



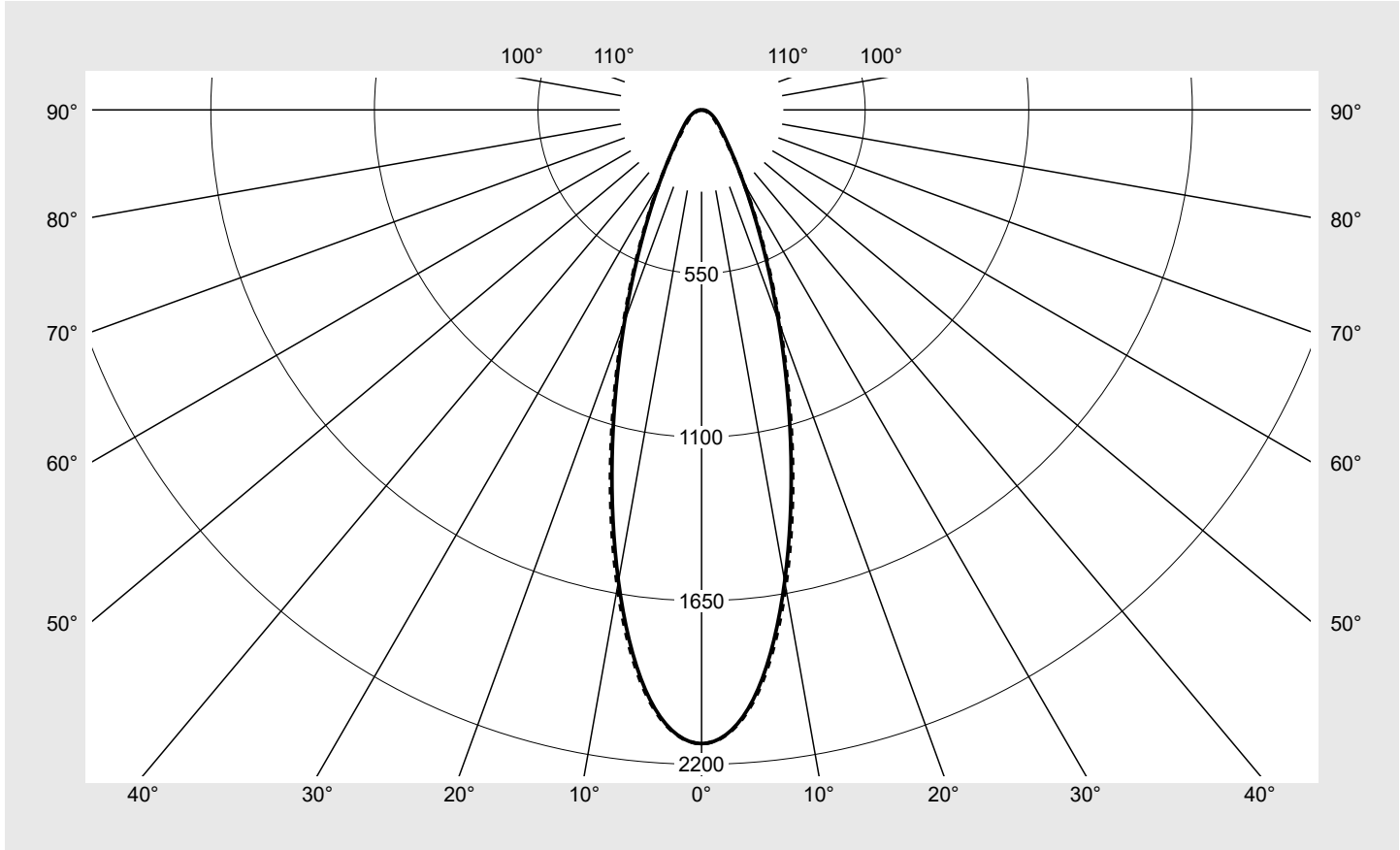
# Photometric test report

<b>Family</b> <b>Licross® 11 Protected</b>	<b>Order number: 51TP11CN4EXS</b> <b>EAN: 4058352930120</b>	<b>LP number</b> <b>58525_203</b>
	<b>Version</b> prismatic cover, frosted, narrow distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-Multilumen CLOi <b>Rated values</b> Net luminous flux = 14460 lm Power consumption = 77.6 W Luminous efficacy = 186.3 lm/W	<b>serial documentation</b> <b>12.10.2023</b>





**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 2130 cd/klm**



Classifications	
DIN 5040	A 7 1
CIE	N1=84 N2=94 N3=98 N4=99 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	99.1%
$\phi_o$	0.9%

**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 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°	2130.5	2130.5	2130.5	2130.5	2130.5	2130.5	2130.5	12.7	12.7
5°	1990.0	1982.4	1972.8	1980.9	1991.5	1994.0	1997.3	94.9	107.6
10°	1609.4	1602.7	1594.9	1604.0	1616.7	1623.6	1628.9	153.3	260.9
15°	1156.5	1152.7	1146.1	1151.7	1161.7	1170.4	1176.7	164.3	425.2
20°	757.1	754.5	751.0	754.8	760.5	766.7	772.3	142.2	567.4
25°	464.1	463.3	461.4	464.7	468.5	471.4	475.4	108.1	675.5
30°	281.8	280.0	276.3	277.8	280.6	282.2	284.6	76.7	752.2
35°	178.8	175.8	169.5	168.1	169.9	172.0	174.0	54.1	806.3
40°	123.8	119.7	111.6	107.8	108.9	112.2	115.0	39.9	846.2
45°	92.5	87.9	79.0	74.1	74.5	78.8	82.8	31.1	877.3
50°	72.9	68.3	60.1	54.9	54.7	59.1	63.7	25.6	902.9
55°	58.5	54.5	47.8	42.9	42.0	45.8	50.2	21.5	924.4
60°	46.6	43.5	38.6	34.6	32.9	35.6	39.1	18.0	942.5
65°	36.7	34.5	31.1	28.0	26.1	27.3	29.5	14.9	957.4
70°	28.5	27.0	24.6	22.5	20.4	20.1	21.2	12.0	969.4
75°	21.8	20.7	19.0	17.5	15.4	14.0	14.0	9.2	978.6
80°	16.2	15.4	14.3	12.9	10.9	8.9	8.1	6.7	985.3
85°	11.7	11.2	10.3	9.1	7.1	4.7	3.5	4.6	989.8
90°	8.1	7.7	6.9	5.8	3.9	1.7	0.3	2.8	992.6
95°	6.9	6.6	5.8	4.7	3.0	1.1	0.2	2.3	994.8
100°	6.0	5.6	4.9	3.8	2.2	0.6	0.2	1.8	996.7
105°	5.1	4.8	4.0	2.9	1.5	0.3	0.2	1.4	998.1
110°	4.3	4.0	3.2	2.2	0.9	0.2	0.2	1.1	999.2
115°	3.6	3.2	2.5	1.6	0.5	0.3	0.3	0.8	1000.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	17.3	18.6	17.7	18.9	19.2	17.0	18.2	17.3	18.5	18.8
	3H	18.4	19.5	18.8	19.8	20.2	17.9	19.0	18.3	19.3	19.7
	4H	18.9	19.9	19.3	20.3	20.6	18.3	19.3	18.7	19.6	20.0
	6H	19.4	20.3	19.8	20.7	21.0	18.6	19.4	19.0	19.8	20.2
	8H	19.7	20.4	20.1	20.8	21.2	18.7	19.5	19.2	19.9	20.3
	12H	19.9	20.6	20.3	21.0	21.4	18.8	19.5	19.2	19.9	20.3
4H	2H	17.6	18.6	18.0	18.9	19.3	17.3	18.3	17.7	18.6	19.0
	3H	18.9	19.7	19.3	20.1	20.5	18.4	19.2	18.8	19.6	20.0
	4H	19.5	20.2	20.0	20.7	21.1	18.8	19.6	19.3	20.0	20.4
	6H	20.1	20.8	20.6	21.2	21.7	19.2	19.9	19.7	20.3	20.8
	8H	20.4	21.0	20.9	21.4	21.9	19.4	19.9	19.9	20.4	20.9
	12H	20.7	21.2	21.2	21.7	22.2	19.5	20.0	20.0	20.4	20.9
8H	4H	19.7	20.2	20.2	20.7	21.2	19.1	19.6	19.6	20.1	20.6
	6H	20.5	20.9	21.0	21.4	21.9	19.6	20.1	20.1	20.5	21.1
	8H	20.8	21.2	21.3	21.7	22.3	19.8	20.2	20.3	20.7	21.2
	12H	21.2	21.6	21.8	22.1	22.6	20.0	20.3	20.5	20.8	21.4
12H	4H	19.7	20.2	20.2	20.6	21.1	19.2	19.6	19.6	20.1	20.6
	6H	20.5	20.9	21.0	21.4	21.9	19.7	20.1	20.2	20.6	21.1
	8H	20.9	21.3	21.5	21.8	22.3	20.0	20.3	20.5	20.8	21.3

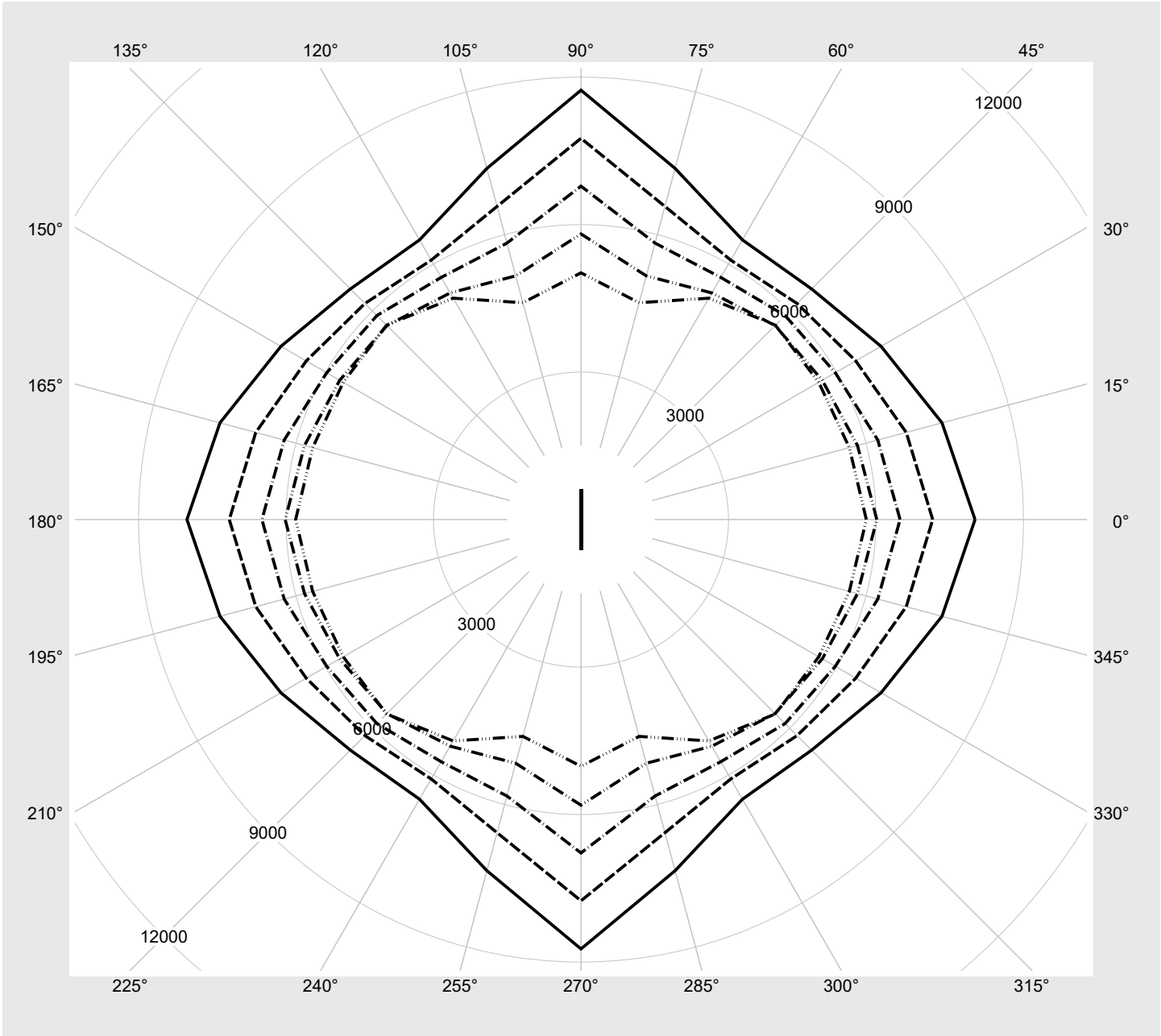
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1480</b>	<b>H(C0) = 13</b>	<b>H(C180) = 13</b>
			<b>B = 78</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

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°		14049.4	13405.0	12232.0	11744.6	12186.3	13385.1	14658.9	
50°		11853.1	11169.6	9999.3	9387.0	9688.4	10959.6	12404.8	
55°		10325.8	9683.3	8653.4	8022.2	8191.2	9428.6	10964.8	
60°		9068.4	8529.5	7735.8	7189.0	7212.1	8304.1	9795.3	
65°		8015.1	7602.1	7047.5	6634.1	6568.5	7394.9	8733.7	
70°		7154.1	6848.6	6452.9	6215.6	6093.3	6594.8	7755.0	
75°		6490.6	6250.0	5972.1	5870.2	5687.6	5821.4	6781.8	
80°		6017.1	5822.0	5667.0	5582.3	5323.1	5132.0	5809.7	
85°		5803.7	5650.4	5583.8	5591.9	5199.7	4566.5	5018.7	

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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	14460	77.6	87.4	82.5
2	A	C	F	13204	70.1	79.0	74.6
3	A	D	E	12224	64.3	74.9	69.6
4	A	D	F	11148	58.3	65.2	61.8
5	B	C	E	10148	52.6	58.7	55.6
6	B	C	F	9136	47.0	52.2	49.6
7	B	D	E	8114	41.5	46.2	43.8
8	B	D	F	7070	36.0	39.9	38.0