



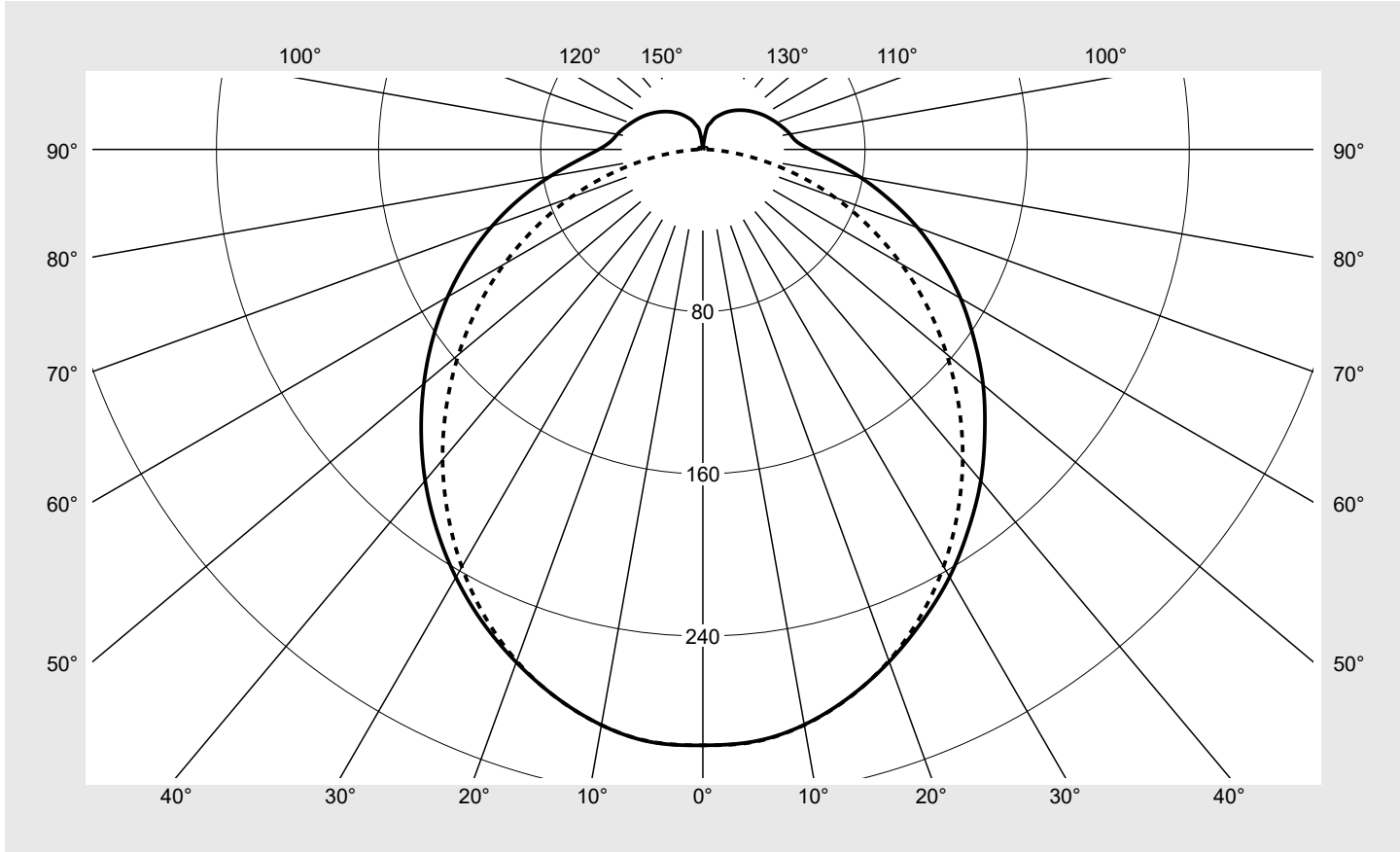
Photometric test report

Family Licross® 21 Opal	Order number: 52TE1D7N48XG EAN: 4058352055298	LP number 59520_265
	Version cover, opal, direct-/ indirect distribution, diffuse Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Rated values Net luminous flux = 8360 lm Power consumption = 47.9 W Luminous efficacy = 174.5 lm/W	serial documentation 09.02.2024





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

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Table of values for luminous intensities	Maximum luminous intensity	siteco
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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® 21 Opal	Order number: 52TE1D7N48XG EAN: 4058352055298	LP number 59520_265
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® 21 Opal	Order number: 52TE1D7N48XG EAN: 4058352055298	LP number 59520_265
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UGR-Table		Standard room									
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	21.1	22.7	21.6	23.2	23.7	20.8	22.4	21.3	22.8	23.3
	3H	23.1	24.5	23.6	25.0	25.5	22.4	23.8	22.8	24.3	24.8
	4H	23.9	25.2	24.4	25.7	26.3	22.9	24.2	23.4	24.7	25.3
	6H	24.6	25.8	25.2	26.4	27.0	23.2	24.5	23.8	25.0	25.6
	8H	25.0	26.2	25.6	26.7	27.4	23.4	24.6	23.9	25.1	25.7
	12H	25.4	26.4	25.9	27.0	27.6	23.4	24.5	24.0	25.1	25.7
4H	2H	21.8	23.1	22.3	23.6	24.2	21.5	22.8	22.0	23.3	23.9
	3H	23.9	25.0	24.4	25.5	26.2	23.2	24.3	23.7	24.9	25.5
	4H	24.9	25.9	25.5	26.5	27.1	23.9	24.9	24.5	25.5	26.1
	6H	25.8	26.7	26.4	27.3	28.0	24.4	25.3	25.0	25.9	26.5
	8H	26.3	27.1	26.9	27.7	28.4	24.6	25.4	25.2	26.0	26.7
	12H	26.7	27.4	27.3	28.0	28.8	24.6	25.4	25.2	26.0	26.7
8H	4H	25.2	26.0	25.8	26.6	27.3	24.3	25.1	24.9	25.7	26.4
	6H	26.3	27.0	27.0	27.7	28.4	25.0	25.7	25.6	26.3	27.0
	8H	26.9	27.5	27.6	28.2	28.9	25.2	25.8	25.9	26.5	27.2
	12H	27.5	28.0	28.1	28.7	29.4	25.4	25.9	26.0	26.6	27.3
12H	4H	25.2	25.9	25.8	26.5	27.3	24.3	25.0	25.0	25.7	26.4
	6H	26.4	27.0	27.0	27.6	28.4	25.1	25.7	25.8	26.3	27.1
	8H	27.0	27.5	27.7	28.2	29.0	25.4	25.9	26.1	26.6	27.4

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°		15351.9	15334.3	15908.7	18216.0	15972.9	15347.3	15339.2	15327.8	15923.0	18249.1	15980.0	15366.8
50°		14794.8	14741.1	15184.7	17565.1	15207.7	14700.0	14728.4	14706.8	15177.1	17601.3	15230.5	14734.2
55°		14215.6	14164.8	14430.6	16887.1	14438.9	14069.9	14152.2	14099.1	14414.1	16917.4	14480.1	14142.9
60°		13717.1	13594.6	13671.6	16123.6	13653.5	13452.7	13588.4	13492.1	13617.2	16146.7	13717.0	13547.3
65°		13181.8	13025.2	12914.3	15243.5	12863.5	12835.2	13033.3	12895.6	12822.8	15257.1	12944.7	12973.4
70°		12702.2	12392.3	12066.4	14236.0	11984.9	12142.1	12474.1	12209.4	11926.7	14236.0	12089.7	12296.1
75°		12108.8	11674.2	11016.6	12801.2	10888.6	11411.1	11871.8	11454.9	10828.0	12781.7	11040.0	11619.4
80°		11630.2	11012.0	9852.4	10788.5	9609.4	10742.2	11283.9	10729.4	9599.4	10747.6	9774.2	10960.6
85°		11253.0	10568.9	8671.3	7965.3	8456.3	10169.4	10936.6	10260.3	8386.9	7874.1	8648.9	10410.5

Photometric test report

Family
Licross® 21 Opal

Order number: 52TE1D7N48XG
EAN: 4058352055298

LP number
59520_265

Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

