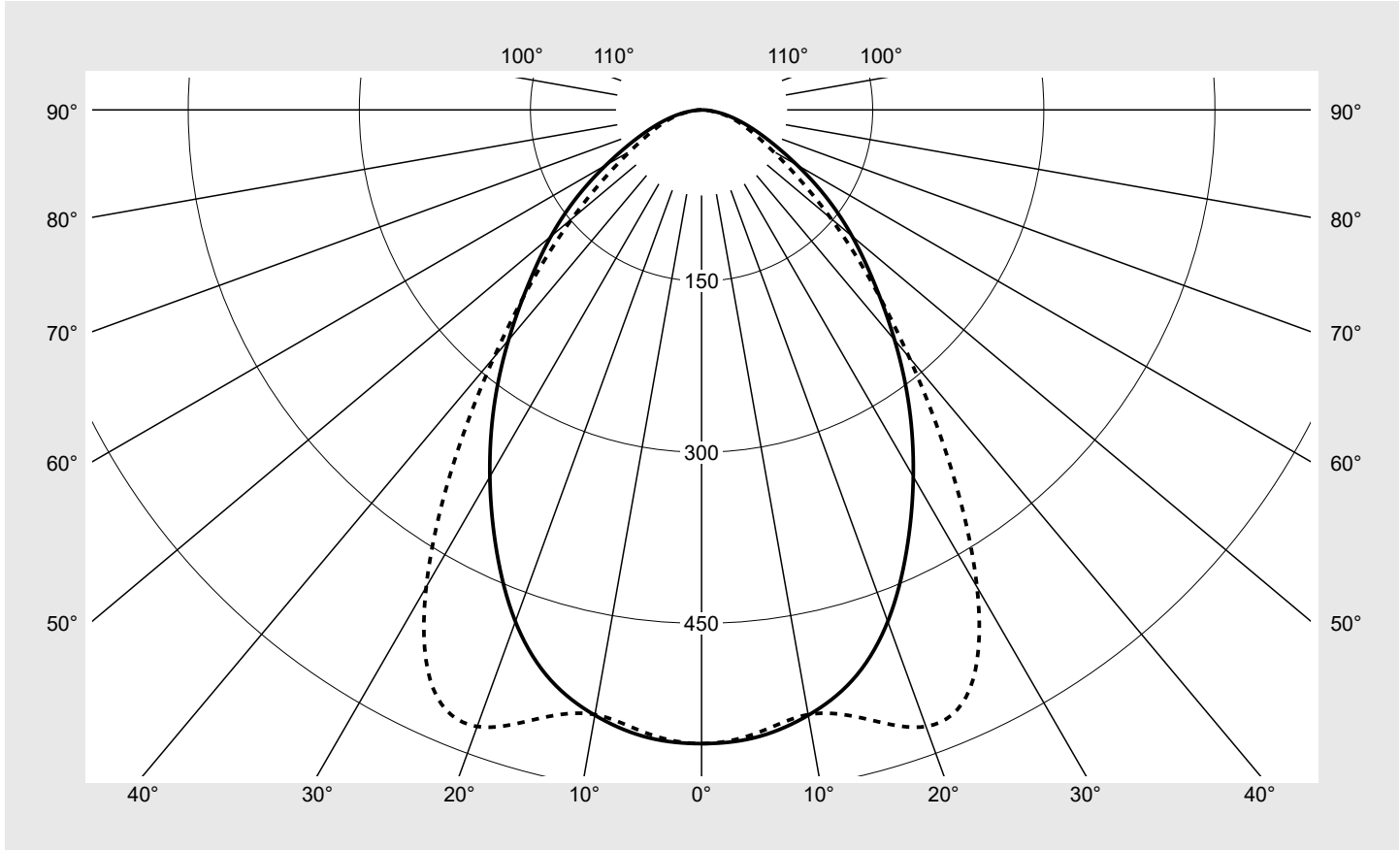


Photometric test report

Family Licross® Recessed	Order number: 51TL12DN4DXL EAN: 4058352256954	LP number 58689_11
	Version cover frosted, wide distribution, high visual comfort	serial documentation 23.07.2019
	Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI	
Rated values	Net luminous flux = 13000 lm Power consumption = 76.0 W Luminous efficacy = 171.1 lm/W	



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 575 cd/klm**



Classifications	
DIN 5040	A 5 0
CIE	N1=66 N2=91 N3=98 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

Photometric test report

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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°	555.4	555.4	555.4	555.4	555.4	555.4	555.4	3.3	3.3
5°	551.9	549.3	545.0	546.0	548.1	548.0	548.5	26.2	29.5
10°	538.7	535.0	528.7	529.1	532.7	535.9	538.2	50.8	80.3
15°	515.9	510.9	504.6	513.1	530.5	544.7	552.3	74.2	154.5
20°	477.2	471.4	470.1	497.6	537.0	563.7	575.1	95.8	250.2
25°	425.5	419.5	426.9	469.4	521.2	548.6	558.0	111.1	361.3
30°	371.2	364.3	378.4	421.3	459.9	477.2	482.9	115.5	476.8
35°	317.2	309.8	328.6	357.7	367.8	374.7	379.7	109.4	586.2
40°	263.2	255.5	280.4	291.4	277.2	277.7	283.1	97.2	683.4
45°	213.7	204.0	230.1	230.5	202.8	200.2	207.0	82.5	765.9
50°	172.3	160.2	177.2	176.6	149.6	143.3	148.0	67.7	833.6
55°	133.3	121.6	126.4	129.1	111.8	101.0	103.0	53.0	886.6
60°	96.7	87.9	85.2	90.2	83.1	71.0	72.1	39.7	926.3
65°	67.7	61.0	56.3	61.1	60.5	50.8	52.1	29.0	955.3
70°	46.9	41.7	36.5	40.2	42.1	36.4	38.1	20.6	975.8
75°	30.9	26.7	22.6	25.0	27.1	24.7	26.6	13.7	989.5
80°	17.8	14.8	12.0	13.1	14.7	14.1	15.6	7.7	997.1
85°	6.6	5.4	4.4	4.8	5.3	5.4	5.9	2.9	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

Photometric test report

Family Licross® Recessed	Order number: 51TL12DN4DXL EAN: 4058352256954	LP number 58689_11
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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	23.8	25.3	24.2	25.6	25.9	23.3	24.7	23.6	25.1	25.4
	3H	24.5	25.8	24.9	26.2	26.5	23.8	25.2	24.2	25.5	25.9
	4H	24.8	26.0	25.2	26.4	26.8	24.1	25.3	24.5	25.7	26.1
	6H	25.0	26.2	25.4	26.5	26.9	24.3	25.4	24.7	25.8	26.2
	8H	25.2	26.2	25.6	26.6	27.0	24.4	25.5	24.9	25.8	26.3
	12H	25.2	26.2	25.6	26.5	27.0	24.5	25.4	24.9	25.8	26.2
4H	2H	24.1	25.4	24.5	25.7	26.1	23.7	24.9	24.1	25.3	25.6
	3H	24.9	26.0	25.4	26.4	26.8	24.5	25.5	24.9	25.9	26.3
	4H	25.3	26.2	25.7	26.6	27.1	24.8	25.7	25.3	26.1	26.6
	6H	25.6	26.4	26.0	26.8	27.3	25.1	25.9	25.6	26.3	26.8
	8H	25.7	26.4	26.2	26.8	27.3	25.2	25.9	25.7	26.4	26.8
	12H	25.8	26.4	26.2	26.8	27.3	25.3	25.9	25.8	26.3	26.8
8H	4H	25.4	26.1	25.9	26.5	27.0	24.9	25.7	25.4	26.1	26.6
	6H	25.7	26.3	26.2	26.8	27.3	25.3	25.9	25.8	26.4	26.9
	8H	25.8	26.4	26.3	26.8	27.4	25.4	25.9	25.9	26.4	26.9
	12H	25.9	26.4	26.4	26.9	27.4	25.5	25.9	26.0	26.4	27.0
12H	4H	25.4	26.0	25.9	26.5	27.0	25.0	25.6	25.4	26.0	26.5
	6H	25.7	26.2	26.2	26.7	27.2	25.3	25.8	25.8	26.3	26.8
	8H	25.9	26.3	26.4	26.8	27.3	25.5	25.9	26.0	26.4	26.9

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

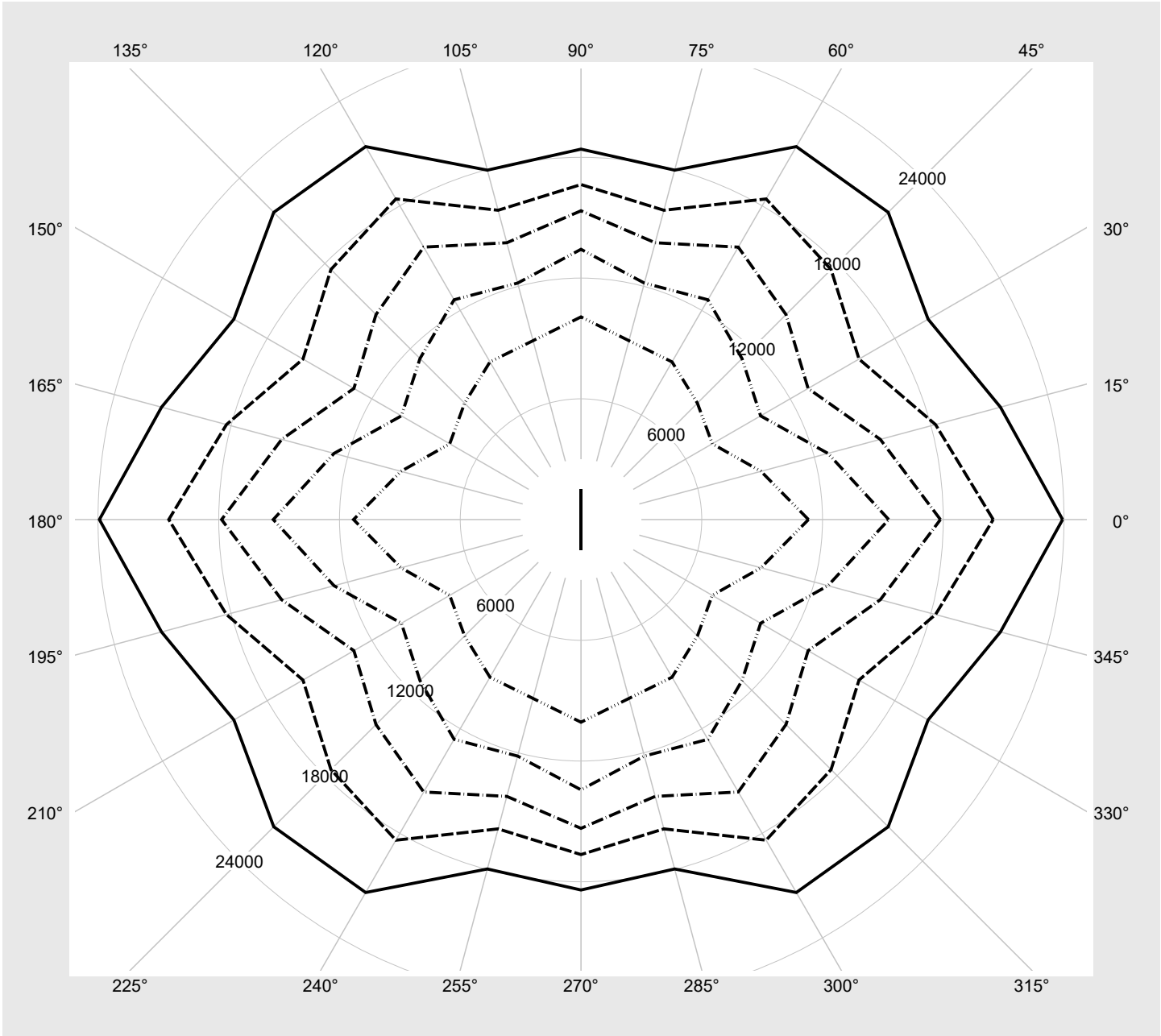
C-planes	γ	Luminance in cd/m ²						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°	45°	45160.0	43106.6	48616.1	48701.3	42858.7	42300.8	43749.9
50°	50°	40046.7	37250.6	41197.4	41060.9	34778.5	33312.4	34403.6
55°	55°	34733.7	31667.4	32918.7	33625.7	29118.8	26319.8	26833.6
60°	60°	28890.8	26262.1	25470.7	26950.0	24844.0	21221.1	21535.5
65°	65°	23930.7	21577.7	19915.6	21590.4	21399.8	17975.9	18407.6
70°	70°	20483.6	18237.5	15951.3	17572.6	18397.5	15912.9	16648.1
75°	75°	17859.3	15396.9	13030.5	14406.2	15631.9	14241.1	15343.8
80°	80°	15291.2	12703.6	10305.4	11314.8	12611.6	12166.7	13429.1
85°	85°	11303.5	9259.8	7531.6	8179.7	9047.2	9203.2	10070.8

Photometric test report

Family Licross® Recessed	Order number: 51TL12DN4DXL EAN: 4058352256954	LP number 58689_11
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Luminance values in cd/m²

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°



Photometric test report

Family Licross® Recessed	Order number: 51TL12DN4DXL EAN: 4058352256954	LP number 58689_11
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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	13000	76.0
95	240	252	12355	71.9
90	227	250	11706	67.7
85	213	248	11055	63.7
80	200	245	10405	59.8
75	187	243	9755	55.8
70	173	240	9104	52.1
65	160	237	8454	48.2
60	148	234	7803	44.4
55	135	231	7154	40.7
50	122	227	6503	37.1
45	110	224	5852	33.5
40	97	219	5203	30.0
35	85	214	4552	26.4
30	73	208	3902	23.0
25	61	202	3252	19.5
20	49	193	2601	16.1
15	37	183	1951	12.7
10	25	169	1300	9.4
5	13	143	650	6.1