

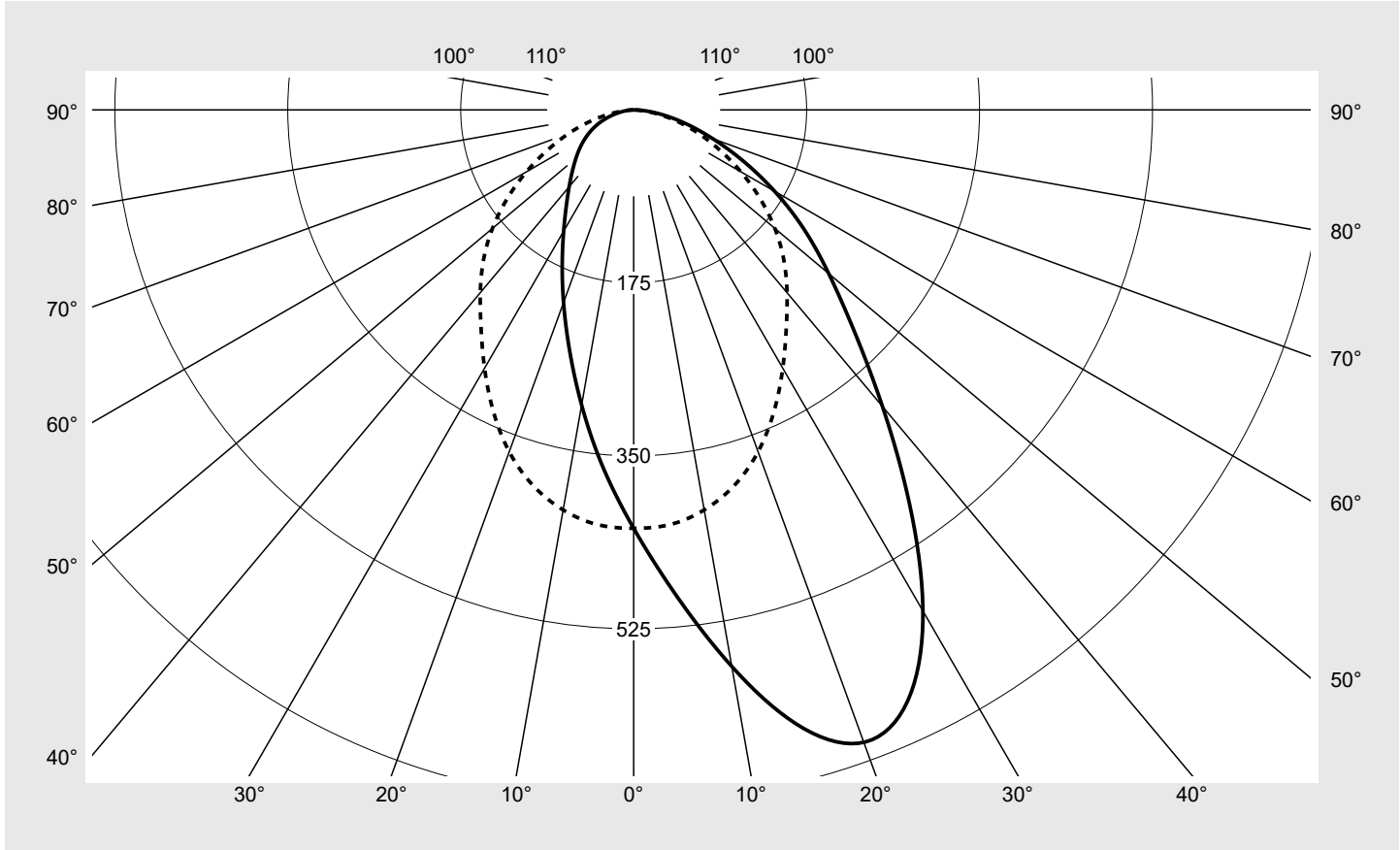


Photometric test report

Family Licross® 11 Recessed	Order number: 51TL14DN485FD EAN: 4058352418239	LP number 58683_16										
	<table border="0"> <tr> <td>Version</td> <td>cover frosted, asymmetric distribution</td> </tr> <tr> <td>Lamps</td> <td>LED 4000 K CRI ≥ 80</td> </tr> <tr> <td>Controlgear</td> <td>ECG-DALI</td> </tr> <tr> <td>Setting</td> <td>AC-mode</td> </tr> <tr> <td>Rated values</td> <td> Net luminous flux = 8550 lm Power consumption = 55.0 W Luminous efficacy = 155.5 lm/W </td> </tr> </table>	Version	cover frosted, asymmetric distribution	Lamps	LED 4000 K CRI ≥ 80	Controlgear	ECG-DALI	Setting	AC-mode	Rated values	Net luminous flux = 8550 lm Power consumption = 55.0 W Luminous efficacy = 155.5 lm/W	serial documentation 26.08.2020 
Version	cover frosted, asymmetric distribution											
Lamps	LED 4000 K CRI ≥ 80											
Controlgear	ECG-DALI											
Setting	AC-mode											
Rated values	Net luminous flux = 8550 lm Power consumption = 55.0 W Luminous efficacy = 155.5 lm/W											

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

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									
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	25.8	27.4	26.2	27.8	28.1	24.4	26.1	24.8	26.4	26.7
	3H	26.8	28.3	27.2	28.6	28.9	25.6	27.0	26.0	27.4	27.7
	4H	27.2	28.5	27.6	28.9	29.2	26.0	27.3	26.4	27.7	28.1
	6H	27.4	28.7	27.8	29.0	29.4	26.3	27.5	26.7	27.9	28.3
	8H	27.5	28.7	27.9	29.1	29.5	26.3	27.5	26.8	27.9	28.3
	12H	27.6	28.7	28.0	29.1	29.5	26.4	27.5	26.8	27.9	28.3
4H	2H	26.6	27.9	27.0	28.3	28.7	25.1	26.4	25.5	26.8	27.1
	3H	27.7	28.9	28.1	29.2	29.7	26.5	27.6	26.9	28.0	28.4
	4H	28.2	29.2	28.6	29.6	30.0	27.0	28.0	27.5	28.4	28.9
	6H	28.5	29.4	29.0	29.8	30.3	27.4	28.3	27.8	28.7	29.2
	8H	28.6	29.4	29.1	29.9	30.3	27.5	28.3	28.0	28.8	29.2
	12H	28.7	29.4	29.2	29.9	30.4	27.6	28.3	28.1	28.7	29.2
8H	4H	28.5	29.3	29.0	29.8	30.2	27.3	28.1	27.7	28.5	29.0
	6H	28.9	29.6	29.4	30.1	30.6	27.8	28.4	28.3	28.9	29.4
	8H	29.1	29.7	29.6	30.2	30.7	27.9	28.5	28.4	29.0	29.5
	12H	29.2	29.7	29.7	30.2	30.7	28.1	28.5	28.6	29.0	29.6
12H	4H	28.6	29.3	29.0	29.7	30.2	27.3	28.0	27.8	28.5	29.0
	6H	29.0	29.6	29.5	30.1	30.6	27.8	28.4	28.3	28.9	29.4
	8H	29.2	29.7	29.7	30.2	30.7	28.0	28.5	28.5	29.0	29.6

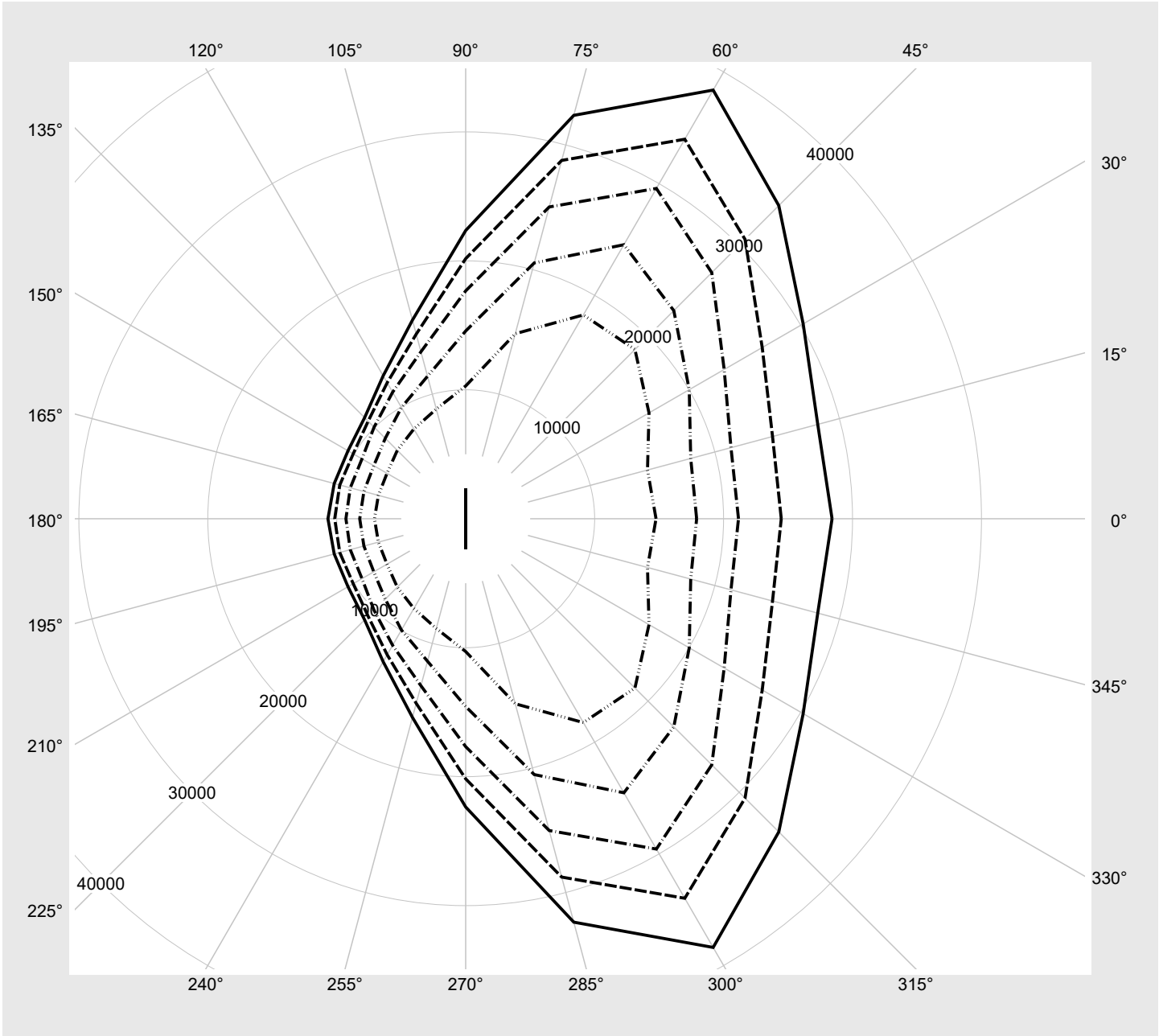
C-planes	Luminance table												
	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°
γ	Luminance in cd/m ²												
45°	43774.5	44565.6	47272.9	51843.7	54058.8	43493.2	29868.6	21034.5	16244.1	13614.1	12582.1	12275.3	12197.0
50°	39394.0	39655.1	41830.7	46762.2	51210.2	42053.2	28515.7	19667.9	15035.2	12638.2	11827.0	11655.7	11667.3
55°	36041.8	35814.3	37656.5	42316.2	47365.9	39487.9	26722.5	18356.9	14114.4	11941.8	11295.8	11224.4	11315.4
60°	32370.3	32084.5	33886.9	38250.1	42911.8	36099.7	24638.3	17093.9	13360.8	11451.5	10878.4	10882.1	11014.0
65°	28414.1	28267.2	30223.1	34341.1	38385.7	32385.2	22352.0	15950.0	12799.7	11086.1	10539.2	10555.2	10683.4
70°	24475.3	24637.1	26556.2	30639.6	33983.3	28767.8	20170.1	14821.8	12177.7	10698.5	10071.5	10111.5	10158.6
75°	21157.0	21301.3	23147.8	26990.5	29576.7	25030.8	17672.4	13407.5	11332.8	10045.6	9286.5	9264.9	9288.8
80°	17911.1	18068.5	20019.3	22825.8	24536.7	20538.3	14560.7	11439.5	9965.2	8819.7	8228.9	8171.7	8218.1
85°	14762.4	14597.8	16416.6	18563.5	18250.0	14854.9	10298.3	8807.6	8037.5	7501.9	7046.3	7010.2	7074.5

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Luminance values in cd/m²



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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	8550	55.0
95	240	252	8126	52.0
90	226	250	7692	49.0
85	212	247	7257	46.0
80	199	245	6847	43.2
75	186	243	6422	40.4
70	173	240	5998	37.6
65	160	237	5573	34.8
60	146	234	5115	31.9
55	134	231	4719	29.5
50	121	227	4271	26.8
45	109	223	3857	24.2
40	96	218	3408	21.5
35	84	213	2994	19.1
30	72	208	2581	16.6
25	59	201	2129	14.0
20	48	193	1727	11.8
15	36	182	1289	9.4
10	24	168	851	6.9
5	13	145	449	5.0