

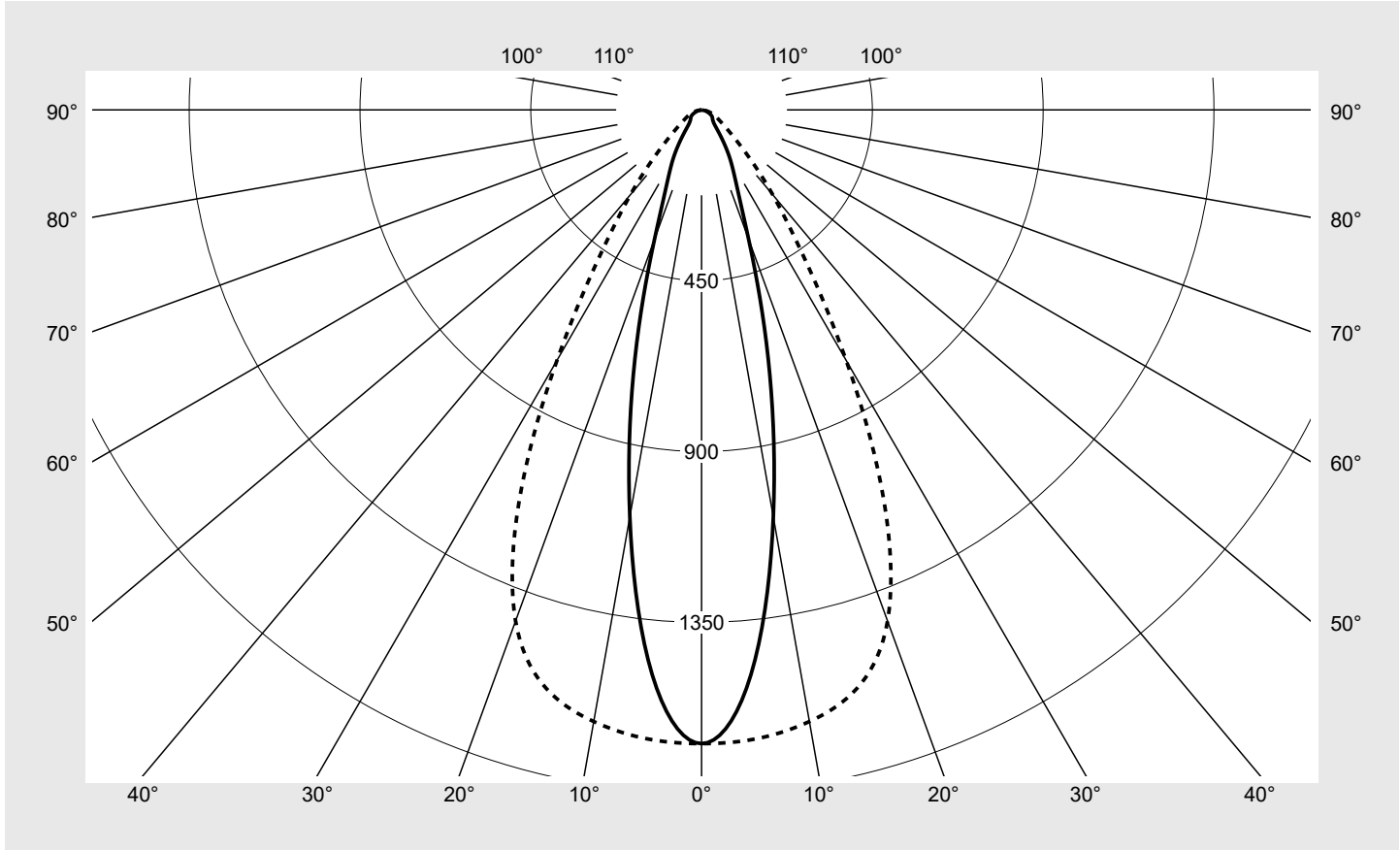


Photometric test report

Family Licross® 21 Recessed	Order number: 52TE1EDN4E5S EAN: 4058352890158	LP number 59263_86
	Version cover frosted, elliptical narrow distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 14620 lm Power consumption = 84.6 W Luminous efficacy = 172.8 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	16.5	17.7	16.8	18.0	18.3	21.5	22.7	21.8	23.0	23.3
	3H	17.6	18.7	18.0	19.1	19.4	22.1	23.1	22.4	23.4	23.8
	4H	18.0	19.0	18.4	19.4	19.8	22.3	23.3	22.7	23.7	24.0
	6H	18.2	19.2	18.6	19.6	20.0	22.6	23.4	23.0	23.8	24.2
	8H	18.4	19.2	18.8	19.6	20.0	22.7	23.4	23.1	23.8	24.2
	12H	18.4	19.2	18.9	19.6	20.0	22.7	23.4	23.2	23.8	24.2
4H	2H	17.3	18.3	17.7	18.6	19.0	21.5	22.5	21.9	22.8	23.2
	3H	18.7	19.5	19.1	19.9	20.3	22.2	23.0	22.6	23.4	23.8
	4H	19.2	20.0	19.7	20.4	20.8	22.6	23.3	23.0	23.7	24.2
	6H	19.5	20.2	20.0	20.6	21.1	22.8	23.5	23.3	23.9	24.4
	8H	19.6	20.2	20.1	20.7	21.1	23.0	23.5	23.5	24.0	24.5
	12H	19.7	20.2	20.2	20.7	21.2	23.0	23.5	23.5	24.0	24.5
8H	4H	19.7	20.2	20.2	20.7	21.2	22.6	23.2	23.1	23.7	24.2
	6H	20.2	20.6	20.7	21.1	21.6	23.1	23.5	23.6	24.0	24.5
	8H	20.3	20.7	20.8	21.2	21.7	23.2	23.6	23.7	24.1	24.6
	12H	20.4	20.8	20.9	21.3	21.8	23.3	23.6	23.8	24.1	24.7
12H	4H	19.8	20.2	20.2	20.7	21.2	22.6	23.1	23.1	23.6	24.1
	6H	20.3	20.6	20.8	21.1	21.7	23.0	23.5	23.6	23.9	24.5
	8H	20.5	20.8	21.0	21.3	21.8	23.2	23.6	23.7	24.1	24.6

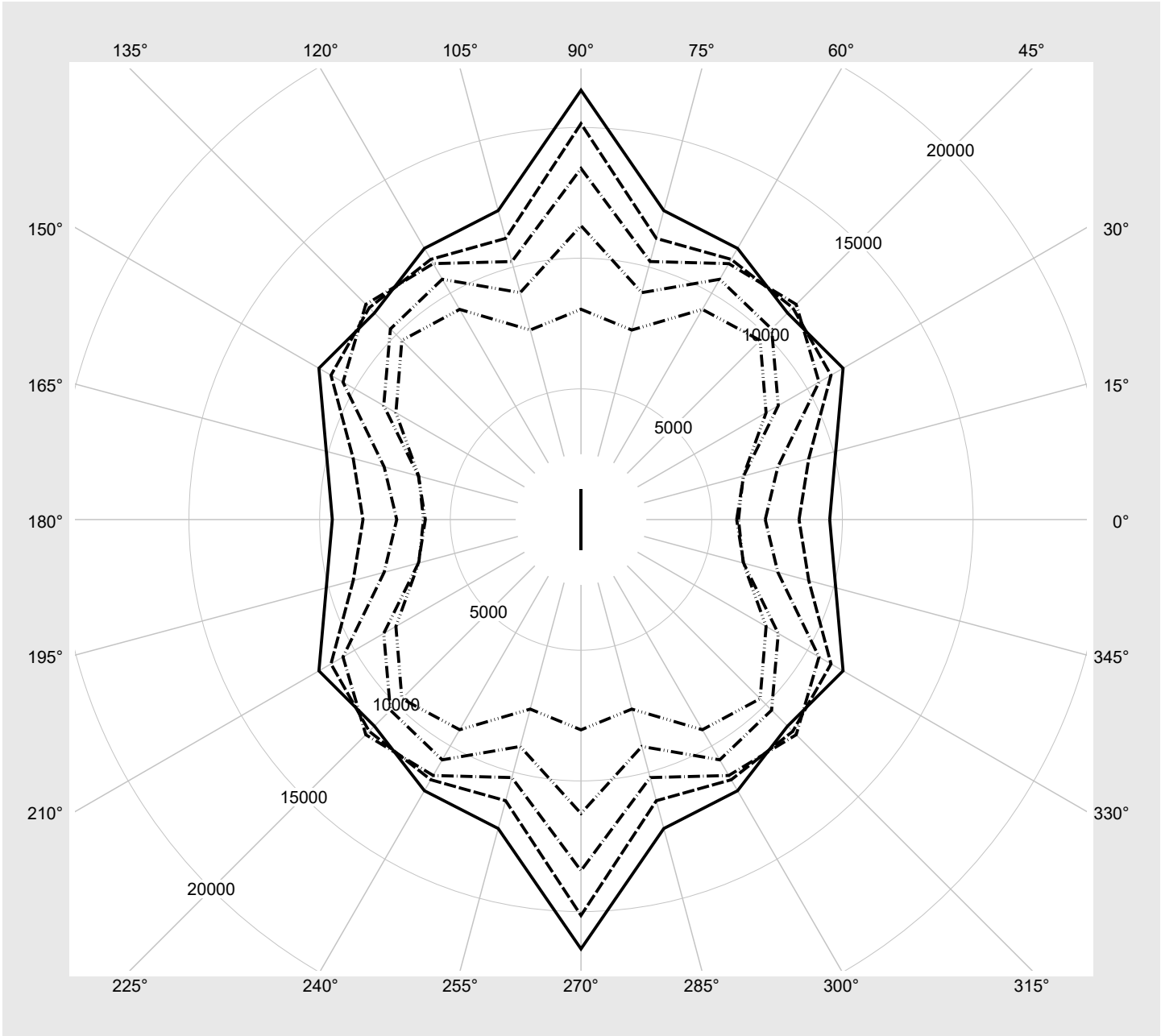
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1500 B = 58
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C-planes	γ	0° 180°	15°	30°	45°	60°	75°	90°
			165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°	270°
Luminance in cd/m²								
45°		10335.3	10902.3	13820.0	20504.2	23654.5	34554.7	42050.3
50°		9866.2	10190.7	11188.6	15956.6	17858.8	23353.8	28531.8
55°		10125.9	10248.7	10758.2	12737.3	14800.4	17469.2	21598.1
60°		10135.2	10468.3	11028.9	11503.4	12970.8	14109.5	17978.2
65°		9514.5	10089.5	11577.8	11177.0	11980.6	12238.7	16427.7
70°		8341.4	9022.4	11044.7	11458.9	11495.2	11137.1	15146.8
75°		7049.2	7797.2	10514.4	11643.5	11307.2	10220.3	13432.9
80°		5955.5	6440.3	8715.5	10313.2	10616.1	8988.4	11245.1
85°		6025.3	6426.4	8177.1	9692.6	9285.8	7508.1	8046.0

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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	14620	84.6
95	240	252	13886	80.0
90	226	250	13142	75.2
85	213	248	12446	71.0
80	199	245	11686	66.3
75	186	243	10968	62.0
70	173	240	10246	57.8
65	160	237	9514	53.6
60	147	234	8778	49.3
55	134	231	8034	45.1
50	122	227	7338	41.2
45	109	223	6580	37.1
40	97	219	5875	33.2
35	84	213	5100	29.1
30	72	208	4383	25.4
25	60	201	3660	21.6
20	48	193	2930	17.8
15	36	182	2197	14.0
10	24	168	1460	10.2
5	12	142	715	6.5
1	4	102	218	4.1