

Photometric test report

Family
Licross® Protected

Order number: 51TP12CN48XFD
EAN: 4058352418451

LP number
58524_42



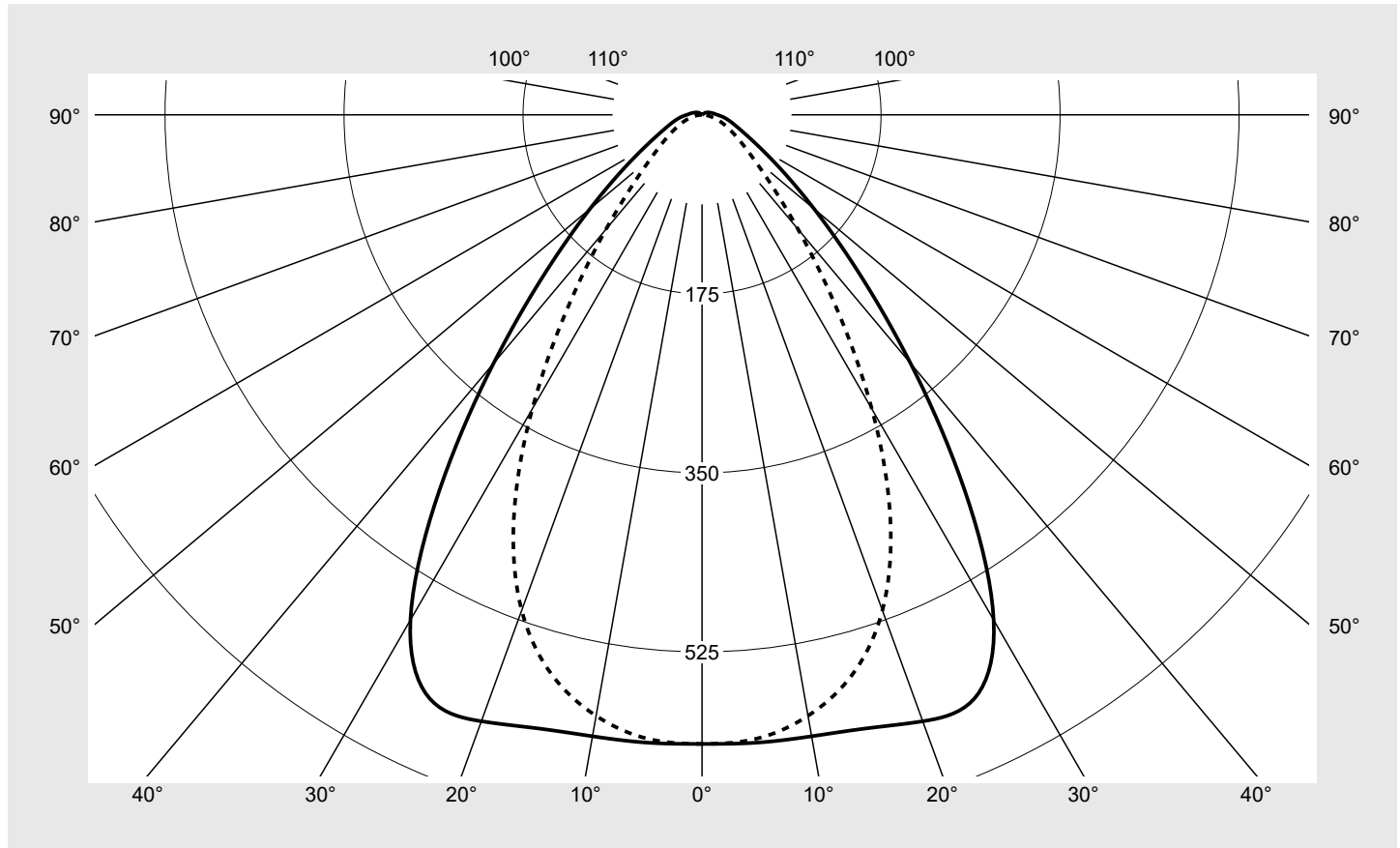
Version prismatic cover, frosted, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-Multilumen CLOi
Setting AC-mode
Rated values Net luminous flux = 8180 lm
Power consumption = 49.0 W
Luminous efficacy = 166.9 lm/W

serial
documentation
26.08.2020

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
		sITeco

C-planes γ	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
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
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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	20.6	22.0	20.9	22.3	22.6	17.3	18.7	17.7	19.1	19.4
	3H	21.0	22.2	21.4	22.6	22.9	17.7	18.9	18.0	19.3	19.6
	4H	21.2	22.4	21.6	22.7	23.1	17.8	19.0	18.2	19.4	19.7
	6H	21.5	22.6	21.9	22.9	23.3	17.9	19.0	18.4	19.4	19.8
	8H	21.8	22.7	22.2	23.0	23.5	18.0	19.0	18.5	19.4	19.8
	12H	21.9	22.8	22.4	23.2	23.6	18.1	19.0	18.5	19.4	19.8
4H	2H	20.6	21.8	21.0	22.2	22.5	17.8	19.0	18.2	19.4	19.7
	3H	21.2	22.2	21.6	22.6	23.0	18.3	19.3	18.7	19.7	20.1
	4H	21.5	22.4	22.0	22.8	23.2	18.5	19.4	19.0	19.8	20.3
	6H	21.9	22.7	22.4	23.1	23.6	18.7	19.5	19.2	19.9	20.4
	8H	22.2	22.8	22.6	23.3	23.8	18.8	19.5	19.3	19.9	20.4
	12H	22.5	23.0	22.9	23.5	24.0	18.9	19.5	19.4	19.9	20.4
8H	4H	21.5	22.2	22.0	22.7	23.1	18.8	19.4	19.2	19.9	20.4
	6H	22.0	22.6	22.5	23.1	23.6	19.1	19.6	19.5	20.1	20.6
	8H	22.3	22.8	22.8	23.3	23.8	19.2	19.7	19.7	20.2	20.7
	12H	22.7	23.1	23.3	23.6	24.2	19.3	19.7	19.8	20.2	20.7
12H	4H	21.5	22.1	22.0	22.6	23.1	18.8	19.4	19.3	19.9	20.4
	6H	22.0	22.5	22.5	23.0	23.5	19.2	19.6	19.7	20.1	20.6
	8H	22.4	22.8	22.9	23.3	23.8	19.3	19.7	19.8	20.2	20.8

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1480	H(C0) = 13	H(C180) = 13
			B = 78	H(C90) = 0	H(C270) = 0

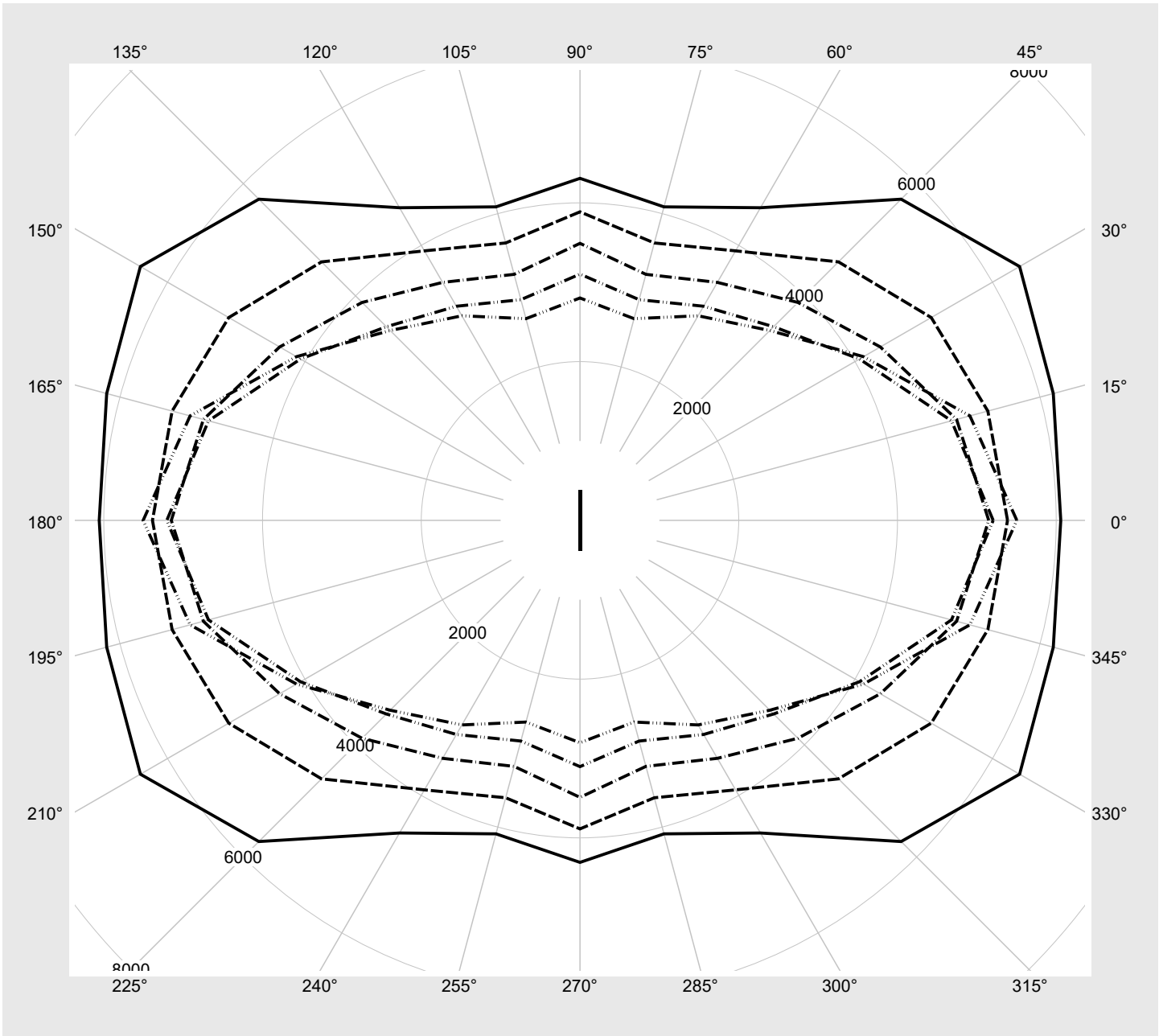
C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		18375.7	19529.6	21375.4	19244.9	13660.4	10146.4	9423.4	
50°		13157.4	14059.5	15702.3	14000.4	9797.8	7420.5	7061.7	
55°		9635.4	10251.9	11458.3	10055.8	7154.5	5779.4	5720.7	
60°		7372.7	7712.2	8415.0	7459.5	5542.4	4752.2	4883.8	
65°		6057.6	6173.9	6395.9	5722.4	4547.9	4088.9	4308.9	
70°		5386.8	5320.3	5110.2	4605.4	3920.7	3618.0	3886.9	
75°		5149.8	4912.5	4369.7	3882.6	3461.8	3208.7	3489.9	
80°		5206.1	4846.0	4066.3	3449.9	3114.9	2878.2	3102.5	
85°		5504.2	5086.1	4124.6	3382.6	2976.0	2630.6	2801.7	

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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



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Multilumen Table	environmental temperature: 25°C	sITeco
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]	Power consumption	Power consumption
	1	2	3			[W] end of lifetime	[W] average
1	A	C	E	8180	49.0	54.4	51.7
2	A	C	F	7550	44.8	49.8	47.3
3	A	D	E	7060	41.7	46.2	44.0
4	A	D	F	6500	38.1	42.1	40.1
5	B	C	E	6050	35.5	39.0	37.2
6	B	C	F	5550	32.5	35.5	34.0
7	B	D	E	5050	29.4	32.0	30.7
8	B	D	F	4540	26.4	29.0	27.7