

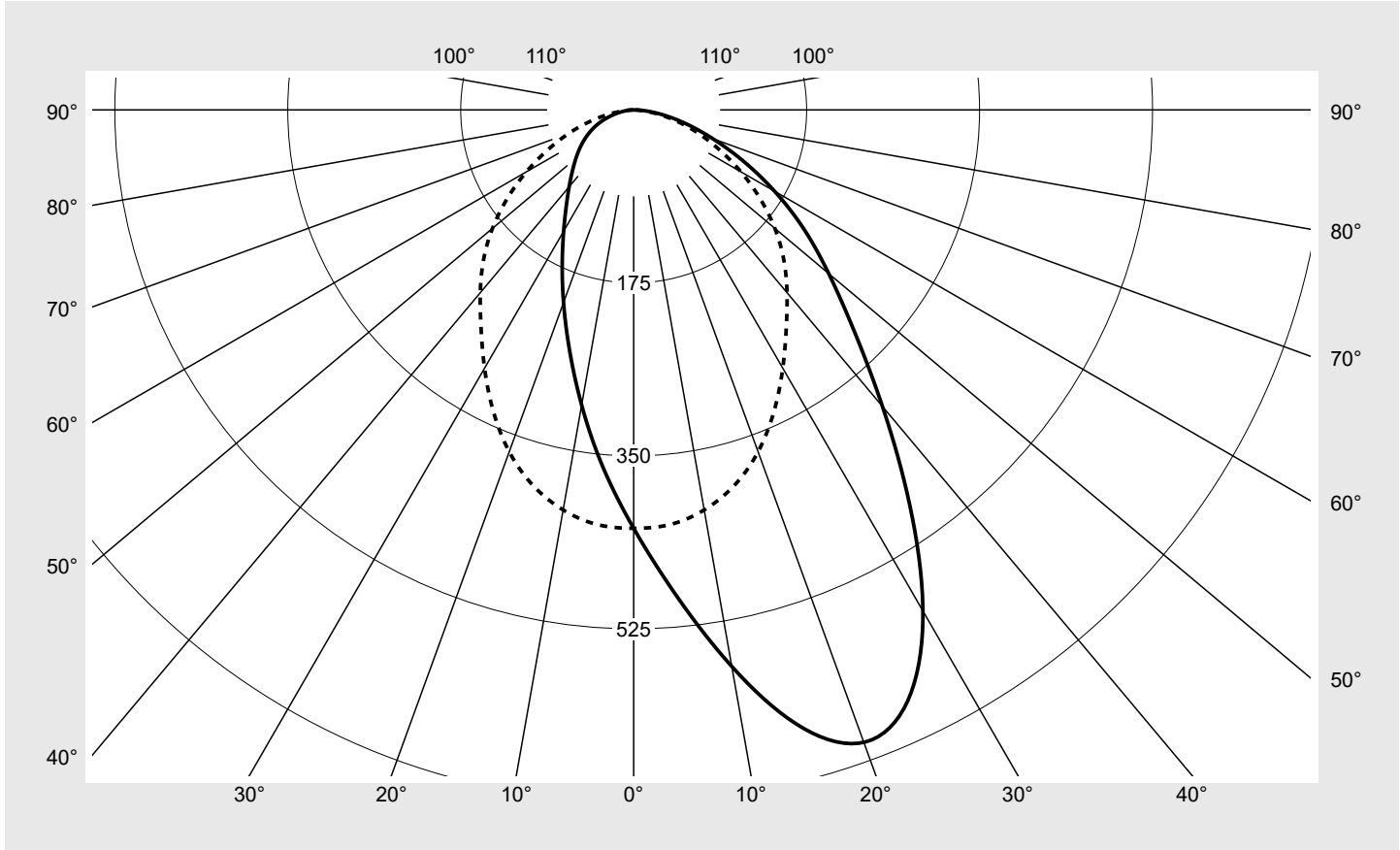


Photometric test report

Family Licross® 21 Recessed	Order number: 52TL14DN49XG EAN: 4058352891209	LP number 58683_277
	Version cover frosted, asymmetric distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 9470 lm Power consumption = 58.0 W Luminous efficacy = 163.3 lm/W	serial documentation 03.08.2023
		

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	27.6	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	27.0	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	30.0	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	30.0	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

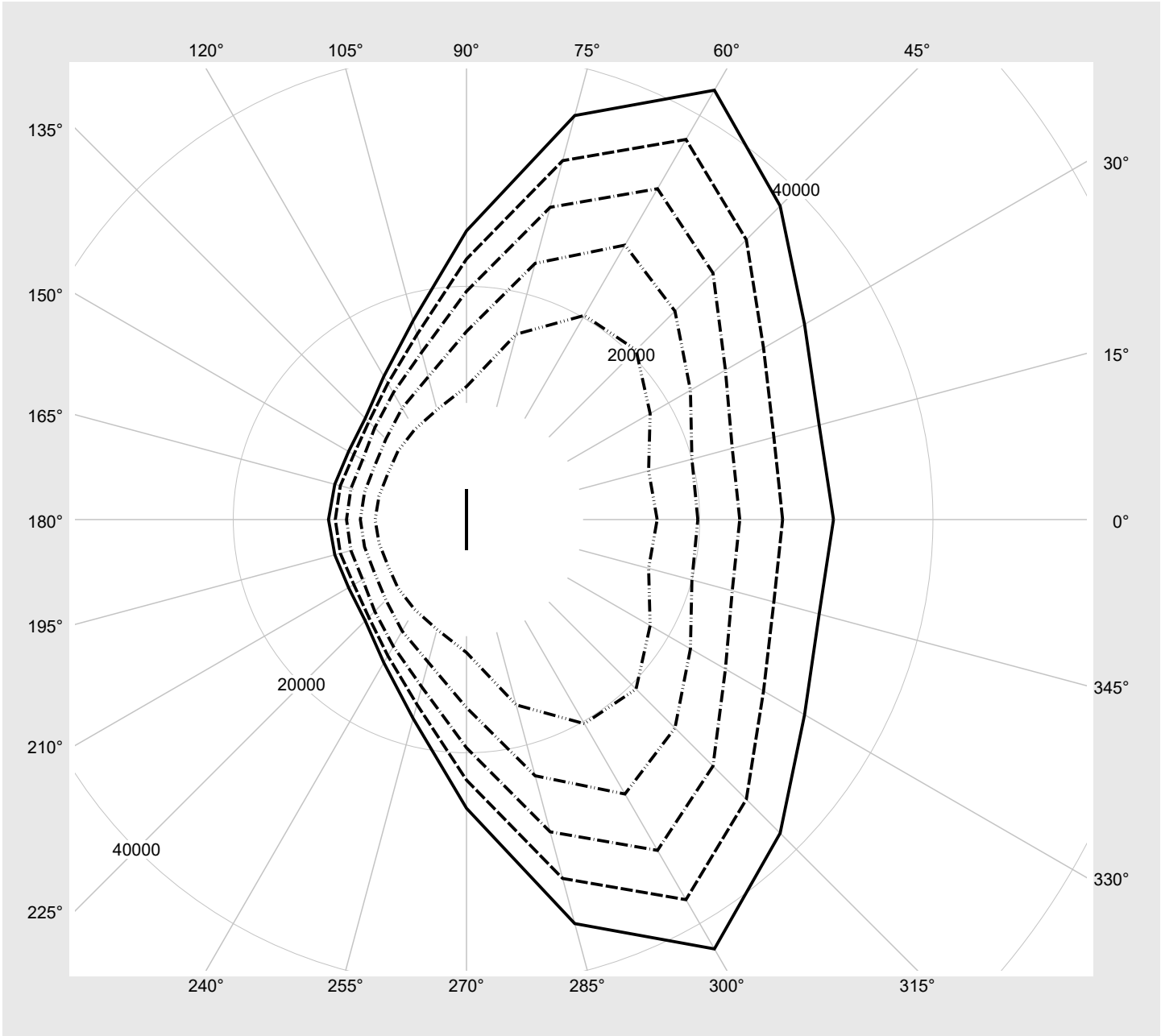
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1500
			B = 58

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°	48484.8	49361.0	52359.5	57422.2	59875.7	48173.2	33082.5	23297.9	17992.0	15079.0	13936.0	13596.1	13509.4
50°	43632.9	43922.1	46331.8	51793.9	56720.6	46578.2	31584.0	21784.3	16653.0	13998.1	13099.6	12909.9	12922.8
55°	39920.0	39667.9	41708.4	46869.5	52462.6	43736.9	29597.9	20332.1	15633.1	13226.8	12511.3	12432.2	12532.9
60°	35853.4	35536.9	37533.2	42365.9	47529.2	39984.1	27289.5	18933.3	14798.5	12683.7	12048.9	12053.0	12199.1
65°	31471.5	31308.8	33475.1	38036.3	42516.1	35869.9	24757.2	17666.2	14177.0	12279.0	11673.2	11691.0	11832.9
70°	27108.9	27288.1	29413.7	33936.5	37640.0	31863.3	22340.4	16416.7	13488.1	11849.7	11155.3	11199.5	11251.7
75°	23433.5	23593.4	25638.6	29894.7	32759.2	27724.2	19574.0	14850.2	12552.2	11126.5	10285.8	10261.8	10288.3
80°	19838.4	20012.7	22173.4	25281.9	27176.9	22748.2	16127.5	12670.4	11037.5	9768.8	9114.3	9051.0	9102.4
85°	16350.9	16168.5	18183.0	20561.0	20213.8	16453.3	11406.4	9755.3	8902.3	8309.1	7804.5	7764.5	7835.7

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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	9470	58.0
95	240	252	8993	54.8
90	226	250	8511	51.5
85	213	248	8056	48.7
80	199	245	7564	45.5
75	186	243	7099	42.6
70	173	240	6631	39.6
65	160	237	6160	36.8
60	147	234	5683	33.9
55	134	231	5202	31.0
50	122	227	4753	28.4
45	109	223	4262	25.5
40	97	219	3807	22.9
35	84	213	3308	20.1
30	72	208	2843	17.5
25	60	201	2374	15.0
20	48	193	1902	12.3
15	36	182	1428	9.7
10	24	168	950	7.2
5	12	142	469	4.6
2	4	102	146	3.0