

Photometric test report

Family
Licross® 21 Opal

Order number: **52TL1DMN4AXG**
EAN: **4058352056851**

LP number
59520_257



Version

Lamps

Controlgear

Rated values

cover, opal, direct-/ indirect distribution, diffuse

LED 4000 K | CRI ≥ 80

ECG Multilumen

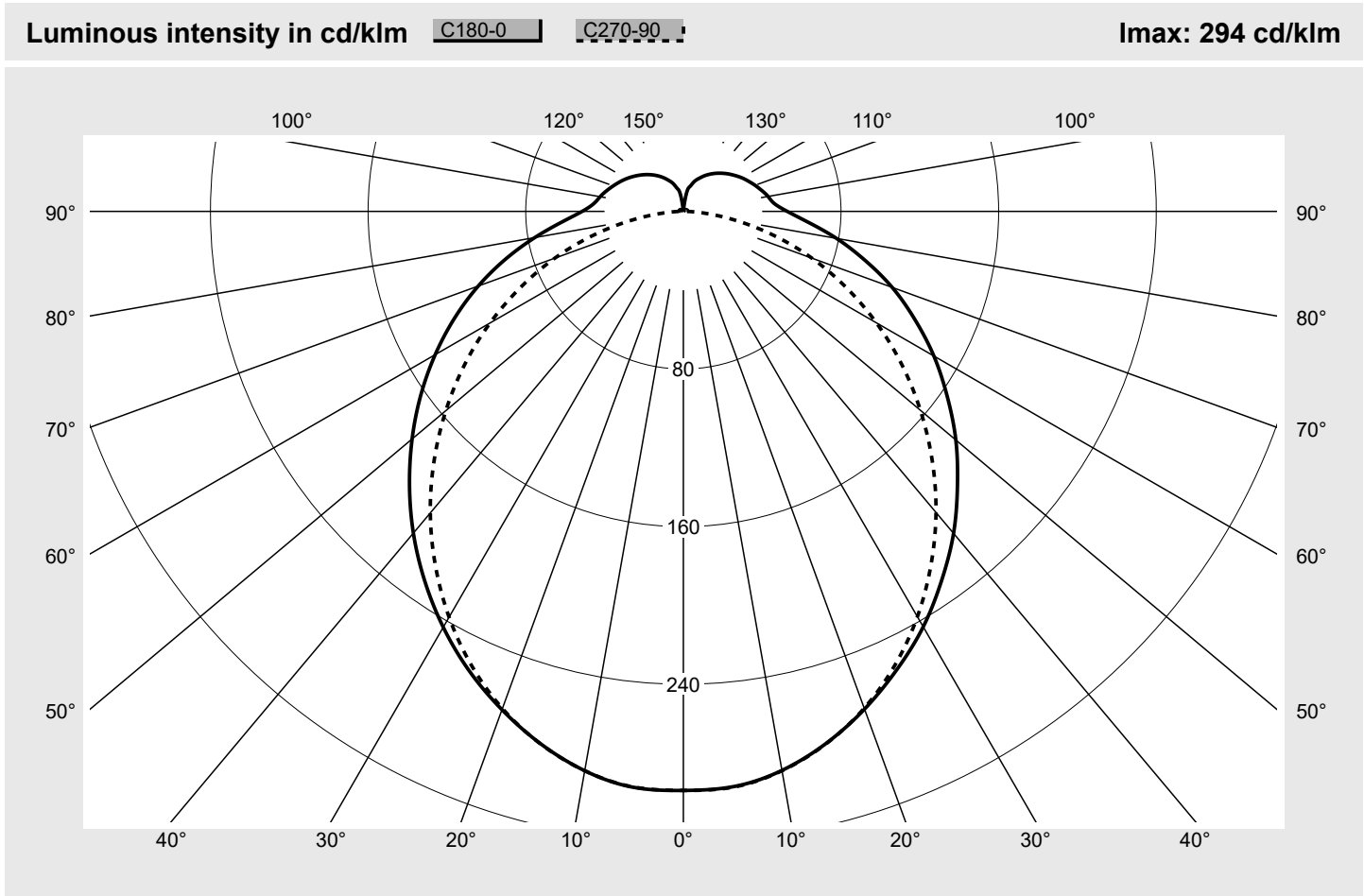
Net luminous flux = 10420 lm
Power consumption = 60.5 W
Luminous efficacy = 172.2 lm/W

serial

documentation

09.02.2024

siteco



Classifications		Luminaire light output ratios	
DIN 5040	B 3 1	η_{LB}	100.0%
CIE	N1=44 N2=73 N3=91	ϕ_u	87.4%
	N4=87 N5=100	ϕ_o	12.6%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Licross® 21 Opal	Order number: 52TL1DMN4AXG EAN: 4058352056851	LP number 59520_257
Table of values for luminous intensities		Maximum luminous intensity

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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

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Family Licross® 21 Opal	Order number: 52TL1DMN4AXG EAN: 4058352056851	LP number 59520_257
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

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Family Licross® 21 Opal	Order number: 52TL1DMN4AXG EAN: 4058352056851	LP number 59520_257
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	21.9	23.5	22.4	23.9	24.4	21.6	23.1	22.0	23.6	24.1
	3H	23.8	25.3	24.3	25.7	26.3	23.1	24.6	23.6	25.0	25.5
	4H	24.6	26.0	25.2	26.5	27.0	23.6	25.0	24.1	25.5	26.0
	6H	25.4	26.6	26.0	27.2	27.8	24.0	25.2	24.5	25.8	26.4
	8H	25.8	26.9	26.4	27.5	28.1	24.1	25.3	24.7	25.9	26.5
	12H	26.1	27.2	26.7	27.7	28.4	24.2	25.3	24.7	25.8	26.5
4H	2H	22.6	23.9	23.1	24.4	25.0	22.3	23.6	22.8	24.1	24.7
	3H	24.6	25.8	25.2	26.3	26.9	23.9	25.1	24.5	25.6	26.2
	4H	25.7	26.7	26.2	27.2	27.9	24.7	25.7	25.2	26.2	26.9
	6H	26.6	27.5	27.2	28.1	28.7	25.1	26.0	25.7	26.6	27.3
	8H	27.1	27.9	27.7	28.5	29.2	25.3	26.2	25.9	26.8	27.4
	12H	27.5	28.2	28.1	28.8	29.5	25.4	26.1	26.0	26.8	27.5
8H	4H	25.9	26.8	26.6	27.4	28.1	25.1	25.9	25.7	26.5	27.2
	6H	27.1	27.8	27.7	28.4	29.1	25.7	26.4	26.4	27.1	27.8
	8H	27.7	28.3	28.3	28.9	29.7	26.0	26.6	26.6	27.3	28.0
	12H	28.2	28.7	28.9	29.4	30.2	26.1	26.6	26.8	27.3	28.1
12H	4H	25.9	26.7	26.6	27.3	28.0	25.1	25.8	25.7	26.4	27.2
	6H	27.1	27.7	27.8	28.4	29.2	25.9	26.4	26.5	27.1	27.9
	8H	27.8	28.3	28.4	29.0	29.7	26.2	26.7	26.8	27.4	28.1

Luminance table		Max. for $\gamma \geq 65^\circ$			Photometric dimensions in mm:		L = 1500 B = 76		H(C0) = 25 H(C90) = 25		H(C180) = 25 H(C270) = 25	
C-planes	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°	330°
γ	Luminance in cd/m²											
45°	19134.8	19112.9	19828.8	22704.7	19908.8	19129.1	19119.0	19104.8	19846.6	22745.9	19917.7	19153.4
50°	18440.3	18373.4	18926.4	21893.3	18955.0	18322.2	18357.6	18330.8	18916.9	21938.5	18983.5	18364.9
55°	17718.5	17655.2	17986.5	21048.2	17996.8	17536.9	17639.5	17573.3	17966.0	21086.1	18048.2	17627.9
60°	17097.1	16944.5	17040.5	20096.6	17017.9	16767.6	16936.8	16816.7	16972.6	20125.4	17097.0	16885.5
65°	16429.9	16234.7	16096.5	18999.7	16033.2	15997.9	16244.9	16073.2	15982.5	19016.6	16134.5	16170.2
70°	15832.1	15445.9	15039.7	17744.0	14938.1	15134.1	15547.9	15218.0	14865.5	17744.0	15068.7	15326.0
75°	15092.5	14550.8	13731.2	15955.5	13571.7	14222.9	14797.2	14277.5	13496.1	15931.2	13760.4	14482.6
80°	14496.0	13725.4	12280.1	13446.9	11977.3	13389.2	14064.4	13373.2	11964.8	13395.9	12182.7	13661.4
85°	14025.9	13173.2	10808.0	9928.0	10540.0	12675.3	13631.5	12788.5	10453.5	9814.3	10780.1	12975.8

Photometric test report

Family
Licross® 21 Opal

Order number: 52TL1DMN4AXG
EAN: 4058352056851

LP number
59520_257

Luminance values in cd/m²

γ 65°

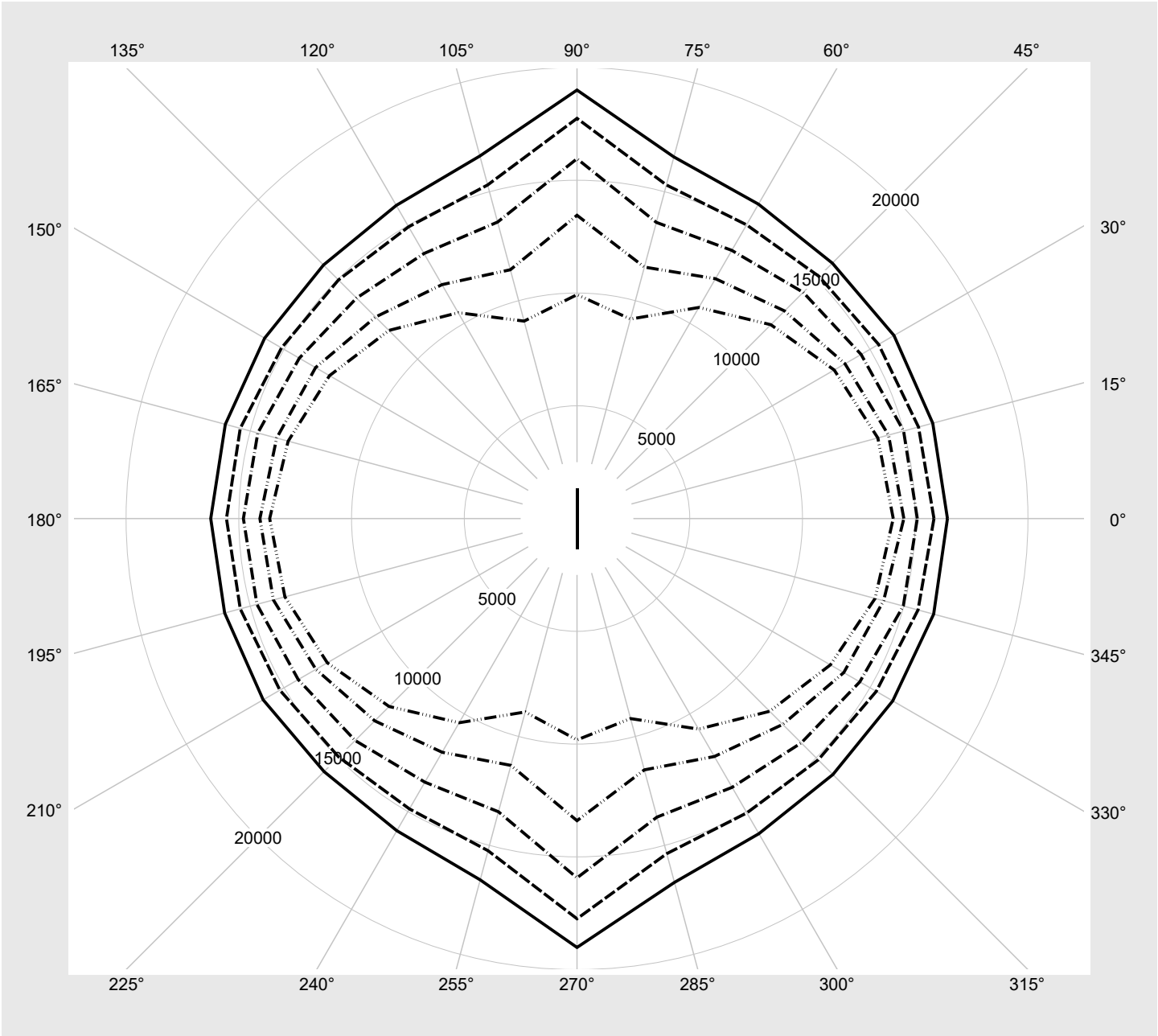
γ 70°

γ 75°

γ 80°

γ 85°

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Photometric test report

Family Licross® 21 Opal	Order number: 52TL1DMN4AXG EAN: 4058352056851	LP number 59520_257
Multilumen Table	environmental temperature: 25°C	siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	10420	60.5
2	A	C	F	9810	56.5
3	A	D	E	9340	53.4
4	A	D	F	8850	50.3
5	B	C	E	8360	47.3
6	B	C	F	7870	44.4
7	B	D	E	7370	41.4
8	B	D	F	6860	38.4