

Photometric test report

Family
Licross® 11 Performance

Order number: 51TM16CN4EXM
EAN: 4058352929988

LP number
58519_285



Version cover frosted, direct-/ indirect distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-Multilumen CLOi
Rated values Net luminous flux = 14420 lm
 Power consumption = 77.6 W
 Luminous efficacy = 185.8 lm/W

serial
documentation
12.10.2023

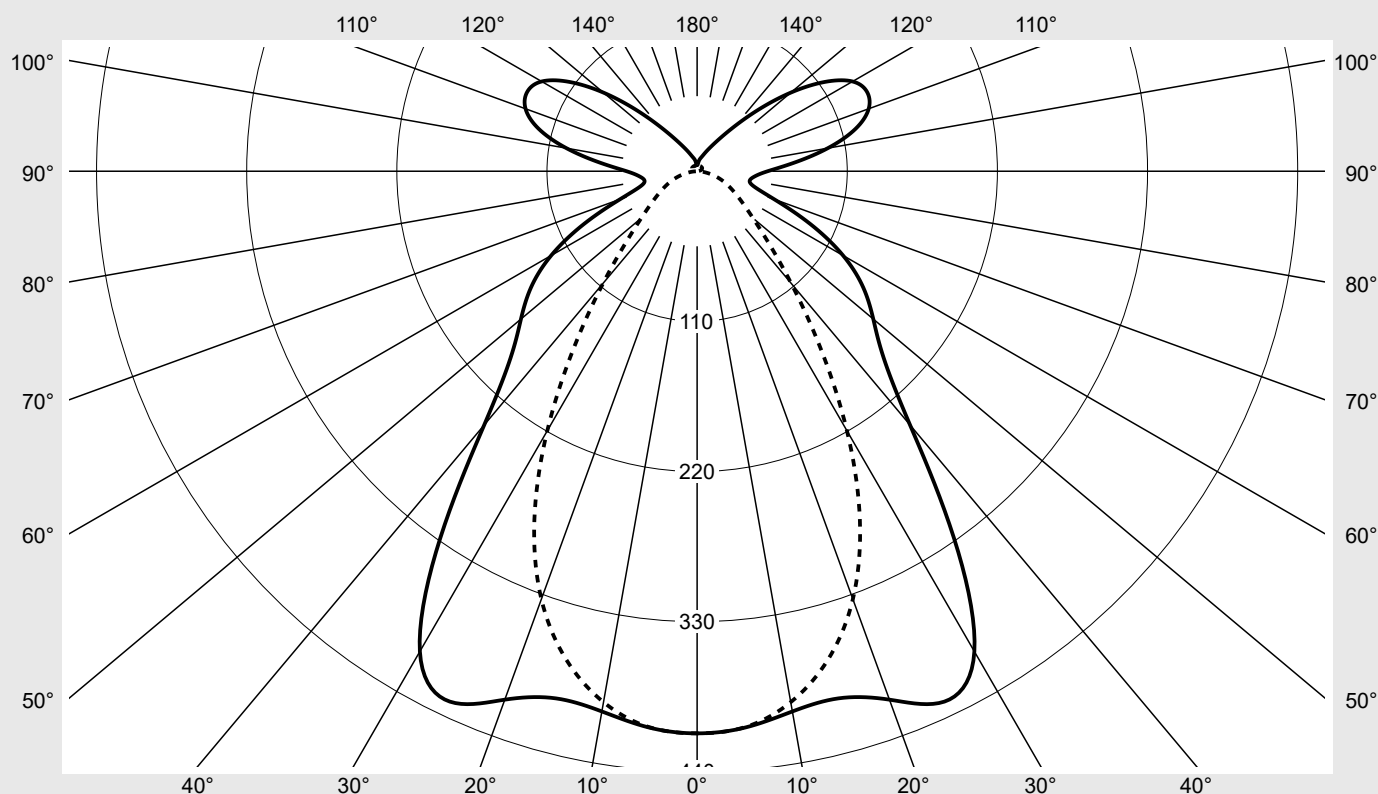
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 429 cd/klm



Classifications

DIN 5040 B 5 1
 CIE N1=63 N2=86 N3=95
 N4=78 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 78.1%
 ϕ_o 21.9%

Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
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C- planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm							Luminous flux in lm/klm	
0°	411.8	411.8	411.8	411.8	411.8	411.8	411.8	2.5	2.5
5°	409.0	407.3	405.0	406.4	408.3	408.3	408.7	19.5	21.9
10°	401.9	399.8	395.6	394.8	395.0	394.6	395.0	37.7	59.6
15°	399.8	396.0	386.0	378.7	373.7	370.5	370.4	54.1	113.8
20°	412.0	404.2	382.1	360.3	344.8	335.4	333.6	68.7	182.5
25°	428.7	419.7	386.2	342.0	307.4	287.4	282.2	81.0	263.5
30°	406.2	406.4	384.2	323.4	261.9	228.9	219.5	87.6	351.1
35°	328.1	339.8	351.8	297.2	211.1	168.2	156.8	84.4	435.5
40°	242.7	253.2	284.0	257.1	161.6	117.6	107.2	73.3	508.8
45°	193.2	191.3	206.1	202.2	118.6	81.5	73.7	60.3	569.1
50°	168.5	157.2	146.5	145.8	85.8	58.6	53.4	49.3	618.5
55°	148.6	133.1	107.2	99.9	62.9	44.3	40.9	40.6	659.0
60°	123.5	108.6	80.0	67.9	46.9	34.4	32.2	32.9	691.9
65°	91.5	81.0	59.1	47.5	36.1	27.0	25.4	25.6	717.5
70°	60.2	54.5	42.3	34.6	28.0	21.0	19.4	18.9	736.4
75°	43.1	39.2	31.3	26.2	21.7	15.5	13.5	14.3	750.7
80°	39.2	35.6	27.4	20.7	16.7	10.7	8.0	12.1	762.9
85°	42.5	38.8	29.2	19.4	12.9	6.9	3.4	11.8	774.7
90°	51.7	47.2	34.3	20.7	11.3	4.4	0.6	13.1	787.8
95°	71.3	64.2	44.5	24.7	12.8	5.2	1.1	17.1	804.9
100°	97.2	85.6	55.2	28.6	14.3	6.1	1.8	21.5	826.4
105°	120.2	103.0	65.3	32.5	15.7	6.9	2.8	25.1	851.6
110°	133.8	113.4	72.0	35.7	17.0	7.6	3.5	27.0	878.6
115°	137.4	116.7	75.1	37.4	17.7	8.2	3.9	27.0	905.5
120°	131.5	112.0	72.9	36.7	17.5	8.5	4.2	25.0	930.5
125°	114.0	97.3	64.4	33.4	16.5	8.4	4.4	20.9	951.4
130°	89.6	76.8	52.0	28.4	14.9	8.3	4.5	15.9	967.3
135°	64.2	55.4	38.9	22.9	13.2	7.9	4.4	11.1	978.4
140°	43.4	38.1	28.3	18.4	11.3	7.3	4.5	7.5	985.9
145°	29.7	26.7	21.1	14.9	9.5	6.3	4.4	5.0	990.9
150°	21.4	19.7	16.5	11.7	8.2	5.8	4.4	3.4	994.4
155°	16.0	15.0	12.7	9.4	8.0	5.2	4.3	2.3	996.7
160°	12.3	11.7	9.5	8.1	6.6	5.4	4.1	1.5	998.2
165°	10.0	9.6	7.9	6.6	5.9	4.7	4.5	1.0	999.2
170°	7.8	6.8	5.5	5.6	6.0	4.8	4.8	0.6	999.8
175°	4.9	4.4	4.8	4.8	4.9	4.9	5.2	0.2	1000.0
180°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	0.0	1000.0

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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	20.7	21.9	21.3	22.5	23.2	16.2	17.5	16.8	18.1	18.7
	3H	21.5	22.6	22.1	23.2	23.9	16.8	17.9	17.4	18.5	19.2
	4H	21.8	22.8	22.4	23.4	24.2	17.0	18.1	17.6	18.7	19.4
	6H	22.1	23.0	22.8	23.7	24.4	17.2	18.2	17.8	18.8	19.5
	8H	22.3	23.1	23.0	23.8	24.6	17.2	18.1	17.8	18.8	19.5
	12H	22.6	23.4	23.4	24.1	24.9	17.2	18.1	17.9	18.7	19.5
4H	2H	20.7	21.7	21.3	22.4	23.1	16.9	17.9	17.5	18.5	19.3
	3H	21.6	22.5	22.3	23.1	23.9	17.6	18.4	18.2	19.1	19.9
	4H	22.0	22.7	22.7	23.4	24.2	17.9	18.7	18.6	19.4	20.2
	6H	22.5	23.1	23.2	23.9	24.7	18.2	18.8	18.9	19.6	20.4
	8H	22.8	23.4	23.6	24.2	25.0	18.2	18.9	19.0	19.6	20.4
	12H	23.3	23.8	24.1	24.6	25.5	18.3	18.8	19.0	19.6	20.5
8H	4H	21.9	22.6	22.7	23.3	24.1	18.2	18.7	18.9	19.5	20.4
	6H	22.6	23.1	23.3	23.8	24.7	18.6	19.1	19.4	19.8	20.8
	8H	23.1	23.5	23.8	24.3	25.2	18.8	19.2	19.6	20.0	20.9
	12H	23.8	24.2	24.6	25.0	25.9	18.9	19.3	19.7	20.1	21.0
12H	4H	21.9	22.4	22.6	23.2	24.1	18.2	18.7	19.0	19.5	20.4
	6H	22.6	23.0	23.3	23.8	24.7	18.7	19.2	19.5	19.9	20.9
	8H	23.1	23.5	23.9	24.3	25.2	19.0	19.4	19.8	20.2	21.1

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1480 B = 115	H(C0) = 36 H(C90) = 0	H(C180) = 36 H(C270) = 0
C-planes	γ	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
		Luminance in cd/m²						
45°		17633.5	17604.0	19431.4	19838.6	12284.3	9030.4	8833.3
50°		16173.7	15228.6	14597.8	15203.5	9534.5	7049.0	7041.9
55°		15171.4	13726.8	11415.9	11207.7	7589.5	5861.4	6040.5
60°		13566.0	12074.2	9228.8	8318.6	6255.5	5108.1	5453.5
65°		10973.8	9850.8	7487.9	6463.9	5416.9	4616.5	5085.8
70°		8014.6	7377.5	6001.1	5335.2	4852.8	4248.6	4799.5
75°		6506.7	6036.3	5100.0	4699.7	4491.3	3887.6	4428.7
80°		6885.2	6405.8	5271.7	4478.5	4323.9	3590.7	3908.6
85°		9029.0	8454.0	6919.0	5346.4	4492.3	3484.0	3339.2

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Luminance values in cd/m²

γ 65°

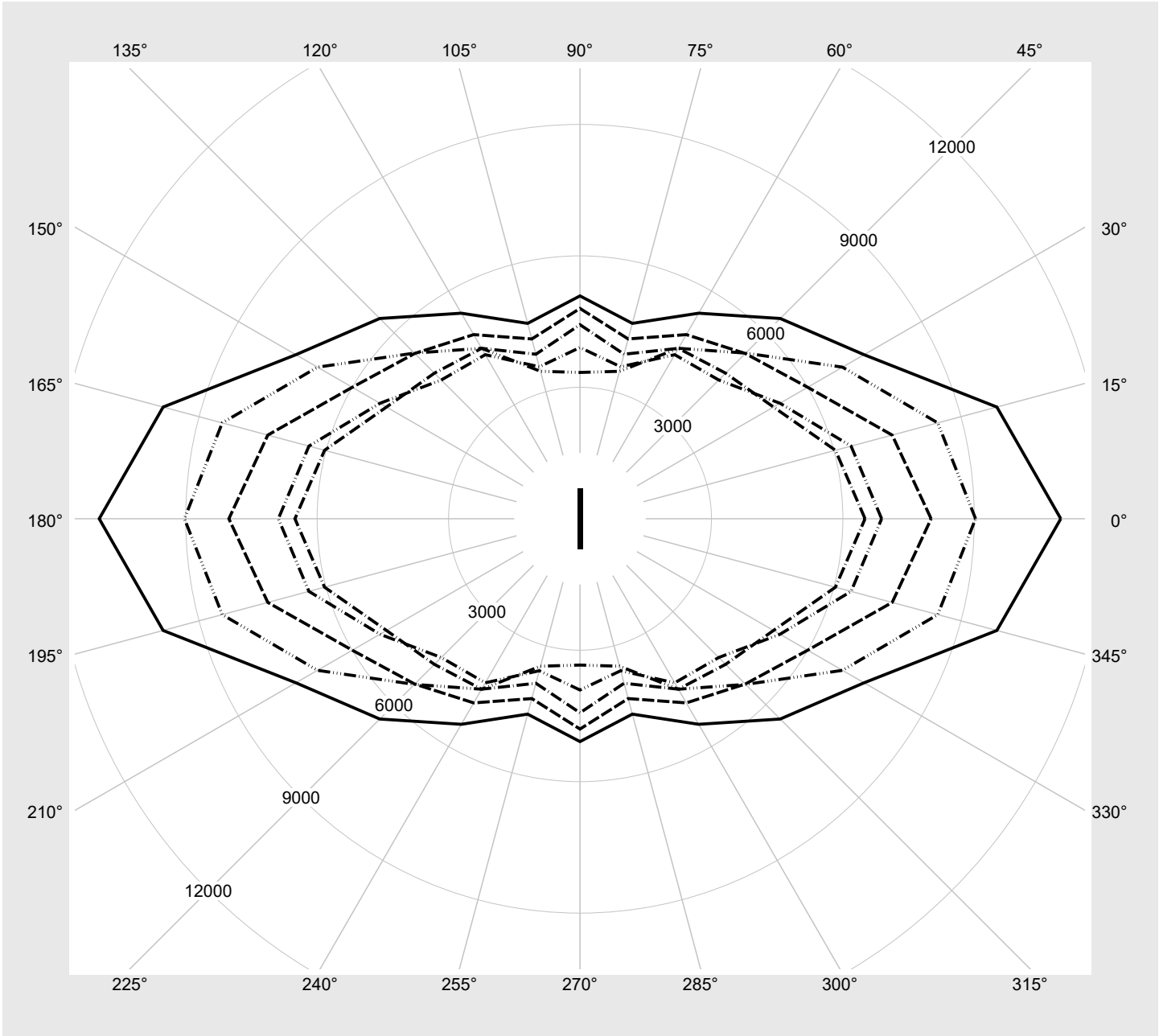
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Multilumen Table	environmental temperature: 25°C	siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]	Power consumption [W]	Power consumption [W]
	1	2	3			end of lifetime	average
1	A	C	E	14420	77.6	87.4	82.5
2	A	C	F	13160	70.1	79.0	74.6
3	A	D	E	12190	64.3	74.9	69.6
4	A	D	F	11120	58.3	65.2	61.8
5	B	C	E	10120	52.6	58.7	55.6
6	B	C	F	9110	47.0	52.2	49.6
7	B	D	E	8090	41.5	46.2	43.8
8	B	D	F	7050	36.0	39.9	38.0