

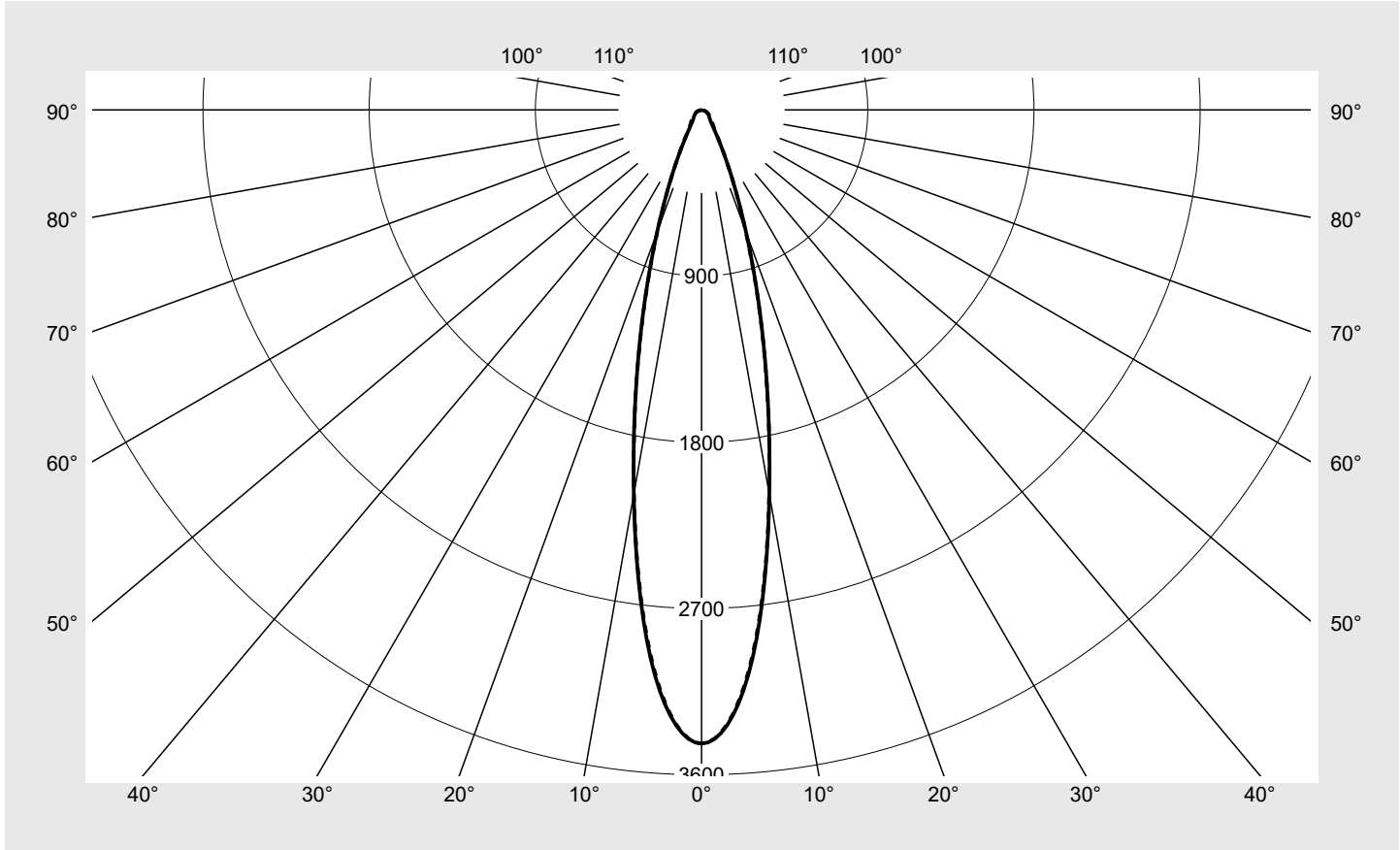


Photometric test report

Family Licross® 21 Recessed	Order number: 52TL11DN4E5S EAN: 4058352890585	LP number 58784_245
	Version cover frosted, narrow distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 14970 lm Power consumption = 84.6 W Luminous efficacy = 177 lm/W	serial documentation 03.08.2023
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 3431 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=87 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
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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°	3431.3	3431.3	3431.3	3431.3	3431.3	3431.3	3431.3	20.5	20.5
5°	3030.0	3009.9	2995.2	3008.4	3015.8	3015.7	3017.5	143.9	164.4
10°	2113.5	2098.5	2092.1	2104.8	2111.9	2109.7	2109.2	200.3	364.7
15°	1287.2	1281.7	1283.9	1294.7	1294.7	1286.2	1283.2	182.7	547.4
20°	703.4	705.4	717.6	726.5	719.3	702.5	697.3	133.5	680.9
25°	354.0	358.8	370.9	376.0	367.5	355.6	354.0	84.3	765.2
30°	176.2	179.2	185.6	185.7	179.6	178.8	183.6	49.7	814.9
35°	102.4	102.6	103.9	102.5	99.6	107.7	116.7	32.8	847.7
40°	73.1	72.4	71.7	70.6	70.7	80.9	90.2	26.3	874.0
45°	60.7	58.7	57.0	56.9	57.9	66.7	75.5	23.6	897.6
50°	52.7	51.5	51.2	50.6	50.0	56.0	63.2	22.2	919.8
55°	44.8	43.4	45.4	45.0	43.0	46.3	51.7	20.3	940.1
60°	37.3	36.1	38.2	39.8	37.2	38.0	41.8	18.1	958.2
65°	29.8	28.9	31.0	34.0	31.7	30.7	33.0	15.5	973.8
70°	21.9	21.7	22.9	26.9	25.3	23.3	24.3	12.3	986.1
75°	12.2	12.7	14.5	18.5	17.7	15.7	16.0	8.2	994.3
80°	5.5	5.6	6.4	9.0	10.0	8.8	8.6	4.2	998.5
85°	2.2	2.1	2.4	3.2	3.5	3.4	3.0	1.6	1000.0
90°	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	17.4	18.5	17.8	18.8	19.2	17.8	18.9	18.1	19.2	19.5
	3H	18.8	19.7	19.1	20.1	20.4	19.2	20.2	19.6	20.5	20.9
	4H	19.1	20.0	19.5	20.4	20.8	19.7	20.6	20.1	21.0	21.4
	6H	19.3	20.1	19.7	20.5	20.9	20.0	20.9	20.5	21.2	21.6
	8H	19.4	20.1	19.8	20.5	20.9	20.2	20.9	20.6	21.3	21.7
	12H	19.4	20.0	19.8	20.4	20.8	20.2	20.9	20.7	21.3	21.7
4H	2H	18.1	19.1	18.5	19.4	19.8	18.4	19.4	18.8	19.7	20.1
	3H	19.6	20.4	20.1	20.8	21.2	20.0	20.8	20.5	21.2	21.6
	4H	20.1	20.7	20.5	21.2	21.6	20.7	21.3	21.1	21.8	22.2
	6H	20.3	20.8	20.7	21.3	21.7	21.1	21.6	21.5	22.1	22.5
	8H	20.3	20.8	20.8	21.3	21.8	21.2	21.7	21.7	22.1	22.6
	12H	20.3	20.8	20.8	21.2	21.7	21.2	21.7	21.7	22.1	22.6
8H	4H	20.4	20.9	20.9	21.4	21.8	20.9	21.4	21.4	21.9	22.4
	6H	20.7	21.1	21.2	21.5	22.1	21.5	21.9	22.0	22.4	22.9
	8H	20.7	21.1	21.2	21.5	22.1	21.6	22.0	22.1	22.5	23.0
	12H	20.7	21.0	21.2	21.5	22.1	21.7	22.0	22.2	22.5	23.1
12H	4H	20.4	20.9	20.9	21.3	21.8	20.9	21.4	21.4	21.8	22.3
	6H	20.7	21.0	21.2	21.5	22.1	21.4	21.8	22.0	22.3	22.8
	8H	20.7	21.1	21.3	21.6	22.1	21.6	21.9	22.2	22.5	23.0

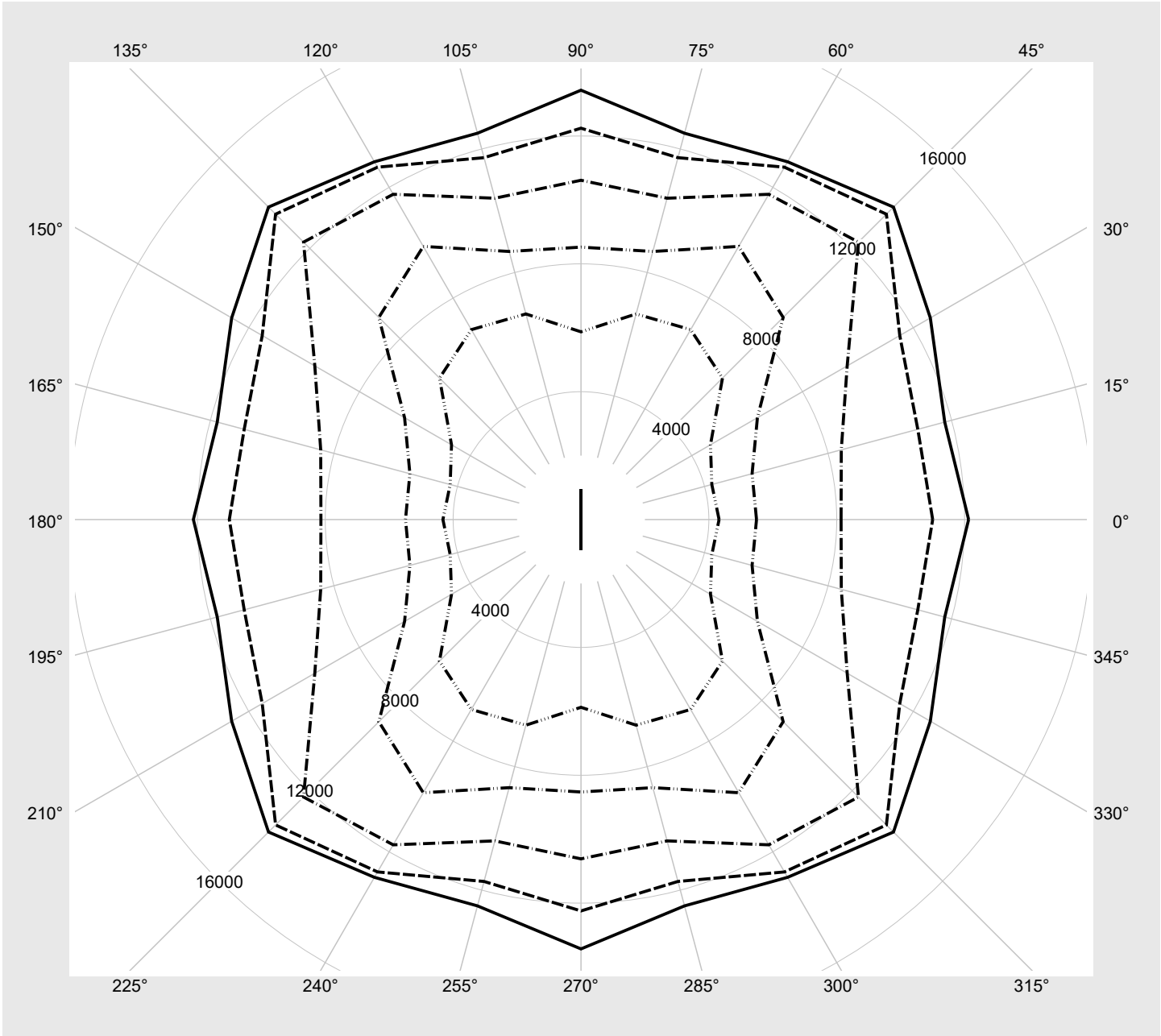
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1500
			B = 58

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°		14774.5	14289.8	13878.8	13841.8	14088.3	16224.8	18381.8	
50°		14119.7	13793.4	13718.1	13552.4	13376.0	14994.2	16921.9	
55°		13452.9	13032.0	13628.1	13505.7	12906.3	13901.7	15503.3	
60°		12835.3	12416.2	13134.4	13690.5	12813.6	13077.6	14398.4	
65°		12126.1	11780.5	12618.4	13824.8	12924.6	12512.5	13432.3	
70°		11001.7	10907.6	11514.9	13511.1	12729.3	11721.1	12243.8	
75°		8136.1	8430.0	9615.3	12275.3	11750.1	10407.8	10614.6	
80°		5490.6	5541.1	6372.5	8943.9	9867.4	8683.3	8522.8	
85°		4319.7	4236.8	4677.0	6260.4	6860.6	6659.2	5873.5	

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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	14970	84.6
95	240	252	14218	80.0
90	226	250	13456	75.2
85	213	248	12744	71.0
80	199	245	11965	66.3
75	186	243	11230	62.0
70	173	240	10491	57.8
65	160	237	9741	53.6
60	147	234	8988	49.3
55	134	231	8227	45.1
50	122	227	7513	41.2
45	109	223	6737	37.1
40	97	219	6016	33.2
35	84	213	5222	29.1
30	72	208	4488	25.4
25	60	201	3748	21.6
20	48	193	3000	17.8
15	36	182	2250	14.0
10	24	168	1495	10.2
5	12	142	732	6.5
1	4	102	223	4.1