



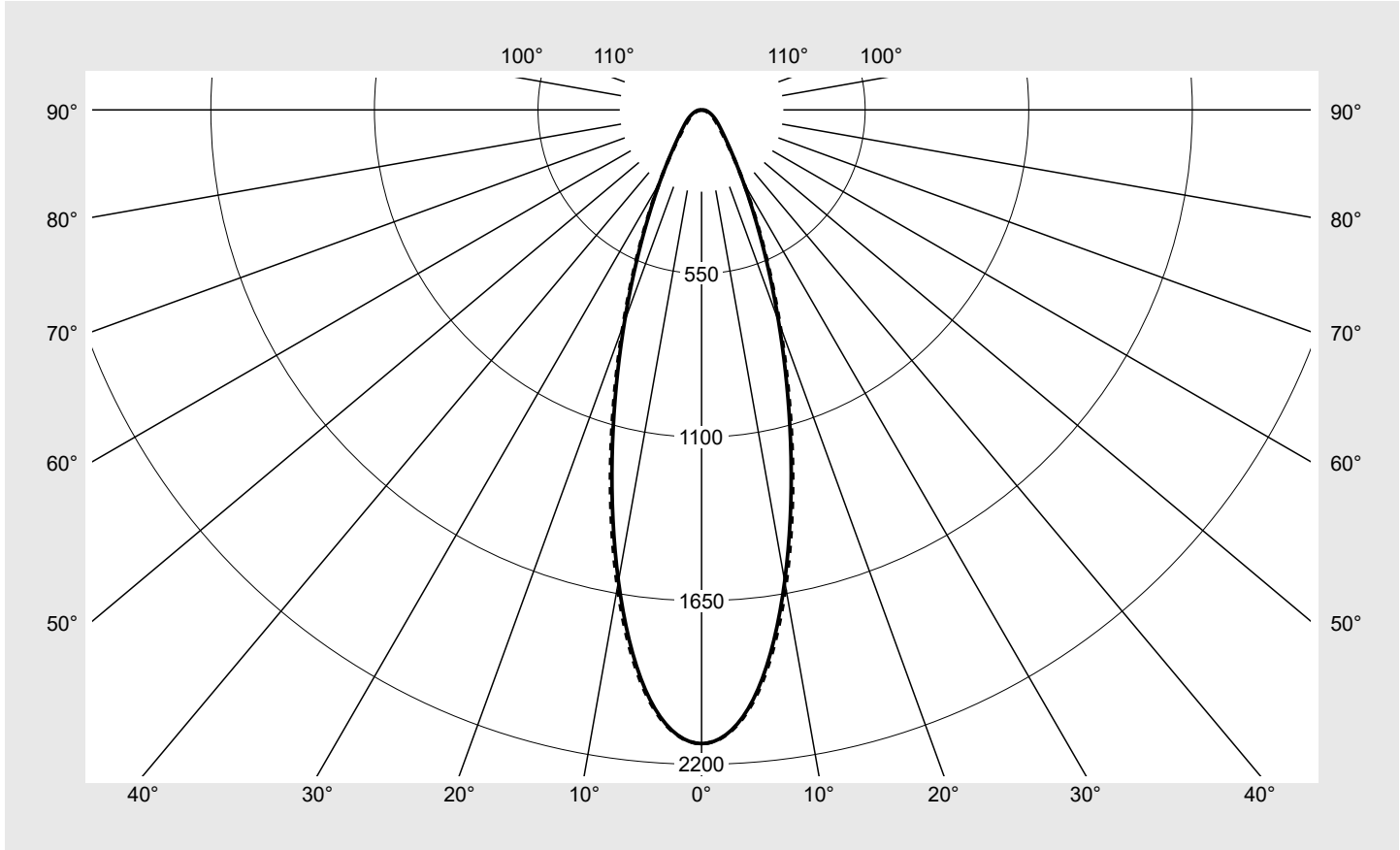
# Photometric test report

<b>Family</b> <b>Licross® 11 Protected</b>	<b>Order number: 51TP11MN4GXS</b> <b>EAN: 4058352930205</b>	<b>LP number</b> <b>58525_201</b>
	<b>Version</b> prismatic cover, frosted, narrow distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG Multilumen <b>Rated values</b> Net luminous flux = 16070 lm Power consumption = 87.4 W Luminous efficacy = 183.9 lm/W	<b>serial documentation</b> <b>11.10.2023</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	17.7	18.9	18.1	19.2	19.5	17.3	18.6	17.7	18.9	19.2
	3H	18.8	19.9	19.2	20.2	20.5	18.3	19.3	18.6	19.7	20.0
	4H	19.3	20.3	19.7	20.6	21.0	18.6	19.6	19.0	20.0	20.4
	6H	19.8	20.6	20.2	21.0	21.4	18.9	19.8	19.3	20.2	20.6
	8H	20.1	20.8	20.5	21.2	21.6	19.1	19.9	19.5	20.2	20.6
	12H	20.3	21.0	20.7	21.3	21.8	19.2	19.8	19.6	20.2	20.7
4H	2H	18.0	19.0	18.4	19.3	19.7	17.6	18.6	18.0	19.0	19.4
	3H	19.2	20.1	19.7	20.5	20.9	18.7	19.6	19.2	19.9	20.4
	4H	19.9	20.6	20.3	21.0	21.5	19.2	19.9	19.7	20.4	20.8
	6H	20.5	21.1	21.0	21.6	22.0	19.6	20.2	20.1	20.7	21.1
	8H	20.8	21.3	21.3	21.8	22.3	19.8	20.3	20.2	20.8	21.2
	12H	21.1	21.6	21.6	22.0	22.5	19.9	20.3	20.4	20.8	21.3
8H	4H	20.1	20.6	20.5	21.1	21.5	19.5	20.0	19.9	20.5	20.9
	6H	20.8	21.3	21.3	21.7	22.3	20.0	20.4	20.5	20.9	21.4
	8H	21.2	21.6	21.7	22.1	22.6	20.2	20.6	20.7	21.1	21.6
	12H	21.6	21.9	22.1	22.4	23.0	20.3	20.7	20.9	21.2	21.7
12H	4H	20.1	20.5	20.6	21.0	21.5	19.5	20.0	20.0	20.4	20.9
	6H	20.9	21.3	21.4	21.7	22.3	20.1	20.4	20.6	20.9	21.5
	8H	21.3	21.6	21.8	22.1	22.7	20.3	20.6	20.8	21.2	21.7

<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°	45°	15613.7	14897.5	13594.0	13052.2	13543.2	14875.4	16291.0	
50°	50°	13172.8	12413.2	11112.6	10432.1	10767.1	12179.9	13786.0	
55°	55°	11475.4	10761.4	9616.9	8915.4	9103.2	10478.4	12185.7	
60°	60°	10078.1	9479.2	8597.2	7989.4	8015.2	9228.7	10885.9	
65°	65°	8907.6	8448.5	7832.2	7372.8	7299.8	8218.3	9706.2	
70°	70°	7950.6	7611.1	7171.4	6907.7	6771.8	7329.0	8618.5	
75°	75°	7213.2	6945.9	6637.0	6523.7	6320.9	6469.6	7536.9	
80°	80°	6687.0	6470.2	6297.9	6203.8	5915.8	5703.4	6456.6	
85°	85°	6449.9	6279.5	6205.5	6214.5	5778.6	5075.0	5577.5	

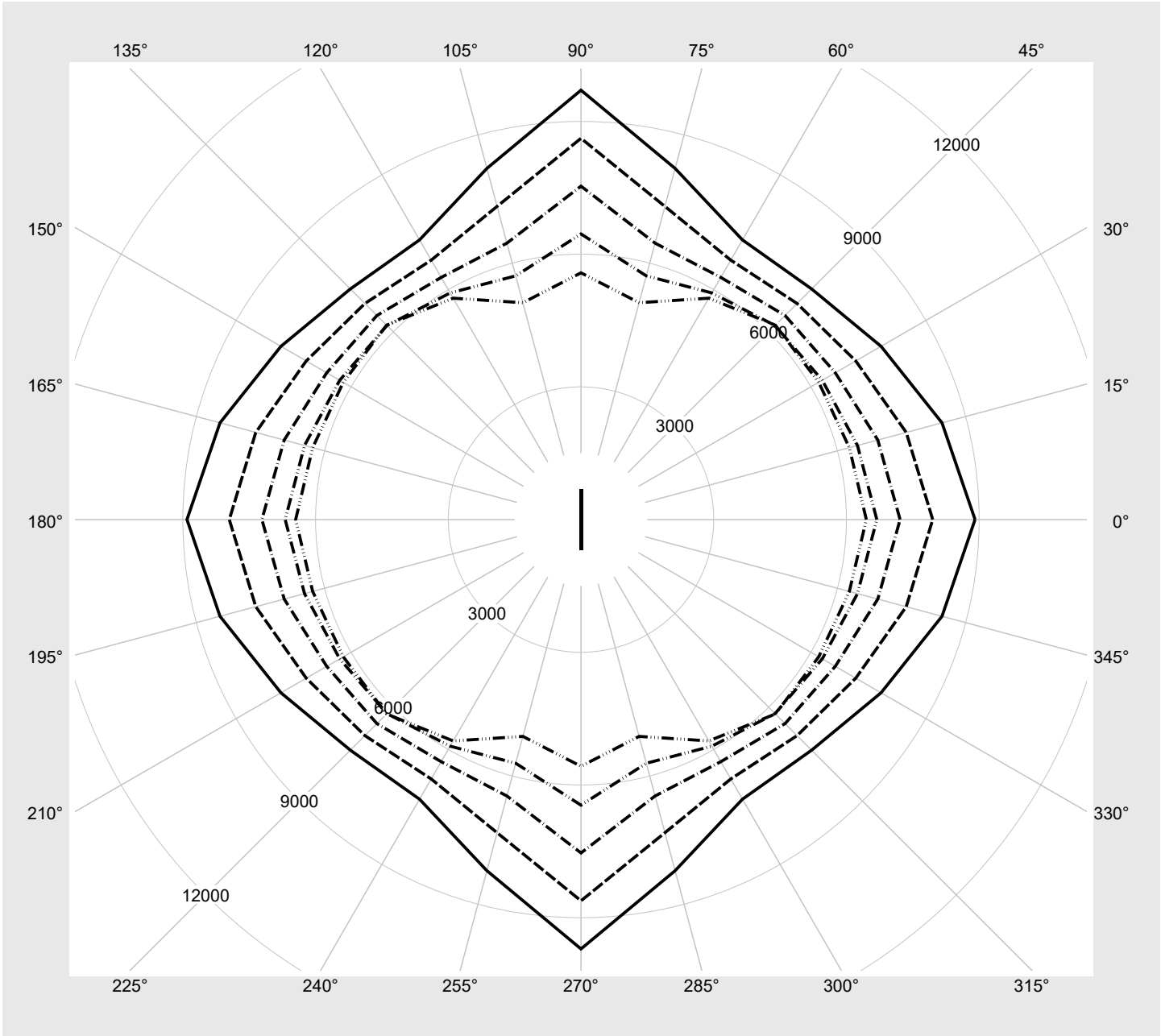
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  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]
	1	2	3		
1	A	C	E	16070	87.4
2	A	C	F	15271	82.6
3	A	D	E	14238	76.2
4	A	D	F	13205	70.1
5	B	C	E	12226	64.3
6	B	C	F	11150	58.3
7	B	D	E	10149	52.6
8	B	D	F	9137	47.0