

Photometric test report

Family
Licross® 21 Protected

Order number: 52TP12CN49XG
EAN: 4058352903841

LP number
58524_247



Version prismatic cover, frosted, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-Multilumen CLOi
Rated values Net luminous flux = 9110 lm
 Power consumption = 50.4 W
 Luminous efficacy = 180.7 lm/W

serial
documentation
17.08.2023

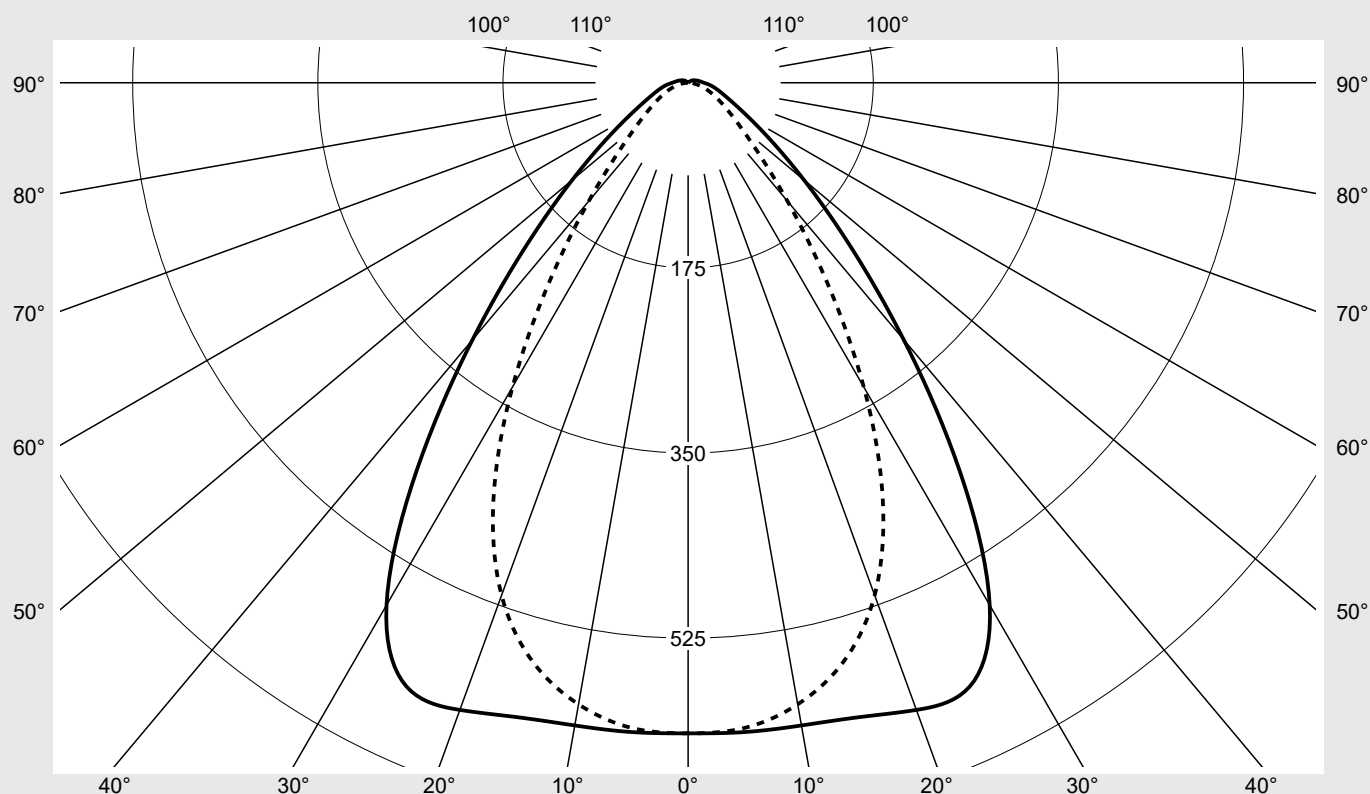
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 631 cd/klm



Classifications

DIN 5040 A 5 1
 CIE N1=73 N2=92 N3=98
 N4=99 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 98.6%
 ϕ_o 1.4%

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°	615.0	615.0	615.0	615.0	615.0	615.0	615.0	3.7	3.7
5°	616.1	614.1	609.7	611.1	612.9	611.9	612.2	29.3	32.9
10°	616.9	615.1	606.4	602.8	600.3	597.0	596.6	57.6	90.5
15°	620.9	617.8	600.9	587.5	576.7	568.6	566.8	83.8	174.3
20°	630.8	623.5	591.7	561.2	536.7	520.1	515.5	106.4	280.7
25°	629.8	620.7	576.3	523.2	476.9	445.6	435.5	122.6	403.3
30°	570.2	568.9	534.3	469.6	398.0	348.4	331.9	126.5	529.9
35°	447.2	456.9	450.2	394.1	307.5	246.5	227.0	114.9	644.8
40°	317.0	331.0	344.1	303.2	220.2	163.1	146.0	93.6	738.3
45°	213.9	226.3	244.1	214.7	147.7	105.6	94.0	70.6	808.9
50°	143.1	152.0	166.9	144.8	97.7	70.8	64.1	51.5	860.4
55°	96.6	102.1	111.9	95.1	64.8	49.7	46.3	37.0	897.4
60°	67.0	69.6	74.2	63.4	44.8	36.0	34.5	26.8	924.2
65°	49.0	49.5	50.0	42.8	32.0	26.6	25.7	19.7	943.9
70°	37.9	37.0	34.4	29.4	23.3	19.5	18.8	14.8	958.7
75°	30.5	28.7	24.6	20.4	16.6	13.6	12.7	11.1	969.8
80°	24.8	22.7	18.1	14.1	11.2	8.8	7.6	8.2	978.0
85°	19.7	17.8	13.4	9.8	7.1	4.8	3.4	5.9	983.8
90°	14.9	13.4	9.7	6.4	4.0	1.9	0.4	3.9	987.8
95°	12.2	11.1	8.2	5.4	3.1	1.2	0.3	3.2	991.0
100°	10.0	9.2	6.9	4.5	2.4	0.7	0.3	2.6	993.6
105°	8.2	7.6	5.7	3.6	1.7	0.4	0.3	2.1	995.6
110°	6.8	6.2	4.6	2.7	1.1	0.3	0.3	1.6	997.2
115°	5.5	5.0	3.7	2.0	0.7	0.4	0.4	1.2	998.4
120°	4.3	3.8	2.7	1.4	0.6	0.5	0.5	0.9	999.3
125°	3.1	2.7	1.8	0.9	0.6	0.6	0.6	0.6	1000.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
175°	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	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	20.9	22.4	21.3	22.7	23.0	17.7	19.1	18.0	19.4	19.7
	3H	21.4	22.6	21.7	23.0	23.3	18.0	19.3	18.4	19.7	20.0
	4H	21.6	22.8	22.0	23.1	23.5	18.2	19.4	18.6	19.7	20.1
	6H	21.9	22.9	22.3	23.3	23.7	18.3	19.4	18.7	19.8	20.2
	8H	22.1	23.0	22.6	23.4	23.8	18.4	19.4	18.8	19.8	20.2
	12H	22.3	23.1	22.7	23.5	23.9	18.4	19.4	18.9	19.8	20.2
4H	2H	21.0	22.2	21.4	22.5	22.9	18.2	19.4	18.6	19.7	20.1
	3H	21.6	22.5	22.0	22.9	23.3	18.7	19.7	19.1	20.1	20.5
	4H	21.9	22.8	22.3	23.2	23.6	18.9	19.8	19.4	20.2	20.6
	6H	22.3	23.0	22.8	23.5	23.9	19.1	19.9	19.6	20.3	20.8
	8H	22.5	23.2	23.0	23.7	24.1	19.2	19.9	19.6	20.3	20.8
	12H	22.8	23.4	23.3	23.9	24.3	19.2	19.9	19.7	20.3	20.8
8H	4H	21.9	22.6	22.4	23.0	23.5	19.1	19.8	19.6	20.3	20.7
	6H	22.4	23.0	22.9	23.4	23.9	19.4	20.0	19.9	20.5	21.0
	8H	22.7	23.2	23.2	23.7	24.2	19.5	20.0	20.0	20.5	21.1
	12H	23.1	23.5	23.6	24.0	24.6	19.7	20.1	20.2	20.6	21.1
12H	4H	21.9	22.5	22.4	23.0	23.5	19.2	19.8	19.7	20.2	20.7
	6H	22.4	22.9	22.9	23.4	23.9	19.5	20.0	20.0	20.5	21.0
	8H	22.8	23.2	23.3	23.7	24.2	19.7	20.1	20.2	20.6	21.1

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1480 B = 78	H(C0) = 13 H(C90) = 0	H(C180) = 13 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° 50° 55° 60°	γ	20464.8	21750.0	23805.6	21432.9	15213.5	11300.0	10494.7
		14653.3	15657.9	17487.6	15592.1	10911.8	8264.1	7864.6
		10730.9	11417.4	12761.0	11199.0	7967.9	6436.5	6371.1
		8210.9	8589.0	9371.7	8307.6	6172.5	5292.5	5439.0
65° 70° 75° 80° 85°	γ	6746.3	6875.9	7123.1	6373.0	5065.0	4553.8	4798.8
		5999.3	5925.1	5691.2	5129.0	4366.4	4029.4	4328.8
		5735.3	5471.0	4866.4	4324.0	3855.4	3573.6	3886.6
		5797.9	5396.9	4528.6	3842.1	3469.0	3205.5	3455.2
		6129.9	5664.3	4593.6	3767.2	3314.3	2929.7	3120.2

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Luminance values in cd/m²

γ 65°

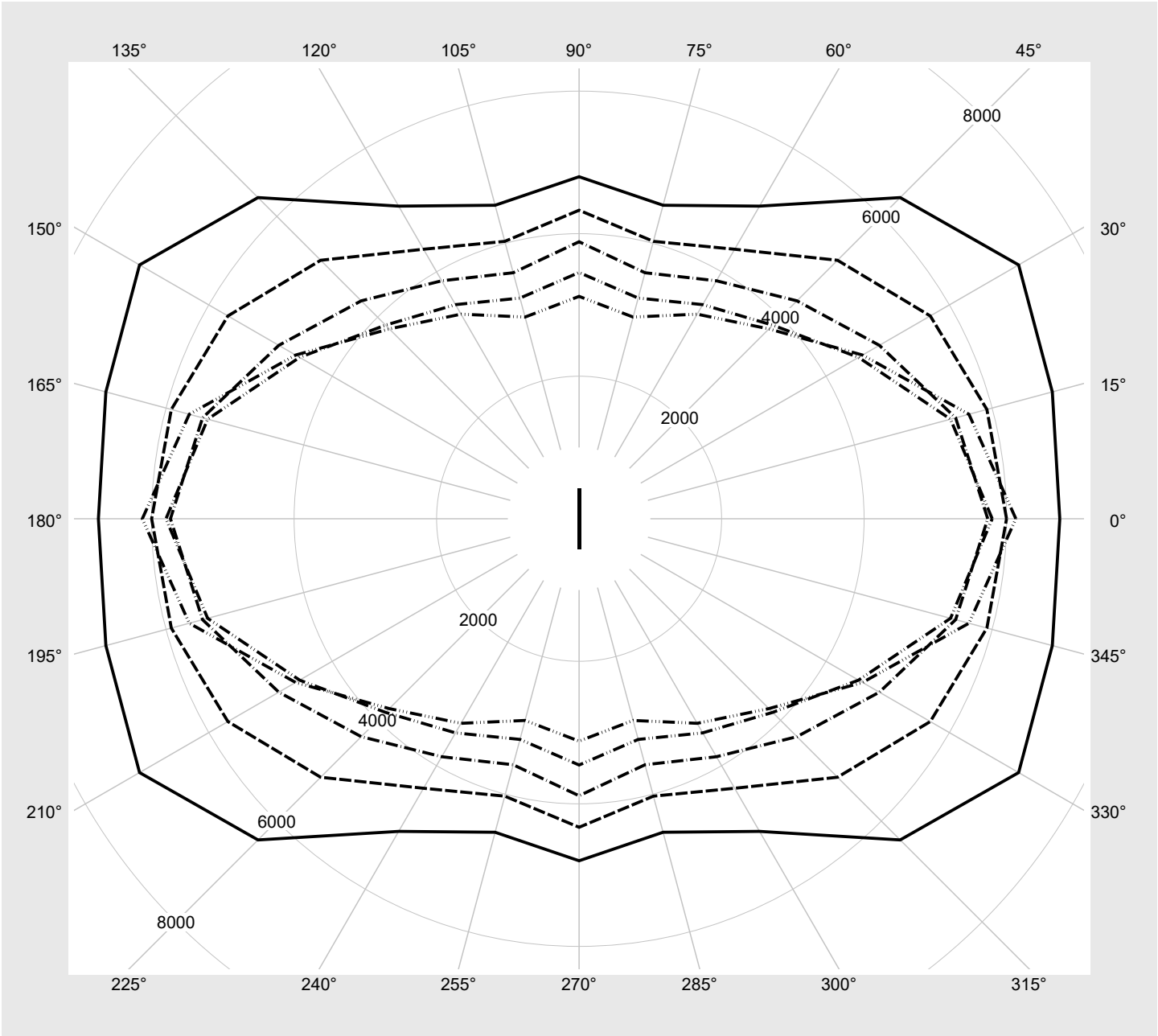
γ 70°

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	9110	50.4	60.5	55.4
2	A	C	F	8530	47.0	56.1	51.6
3	A	D	E	8010	43.9	52.6	48.2
4	A	D	F	7500	41.0	48.7	44.8
5	B	C	E	7050	38.4	45.6	42.0
6	B	C	F	6520	35.4	41.7	38.6
7	B	D	E	6060	32.8	38.8	35.8
8	B	D	F	5530	29.9	35.4	32.6