



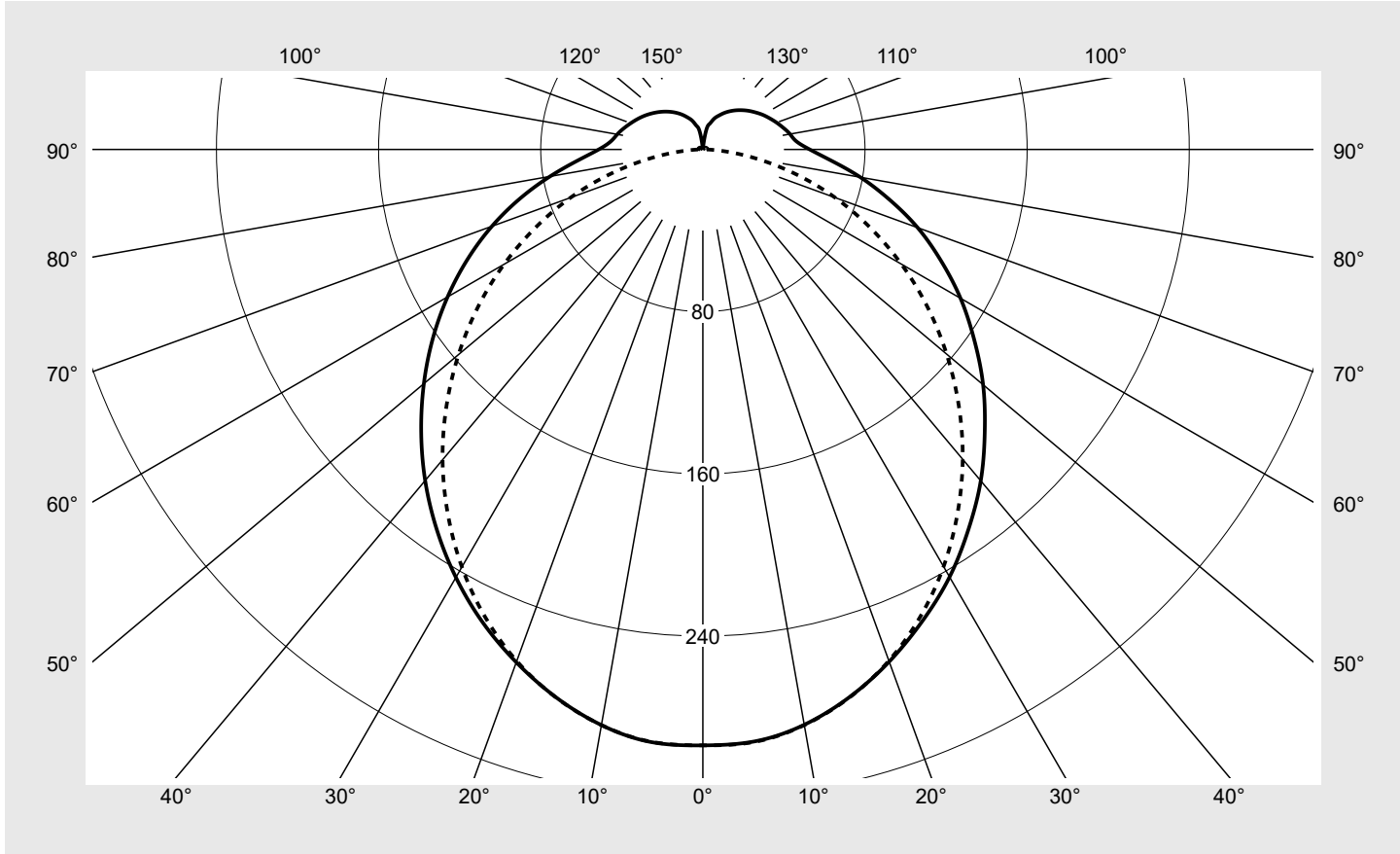
# Photometric test report

<b>Family</b> <b>Licross® 21 Opal</b>	<b>Order number: 52TE1DVN48XG</b> <b>EAN: 4069025071835</b>	<b>LP number</b> <b>59520_14</b>
	<b>Version</b> cover, opal, direct-/ indirect distribution, diffuse <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI CLO <b>Rated values</b> Net luminous flux = 8000 lm Power consumption = 46.8 W Luminous efficacy = 170.9 lm/W	<b>serial documentation</b> <b>29.01.2024</b>





**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	
$\eta_{LB}$	100.0%
$\phi_u$	87.4%
$\phi_o$	12.6%

Measurement conditions
DIN EN 13032 and DIN 5032

## Photometric test report

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<b>Table of values for luminous intensities</b>	<b>Maximum luminous intensity</b>	<b>siteco</b>
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C-planes	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°
$\gamma$	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

<b>Family</b> <b>Licross® 21 Opal</b>	<b>Order number: 52TE1DVN48XG</b> <b>EAN: 4069025071835</b>	<b>LP number</b> <b>59520_14</b>
<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

C-planes	195°	210°	225°	240°	255°	270°	285°	300°	315°	330°	345°	Phi-zone	Total Phi-zone
$\gamma$	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

<b>Family</b> Licross® 21 Opal	<b>Order number: 52TE1DVN48XG</b> <b>EAN: 4069025071835</b>	<b>LP number</b> 59520_14
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<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
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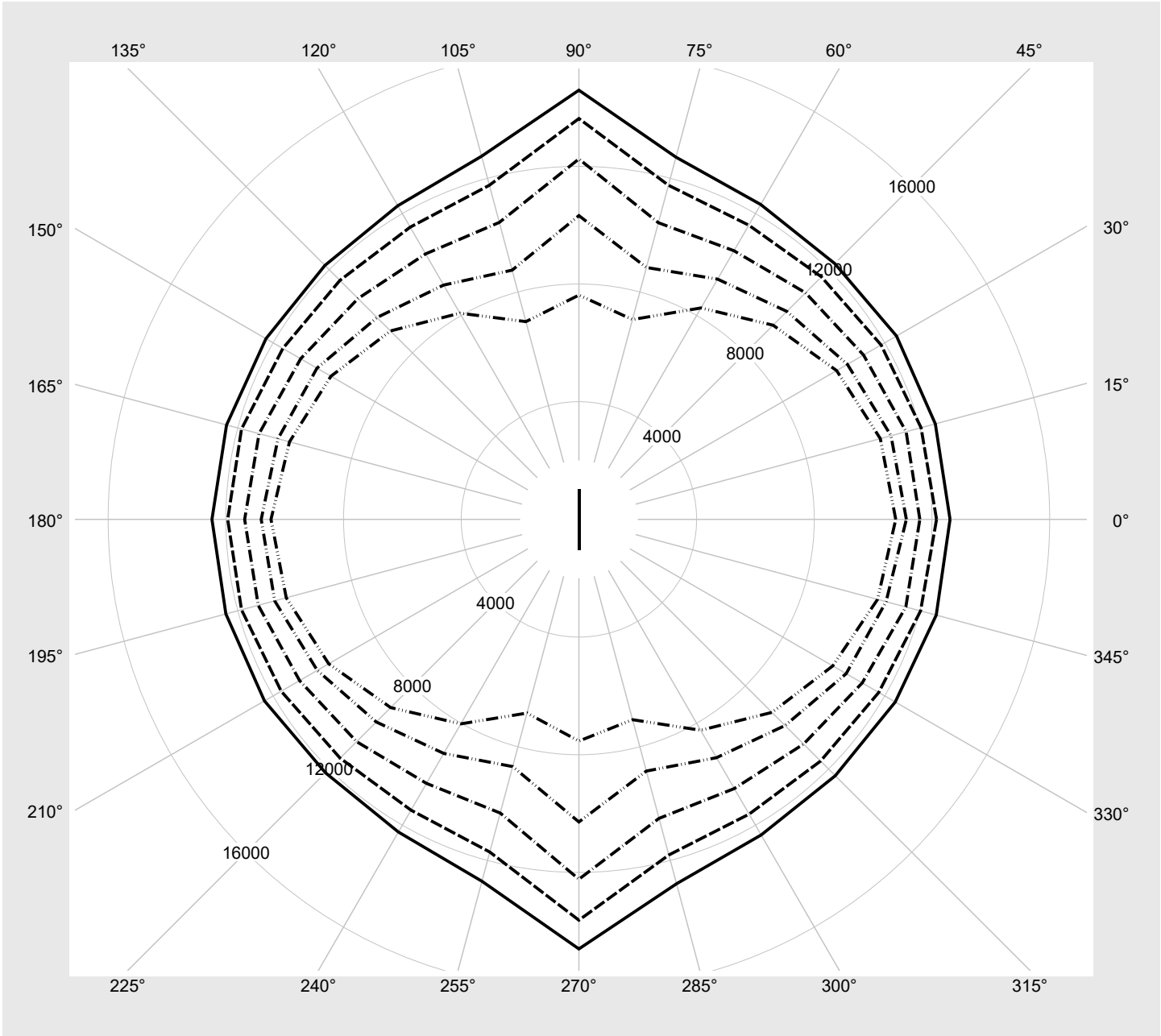
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	View crosswise (C0)					View endwise (C90)					
x	y										
2H	2H	21.0	22.6	21.5	23.0	23.5	20.6	22.2	21.1	22.7	23.2
	3H	22.9	24.4	23.4	24.8	25.3	22.2	23.7	22.7	24.1	24.6
	4H	23.7	25.0	24.2	25.5	26.1	22.7	24.0	23.2	24.6	25.1
	6H	24.5	25.7	25.0	26.2	26.8	23.1	24.3	23.6	24.8	25.4
	8H	24.9	26.0	25.5	26.6	27.2	23.2	24.4	23.8	24.9	25.5
	12H	25.2	26.3	25.8	26.8	27.5	23.3	24.3	23.8	24.9	25.5
4H	2H	21.7	23.0	22.2	23.5	24.1	21.3	22.7	21.9	23.2	23.7
	3H	23.7	24.8	24.3	25.4	26.0	23.0	24.2	23.6	24.7	25.3
	4H	24.7	25.8	25.3	26.3	27.0	23.7	24.8	24.3	25.3	26.0
	6H	25.7	26.5	26.3	27.1	27.8	24.2	25.1	24.8	25.7	26.4
	8H	26.1	27.0	26.8	27.6	28.3	24.4	25.2	25.0	25.8	26.5
	12H	26.5	27.3	27.2	27.9	28.6	24.5	25.2	25.1	25.8	26.5
8H	4H	25.0	25.9	25.6	26.5	27.2	24.1	24.9	24.8	25.6	26.3
	6H	26.2	26.9	26.8	27.5	28.2	24.8	25.5	25.5	26.1	26.9
	8H	26.8	27.4	27.4	28.0	28.8	25.1	25.7	25.7	26.3	27.1
	12H	27.3	27.8	28.0	28.5	29.3	25.2	25.7	25.9	26.4	27.2
12H	4H	25.0	25.8	25.6	26.4	27.1	24.2	24.9	24.8	25.5	26.3
	6H	26.2	26.8	26.9	27.5	28.2	24.9	25.5	25.6	26.2	26.9
	8H	26.9	27.4	27.5	28.1	28.8	25.2	25.8	25.9	26.4	27.2

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1500</b>	<b>H(C0) = 25</b>	<b>H(C180) = 25</b>							
			<b>B = 76</b>	<b>H(C90) = 25</b>	<b>H(C270) = 25</b>							
<b>C-planes</b>	<b>0°</b>	<b>30°</b>	<b>60°</b>	<b>90°</b>	<b>120°</b>	<b>150°</b>	<b>180°</b>	<b>210°</b>	<b>240°</b>	<b>270°</b>	<b>300°</b>	<b>330°</b>
$\gamma$	<b>Luminance in cd/m<sup>2</sup></b>											
45°	14690.8	14674.0	15223.7	17431.6	15285.1	14686.4	14678.7	14667.8	15237.3	17463.2	15291.9	14705.1
50°	14157.7	14106.3	14530.9	16808.7	14552.8	14067.0	14094.1	14073.5	14523.6	16843.4	14574.7	14099.7
55°	13603.5	13554.8	13809.2	16159.9	13817.1	13464.0	13542.8	13492.0	13793.4	16188.9	13856.6	13533.9
60°	13126.4	13009.2	13082.9	15429.3	13065.5	12873.4	13003.3	12911.1	13030.8	15451.4	13126.3	12963.9
65°	12614.1	12464.3	12358.2	14587.1	12309.6	12282.5	12472.1	12340.3	12270.7	14600.1	12387.3	12414.7
70°	12155.2	11858.7	11546.8	13623.0	11468.8	11619.2	11936.9	11683.7	11413.1	13623.0	11569.1	11766.6
75°	11587.3	11171.5	10542.2	12249.9	10419.7	10919.7	11360.6	10961.6	10361.7	12231.3	10564.6	11119.0
80°	11129.4	10537.8	9428.1	10323.9	9195.6	10279.6	10798.0	10267.3	9186.0	10284.8	9353.3	10488.6
85°	10768.4	10113.8	8297.9	7622.3	8092.1	9731.5	10465.6	9818.5	8025.8	7535.0	8276.4	9962.2

**Photometric test report**

<b>Family</b> <b>Licross® 21 Opal</b>	<b>Order number: 52TE1DVN48XG</b> <b>EAN: 4069025071835</b>	<b>LP number</b> <b>59520_14</b>
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**Luminance values in cd/m<sup>2</sup>**     γ 65°   γ 70°   γ 75°   γ 80°   γ 85°     **siteco**



## Photometric test report

<b>Family</b> Licross® 21 Opal	<b>Order number: 52TE1DVN48XG</b> <b>EAN: 4069025071835</b>	<b>LP number</b> 59520_14
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<b>Dimming levels table</b>	environmental temperature: 25°C	<b>sITeco</b>
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]	Power consumption [W]	Power consumption [W]
				start of lifetime	end of lifetime	average
100	254	254	8000	46.8	55.7	51.2
95	240	252	7587	44.2	52.7	48.4
90	227	250	7201	41.9	49.8	45.8
85	214	248	6812	39.6	47.0	43.3
80	200	245	6392	37.1	43.9	40.5
75	187	243	5997	34.8	41.2	38.0
70	174	240	5599	32.4	38.4	35.4
65	161	237	5197	30.1	35.6	32.8
60	148	234	4791	27.8	32.8	30.3
55	136	231	4416	25.7	30.2	28.0
50	123	227	4006	23.4	27.5	25.4
45	110	223	3592	21.2	24.8	23.0
40	98	219	3207	19.1	22.3	20.7
35	85	214	2787	16.8	19.7	18.2
30	73	208	2399	14.8	17.1	16.0
25	61	202	2007	12.6	14.7	13.6
20	49	194	1613	10.5	12.1	11.3
15	37	183	1216	8.5	9.6	9.0
10	24	168	788	6.2	6.9	6.6
5	12	142	387	4.1	4.5	4.3
2	5	110	152	3.0	3.1	3.0