

## Photometric test report

Family  
Licross® Protected

Order number: 51TP12CN48XF  
EAN: 4058352210413

LP number  
58524\_27



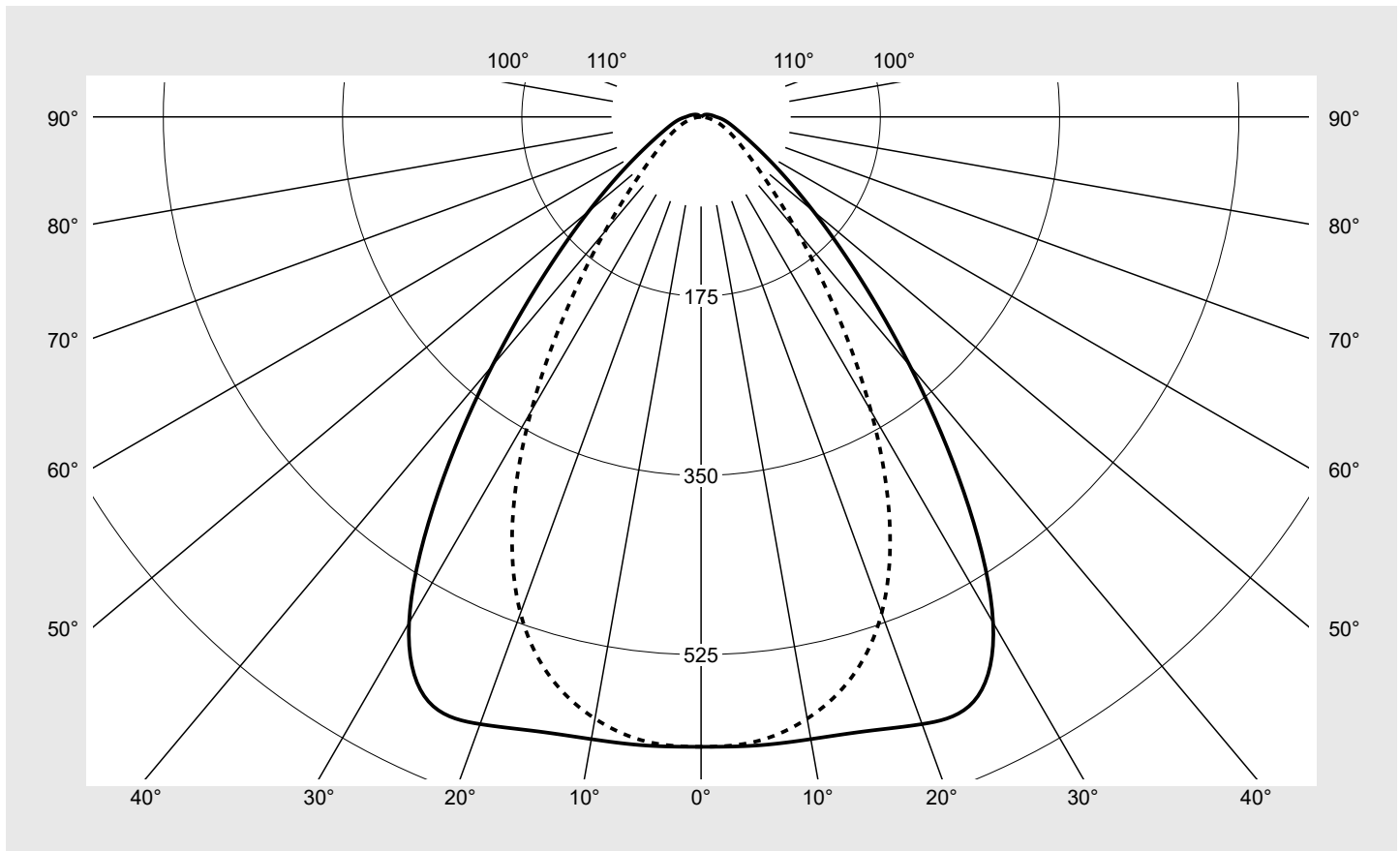
**Version** prismatic cover, frosted, wide distribution  
**Lamps** LED 4000 K | CRI ≥ 80  
**Controlgear** ECG-Multilumen CLOi  
**Rated values** Net luminous flux = 8180 lm  
Power consumption = 49.0 W  
Luminous efficacy = 166.9 lm/W

serial  
documentation  
12.12.2019

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

$\eta_{LB}$  100.0%  
 $\phi_u$  98.6%  
 $\phi_o$  1.4%

### Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
		<b>siteco</b>

C-planes $\gamma$	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	<b>siteco</b>	
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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

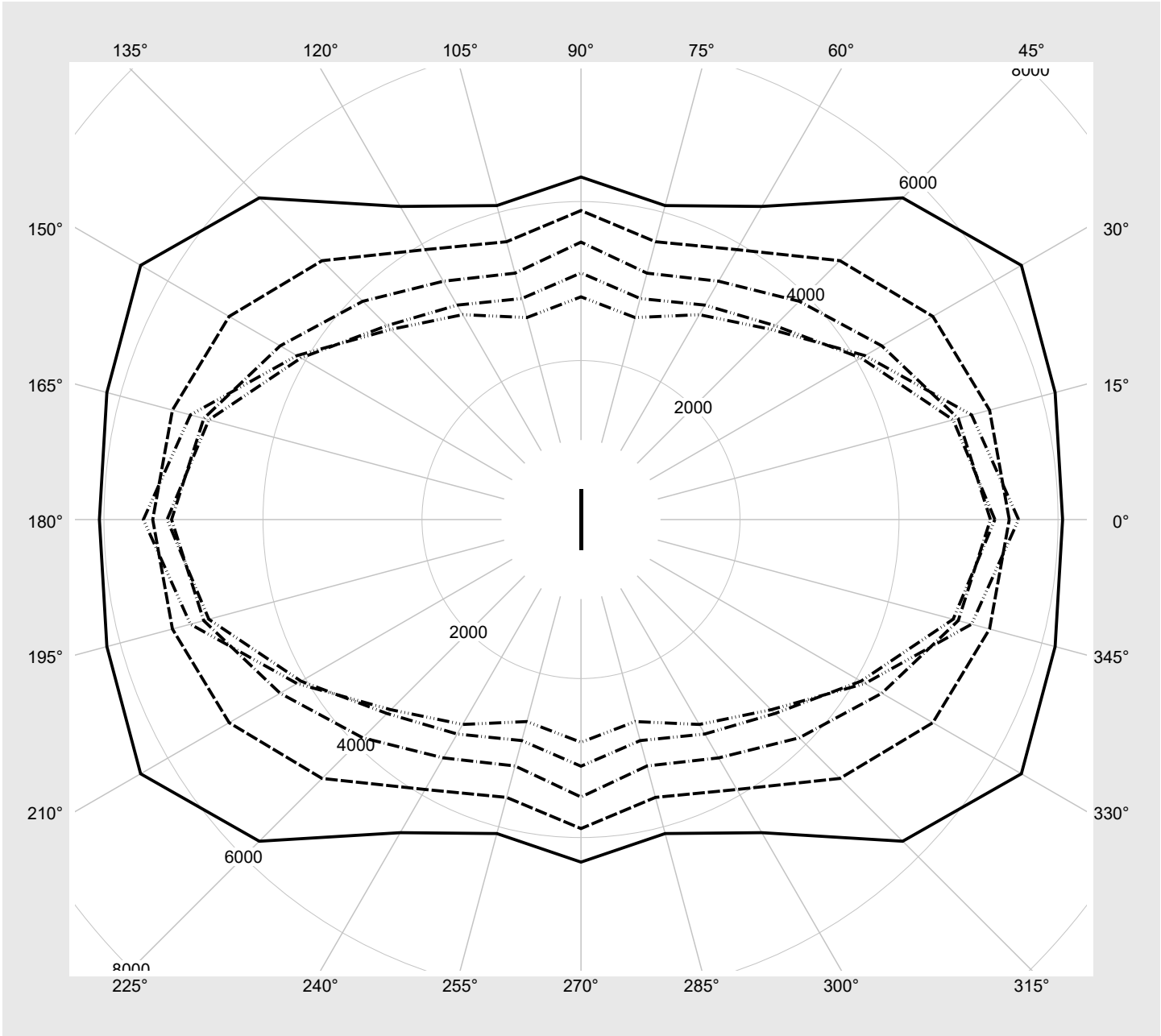
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1480	H(C0) = 13	H(C180) = 13
			B = 78	H(C90) = 0	H(C270) = 0

C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		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/m<sup>2</sup>**     γ 65°   γ 70°   γ 75°   γ 80°   γ 85°     **siteco**



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<b>Multilumen Table</b>	environmental temperature: 25°C	<b>siteco</b>
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]	Power consumption	Power consumption
	1	2	3			end of lifetime [W]	average [W]
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