



# Photometric test report

<b>Family</b> <b>Licross® Protected</b>	<b>Order number: 51TP12CN4DXL</b> <b>EAN: 4058352265062</b>	<b>LP number</b> <b>58523_12</b>
	<b>Version</b> prismatic cover, frosted, wide distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-Multilumen CLOi <b>Rated values</b> Net luminous flux = 13270 lm Power consumption = 78.7 W Luminous efficacy = 168.6 lm/W	<b>serial documentation</b> <b>12.12.2019</b>





**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 630 cd/klm**



Classifications	
DIN 5040	A 5 1
CIE	N1=70 N2=91 N3=97 N4=98 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	98.3%
$\phi_o$	1.7%

**Measurement conditions**  
DIN EN 13032 and DIN 5032

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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<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°	568.0	568.0	568.0	568.0	568.0	568.0	568.0	3.4	3.4
5°	570.0	568.0	563.9	564.4	565.6	564.2	564.6	27.0	30.4
10°	575.1	572.9	563.4	557.9	553.3	549.0	548.2	53.3	83.7
15°	590.1	586.0	566.8	548.5	532.2	519.9	516.5	78.2	161.9
20°	611.6	603.6	568.7	531.0	496.5	471.9	464.3	100.3	262.2
25°	630.0	617.6	564.2	499.9	441.6	401.0	387.5	117.1	379.3
30°	598.0	589.4	536.5	452.4	368.0	311.9	293.8	123.5	502.8
35°	487.1	490.1	463.2	383.1	284.6	222.1	203.0	114.7	617.4
40°	351.1	360.8	359.1	297.2	205.7	150.3	134.3	94.9	712.3
45°	241.7	250.7	257.1	211.9	140.4	100.6	89.9	72.8	785.1
50°	168.3	174.0	178.9	144.5	94.4	69.8	63.7	54.4	839.5
55°	118.9	121.8	123.3	97.4	64.6	50.4	47.5	40.5	880.0
60°	85.1	85.8	84.4	66.1	45.7	37.4	36.1	30.1	910.0
65°	63.8	62.6	58.2	45.7	33.4	28.1	27.2	22.6	932.7
70°	50.4	47.7	40.8	32.1	24.8	20.7	19.9	17.3	949.9
75°	41.3	37.6	29.5	22.7	17.9	14.5	13.5	13.2	963.2
80°	34.0	30.0	21.9	15.9	12.4	9.4	8.0	10.0	973.1
85°	27.2	23.7	16.4	11.2	8.0	5.3	3.6	7.3	980.4
90°	20.7	17.9	12.0	7.4	4.6	2.2	0.4	5.0	985.4
95°	16.6	14.7	10.2	6.3	3.6	1.3	0.3	4.0	989.4
100°	13.2	11.9	8.5	5.2	2.7	0.8	0.3	3.2	992.6
105°	10.4	9.5	6.9	4.1	1.9	0.4	0.3	2.5	995.1
110°	8.2	7.4	5.5	3.1	1.2	0.3	0.3	1.9	997.0
115°	6.5	5.8	4.2	2.2	0.7	0.4	0.4	1.4	998.4
120°	4.9	4.3	3.0	1.4	0.6	0.5	0.5	1.0	999.4
125°	3.5	3.0	2.0	0.9	0.6	0.5	0.5	0.7	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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<b>UGR-Table</b>	<b>Standard room</b>	<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	23.0	24.4	23.3	24.7	25.0	18.8	20.2	19.1	20.5	20.9
	3H	23.6	24.8	23.9	25.2	25.5	19.2	20.5	19.6	20.9	21.2
	4H	23.9	25.1	24.3	25.4	25.8	19.4	20.6	19.8	21.0	21.4
	6H	24.3	25.4	24.7	25.7	26.1	19.5	20.7	20.0	21.1	21.5
	8H	24.6	25.5	25.0	25.9	26.3	19.6	20.7	20.1	21.1	21.5
	12H	24.8	25.7	25.3	26.1	26.5	19.7	20.7	20.1	21.1	21.5
4H	2H	23.0	24.2	23.4	24.6	24.9	19.5	20.6	19.9	21.0	21.4
	3H	23.7	24.8	24.2	25.1	25.6	20.0	21.0	20.4	21.4	21.8
	4H	24.2	25.1	24.6	25.5	25.9	20.3	21.2	20.7	21.6	22.0
	6H	24.7	25.5	25.2	26.0	26.4	20.5	21.3	21.0	21.7	22.2
	8H	25.1	25.8	25.5	26.2	26.7	20.6	21.3	21.0	21.7	22.2
	12H	25.5	26.0	25.9	26.5	27.0	20.6	21.3	21.1	21.7	22.2
8H	4H	24.2	24.9	24.7	25.4	25.8	20.6	21.3	21.1	21.7	22.2
	6H	24.8	25.4	25.3	25.9	26.4	20.9	21.5	21.4	22.0	22.5
	8H	25.3	25.8	25.8	26.3	26.8	21.0	21.6	21.5	22.1	22.6
	12H	25.8	26.2	26.3	26.7	27.2	21.2	21.6	21.7	22.1	22.6
12H	4H	24.2	24.8	24.7	25.3	25.8	20.7	21.3	21.2	21.7	22.2
	6H	24.9	25.4	25.4	25.9	26.4	21.1	21.5	21.6	22.0	22.5
	8H	25.3	25.7	25.8	26.2	26.8	21.2	21.6	21.7	22.2	22.7

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

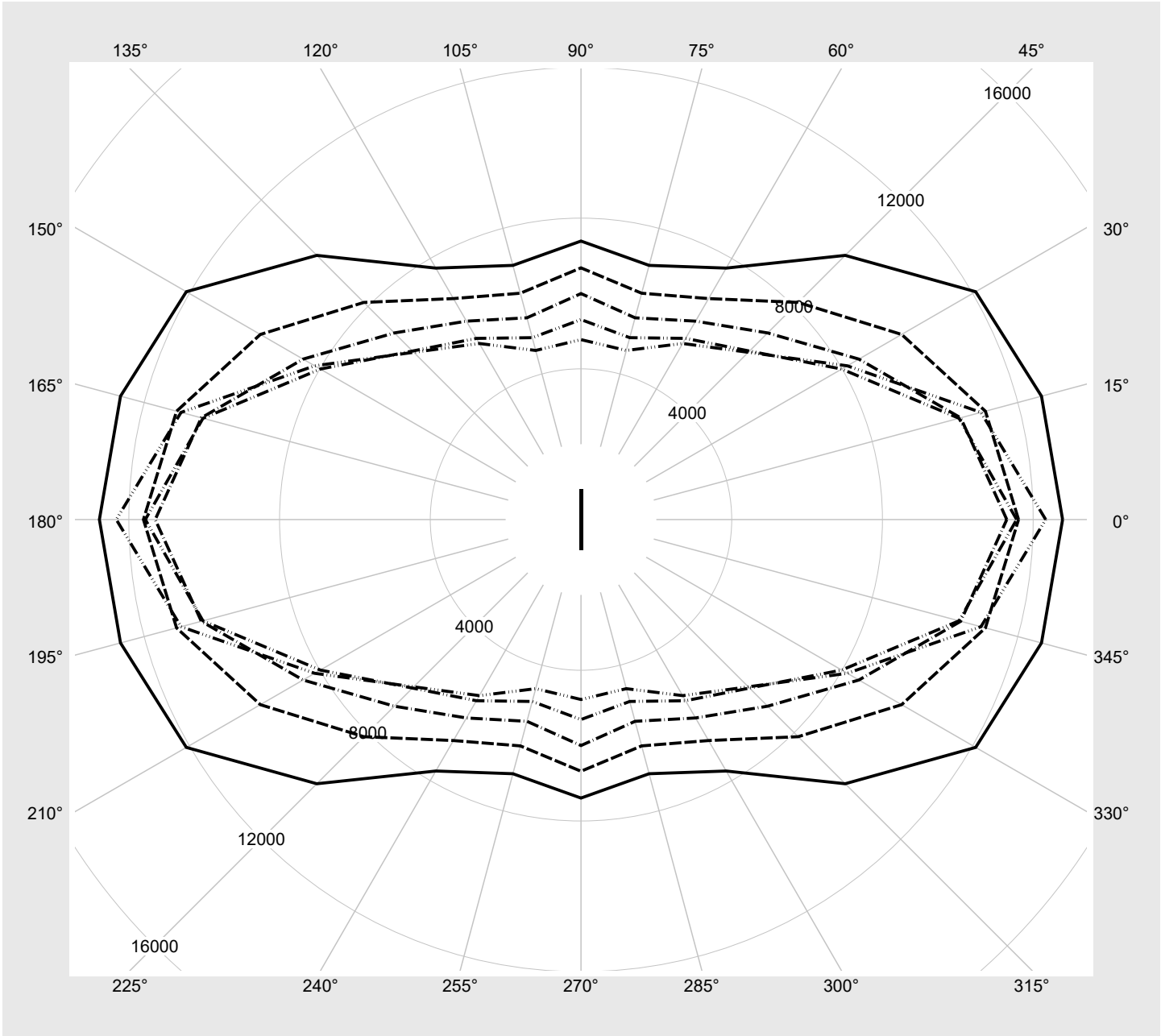
C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		33680.4	35098.2	36529.2	30810.6	21067.0	15678.6	14620.2	
50°		25111.7	26111.1	27304.9	22658.6	15353.9	11864.0	11394.7	
55°		19244.0	19854.2	20494.9	16705.1	11567.3	9509.1	9524.4	
60°		15180.8	15432.4	15518.8	12624.5	9178.5	7996.3	8290.8	
65°		12781.4	12652.2	12094.5	9915.8	7706.4	6984.0	7391.6	
70°		11612.1	11111.6	9826.1	8150.3	6772.5	6219.1	6679.9	
75°		11300.0	10432.2	8516.6	7005.3	6080.4	5543.6	5997.6	
80°		11562.4	10386.8	7988.9	6324.7	5552.1	4997.9	5307.7	
85°		12332.9	10988.9	8161.0	6278.1	5395.9	4646.5	4775.8	

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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°



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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	13270	78.7	87.9	83.3
2	A	C	F	12060	70.6	78.8	74.7
3	A	D	E	11030	64.0	71.2	67.6
4	A	D	F	10050	57.8	64.0	60.9
5	B	C	E	9060	51.7	57.0	54.4
6	B	C	F	8060	45.7	50.4	48.0
7	B	D	E	7040	39.7	43.5	41.6
8	B	D	F	6080	34.2	37.6	35.9