

Photometric test report

Family

Licross® 21 Opal



Order number: 52TE1DMN4E5M

EAN: 4058352056776

LP number

59520_266

Version

cover, opal, direct-/ indirect distribution, diffuse

Lamps

LED 4000 K | CRI ≥ 80

Controlgear

ECG Multilumen

Rated values

Net luminous flux = 14660 lm

Power consumption = 83.1 W

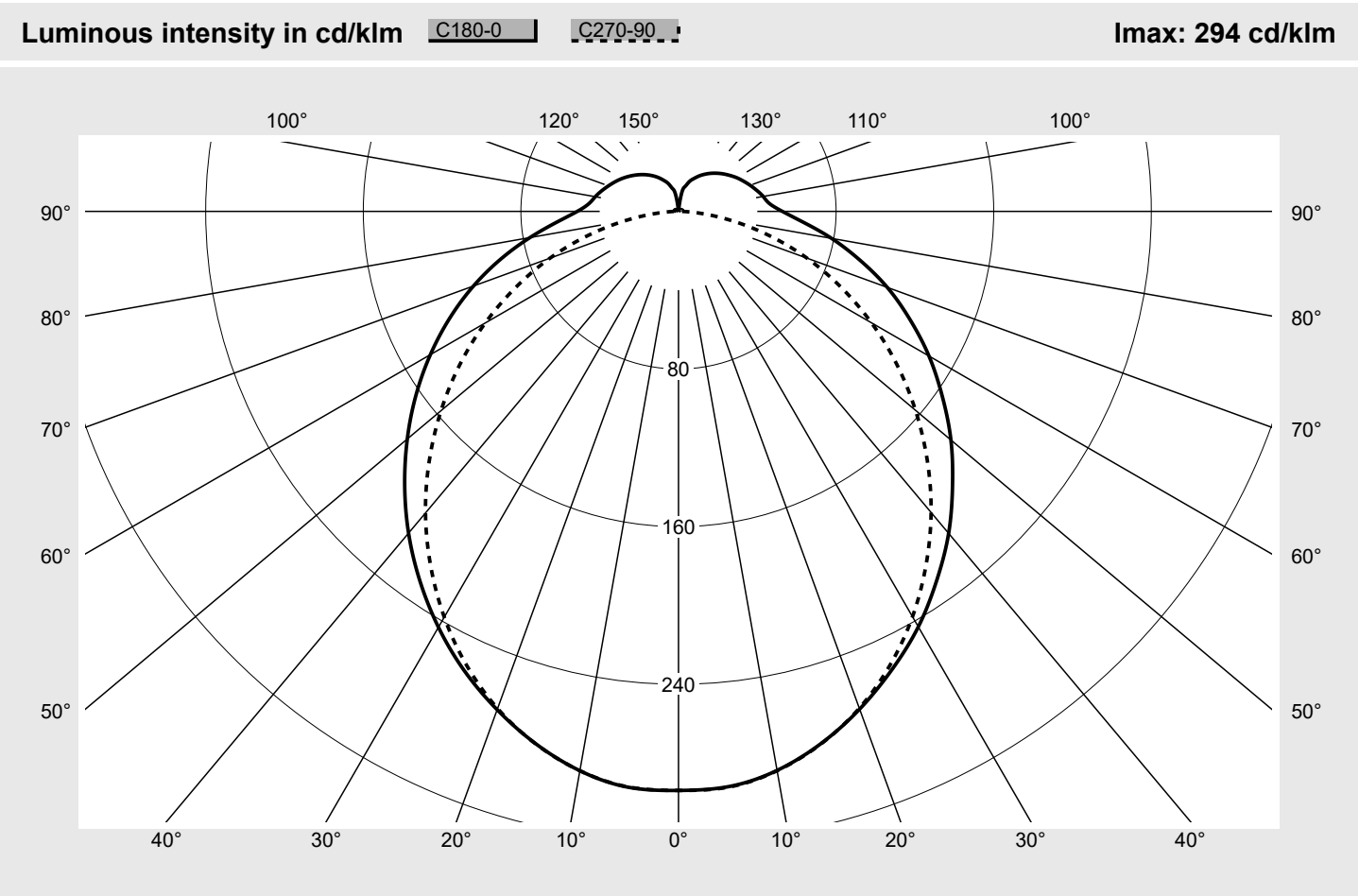
Luminous efficacy = 176.4 lm/W

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: 52TE1DMN4E5M EAN: 4058352056776	LP number 59520_266
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

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Family Licross® 21 Opal	Order number: 52TE1DMN4E5M EAN: 4058352056776	LP number 59520_266
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: 52TE1DMN4E5M EAN: 4058352056776	LP number 59520_266
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	23.1	24.7	23.6	25.1	25.6	22.7	24.3	23.2	24.8	25.3
	3H	25.0	26.5	25.5	26.9	27.4	24.3	25.8	24.8	26.2	26.7
	4H	25.8	27.1	26.4	27.7	28.2	24.8	26.2	25.3	26.7	27.2
	6H	26.6	27.8	27.2	28.3	28.9	25.2	26.4	25.7	26.9	27.5
	8H	27.0	28.1	27.6	28.7	29.3	25.3	26.5	25.9	27.1	27.6
	12H	27.3	28.4	27.9	28.9	29.6	25.4	26.5	25.9	27.0	27.6
4H	2H	23.8	25.1	24.3	25.6	26.2	23.5	24.8	24.0	25.3	25.8
	3H	25.8	27.0	26.4	27.5	28.1	25.1	26.3	25.7	26.8	27.4
	4H	26.8	27.9	27.4	28.4	29.1	25.8	26.9	26.4	27.4	28.1
	6H	27.8	28.6	28.4	29.2	29.9	26.3	27.2	26.9	27.8	28.5
	8H	28.2	29.1	28.9	29.7	30.4	26.5	27.3	27.1	27.9	28.6
	12H	28.6	29.4	29.3	30.0	30.7	26.6	27.3	27.2	27.9	28.7
8H	4H	27.1	28.0	27.7	28.6	29.3	26.2	27.1	26.9	27.7	28.4
	6H	28.3	29.0	28.9	29.6	30.3	26.9	27.6	27.6	28.2	29.0
	8H	28.9	29.5	29.5	30.1	30.9	27.2	27.8	27.8	28.4	29.2
	12H	29.4	29.9	30.1	30.6	31.4	27.3	27.8	28.0	28.5	29.3
12H	4H	27.1	27.9	27.8	28.5	29.2	26.3	27.0	26.9	27.6	28.4
	6H	28.3	28.9	29.0	29.6	30.3	27.0	27.6	27.7	28.3	29.0
	8H	29.0	29.5	29.6	30.2	30.9	27.4	27.9	28.0	28.5	29.3

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°	26920.9	26890.1	27897.4	31943.4	28009.9	26912.9	26898.7	26878.7	27922.4	32001.4	28022.4	26947.1	
50°	25943.9	25849.8	26627.8	30801.9	26668.0	25777.7	25827.5	25789.7	26614.4	30865.5	26708.1	25837.8	
55°	24928.4	24839.2	25305.4	29613.0	25319.9	24672.8	24817.2	24724.0	25276.5	29666.2	25392.2	24800.8	
60°	24054.1	23839.4	23974.4	28274.1	23942.6	23590.5	23828.5	23659.6	23879.0	28314.6	24053.9	23756.3	
65°	23115.4	22840.8	22646.3	26730.9	22557.3	22507.7	22855.1	22613.6	22486.0	26754.7	22699.8	22750.0	
70°	22274.4	21731.0	21159.5	24964.2	21016.6	21292.3	21874.4	21410.3	20914.5	24964.2	21200.3	21562.4	
75°	21233.8	20471.7	19318.5	22448.0	19094.2	20010.3	20818.3	20087.2	18987.8	22413.8	19359.6	20375.6	
80°	20394.6	19310.5	17277.1	18918.5	16851.0	18837.4	19787.3	18814.9	16833.4	18846.8	17139.9	19220.3	
85°	19733.1	18533.5	15205.8	13967.8	14828.8	17832.9	19178.3	17992.3	14707.2	13807.9	15166.6	18255.8	

Photometric test report

Family
Licross® 21 Opal

Order number: **52TE1DMN4E5M**
EAN: **4058352056776**

LP number
59520_266

Luminance values in cd/m²

γ 65°

γ 70°

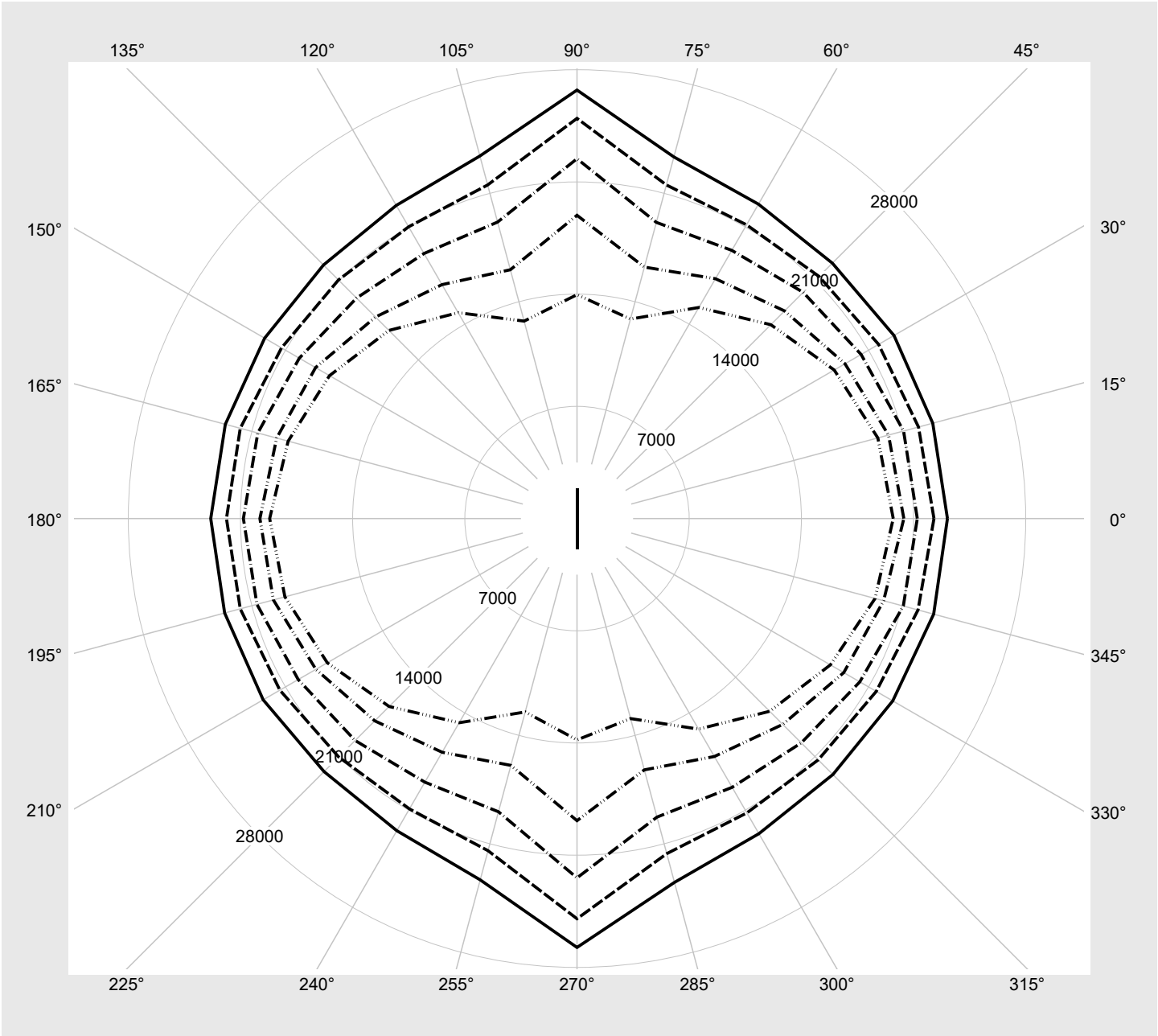
γ 75°

γ 80°

γ 85°

sit

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Photometric test report

Family Licross® 21 Opal	Order number: 52TE1DMN4E5M EAN: 4058352056776	LP number 59520_266
Multilumen Table	environmental temperature: 25°C	siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	14660	83.1
2	A	C	F	13770	77.5
3	A	D	E	12730	71.1
4	A	D	F	11810	65.4
5	B	C	E	10800	59.4
6	B	C	F	9850	53.9
7	B	D	E	8820	47.9
8	B	D	F	7840	42.4