
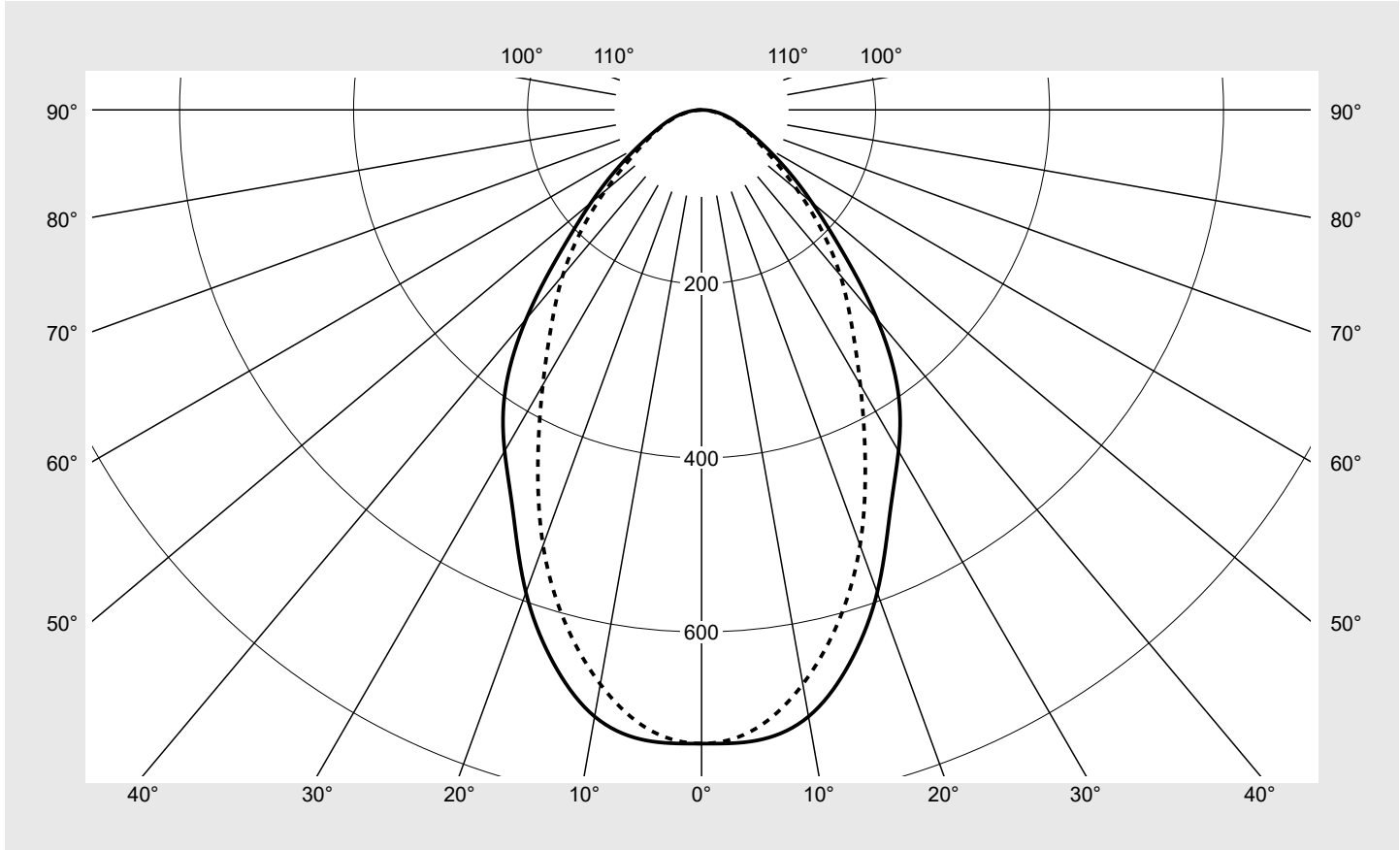


Photometric test report

Family Licross® 21 Recessed	Order number: 52TL12DN4AXM EAN: 4058352890936	LP number 59446_26
	Version cover frosted, wide distribution, high visual comfort Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 10000 lm Power consumption = 54.6 W Luminous efficacy = 183.2 lm/W	serial documentation 03.08.2023




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	22.3	23.8	22.7	24.1	24.4	21.9	23.4	22.3	23.7	24.0
	3H	23.0	24.3	23.4	24.6	25.0	22.7	24.0	23.1	24.4	24.7
	4H	23.4	24.5	23.7	24.9	25.3	23.1	24.3	23.5	24.7	25.0
	6H	23.7	24.8	24.1	25.1	25.5	23.4	24.5	23.8	24.8	25.2
	8H	23.9	24.8	24.3	25.2	25.6	23.5	24.5	23.9	24.9	25.3
	12H	24.0	24.9	24.4	25.3	25.7	23.6	24.5	24.0	24.9	25.3
4H	2H	22.6	23.8	23.0	24.2	24.5	22.3	23.5	22.7	23.9	24.2
	3H	23.4	24.4	23.8	24.7	25.2	23.3	24.3	23.7	24.7	25.1
	4H	23.8	24.7	24.2	25.1	25.5	23.8	24.6	24.2	25.1	25.5
	6H	24.2	24.9	24.6	25.4	25.8	24.1	24.9	24.6	25.3	25.8
	8H	24.3	25.0	24.8	25.5	26.0	24.2	24.9	24.7	25.4	25.9
	12H	24.5	25.1	25.0	25.6	26.1	24.3	24.9	24.8	25.4	25.9
8H	4H	23.9	24.6	24.3	25.0	25.5	23.9	24.6	24.3	25.0	25.5
	6H	24.3	24.9	24.8	25.3	25.8	24.3	24.9	24.8	25.4	25.9
	8H	24.5	25.0	25.0	25.5	26.0	24.5	25.0	25.0	25.5	26.0
	12H	24.7	25.1	25.2	25.6	26.2	24.6	25.0	25.1	25.5	26.1
12H	4H	23.9	24.5	24.4	24.9	25.4	23.9	24.5	24.4	24.9	25.4
	6H	24.3	24.8	24.8	25.3	25.8	24.3	24.8	24.8	25.3	25.8
	8H	24.5	24.9	25.1	25.4	26.0	24.5	24.9	25.0	25.4	26.0

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1500 B = 58
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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°		36939.9	35386.1	33892.7	31117.4	28644.3	30422.3	31676.4	
50°		29654.4	27053.0	25623.5	26421.2	24844.9	25459.9	25831.1	
55°		23993.0	21090.1	18780.3	21825.9	21931.6	20879.1	20683.5	
60°		19389.2	16774.9	14477.7	18042.8	19257.2	17334.0	17501.4	
65°		16475.6	14006.3	11823.9	15042.8	16732.6	15106.2	15480.9	
70°		15045.2	12411.0	9900.3	12549.5	13626.3	13426.3	14125.7	
75°		14165.1	11270.0	8532.6	10487.1	12254.2	11995.2	13016.2	
80°		13388.8	10281.7	7359.3	8466.7	10107.6	10314.8	11387.1	
85°		12414.0	9492.8	6405.5	6640.2	7663.6	7889.2	8307.2	

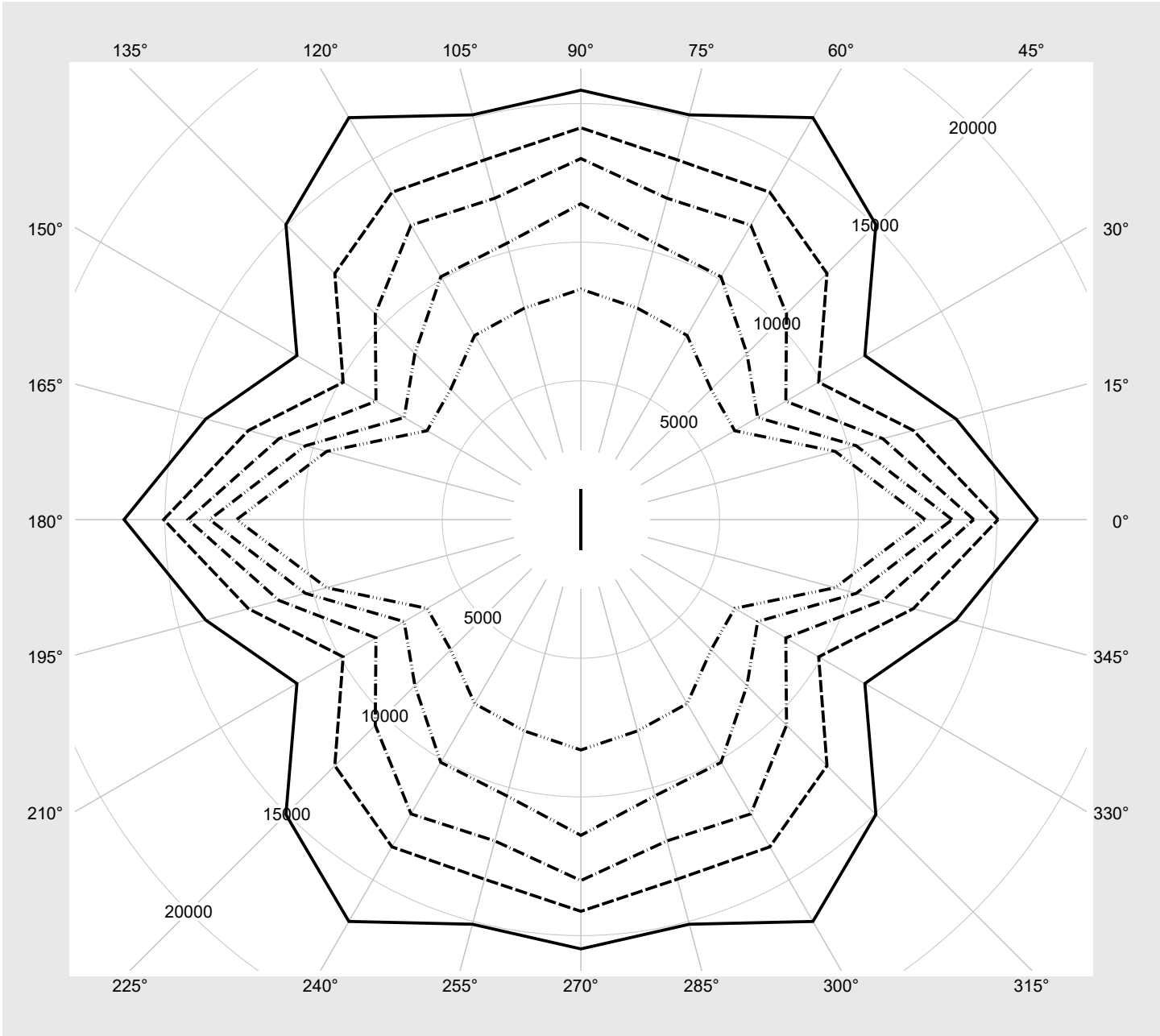
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Luminance values in cd/m²

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	10000	54.6
95	241	252	9511	51.9
90	227	250	8986	49.1
85	214	248	8492	46.4
80	201	245	7998	43.7
75	188	243	7496	41.0
70	175	240	6994	38.3
65	162	238	6489	35.6
60	149	234	5982	32.9
55	137	231	5508	30.5
50	124	228	4994	27.8
45	112	224	4518	25.3
40	99	219	4000	22.5
35	87	215	3520	19.9
30	74	209	2994	17.4
25	62	202	2509	15.3
20	49	194	1981	12.9
15	37	183	1492	10.2
10	25	169	998	6.6
8	20	161	792	4.8