.7	25.2	26.2	25.6	26.6	27.0
	12H	25.9	26.9	26.4	27.3	27.7	25.2	26.2	25.6	26.6	27.0
4H	2H	24.9	26.1	25.3	26.4	26.8	24.4	25.7	24.8	26.0	26.4
	3H	25.7	26.7	26.1	27.1	27.5	25.2	26.2	25.6	26.6	27.0
	4H	26.0	27.0	26.5	27.4	27.8	25.6	26.5	26.0	26.9	27.3
	6H	26.3	27.1	26.8	27.5	28.0	25.8	26.6	26.3	27.1	27.5
	8H	26.4	27.1	26.9	27.6	28.1	25.9	26.6	26.4	27.1	27.6
	12H	26.5	27.1	27.0	27.6	28.1	26.0	26.6	26.5	27.1	27.6
8H	4H	26.1	26.8	26.6	27.3	27.8	25.7	26.4	26.1	26.8	27.3
	6H	26.5	27.0	26.9	27.5	28.0	26.0	26.6	26.5	27.1	27.6
	8H	26.6	27.1	27.1	27.6	28.1	26.2	26.7	26.7	27.2	27.7
	12H	26.7	27.1	27.2	27.6	28.1	26.3	26.7	26.8	27.2	27.7
12H	4H	26.1	26.8	26.6	27.2	27.7	25.7	26.3	26.2	26.8	27.3
	6H	26.5	27.0	27.0	27.5	28.0	26.1	26.6	26.6	27.0	27.6
	8H	26.6	27.0	27.1	27.5	28.1	26.2	26.6	26.7	27.1	27.7

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:		L = 1500
				B = 58

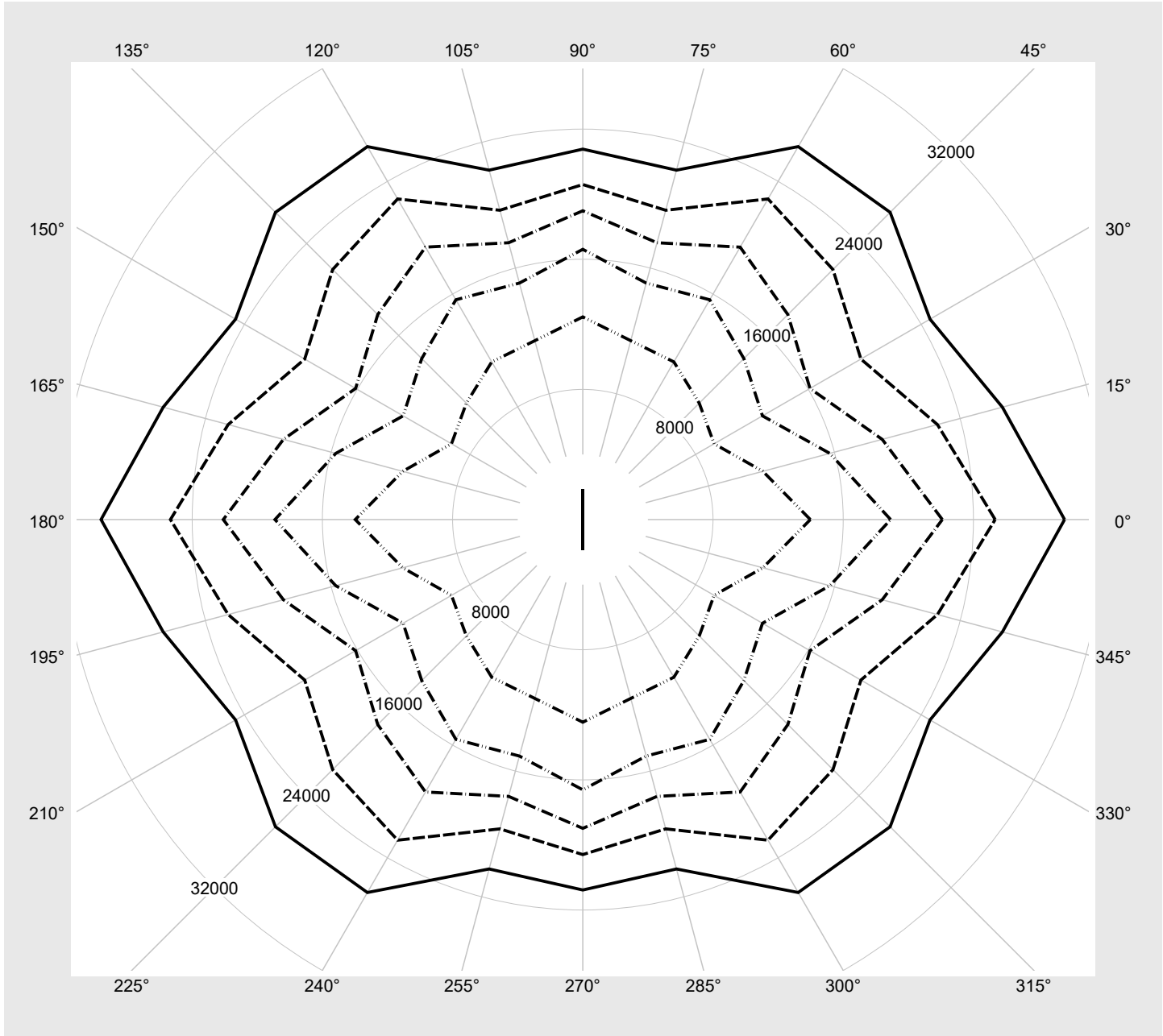
C-planes	γ	Luminance in cd/m ²						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		55859.4	53319.5	60134.4	60239.7	53012.9	52322.9	54115.2
50°		49534.6	46076.1	50958.0	50789.2	43018.4	41204.9	42554.6
55°		42962.9	39170.2	40717.9	41592.4	36017.7	32555.6	33191.1
60°		35735.7	32484.2	31505.3	33335.1	30730.2	26248.8	26637.7
65°		29600.4	26689.9	24634.0	26705.7	26470.0	22234.8	22768.8
70°		25336.6	22558.4	19730.5	21736.0	22756.2	19683.0	20592.5
75°		22090.6	19044.8	16117.7	17819.4	19335.5	17615.2	18979.1
80°		18914.0	15713.4	12747.0	13995.5	15599.5	15049.3	16610.7
85°		13981.5	11453.7	9316.1	10117.7	11190.7	11383.7	12456.7

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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	16080	92.4
95	240	252	15260	87.2
90	227	250	14487	82.4
85	213	248	13647	77.2
80	200	245	12862	72.4
75	187	243	12070	67.7
70	174	240	11268	63.0
65	161	237	10458	58.4
60	148	234	9641	53.8
55	135	231	8818	49.2
50	123	227	8049	44.9
45	110	223	7211	40.2
40	98	219	6432	36.1
35	86	214	5648	31.9
30	73	208	4792	27.4
25	61	202	3995	23.4
20	49	194	3192	19.3
15	37	183	2383	15.1
10	26	171	1636	11.4
5	14	148	815	7.4
1	4	102	127	4.0