


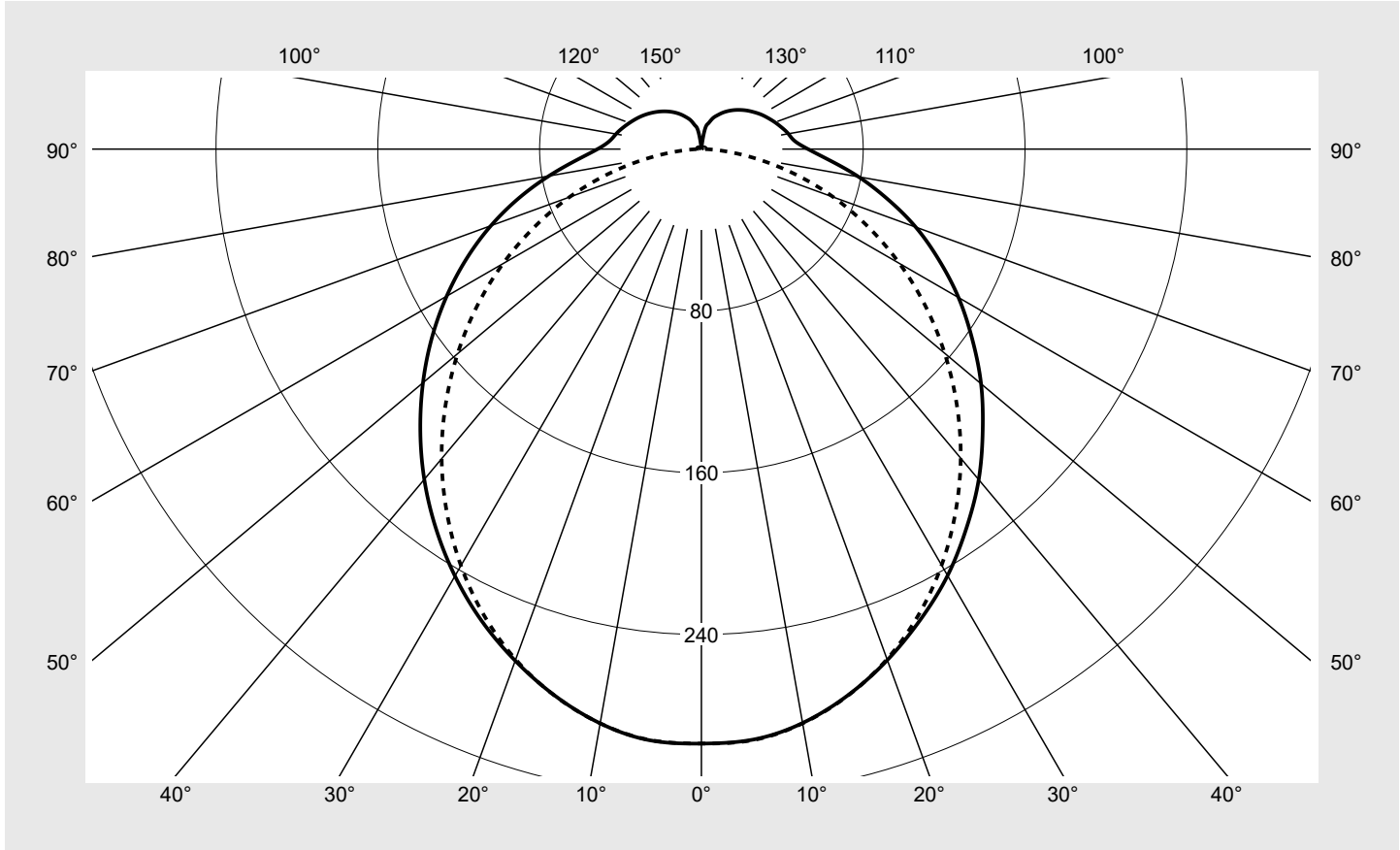
Photometric test report

Family Licross® 21 Opal	Order number: 52TE1DDV495G EAN: 4058352055311	LP number 59520_81
	Version cover, opal, direct-/ indirect distribution, diffuse Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 9500 lm Power consumption = 53.6 W Luminous efficacy = 177.2 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: 52TE1DDV495G EAN: 4058352055311	LP number 59520_81
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: 52TE1DDV495G EAN: 4058352055311	LP number 59520_81
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: 52TE1DDV495G EAN: 4058352055311	LP number 59520_81
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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	20.2	21.7	20.7	22.2	22.7	19.9	21.4	20.3	21.9	22.4
	3H	22.1	23.5	22.6	24.0	24.5	21.4	22.9	21.9	23.3	23.8
	4H	22.9	24.2	23.4	24.7	25.3	21.9	23.3	22.5	23.8	24.3
	6H	23.7	24.9	24.2	25.4	26.0	22.3	23.5	22.8	24.1	24.7
	8H	24.1	25.2	24.6	25.8	26.4	22.5	23.6	23.0	24.2	24.8
	12H	24.4	25.4	25.0	26.0	26.7	22.5	23.6	23.1	24.1	24.8
4H	2H	20.9	22.2	21.4	22.7	23.3	20.6	21.9	21.1	22.4	22.9
	3H	22.9	24.0	23.5	24.6	25.2	22.2	23.4	22.8	23.9	24.5
	4H	23.9	25.0	24.5	25.5	26.2	23.0	24.0	23.5	24.5	25.2
	6H	24.9	25.7	25.5	26.3	27.0	23.4	24.3	24.0	24.9	25.6
	8H	25.3	26.2	26.0	26.8	27.5	23.6	24.5	24.2	25.1	25.8
	12H	25.7	26.4	26.4	27.1	27.8	23.7	24.4	24.3	25.1	25.8
8H	4H	24.2	25.1	24.8	25.7	26.4	23.4	24.2	24.0	24.8	25.5
	6H	25.4	26.1	26.0	26.7	27.4	24.0	24.7	24.7	25.4	26.1
	8H	26.0	26.6	26.6	27.2	28.0	24.3	24.9	24.9	25.6	26.3
	12H	26.5	27.0	27.2	27.7	28.5	24.4	25.0	25.1	25.6	26.4
12H	4H	24.2	25.0	24.8	25.6	26.3	23.4	24.1	24.0	24.7	25.5
	6H	25.4	26.0	26.1	26.7	27.4	24.2	24.7	24.8	25.4	26.2
	8H	26.1	26.6	26.7	27.3	28.0	24.5	25.0	25.1	25.7	26.4

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°	11630.2	11641.9	12101.5	13875.8	12150.3	11651.8	11620.6	11637.0	12112.3	13901.0	12155.7	11666.6
50°	11208.1	11194.9	11558.2	13393.8	11575.7	11163.7	11157.9	11168.9	11552.4	13421.5	11593.1	11189.7
55°	10769.4	10761.0	10992.5	12893.1	10998.7	10688.9	10721.4	10711.1	10979.9	12916.3	11030.2	10744.4
60°	10391.7	10331.9	10423.6	12330.2	10409.8	10224.1	10294.3	10254.0	10382.1	12347.8	10458.2	10295.9
65°	9986.2	9903.8	9857.0	11682.5	9818.3	9759.3	9873.7	9805.3	9787.3	11692.9	9880.3	9864.4
70°	9622.9	9428.0	9222.9	10944.6	9160.6	9237.6	9450.1	9288.8	9116.1	10944.6	9240.7	9354.8
75°	9173.3	8888.1	8436.7	9890.9	8338.7	8687.7	8993.8	8721.1	8292.3	9875.9	8454.7	8846.4
80°	8810.8	8392.0	7566.4	8415.3	7379.8	8186.5	8548.4	8176.7	7372.1	8383.4	7506.4	8352.9
85°	8525.0	8065.6	6690.0	6374.3	6524.1	7760.7	8285.3	7830.1	6470.6	6301.3	6672.7	7944.7

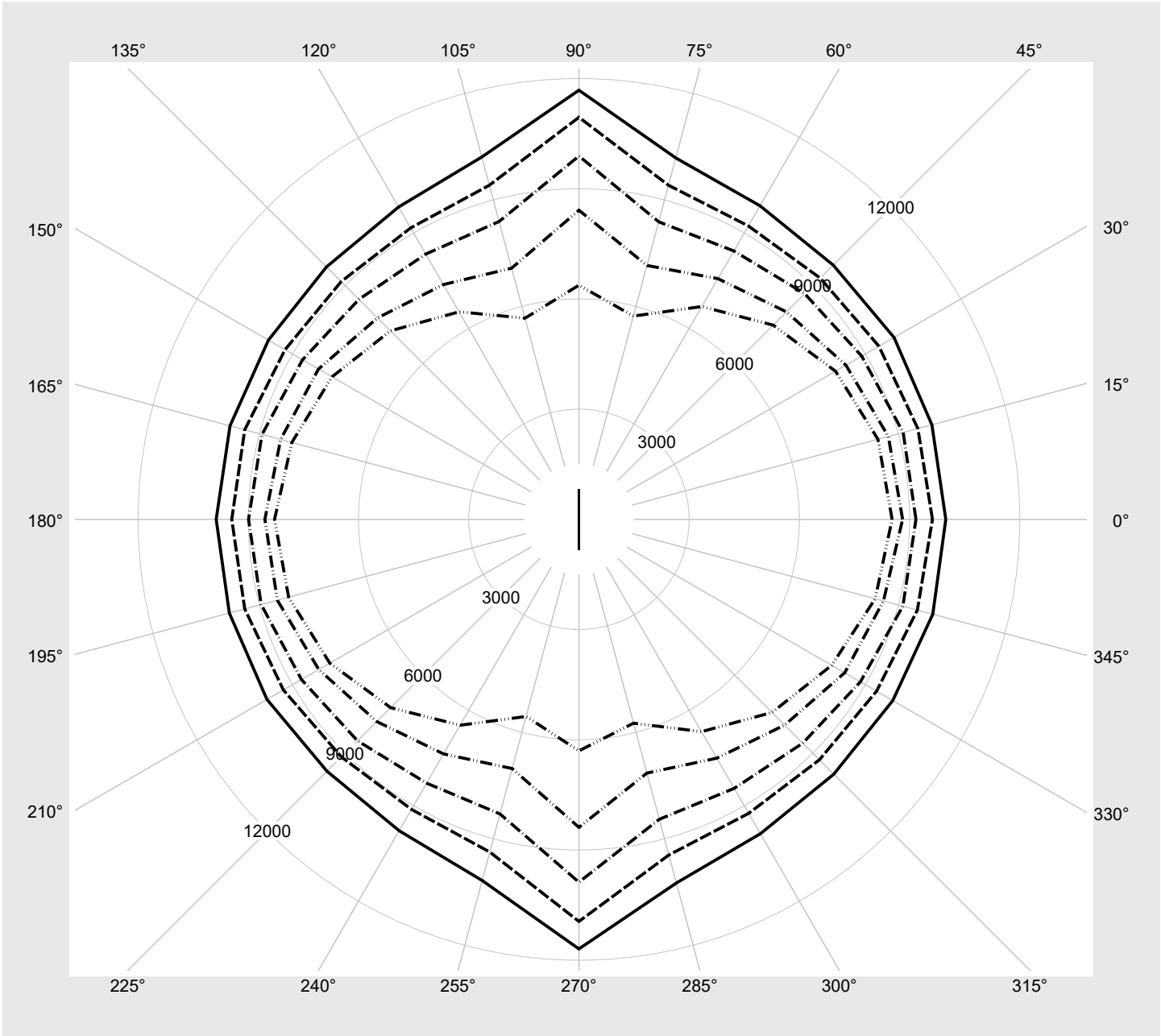
Photometric test report

Family Licross® 21 Opal	Order number: 52TE1DDV495G EAN: 4058352055311	LP number 59520_81
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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: 52TE1DDV495G EAN: 4058352055311	LP number 59520_81
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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]
100	254	254	9500	53.6
95	241	252	9040	51.0
90	227	250	8538	48.2
85	214	248	8071	45.6
80	201	245	7599	43.0
75	188	243	7123	40.4
70	175	240	6647	37.8
65	162	238	6167	35.2
60	149	234	5683	32.5
55	137	231	5237	30.0
50	124	228	4748	27.3
45	111	224	4258	24.5
40	99	219	3803	22.0
35	86	214	3307	19.4
30	74	209	2851	17.2
25	62	202	2388	15.1
20	49	194	1885	12.8
15	37	183	1423	10.1
13	31	177	1190	8.7