



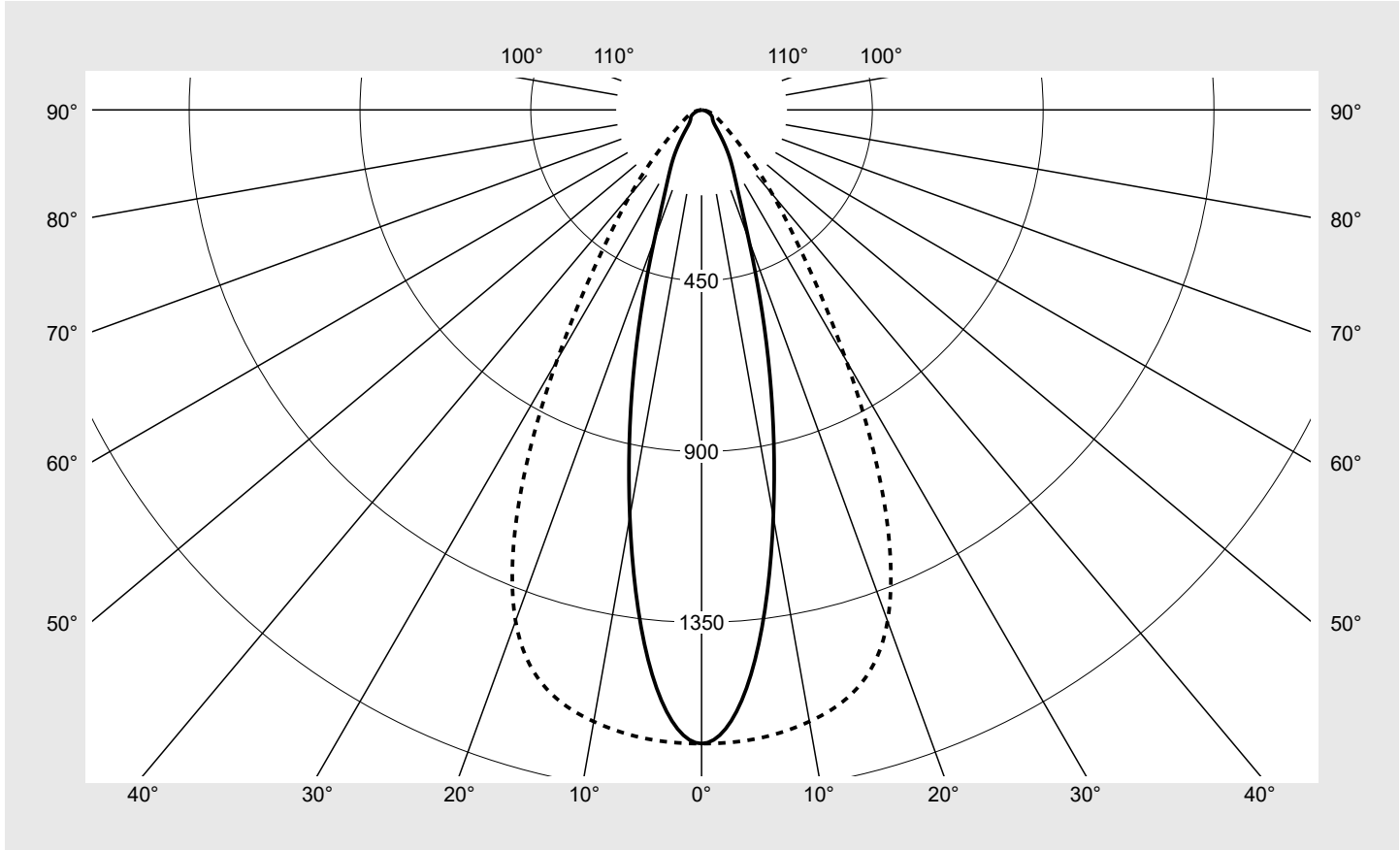
Photometric test report

Family Licross® 21 Recessed	Order number: 52TL1EDN4AXS EAN: 4058352891803	LP number 59263_84
	Version cover frosted, elliptical narrow distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 10000 lm Power consumption = 56.1 W Luminous efficacy = 178.3 lm/W	serial documentation 03.08.2023





Luminous intensity in cd/klm C180-0 C270-90 **Imax: 1670 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=85 N2=95 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
		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°	1669.5	1669.5	1669.5	1669.5	1669.5	1669.5	1669.5	10.0	10.0
5°	1493.3	1495.6	1516.6	1565.9	1616.3	1649.8	1662.9	75.0	85.0
10°	1088.5	1106.7	1175.0	1303.4	1460.6	1586.1	1636.2	126.8	211.8
15°	678.3	712.7	825.0	1006.5	1239.9	1474.8	1578.7	151.0	362.9
20°	362.1	388.9	492.0	707.6	980.6	1275.8	1432.9	148.2	511.0
25°	217.8	231.1	285.8	436.7	705.9	972.9	1137.5	127.8	638.8
30°	151.3	158.5	185.3	264.1	455.8	646.3	761.7	99.0	737.8
35°	95.4	107.0	131.3	171.8	268.4	391.1	463.8	70.7	808.5
40°	57.7	64.5	93.9	120.6	157.9	239.7	291.4	50.0	858.5
45°	43.5	45.9	58.2	86.3	99.5	145.4	176.9	35.2	893.7
50°	37.7	39.0	42.8	61.0	68.3	89.3	109.1	26.2	919.9
55°	34.6	35.0	36.7	43.5	50.5	59.6	73.7	20.9	940.8
60°	30.2	31.1	32.8	34.2	38.6	42.0	53.5	17.5	958.3
65°	23.9	25.4	29.1	28.1	30.1	30.8	41.3	14.6	972.8
70°	17.0	18.4	22.5	23.3	23.4	22.7	30.8	11.5	984.3
75°	10.9	12.0	16.2	17.9	17.4	15.7	20.7	8.4	992.7
80°	6.2	6.7	9.0	10.7	11.0	9.3	11.6	5.0	997.7
85°	3.1	3.3	4.2	5.0	4.8	3.9	4.2	2.3	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	15.2	16.4	15.5	16.7	17.0	20.2	21.4	20.5	21.7	22.0
	3H	16.3	17.4	16.7	17.8	18.1	20.7	21.8	21.1	22.1	22.5
	4H	16.7	17.7	17.1	18.1	18.4	21.0	22.0	21.4	22.3	22.7
	6H	16.9	17.9	17.3	18.2	18.6	21.2	22.1	21.7	22.5	22.9
	8H	17.1	17.9	17.5	18.3	18.7	21.4	22.1	21.8	22.5	22.9
	12H	17.1	17.9	17.6	18.3	18.7	21.4	22.1	21.9	22.5	22.9
4H	2H	16.0	16.9	16.4	17.3	17.7	20.1	21.2	20.5	21.5	21.9
	3H	17.4	18.2	17.8	18.6	19.0	20.9	21.7	21.3	22.1	22.5
	4H	17.9	18.6	18.4	19.1	19.5	21.2	22.0	21.7	22.4	22.8
	6H	18.2	18.8	18.7	19.3	19.8	21.5	22.2	22.0	22.6	23.1
	8H	18.3	18.9	18.8	19.3	19.8	21.7	22.2	22.1	22.6	23.1
	12H	18.4	18.9	18.9	19.4	19.9	21.7	22.2	22.2	22.6	23.1
8H	4H	18.4	18.9	18.9	19.4	19.9	21.3	21.9	21.8	22.4	22.8
	6H	18.9	19.3	19.4	19.8	20.3	21.7	22.2	22.2	22.7	23.2
	8H	19.0	19.4	19.5	19.9	20.4	21.9	22.3	22.4	22.8	23.3
	12H	19.1	19.4	19.6	20.0	20.5	22.0	22.3	22.5	22.8	23.3
12H	4H	18.4	18.9	18.9	19.4	19.9	21.3	21.8	21.8	22.3	22.8
	6H	18.9	19.3	19.4	19.8	20.3	21.7	22.1	22.2	22.6	23.2
	8H	19.1	19.5	19.7	20.0	20.5	21.9	22.2	22.4	22.7	23.3

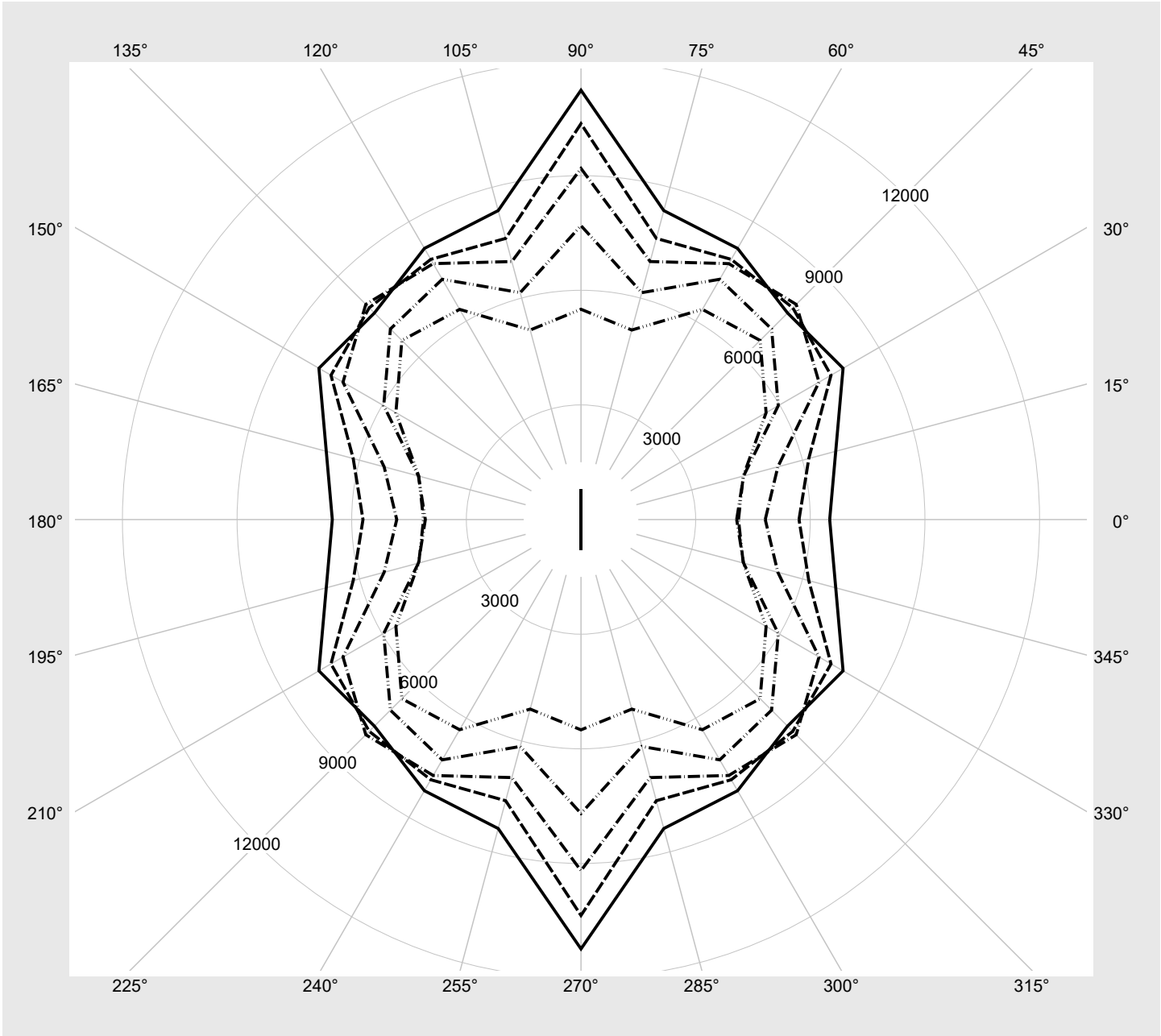
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1500 B = 58
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C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		7069.3	7457.1	9452.8	14024.8	16179.6	23635.2	28762.2	
50°		6748.4	6970.4	7652.9	10914.2	12215.3	15973.9	19515.6	
55°		6926.1	7010.1	7358.5	8712.2	10123.4	11948.8	14773.0	
60°		6932.4	7160.2	7543.7	7868.3	8872.0	9650.8	12297.0	
65°		6507.9	6901.1	7919.2	7645.0	8194.7	8371.2	11236.5	
70°		5705.5	6171.2	7554.5	7837.8	7862.7	7617.7	10360.3	
75°		4821.6	5333.2	7191.8	7964.1	7734.1	6990.6	9188.1	
80°		4073.5	4405.1	5961.3	7054.2	7261.3	6148.0	7691.6	
85°		4121.3	4395.6	5593.1	6629.7	6351.4	5135.5	5503.4	

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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	56.1
95	241	252	9513	53.3
90	227	250	8986	50.4
85	214	248	8496	47.6
80	201	245	8001	44.9
75	188	243	7500	42.2
70	175	240	6999	39.3
65	162	238	6494	36.6
60	149	234	5988	33.8
55	137	231	5513	31.3
50	124	228	5000	28.5
45	111	224	4483	25.7
40	99	219	4005	23.0
35	86	214	3485	20.2
30	74	209	2998	17.7
25	62	202	2513	15.6
20	49	194	1985	13.2
15	37	183	1495	10.5
10	25	169	1000	6.8
8	20	161	794	5.0