
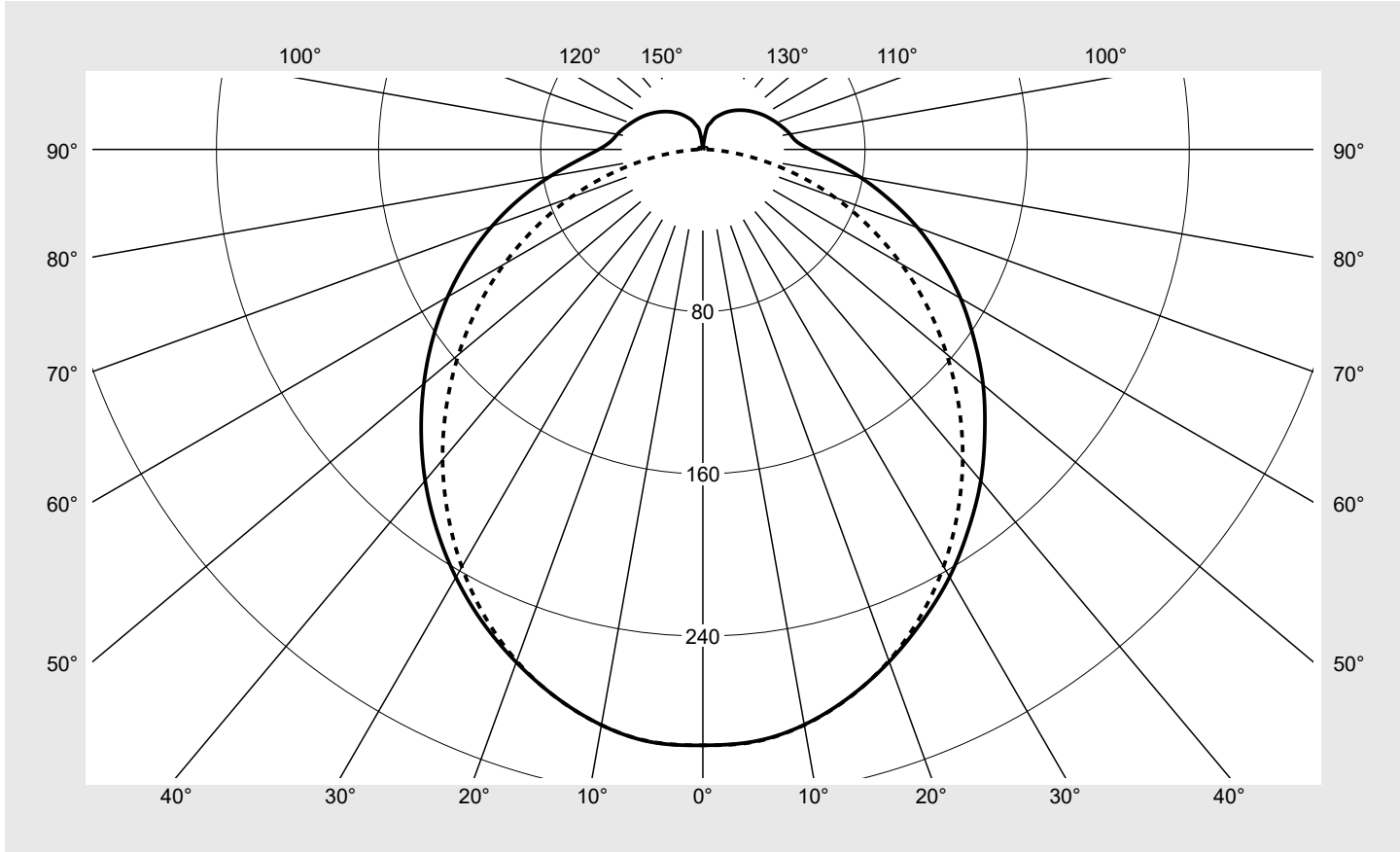


Photometric test report

Family Licross® 11 Recessed	Order number: 51TL1D7N46XG EAN: 4058352055175	LP number 59520_248
	Version cover, opal, direct-/ indirect distribution, diffuse Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Rated values Net luminous flux = 6300 lm Power consumption = 35.1 W Luminous efficacy = 179.5 lm/W	serial documentation 19.01.2024
		

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: 51TL1D7N46XG EAN: 4058352055175	LP number 59520_248
Table of values for luminous intensities		Maximum luminous intensity
		siteco

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: 51TL1D7N46XG EAN: 4058352055175	LP number 59520_248
Table of values for luminous intensities		Maximum luminous intensity
		siteco

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: 51TL1D7N46XG EAN: 4058352055175	LP number 59520_248
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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	20.2	21.7	20.6	22.2	22.7	19.8	21.4	20.3	21.8	22.3
	3H	22.1	23.5	22.6	24.0	24.5	21.4	22.8	21.9	23.3	23.8
	4H	22.9	24.2	23.4	24.7	25.3	21.9	23.2	22.4	23.7	24.3
	6H	23.7	24.9	24.2	25.4	26.0	22.3	23.5	22.8	24.0	24.6
	8H	24.1	25.2	24.6	25.8	26.4	22.4	23.6	22.9	24.1	24.7
	12H	24.4	25.4	25.0	26.0	26.7	22.4	23.5	23.0	24.1	24.7
4H	2H	20.8	22.2	21.3	22.7	23.2	20.5	21.8	21.0	22.3	22.9
	3H	22.9	24.0	23.4	24.6	25.2	22.2	23.3	22.8	23.9	24.5
	4H	23.9	24.9	24.5	25.5	26.1	22.9	23.9	23.5	24.5	25.1
	6H	24.8	25.7	25.4	26.3	27.0	23.4	24.3	24.0	24.9	25.5
	8H	25.3	26.1	25.9	26.7	27.4	23.6	24.4	24.2	25.0	25.7
	12H	25.7	26.4	26.4	27.1	27.8	23.6	24.4	24.3	25.0	25.7
8H	4H	24.2	25.0	24.8	25.6	26.3	23.3	24.1	23.9	24.7	25.4
	6H	25.4	26.0	26.0	26.7	27.4	24.0	24.7	24.6	25.3	26.0
	8H	25.9	26.5	26.6	27.2	27.9	24.2	24.9	24.9	25.5	26.2
	12H	26.5	27.0	27.2	27.7	28.4	24.4	24.9	25.0	25.6	26.3
12H	4H	24.2	24.9	24.8	25.6	26.3	23.3	24.1	24.0	24.7	25.4
	6H	25.4	26.0	26.0	26.7	27.4	24.1	24.7	24.8	25.4	26.1
	8H	26.0	26.6	26.7	27.2	28.0	24.4	24.9	25.1	25.6	26.4

C-planes	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°	330°	Photometric dimensions in mm:				
													L = 1500	H(C0) = 25			
Luminescence table													B = 76	H(C90) = 25	H(C180) = 25	H(C270) = 25	
Max. for $\gamma \geq 65^\circ$																	
Luminance in cd/m ²																	
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°								
45°	11569.0	11555.8	11988.7	13727.4	12037.0	11565.6	11559.5	11550.9	11999.4	13752.3	12042.3	11580.2					
50°	11149.2	11108.7	11443.0	13236.8	11460.3	11077.7	11099.1	11082.9	11437.3	13264.2	11477.6	11103.5					
55°	10712.7	10674.4	10874.8	12725.9	10881.0	10602.9	10665.0	10624.9	10862.3	12748.8	10912.1	10657.9					
60°	10337.0	10244.8	10302.8	12150.5	10289.1	10137.8	10240.1	10167.5	10261.8	12167.9	10337.0	10209.1					
65°	9933.6	9815.6	9732.0	11487.4	9693.8	9672.5	9821.8	9718.0	9663.2	11497.6	9755.0	9776.6					
70°	9572.2	9338.7	9093.1	10728.1	9031.7	9150.2	9400.3	9200.9	8987.8	10728.1	9110.6	9266.2					
75°	9125.0	8797.5	8301.9	9646.8	8205.5	8599.2	8946.5	8632.3	8159.8	9632.1	8319.6	8756.2					
80°	8764.4	8298.5	7424.7	8130.1	7241.6	8095.2	8503.4	8085.5	7234.0	8099.2	7365.7	8259.8					
85°	8480.1	7964.6	6534.6	6002.5	6372.6	7663.5	8241.7	7732.0	6320.3	5933.8	6517.7	7845.3					

Photometric test report

Family Licross® 11 Recessed	Order number: 51TL1D7N46XG EAN: 4058352055175	LP number 59520_248
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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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