
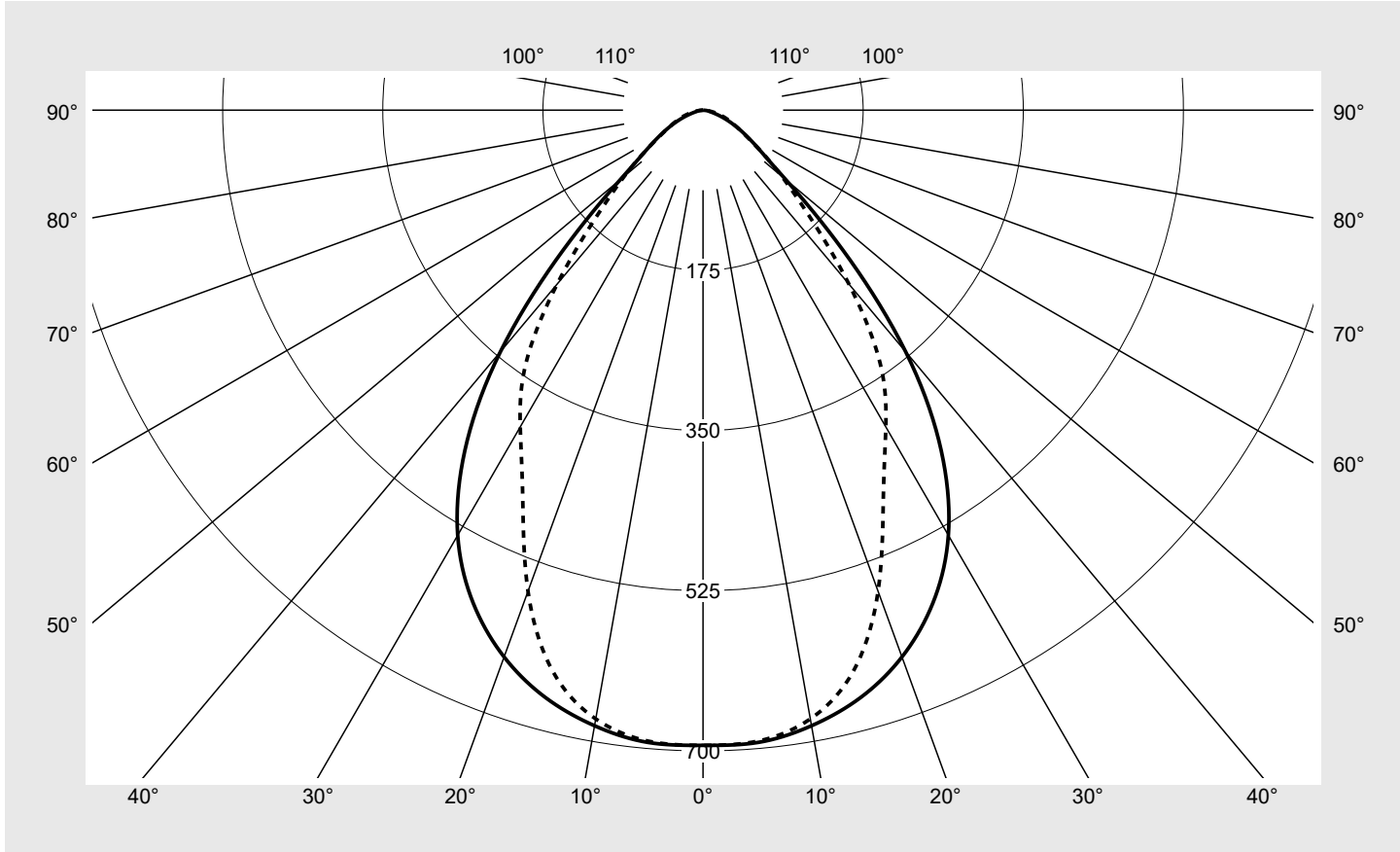


Photometric test report

Family Licross® 21 Recessed	Order number: 52TL18DN4E5M EAN: 4058352891391	LP number 59104_149
	Version cover frosted, medium distribution, high visual comfort Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 14850 lm Power consumption = 84.6 W Luminous efficacy = 175.5 lm/W	serial documentation 03.08.2023
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 694 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=75 N2=94 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°	694.0	694.0	694.0	694.0	694.0	694.0	694.0	4.2	4.2
5°	693.3	691.2	687.0	689.0	691.7	691.4	691.9	33.0	37.1
10°	682.9	681.6	676.2	676.6	677.1	675.1	675.3	64.5	101.6
15°	664.5	663.4	655.7	650.8	644.2	637.0	634.6	92.2	193.9
20°	635.7	634.6	621.8	603.7	582.0	564.8	559.4	112.6	306.5
25°	594.3	592.8	570.2	532.2	493.8	471.5	466.3	123.2	429.7
30°	536.3	532.4	496.5	443.5	408.6	399.3	399.5	125.5	555.2
35°	453.8	445.6	398.8	354.7	341.6	338.2	337.4	119.2	674.4
40°	344.5	330.9	285.8	265.8	259.9	251.4	248.0	99.2	773.7
45°	216.1	203.7	174.1	171.5	169.1	165.7	165.2	69.4	843.1
50°	117.9	113.3	108.5	113.4	112.2	111.3	112.1	47.2	890.2
55°	75.1	72.3	72.7	81.4	80.0	76.7	75.3	34.3	924.5
60°	52.8	51.4	52.2	58.3	58.9	53.9	51.6	25.9	950.4
65°	36.0	35.7	38.4	42.9	44.1	39.6	37.5	19.7	970.1
70°	22.2	22.5	25.4	30.3	32.0	29.3	27.4	14.1	984.2
75°	11.8	12.0	13.9	18.9	21.4	20.1	18.3	8.9	993.1
80°	6.2	6.2	6.9	9.4	11.9	11.6	10.1	4.9	998.0
85°	3.0	2.9	3.0	3.8	4.5	4.6	3.6	2.0	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	22.9	24.3	23.2	24.6	24.9	22.2	23.6	22.6	23.9	24.2
	3H	23.1	24.4	23.5	24.7	25.1	22.8	24.0	23.1	24.3	24.7
	4H	23.2	24.3	23.6	24.7	25.1	23.0	24.1	23.4	24.5	24.9
	6H	23.2	24.2	23.6	24.6	25.0	23.1	24.2	23.6	24.6	25.0
	8H	23.3	24.2	23.7	24.6	25.0	23.2	24.2	23.7	24.6	25.0
	12H	23.3	24.1	23.7	24.5	24.9	23.3	24.1	23.7	24.5	24.9
4H	2H	23.0	24.2	23.4	24.5	24.9	22.5	23.6	22.9	24.0	24.4
	3H	23.4	24.4	23.9	24.8	25.2	23.2	24.2	23.7	24.6	25.0
	4H	23.5	24.4	24.0	24.8	25.2	23.6	24.4	24.0	24.8	25.3
	6H	23.6	24.3	24.0	24.7	25.2	23.8	24.6	24.3	25.0	25.5
	8H	23.6	24.2	24.0	24.7	25.1	23.9	24.6	24.4	25.0	25.5
	12H	23.6	24.2	24.1	24.6	25.1	24.0	24.5	24.5	25.0	25.5
8H	4H	23.6	24.3	24.1	24.7	25.2	23.7	24.3	24.1	24.8	25.2
	6H	23.7	24.2	24.2	24.7	25.2	24.0	24.5	24.5	25.0	25.5
	8H	23.7	24.2	24.2	24.6	25.2	24.1	24.6	24.6	25.1	25.6
	12H	23.7	24.1	24.2	24.6	25.2	24.2	24.6	24.7	25.1	25.7
12H	4H	23.6	24.2	24.1	24.7	25.1	23.7	24.2	24.2	24.7	25.2
	6H	23.7	24.1	24.2	24.6	25.2	24.0	24.5	24.5	25.0	25.5
	8H	23.7	24.1	24.2	24.6	25.2	24.2	24.5	24.7	25.0	25.6

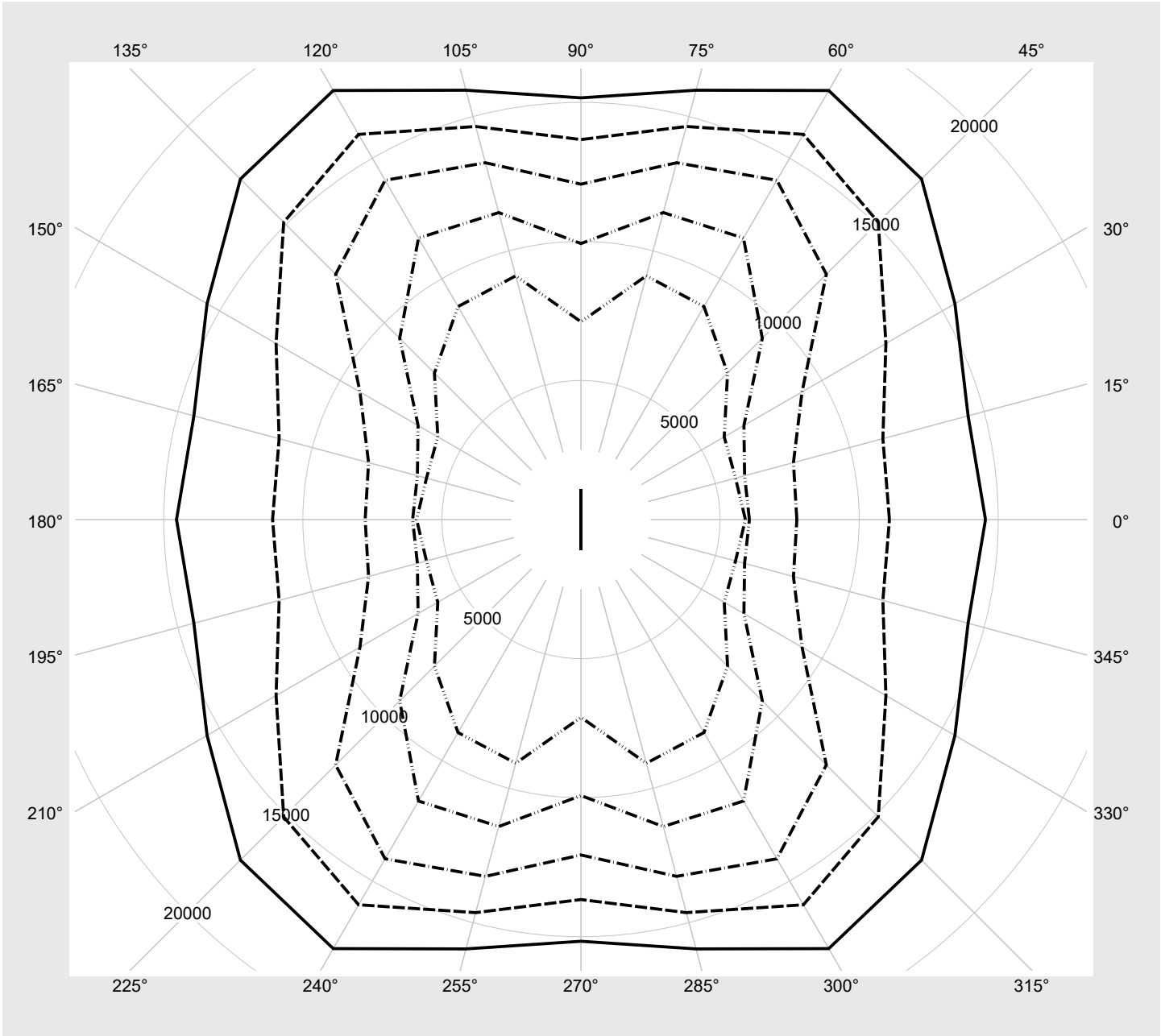
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1500 B = 58
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C-planes	γ	Luminance in cd/m ²						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		52165.9	49175.1	42015.4	41393.6	40811.1	39998.1	39889.5
50°		31313.4	30084.5	28817.3	30118.0	29807.3	29553.7	29773.5
55°		22358.4	21506.4	21640.3	24223.7	23816.3	22835.4	22401.6
60°		18037.8	17538.0	17810.1	19905.5	20111.3	18416.4	17598.8
65°		14542.7	14408.6	15523.8	17316.6	17813.4	15982.2	15162.3
70°		11088.7	11236.4	12658.2	15116.1	15992.5	14631.5	13662.9
75°		7760.3	7907.3	9176.2	12475.0	14085.5	13281.6	12059.5
80°		6054.1	6089.5	6763.8	9219.2	11685.5	11426.9	9924.0
85°		5910.6	5752.0	5945.8	7451.9	8842.4	9071.5	7111.1

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



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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	14850	84.6
95	240	252	14104	80.0
90	226	250	13348	75.2
85	213	248	12642	71.0
80	199	245	11870	66.3
75	186	243	11140	62.0
70	173	240	10407	57.8
65	160	237	9663	53.6
60	147	234	8916	49.3
55	134	231	8161	45.1
50	122	227	7453	41.2
45	109	223	6683	37.1
40	97	219	5967	33.2
35	84	213	5180	29.1
30	72	208	4452	25.4
25	60	201	3718	21.6
20	48	193	2976	17.8
15	36	182	2232	14.0
10	24	168	1483	10.2
5	12	142	726	6.5
1	4	102	222	4.1