

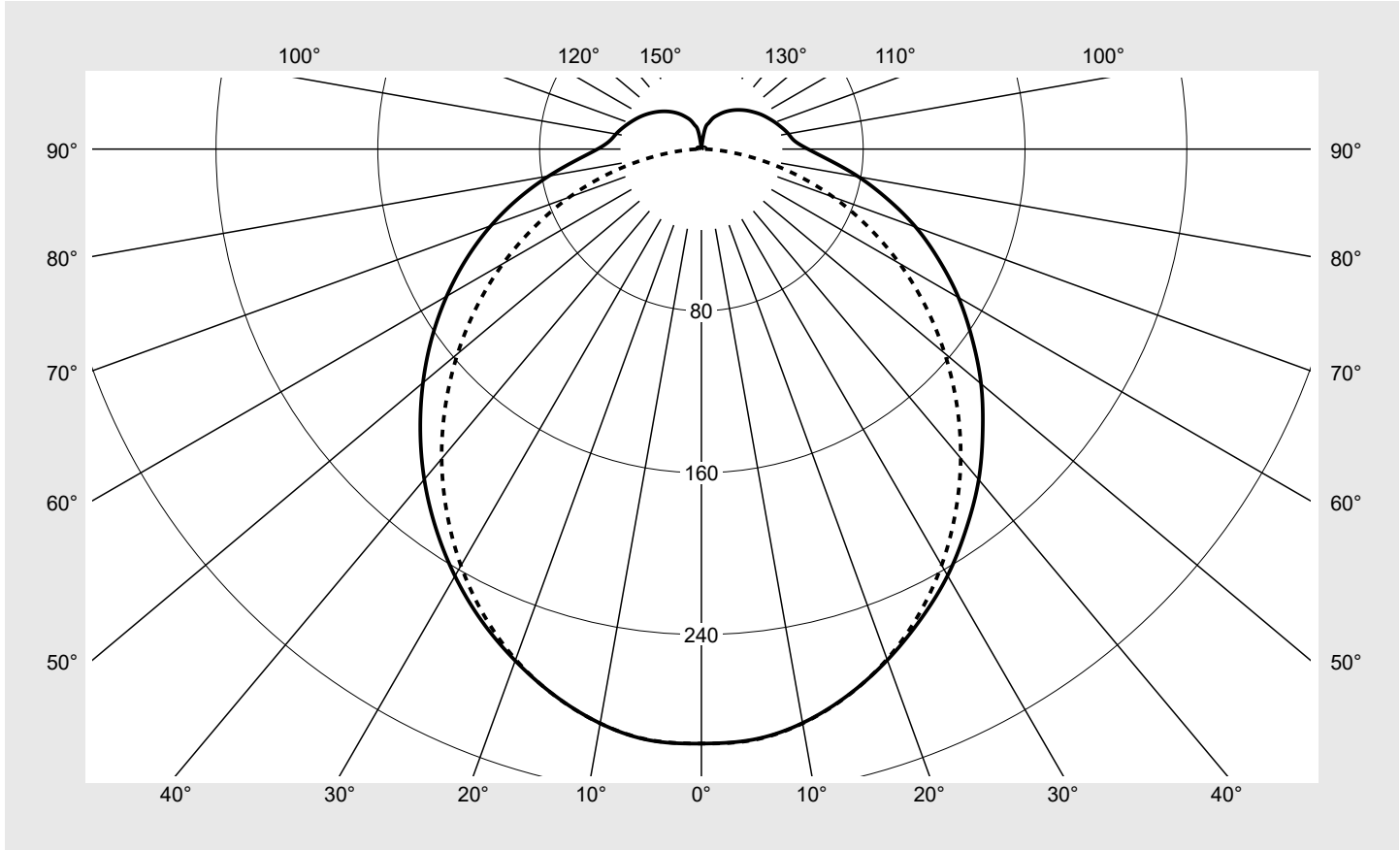
Photometric test report

Family Licross® 21 Opal	Order number: 52TL1DDV4E5G EAN: 4069025021748	LP number 59520_44
	Version cover, opal, direct-/ indirect distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 14620 lm Power consumption = 85.3 W Luminous efficacy = 171.4 lm/W	serial documentation 06.02.2024





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

Photometric test report

Family Licross® 21 Opal	Order number: 52TL1DDV4E5G EAN: 4069025021748	LP number 59520_44
--	--	-------------------------------------

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: 52TL1DDV4E5G EAN: 4069025021748	LP number 59520_44
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: 52TL1DDV4E5G EAN: 4069025021748	LP number 59520_44
-----------------------------------	--	------------------------------

UGR-Table	Standard room	siteco
------------------	----------------------	---------------

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	21.7	23.2	22.2	23.7	24.2	21.3	22.9	21.8	23.4	23.9
	3H	23.6	25.0	24.1	25.5	26.0	22.9	24.4	23.4	24.8	25.3
	4H	24.4	25.7	24.9	26.2	26.8	23.4	24.8	23.9	25.3	25.8
	6H	25.2	26.4	25.7	26.9	27.5	23.8	25.0	24.3	25.6	26.2
	8H	25.6	26.7	26.1	27.3	27.9	24.0	25.1	24.5	25.7	26.3
	12H	25.9	26.9	26.5	27.5	28.2	24.0	25.1	24.6	25.6	26.3
4H	2H	22.4	23.7	22.9	24.2	24.7	22.1	23.4	22.6	23.9	24.4
	3H	24.4	25.5	25.0	26.1	26.7	23.7	24.9	24.3	25.4	26.0
	4H	25.4	26.4	26.0	27.0	27.7	24.5	25.5	25.0	26.0	26.7
	6H	26.4	27.2	27.0	27.8	28.5	24.9	25.8	25.5	26.4	27.1
	8H	26.8	27.6	27.5	28.3	29.0	25.1	26.0	25.7	26.6	27.3
	12H	27.2	27.9	27.9	28.6	29.3	25.2	25.9	25.8	26.6	27.3
8H	4H	25.7	26.6	26.3	27.2	27.9	24.9	25.7	25.5	26.3	27.0
	6H	26.9	27.6	27.5	28.2	28.9	25.5	26.2	26.2	26.9	27.6
	8H	27.5	28.1	28.1	28.7	29.5	25.8	26.4	26.4	27.1	27.8
	12H	28.0	28.5	28.7	29.2	30.0	25.9	26.5	26.6	27.1	27.9
12H	4H	25.7	26.5	26.3	27.1	27.8	24.9	25.6	25.5	26.2	27.0
	6H	26.9	27.5	27.6	28.2	28.9	25.7	26.2	26.3	26.9	27.7
	8H	27.6	28.1	28.2	28.8	29.5	26.0	26.5	26.6	27.2	27.9

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 2250	H(C0) = 25	H(C180) = 25
			B = 76	H(C90) = 25	H(C270) = 25

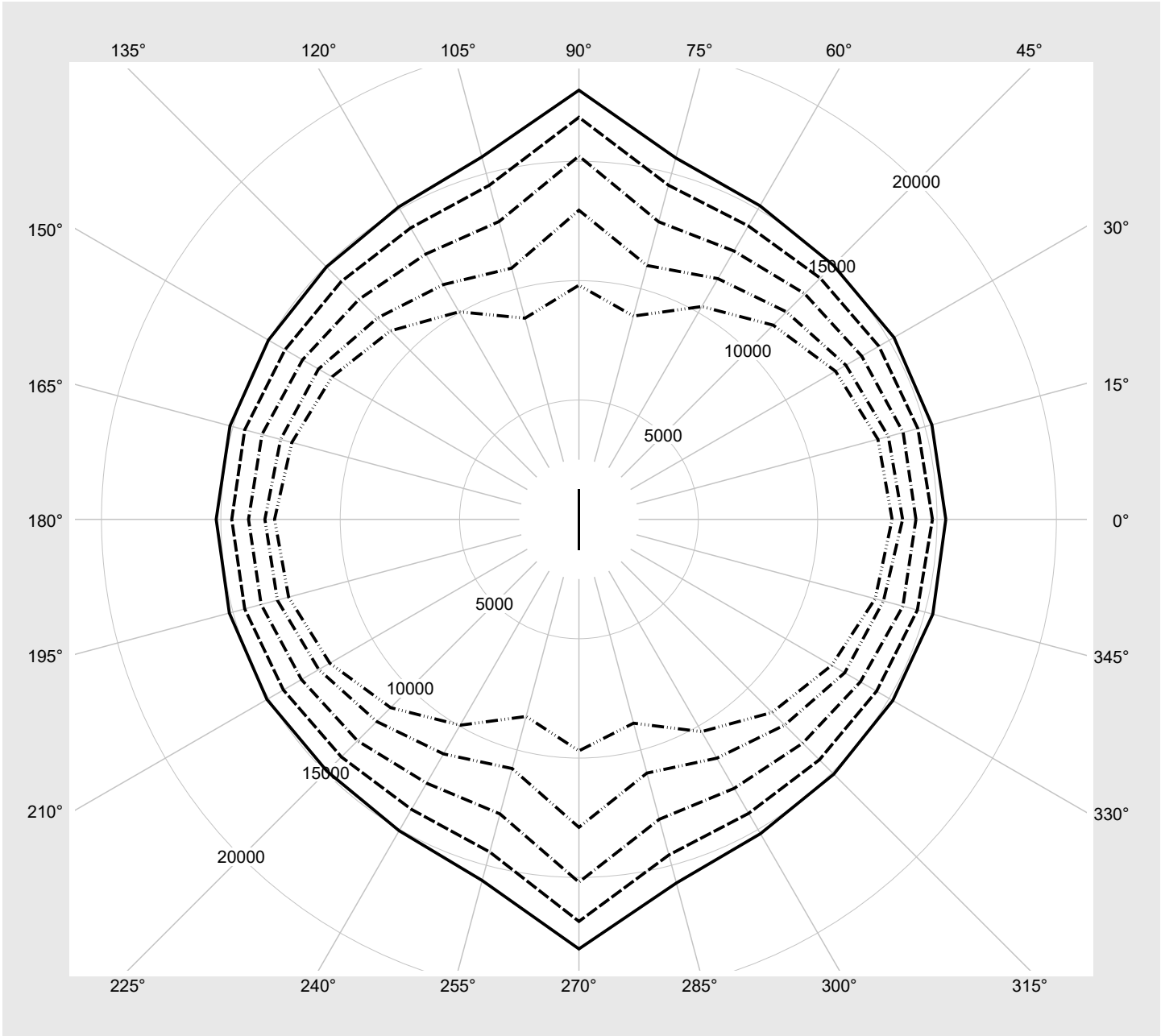
C-planes	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°	330°
γ	Luminance in cd/m²											
45°	17898.3	17916.3	18623.5	21354.2	18698.6	17931.5	17883.5	17908.7	18640.2	21392.9	18706.9	17954.3
50°	17248.7	17228.4	17787.5	20612.4	17814.4	17180.4	17171.3	17188.4	17778.6	20654.9	17841.1	17220.4
55°	16573.6	16560.6	16916.8	19841.9	16926.5	16449.7	16499.7	16483.8	16897.5	19877.5	16974.8	16535.0
60°	15992.3	15900.3	16041.4	18975.5	16020.1	15734.3	15842.3	15780.4	15977.5	19002.6	16094.6	15844.9
65°	15368.2	15241.4	15169.5	17978.8	15109.8	15019.1	15195.1	15089.8	15062.1	17994.8	15205.3	15180.8
70°	14809.1	14509.2	14193.6	16843.2	14097.7	14216.2	14543.2	14295.0	14029.3	16843.2	14221.0	14396.5
75°	14117.2	13678.3	12983.7	15221.6	12832.9	13370.0	13841.0	13421.3	12761.4	15198.4	13011.3	13614.1
80°	13559.3	12914.9	11644.3	12950.7	11357.2	12598.5	13155.5	12583.5	11345.3	12901.6	11551.9	12854.7
85°	13119.5	12412.5	10295.5	9809.7	10040.2	11943.3	12750.6	12050.1	9957.9	9697.4	10268.9	12226.5

Photometric test report

Family Licross® 21 Opal	Order number: 52TL1DDV4E5G EAN: 4069025021748	LP number 59520_44
--	--	-------------------------------------

Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



Photometric test report

Family Licross® 21 Opal	Order number: 52TL1DDV4E5G EAN: 4069025021748	LP number 59520_44
-----------------------------------	--	-------------------------------------

Dimming levels table	environmental temperature: 25°C	sITeco
-----------------------------	---------------------------------	---------------

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	14620	85.3
95	240	252	13884	80.7
90	226	250	13139	76.1
85	213	248	12438	71.7
80	199	245	11677	67.0
75	186	243	10959	62.7
70	173	240	10237	58.3
65	160	237	9510	54.0
60	147	234	8775	49.7
55	134	231	8032	45.4
50	122	227	7337	41.4
45	109	223	6580	37.3
40	97	219	5876	33.4
35	84	213	5107	29.2
30	72	208	4388	25.3
25	60	201	3665	21.5
20	48	193	2938	17.4
15	36	182	2205	13.3
10	24	168	1467	9.0
5	12	142	724	4.4
2	4	102	224	1.4