

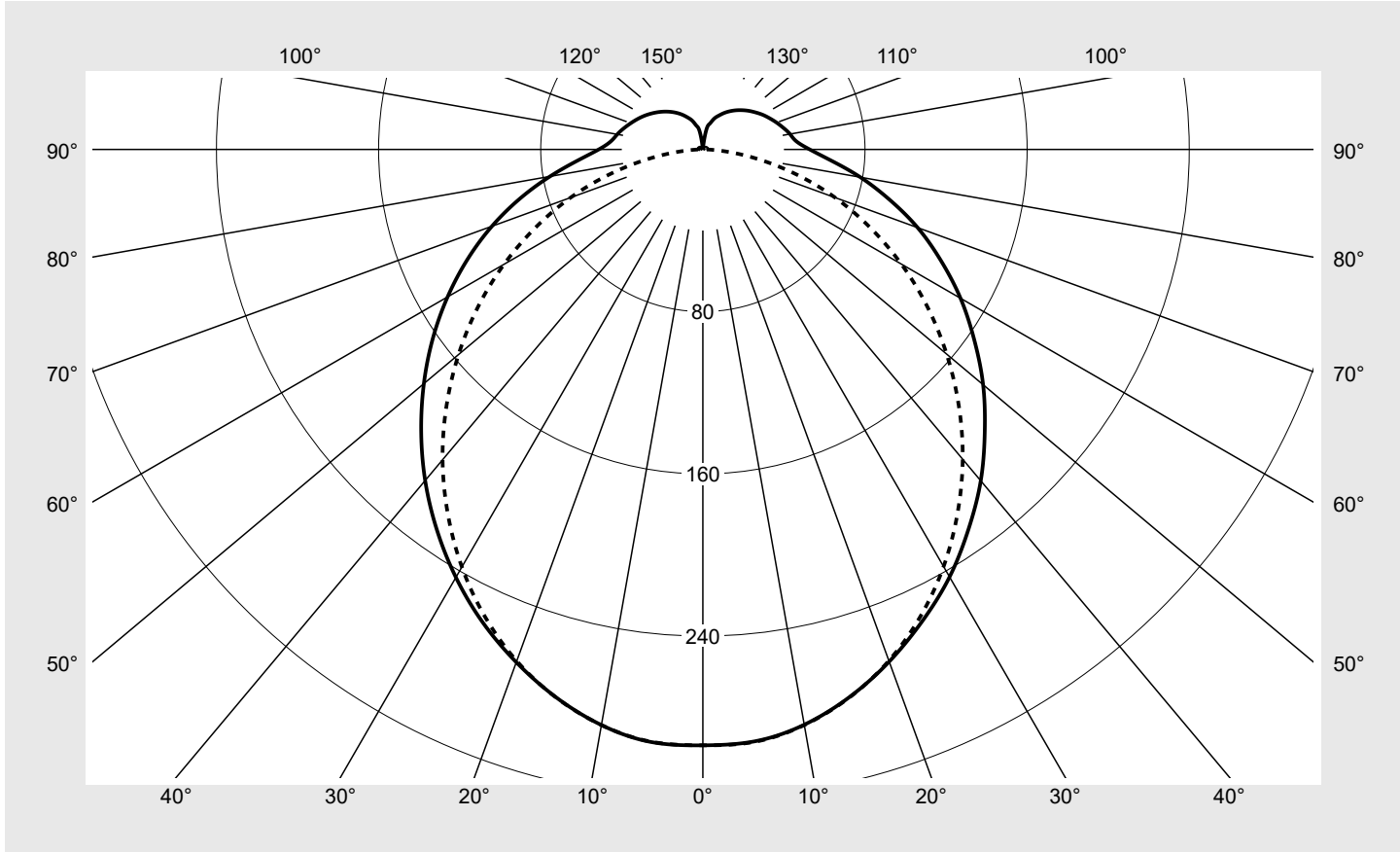


Photometric test report

Family Licross® 21 Opal	Order number: 52TE1DVN465G EAN: 4058352052051	LP number 59520_15
	Version cover, opal, direct-/ indirect distribution, diffuse Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI CLO	serial documentation 29.01.2024
	Rated values Net luminous flux = 6500 lm Power consumption = 37.7 W Luminous efficacy = 172.4 lm/W	

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® 21 Opal	Order number: 52TE1DVN465G EAN: 4058352052051	LP number 59520_15
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® 21 Opal	Order number: 52TE1DVN465G EAN: 4058352052051	LP number 59520_15
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® 21 Opal	Order number: 52TE1DVN465G EAN: 4058352052051	LP number 59520_15
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UGR-Table	Standard room	siteco
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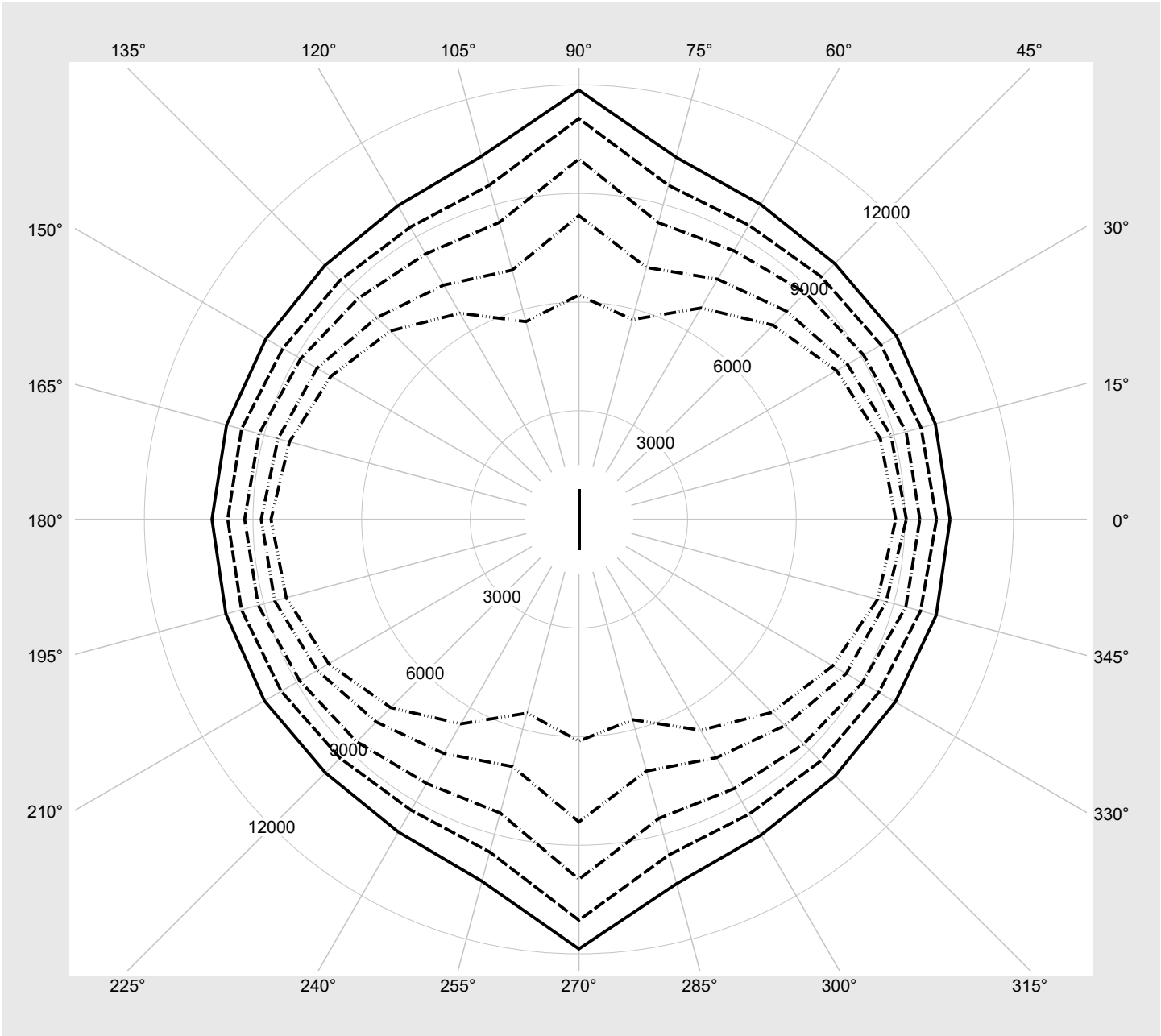
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	View crosswise (C0)					View endwise (C90)					
x	y										
2H	2H	20.3	21.8	20.7	22.3	22.8	19.9	21.5	20.4	21.9	22.4
	3H	22.2	23.6	22.7	24.1	24.6	21.5	22.9	22.0	23.4	23.9
	4H	23.0	24.3	23.5	24.8	25.4	22.0	23.3	22.5	23.8	24.4
	6H	23.8	25.0	24.3	25.5	26.1	22.4	23.6	22.9	24.1	24.7
	8H	24.2	25.3	24.7	25.9	26.5	22.5	23.7	23.1	24.2	24.8
	12H	24.5	25.5	25.1	26.1	26.8	22.5	23.6	23.1	24.2	24.8
4H	2H	20.9	22.3	21.5	22.8	23.3	20.6	21.9	21.1	22.4	23.0
	3H	23.0	24.1	23.5	24.7	25.3	22.3	23.4	22.9	24.0	24.6
	4H	24.0	25.0	24.6	25.6	26.2	23.0	24.0	23.6	24.6	25.2
	6H	24.9	25.8	25.5	26.4	27.1	23.5	24.4	24.1	25.0	25.7
	8H	25.4	26.2	26.0	26.8	27.5	23.7	24.5	24.3	25.1	25.8
	12H	25.8	26.5	26.5	27.2	27.9	23.7	24.5	24.4	25.1	25.8
8H	4H	24.3	25.1	24.9	25.7	26.4	23.4	24.2	24.0	24.8	25.5
	6H	25.5	26.2	26.1	26.8	27.5	24.1	24.8	24.7	25.4	26.1
	8H	26.0	26.7	26.7	27.3	28.0	24.4	25.0	25.0	25.6	26.4
	12H	26.6	27.1	27.3	27.8	28.6	24.5	25.0	25.2	25.7	26.5
12H	4H	24.3	25.0	24.9	25.7	26.4	23.5	24.2	24.1	24.8	25.5
	6H	25.5	26.1	26.2	26.8	27.5	24.2	24.8	24.9	25.5	26.2
	8H	26.1	26.7	26.8	27.3	28.1	24.5	25.0	25.2	25.7	26.5

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	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°	330°
γ	Luminance in cd/m²											
45°	11936.3	11922.6	12369.2	14163.2	12419.1	11932.7	11926.4	11917.6	12380.3	14188.9	12424.6	11947.9
50°	11503.1	11461.4	11806.3	13657.1	11824.2	11429.4	11451.5	11434.7	11800.4	13685.2	11841.9	11456.0
55°	11052.8	11013.3	11220.0	13129.9	11226.4	10939.5	11003.5	10962.2	11207.2	13153.5	11258.5	10996.3
60°	10665.2	10570.0	10629.9	12536.3	10615.8	10459.6	10565.2	10490.3	10587.5	12554.2	10665.1	10533.2
65°	10249.0	10127.2	10041.0	11852.0	10001.5	9979.5	10133.6	10026.5	9969.9	11862.6	10064.7	10087.0
70°	9876.1	9635.2	9381.8	11068.7	9318.4	9440.6	9698.8	9493.0	9273.1	11068.7	9399.9	9560.4
75°	9414.7	9076.8	8565.5	9953.1	8466.0	8872.2	9230.5	8906.3	8418.9	9937.9	8583.7	9034.2
80°	9042.6	8561.9	7660.4	8388.2	7471.5	8352.2	8773.4	8342.2	7463.6	8356.4	7599.6	8522.0
85°	8749.4	8217.4	6742.0	6193.1	6574.9	7906.8	8503.3	7977.5	6520.9	6122.2	6724.6	8094.3

Photometric test report

Family Licross® 21 Opal	Order number: 52TE1DVN465G EAN: 4058352052051	LP number 59520_15
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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



Photometric test report

Family Licross® 21 Opal	Order number: 52TE1DVN465G EAN: 4058352052051	LP number 59520_15
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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] start of lifetime	Power consumption [W] end of lifetime	Power consumption [W] average
100	254	254	6500	37.7	44.7	41.2
95	241	252	6184	35.9	42.5	39.2
90	227	250	5841	33.8	40.1	37.0
85	214	248	5522	32.0	37.8	34.9
80	201	245	5199	30.1	35.6	32.8
75	188	243	4874	28.3	33.3	30.8
70	175	240	4549	26.5	31.2	28.8
65	162	238	4221	24.6	29.0	26.8
60	149	234	3891	22.8	26.8	24.8
55	137	231	3585	21.1	24.8	23.0
50	124	228	3250	19.3	22.6	21.0
45	111	224	2917	17.5	20.4	19.0
40	99	219	2604	15.8	18.5	17.2
35	86	214	2264	14.0	16.3	15.2
30	74	209	1952	12.3	14.3	13.3
25	62	202	1635	10.7	12.3	11.5
20	49	194	1293	8.9	10.1	9.5
15	37	183	974	7.1	8.1	7.6
10	25	169	654	5.5	6.2	5.8
5	13	145	335	3.8	4.1	4.0
2	6	117	145	2.9	3.1	3.0