
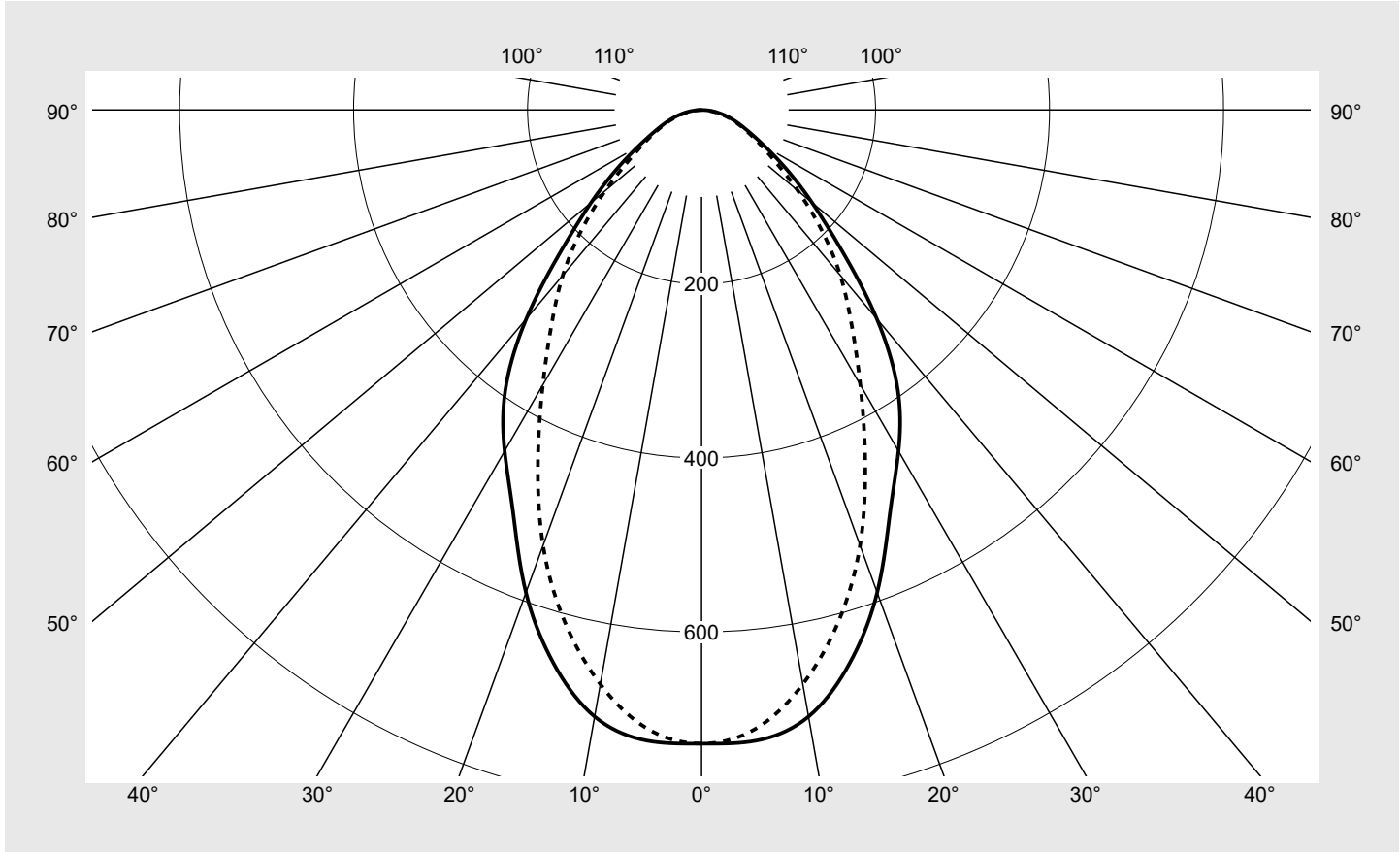


Photometric test report

Family Licross® 21 Recessed	Order number: 52TL12DN6E5M EAN: 4058352971406	LP number 59446_87
	Version cover frosted, wide distribution, high visual comfort Lamps LED 6500 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 14610 lm Power consumption = 84.6 W Luminous efficacy = 172.7 lm/W	serial documentation 28.09.2023



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
		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°	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
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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	23.6	25.1	24.0	25.4	25.7	23.3	24.7	23.6	25.0	25.3
	3H	24.3	25.6	24.7	25.9	26.3	24.1	25.3	24.4	25.7	26.0
	4H	24.7	25.9	25.1	26.2	26.6	24.4	25.6	24.8	26.0	26.3
	6H	25.0	26.1	25.4	26.5	26.8	24.7	25.8	25.1	26.2	26.6
	8H	25.2	26.2	25.6	26.5	26.9	24.8	25.8	25.3	26.2	26.6
	12H	25.3	26.2	25.7	26.6	27.0	24.9	25.8	25.3	26.2	26.6
4H	2H	23.9	25.1	24.3	25.5	25.8	23.6	24.8	24.0	25.2	25.5
	3H	24.7	25.7	25.1	26.1	26.5	24.6	25.6	25.0	26.0	26.4
	4H	25.1	26.0	25.5	26.4	26.8	25.1	26.0	25.5	26.4	26.8
	6H	25.5	26.2	25.9	26.7	27.1	25.4	26.2	25.9	26.6	27.1
	8H	25.7	26.3	26.1	26.8	27.3	25.6	26.3	26.0	26.7	27.2
	12H	25.8	26.4	26.3	26.9	27.4	25.7	26.2	26.1	26.7	27.2
8H	4H	25.2	25.9	25.7	26.3	26.8	25.2	25.9	25.7	26.3	26.8
	6H	25.6	26.2	26.1	26.7	27.2	25.6	26.2	26.1	26.7	27.2
	8H	25.8	26.3	26.3	26.8	27.3	25.8	26.3	26.3	26.8	27.3
	12H	26.0	26.4	26.5	26.9	27.5	25.9	26.3	26.4	26.8	27.4
12H	4H	25.2	25.8	25.7	26.3	26.8	25.2	25.8	25.7	26.3	26.7
	6H	25.6	26.1	26.2	26.6	27.1	25.7	26.1	26.2	26.6	27.1
	8H	25.9	26.3	26.4	26.8	27.3	25.8	26.2	26.4	26.7	27.3

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

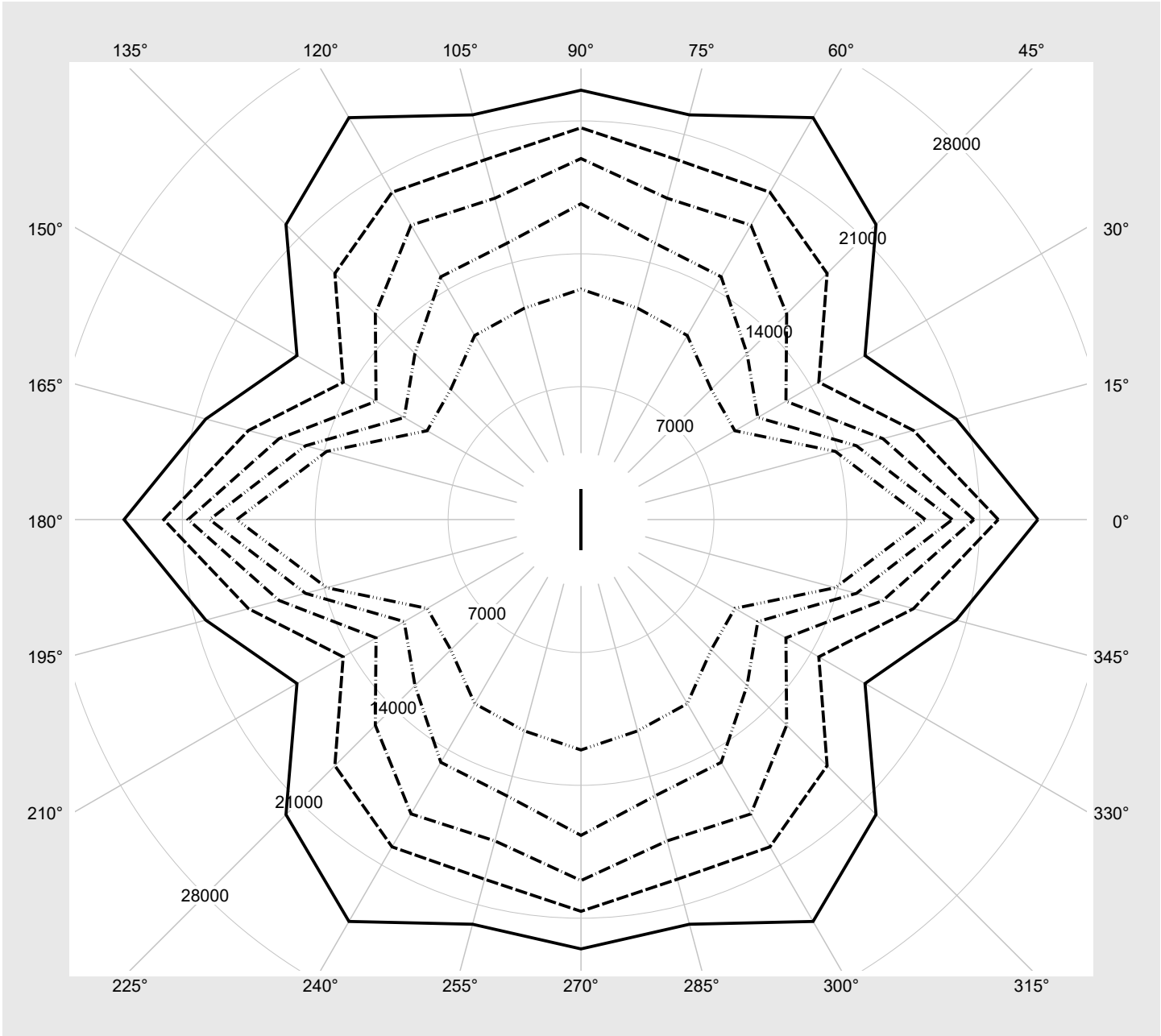
C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		53969.2	51699.0	49517.2	45462.5	41849.4	44447.0	46279.3	
50°		43325.1	39524.4	37435.9	38601.4	36298.4	37196.9	37739.2	
55°		35053.8	30812.6	27438.1	31887.7	32042.0	30504.3	30218.6	
60°		28327.6	24508.2	21151.9	26360.5	28134.8	25325.0	25569.5	
65°		24070.8	20463.2	17274.8	21977.5	24446.3	22070.1	22617.7	
70°		21981.0	18132.5	14464.3	18334.8	19908.0	19615.8	20637.6	
75°		20695.3	16465.5	12466.1	15321.6	17903.3	17525.1	19016.7	
80°		19561.1	15021.6	10752.0	12369.9	14767.3	15069.9	16636.6	
85°		18136.9	13869.1	9358.4	9701.4	11196.6	11526.1	12136.9	

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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	14610	84.6
95	240	252	13874	80.0
90	226	250	13128	75.2
85	213	248	12431	71.0
80	199	245	11670	66.3
75	186	243	10951	62.0
70	173	240	10229	57.8
65	160	237	9496	53.6
60	147	234	8761	49.3
55	134	231	8017	45.1
50	122	227	7320	41.2
45	109	223	6563	37.1
40	97	219	5859	33.2
35	84	213	5086	29.1
30	72	208	4370	25.4
25	60	201	3649	21.6
20	48	193	2920	17.8
15	36	182	2190	14.0
10	24	168	1455	10.2
5	12	142	712	6.5
1	4	102	218	4.1