

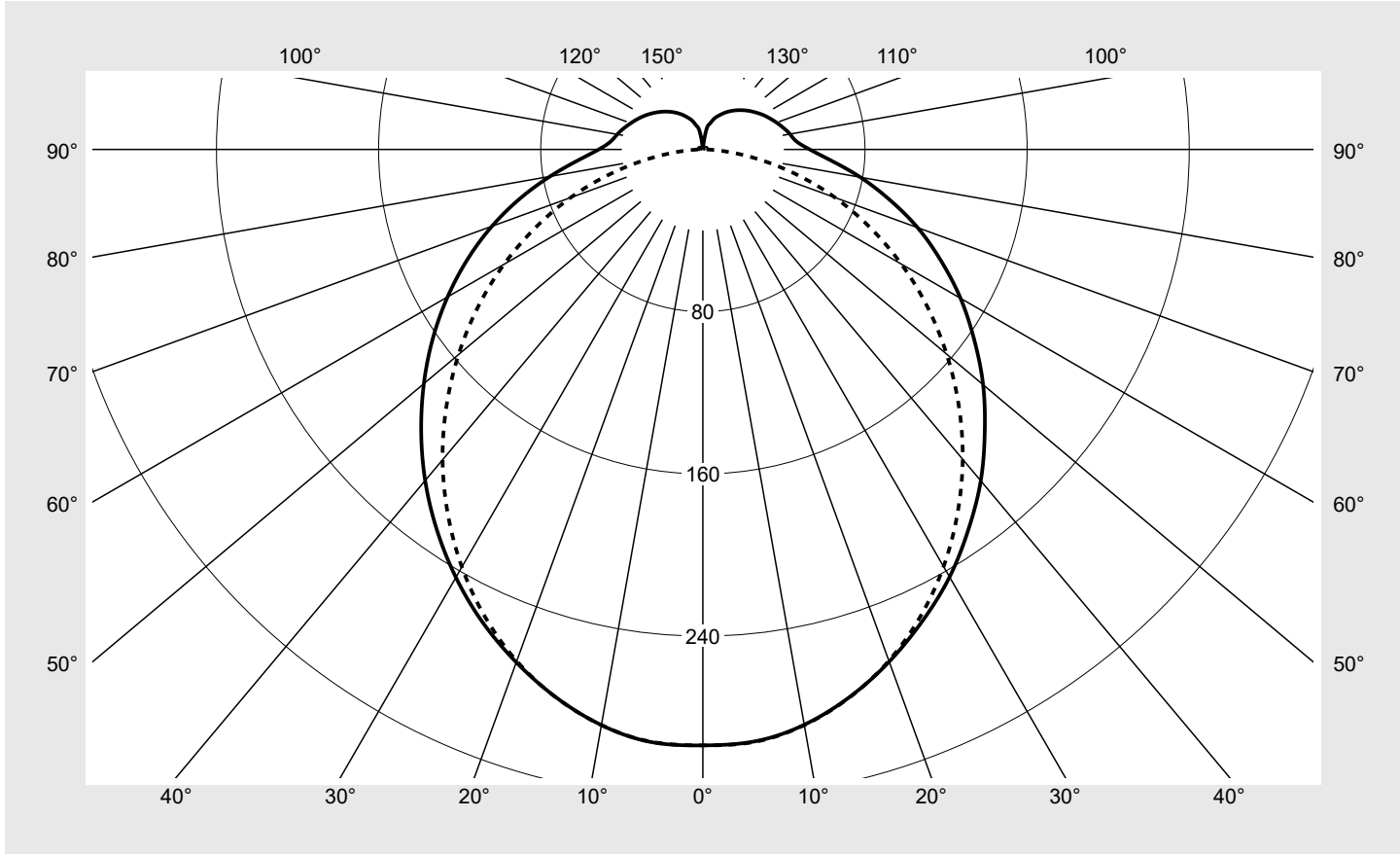


Photometric test report

Family Licross® 11 Recessed	Order number: 51TL1DDN445G EAN: 4058352049778	LP number 59520_131
	Version cover, opal, direct-/ indirect distribution, diffuse Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 4500 lm Power consumption = 25.2 W Luminous efficacy = 178.6 lm/W	serial documentation 18.01.2024
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 294 cd/klm**



Classifications	
DIN 5040	B 3 1
CIE	N1=44 N2=73 N3=91 N4=87 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	87.4%
ϕ_o	12.6%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Licross® 11 Recessed	Order number: 51TL1DDN445G EAN: 4058352049778	LP number 59520_131
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Table of values for luminous intensities Maximum luminous intensity

C-planes	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°
γ	Luminous intensity in cd/klm												
0°	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9
5°	293.1	292.7	289.9	291.0	293.1	293.0	293.3	293.1	293.1	292.5	291.2	291.6	293.4
10°	288.1	287.8	285.0	286.0	288.1	287.9	288.3	288.0	288.0	287.5	286.2	286.7	288.3
15°	279.6	279.4	276.6	277.6	279.6	279.4	279.8	279.5	279.5	279.0	277.7	278.4	279.8
20°	268.8	268.4	265.5	266.2	268.1	267.8	268.3	268.1	268.0	267.5	266.6	267.8	269.2
25°	256.5	256.4	252.9	252.4	253.9	253.4	254.1	253.8	253.8	253.6	254.0	255.9	257.2
30°	243.5	242.9	239.1	237.4	237.4	236.9	237.6	237.4	237.5	238.5	240.0	242.5	243.7
35°	228.6	228.2	223.9	221.1	219.2	218.5	219.1	218.9	219.7	221.9	224.6	227.5	228.9
40°	213.3	212.5	208.1	204.0	200.4	198.8	199.5	199.5	201.1	204.3	208.6	211.7	213.2
45°	196.7	195.9	191.2	185.9	180.8	177.8	178.6	178.3	181.6	186.0	191.4	194.8	196.6
50°	180.5	179.0	174.4	167.8	161.5	156.5	157.0	156.9	161.7	167.6	173.9	177.7	179.7
55°	163.4	162.0	157.2	149.2	141.7	135.1	135.2	135.5	141.8	149.1	156.1	160.5	162.7
60°	146.8	144.8	139.8	131.0	122.1	114.1	113.1	114.2	121.9	130.6	138.3	143.3	145.4
65°	129.6	127.7	122.3	112.9	103.0	93.4	91.0	93.7	102.6	112.1	120.5	126.2	128.1
70°	112.8	110.6	104.4	95.0	83.9	73.2	69.4	73.2	83.4	93.6	102.3	109.1	110.8
75°	95.2	93.5	86.3	76.8	64.8	53.0	48.0	53.1	64.1	74.9	84.3	91.4	93.3
80°	78.9	76.8	69.4	59.0	47.0	34.5	28.0	34.2	45.8	57.3	67.7	74.1	76.6
85°	63.7	61.7	54.7	44.0	31.4	18.8	11.3	18.6	30.6	42.7	52.6	59.2	61.9
90°	52.7	50.3	47.2	33.6	21.8	9.7	1.7	9.7	21.3	32.8	42.6	49.1	51.4
95°	46.3	44.0	38.4	29.9	19.4	8.9	1.8	8.9	19.3	29.6	38.3	43.8	45.6
100°	43.6	41.6	36.5	28.4	19.0	9.0	2.1	8.7	18.6	27.9	35.8	41.3	42.9
105°	41.1	39.4	34.3	27.0	18.2	9.1	2.1	8.8	17.9	26.7	33.7	38.6	40.4
110°	38.7	36.7	32.3	25.7	17.6	9.2	2.0	8.7	17.0	25.1	31.7	36.0	37.9
115°	36.4	34.4	30.4	24.3	17.0	9.3	1.9	8.8	16.4	23.6	29.8	33.7	35.5
120°	34.1	32.2	28.7	23.1	16.5	9.4	1.8	8.8	15.7	22.3	27.9	31.4	33.2
125°	31.8	30.1	26.8	21.8	15.8	9.4	1.6	8.8	15.0	21.0	26.0	29.2	30.9
130°	29.6	27.9	25.1	20.7	15.3	9.5	1.4	8.7	14.3	19.7	24.1	27.1	28.6
135°	27.4	25.8	23.3	19.5	14.6	8.1	1.3	7.6	13.7	18.5	22.3	24.9	26.4
140°	25.2	23.7	21.6	18.3	13.6	7.0	1.3	6.4	12.7	17.1	20.5	22.8	24.2
145°	23.0	21.6	19.8	16.6	12.1	6.4	1.2	5.9	11.1	15.6	18.8	20.7	21.9
150°	20.7	19.6	18.1	14.3	11.0	6.2	1.3	6.0	9.5	13.3	16.9	18.6	19.6
155°	18.4	17.4	15.6	12.5	8.2	5.5	1.3	5.2	7.5	11.1	14.5	16.4	17.3
160°	16.1	15.3	12.6	10.0	7.9	5.1	1.4	4.6	6.8	7.9	11.7	14.3	14.9
165°	13.1	12.1	8.6	7.8	8.1	5.4	1.4	4.8	6.9	7.0	6.9	11.2	12.1
170°	9.8	7.7	7.3	8.0	6.5	2.9	1.4	2.2	5.4	6.7	6.3	6.6	8.9
175°	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0

Photometric test report

Family Licross® 11 Recessed	Order number: 51TL1DDN445G EAN: 4058352049778	LP number 59520_131
Table of values for luminous intensities		Maximum luminous intensity
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C-planes	195°	210°	225°	240°	255°	270°	285°	300°	315°	330°	345°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm											Luminous flux in lm/klm	
0°	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	1.8	1.8
5°	292.9	289.8	290.9	292.8	292.8	293.2	292.8	292.9	292.3	291.2	292.0	14.0	15.7
10°	288.0	285.0	285.8	287.9	287.8	288.3	287.9	288.0	287.3	286.3	287.0	27.3	43.1
15°	279.5	276.7	277.5	279.4	279.4	279.9	279.5	279.5	278.9	277.9	279.0	39.6	82.6
20°	268.9	265.7	266.2	268.0	267.9	268.5	268.2	268.1	267.5	266.6	267.7	50.2	132.8
25°	256.9	253.4	252.5	253.8	253.6	254.3	254.0	254.0	253.5	253.8	256.1	58.9	191.7
30°	243.4	239.6	237.7	237.4	237.1	237.8	237.6	237.8	238.3	239.7	242.3	65.6	257.3
35°	228.5	224.4	221.4	219.4	218.7	219.4	219.3	219.8	221.8	224.6	228.0	70.0	327.3
40°	212.7	208.2	204.2	200.7	198.9	199.8	199.8	201.1	204.3	208.6	211.9	72.3	399.6
45°	195.8	191.1	185.9	181.0	177.8	178.9	178.7	181.7	186.2	191.6	195.6	72.3	472.0
50°	178.6	174.0	167.6	161.4	156.5	157.3	157.3	162.0	168.0	174.3	178.3	70.5	542.5
55°	161.2	156.5	148.8	141.5	135.3	135.5	135.8	142.2	149.7	156.9	161.8	66.9	609.4
60°	143.7	138.7	130.1	121.6	114.2	113.3	114.6	122.5	131.3	139.3	144.4	61.7	671.1
65°	126.5	121.0	111.8	102.3	93.3	91.1	94.0	103.2	113.1	121.8	128.0	55.2	726.3
70°	109.1	102.8	93.5	83.0	72.9	69.4	73.6	84.1	94.6	103.5	110.4	47.6	773.9
75°	91.6	84.7	75.4	63.7	52.5	47.9	53.5	65.0	76.2	85.9	93.4	39.0	812.9
80°	74.9	67.7	57.5	45.8	33.9	27.9	34.5	46.6	58.5	69.1	75.6	30.2	843.1
85°	59.9	53.1	42.6	30.4	18.3	11.1	18.9	31.3	43.7	53.8	61.1	22.2	865.3
90°	49.1	42.6	32.8	21.3	9.6	1.7	9.7	21.6	33.2	43.3	50.0	16.9	882.1
95°	43.4	38.0	29.6	19.2	8.8	1.8	8.9	19.4	29.7	38.6	44.5	14.9	897.1
100°	41.0	35.9	27.9	18.7	8.8	2.1	8.9	18.7	28.1	36.1	41.8	14.0	911.1
105°	38.7	33.7	26.5	17.8	8.7	2.1	9.0	18.1	27.0	34.2	39.3	13.1	924.2
110°	35.9	31.6	25.0	17.1	8.8	2.0	9.1	17.4	25.5	32.1	36.6	12.0	936.2
115°	33.6	29.7	23.6	16.4	8.7	1.9	9.3	16.9	24.2	30.4	34.4	11.0	947.2
120°	31.4	27.9	22.4	15.7	8.8	1.8	9.3	16.2	22.9	28.6	32.2	9.9	957.1
125°	29.2	26.0	21.1	15.0	8.7	1.6	9.4	15.7	21.7	26.8	30.1	8.9	966.0
130°	27.0	24.2	19.8	14.4	8.7	1.4	9.4	15.1	20.5	24.9	27.8	7.8	973.7
135°	24.9	22.4	18.6	13.7	7.3	1.3	8.2	14.6	19.3	23.2	25.8	6.7	980.4
140°	22.7	20.6	17.3	12.7	6.4	1.3	7.0	13.5	18.0	21.5	23.6	5.6	986.0
145°	20.6	18.9	15.7	11.3	5.8	1.2	6.5	12.0	15.8	19.8	21.6	4.5	990.5
150°	18.5	17.0	13.4	10.2	6.1	1.3	6.3	10.3	14.2	17.9	19.5	3.5	994.0
155°	16.4	14.6	11.8	7.5	4.9	1.3	5.8	8.1	12.0	15.5	17.4	2.6	996.6
160°	14.2	11.8	9.1	7.1	4.6	1.4	5.2	7.3	8.7	12.7	15.3	1.8	998.3
165°	11.1	8.0	7.1	7.6	4.8	1.4	5.5	7.3	7.6	7.6	12.0	1.1	999.4
170°	6.9	7.3	7.0	5.8	2.1	1.4	3.1	6.1	7.5	6.2	7.2	0.6	1000.0
175°	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	1000.0

Photometric test report

Family Licross® 11 Recessed	Order number: 51TL1DDN445G EAN: 4058352049778	LP number 59520_131
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UGR-Table		Standard room									
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	19.0	20.6	19.5	21.0	21.5	18.6	20.2	19.1	20.7	21.2
	3H	20.9	22.4	21.4	22.8	23.3	20.2	21.7	20.7	22.1	22.6
	4H	21.7	23.0	22.2	23.5	24.1	20.7	22.0	21.2	22.6	23.1
	6H	22.5	23.7	23.0	24.2	24.8	21.1	22.3	21.6	22.8	23.4
	8H	22.9	24.0	23.5	24.6	25.2	21.2	22.4	21.8	22.9	23.5
	12H	23.2	24.3	23.8	24.8	25.5	21.3	22.3	21.8	22.9	23.5
4H	2H	19.7	21.0	20.2	21.5	22.1	19.3	20.7	19.9	21.2	21.7
	3H	21.7	22.8	22.3	23.4	24.0	21.0	22.2	21.6	22.7	23.3
	4H	22.7	23.8	23.3	24.3	25.0	21.7	22.8	22.3	23.3	24.0
	6H	23.7	24.5	24.3	25.1	25.8	22.2	23.1	22.8	23.7	24.4
	8H	24.1	25.0	24.8	25.6	26.3	22.4	23.2	23.0	23.8	24.5
	12H	24.5	25.3	25.2	25.9	26.6	22.5	23.2	23.1	23.8	24.6
8H	4H	23.0	23.9	23.6	24.5	25.2	22.1	22.9	22.8	23.6	24.3
	6H	24.2	24.9	24.8	25.5	26.2	22.8	23.5	23.5	24.1	24.9
	8H	24.8	25.4	25.4	26.0	26.8	23.1	23.7	23.7	24.3	25.1
	12H	25.3	25.8	26.0	26.5	27.3	23.2	23.7	23.9	24.4	25.2
12H	4H	23.0	23.8	23.6	24.4	25.1	22.2	22.9	22.8	23.5	24.3
	6H	24.2	24.8	24.9	25.5	26.2	22.9	23.5	23.6	24.2	24.9
	8H	24.9	25.4	25.5	26.1	26.8	23.2	23.8	23.9	24.4	25.2

Luminance table		Max. for $\gamma \geq 65^\circ$										Photometric dimensions in mm:		L = 1500	H(C0) = 25	H(C180) = 25
												B = 76	H(C90) = 25	H(C270) = 25		
C-planes	γ	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°	330°			
		Luminance in cd/m ²														
45°		8263.6	8254.1	8563.3	9805.3	8597.8	8261.1	8256.8	8250.6	8571.0	9823.1	8601.7	8271.6			
50°		7963.7	7934.8	8173.6	9454.9	8186.0	7912.7	7927.9	7916.4	8169.5	9474.4	8198.3	7931.1			
55°		7652.0	7624.6	7767.7	9089.9	7772.1	7573.5	7617.8	7589.2	7758.8	9106.3	7794.3	7612.8			
60°		7383.6	7317.7	7359.1	8679.0	7349.4	7241.3	7314.3	7262.5	7329.8	8691.4	7383.5	7292.2			
65°		7095.4	7011.1	6951.5	8205.3	6924.1	6908.9	7015.5	6941.4	6902.3	8212.6	6967.9	6983.3			
70°		6837.3	6670.5	6495.1	7662.9	6451.2	6535.8	6714.5	6572.1	6419.9	7662.9	6507.6	6618.7			
75°		6517.9	6284.0	5930.0	6890.6	5861.1	6142.3	6390.3	6165.9	5828.5	6880.1	5942.6	6254.5			
80°		6260.3	5927.5	5303.3	5807.2	5172.6	5782.3	6073.9	5775.4	5167.1	5785.2	5261.2	5899.8			
85°		6057.2	5689.0	4667.5	4287.5	4551.8	5474.0	5886.9	5522.9	4514.5	4238.4	4655.5	5603.8			

Photometric test report

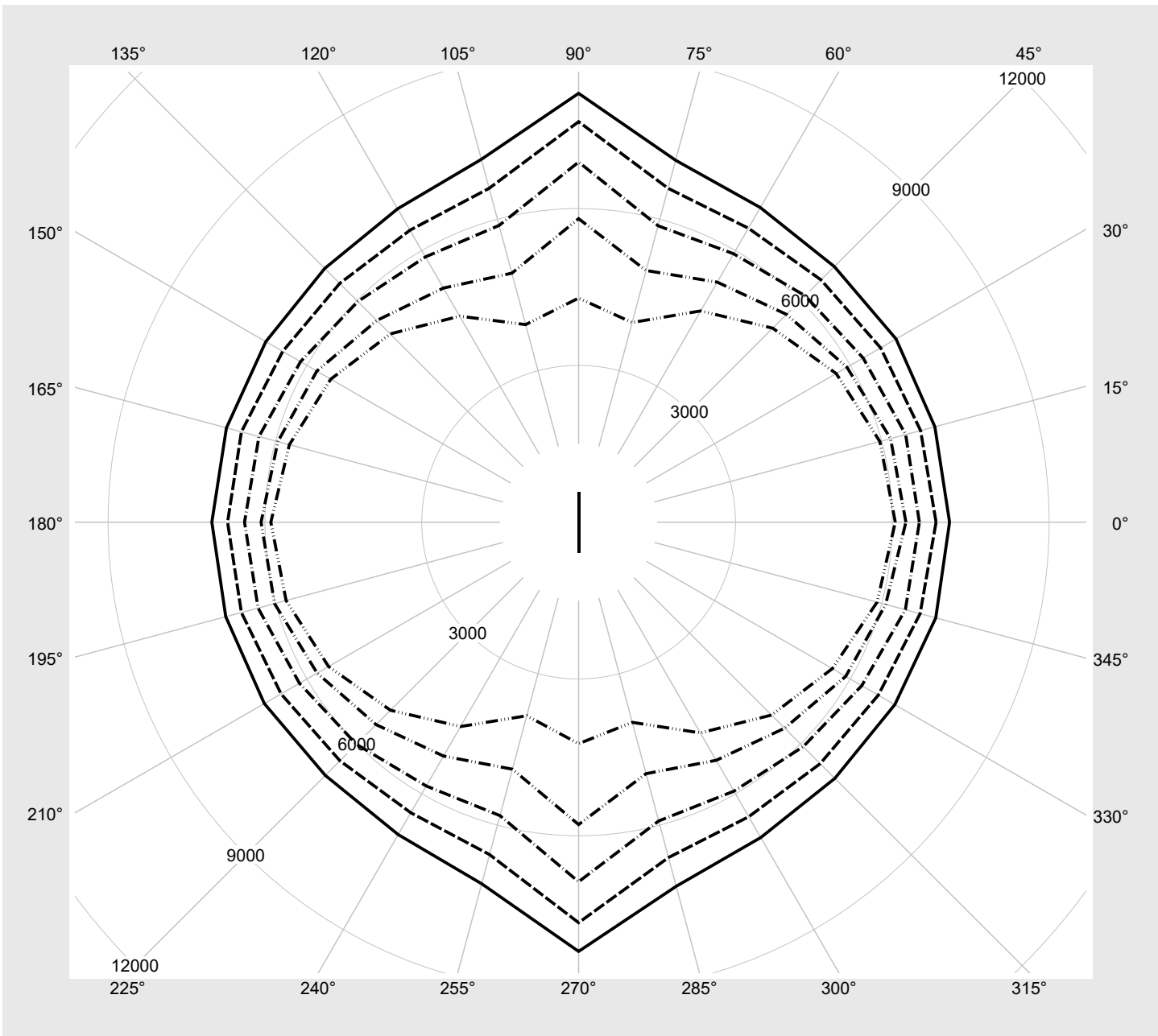
Family
Licross® 11 Recessed

Order number: 51TL1DDN445G
EAN: 4058352049778

LP number
59520_131

Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



Photometric test report

Family Licross® 11 Recessed	Order number: 51TL1DDN445G EAN: 4058352049778	LP number 59520_131
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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	4500	25.2
95	241	252	4278	24.0
90	228	250	4053	22.8
85	215	248	3829	21.5
80	202	246	3605	20.4
75	189	243	3380	19.2
70	176	241	3154	17.9
65	163	238	2926	16.7
60	150	235	2698	15.3
55	137	231	2466	14.1
50	125	228	2254	12.9
45	112	224	2023	11.6
40	99	219	1792	10.4
35	87	215	1577	9.3
30	74	209	1343	8.1
25	62	202	1127	6.9
20	50	194	909	5.8
15	37	183	670	4.4
12	30	176	542	3.7