

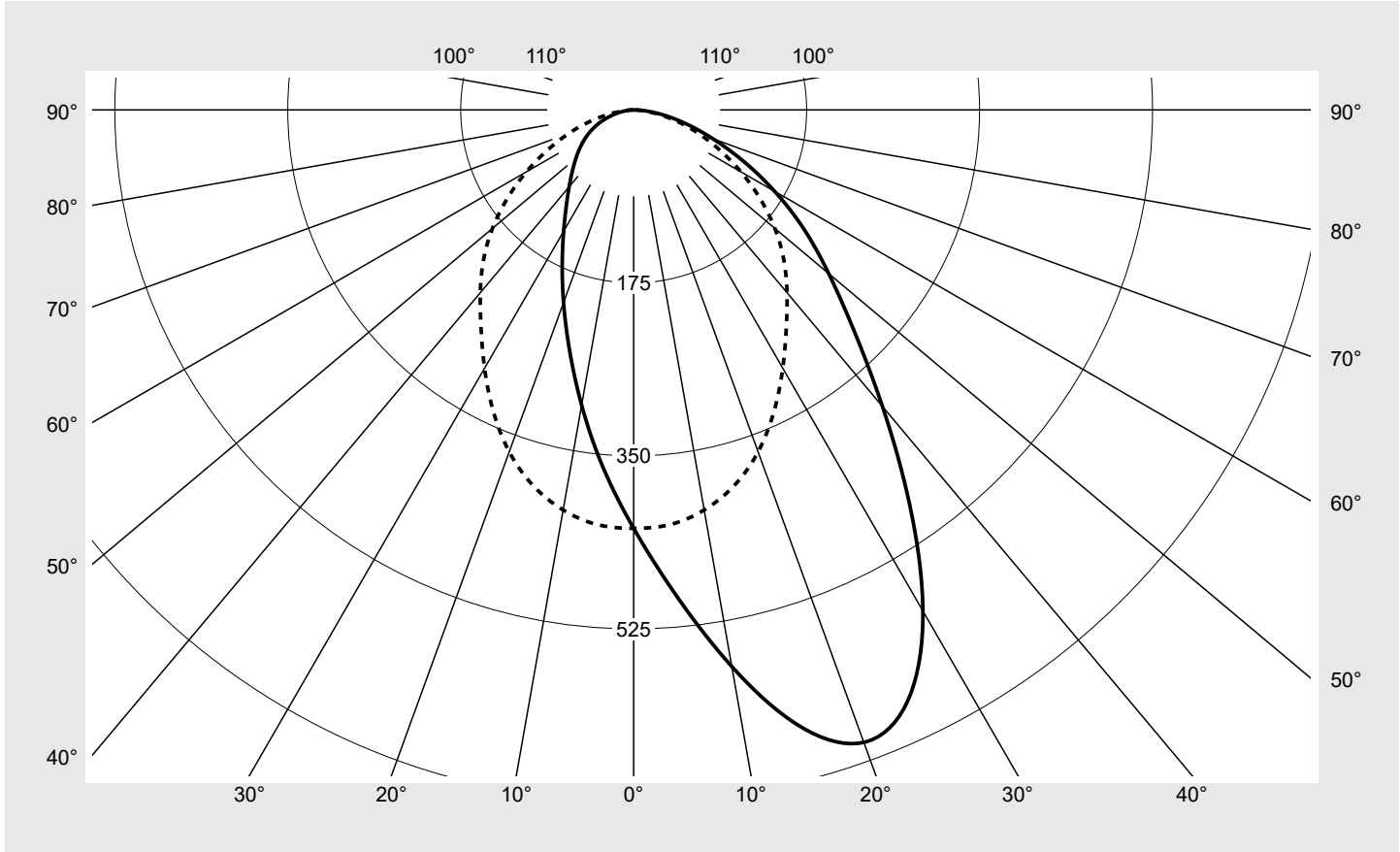


Photometric test report

Family Licross® 21 Recessed	Order number: 52TL14DE445G EAN: 4058352891186	LP number 58683_274
	Version cover frosted, asymmetric distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 4730 lm Power consumption = 29.9 W Luminous efficacy = 158.2 lm/W	serial documentation 02.08.2023
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 681 cd/klm**



Classifications	
DIN 5040	A 4 0
CIE	N1=56 N2=84 N3=97 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
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C-planes	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°
γ	Luminous intensity in cd/klm						
0°	423.3	423.3	423.3	423.3	423.3	423.3	423.3
5°	492.9	491.4	480.7	469.8	456.1	438.7	421.2
10°	571.7	566.6	544.9	518.0	484.6	447.0	411.0
15°	644.7	637.1	605.9	562.5	507.2	447.4	393.4
20°	680.9	674.8	644.8	594.0	519.7	438.2	368.1
25°	657.9	657.6	642.1	600.0	518.2	419.3	336.2
30°	585.4	591.2	594.0	574.0	501.7	394.4	301.7
35°	486.6	496.5	513.6	518.9	472.6	367.8	269.2
40°	391.6	400.9	423.7	447.6	435.3	342.4	241.4
45°	315.0	320.7	340.1	373.0	389.0	312.9	214.9
50°	257.7	259.4	273.6	305.9	334.9	275.1	186.5
55°	210.4	209.0	219.8	247.0	276.4	230.5	156.0
60°	164.7	163.2	172.4	194.6	218.3	183.7	125.4
65°	122.2	121.6	130.0	147.7	165.1	139.3	96.1
70°	85.2	85.7	92.4	106.6	118.3	100.1	70.2
75°	55.7	56.1	61.0	71.1	77.9	65.9	46.5
80°	31.6	31.9	35.4	40.3	43.4	36.3	25.7
85°	13.1	12.9	14.6	16.5	16.2	13.2	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C-planes	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm						Luminous flux in lm/klm	
0°	423.3	423.3	423.3	423.3	423.3	423.3	2.5	2.5
5°	404.2	389.5	375.7	365.6	362.1	361.8	20.2	22.8
10°	378.5	351.6	328.9	312.6	305.3	303.2	40.3	63.1
15°	347.6	311.7	283.3	263.5	254.2	251.1	59.8	123.0
20°	312.8	271.7	241.2	220.7	211.0	207.4	77.2	200.1
25°	275.0	232.7	202.9	183.7	174.4	171.0	89.9	290.0
30°	237.7	196.9	169.7	152.6	144.6	141.7	96.4	386.5
35°	204.1	165.0	141.0	127.0	121.0	118.9	96.9	483.4
40°	176.0	138.8	117.2	106.8	102.8	101.6	93.4	576.7
45°	151.3	116.9	98.0	90.5	88.3	87.8	87.1	663.9
50°	128.6	98.3	82.7	77.4	76.2	76.3	79.3	743.1
55°	107.1	82.4	69.7	65.9	65.5	66.0	69.9	813.0
60°	87.0	68.0	58.3	55.3	55.4	56.0	59.0	872.0
65°	68.6	55.0	47.7	45.3	45.4	45.9	47.4	919.5
70°	51.6	42.4	37.2	35.1	35.2	35.4	35.8	955.3
75°	35.3	29.8	26.5	24.5	24.4	24.5	24.7	980.0
80°	20.2	17.6	15.6	14.5	14.4	14.5	14.3	994.3
85°	7.8	7.1	6.7	6.2	6.2	6.3	5.7	1000.0
90°	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	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	26.2	27.8	26.6	28.1	28.4	24.8	26.4	25.2	26.7	27.0
	3H	27.2	28.6	27.5	28.9	29.3	25.9	27.4	26.3	27.7	28.1
	4H	27.5	28.9	27.9	29.2	29.6	26.3	27.7	26.7	28.0	28.4
	6H	27.8	29.0	28.2	29.4	29.8	26.6	27.8	27.0	28.2	28.6
	8H	27.9	29.1	28.3	29.4	29.8	26.7	27.9	27.1	28.2	28.6
	12H	28.0	29.0	28.4	29.4	29.9	26.8	27.8	27.2	28.2	28.6
4H	2H	26.9	28.3	27.3	28.6	29.0	25.4	26.8	25.8	27.1	27.5
	3H	28.1	29.2	28.5	29.6	30.0	26.8	28.0	27.2	28.3	28.8
	4H	28.5	29.5	29.0	29.9	30.4	27.4	28.4	27.8	28.8	29.2
	6H	28.9	29.7	29.3	30.2	30.6	27.7	28.6	28.2	29.1	29.5
	8H	29.0	29.8	29.4	30.2	30.7	27.9	28.7	28.3	29.1	29.6
	12H	29.1	29.8	29.5	30.2	30.7	27.9	28.6	28.4	29.1	29.6
8H	4H	28.9	29.7	29.3	30.1	30.6	27.6	28.4	28.1	28.9	29.3
	6H	29.3	29.9	29.8	30.4	30.9	28.1	28.8	28.6	29.3	29.8
	8H	29.4	30.0	29.9	30.5	31.0	28.3	28.9	28.8	29.4	29.9
	12H	29.6	30.1	30.1	30.6	31.1	28.4	28.9	28.9	29.4	29.9
12H	4H	28.9	29.6	29.4	30.1	30.6	27.6	28.4	28.1	28.8	29.3
	6H	29.4	29.9	29.9	30.4	30.9	28.2	28.7	28.7	29.2	29.8
	8H	29.6	30.0	30.1	30.5	31.1	28.4	28.9	28.9	29.4	29.9

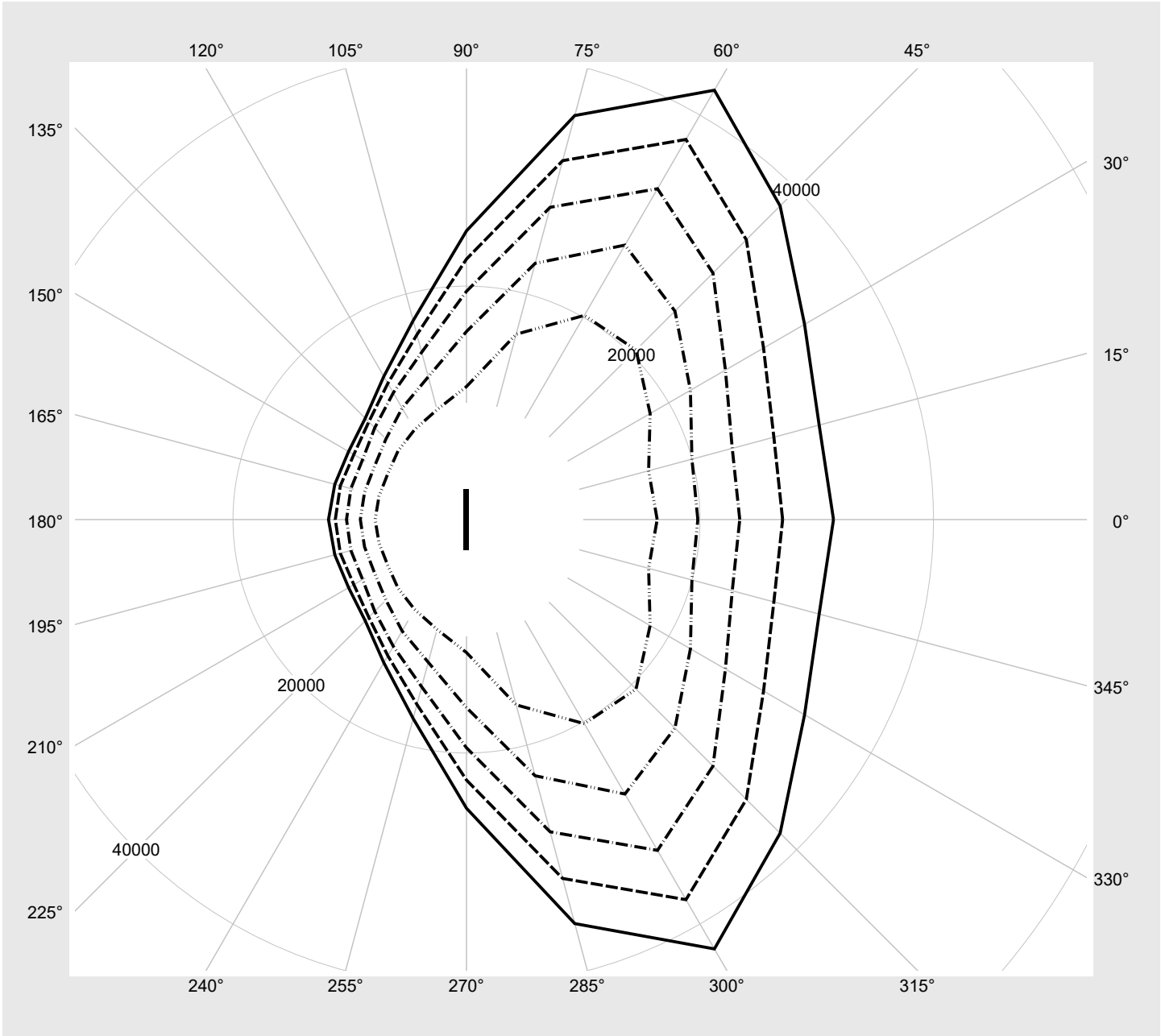
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 750
			B = 58

C-planes	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°
γ	Luminance in cd/m ²												
45°	48433.6	49308.9	52304.2	57361.6	59812.5	48122.3	33047.6	23273.3	17973.0	15063.1	13921.3	13581.8	13495.2
50°	43586.8	43875.7	46282.9	51739.2	56660.7	46529.0	31550.7	21761.2	16635.5	13983.3	13085.7	12896.3	12909.1
55°	39877.8	39626.1	41664.4	46820.0	52407.2	43690.7	29566.7	20310.7	15616.6	13212.8	12498.1	12419.0	12519.7
60°	35815.6	35499.4	37493.6	42321.2	47479.0	39941.9	27260.7	18913.3	14782.8	12670.3	12036.2	12040.3	12186.2
65°	31438.3	31275.7	33439.8	37996.1	42471.2	35832.1	24731.0	17647.6	14162.0	12266.1	11660.9	11678.7	11820.4
70°	27080.3	27259.2	29382.6	33900.6	37600.3	31829.7	22316.8	16399.4	13473.8	11837.2	11143.5	11187.7	11239.8
75°	23408.8	23568.4	25611.5	29863.1	32724.6	27694.9	19553.3	14834.5	12539.0	11114.8	10274.9	10251.0	10277.4
80°	19817.5	19991.5	22150.0	25255.2	27148.2	22724.2	16110.5	12657.0	11025.8	9758.4	9104.7	9041.5	9092.8
85°	16333.6	16151.4	18163.8	20539.3	20192.4	16435.9	11394.3	9745.0	8892.9	8300.3	7796.3	7756.3	7827.5

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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	4730	29.9
95	240	252	4492	28.3
90	226	250	4251	26.7
85	213	248	4024	25.2
80	199	245	3778	23.6
75	186	243	3545	22.1
70	173	240	3312	20.6
65	160	237	3077	19.1
60	147	234	2839	17.6
55	134	231	2598	16.1
50	122	227	2374	14.8
45	109	223	2129	13.4
40	97	219	1901	12.2
35	84	213	1652	10.8
30	72	208	1419	9.4
25	60	201	1185	8.0
20	48	193	951	6.6
17	40	186	792	5.6