



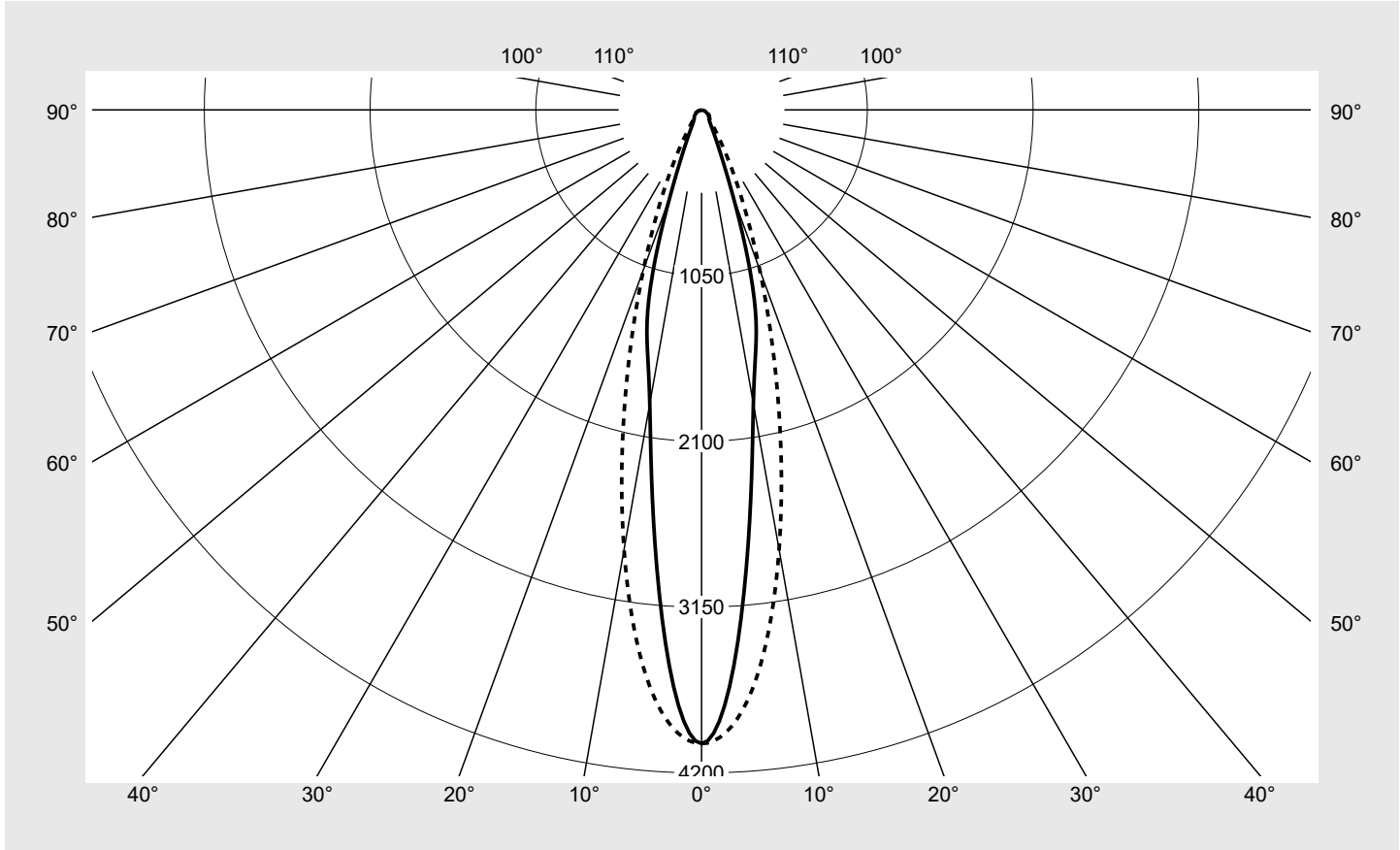
# Photometric test report

<b>Family</b> <b>Licross® 11 Protected</b>	<b>Order number: 51TP13MN4GXS</b> <b>EAN: 4058352930366</b>	<b>LP number</b> <b>58527_94</b>
	<b>Version</b> prismatic cover, frosted, extremely narrow distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG Multilumen <b>Rated values</b> Net luminous flux = 16110 lm Power consumption = 87.4 W Luminous efficacy = 184.3 lm/W	<b>serial documentation</b> <b>11.10.2023</b>





**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 4014 cd/klm**



Classifications	
DIN 5040	A 8 1
CIE	N1=89 N2=96 N3=99 N4=100 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	99.7%
$\phi_o$	0.3%

**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°	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	24.0	24.0
5°	3075.0	3073.4	3140.6	3286.7	3470.0	3619.0	3684.9	159.0	183.0
10°	1889.9	1876.2	1856.5	1927.7	2182.7	2591.5	2828.1	203.0	386.0
15°	1318.5	1331.1	1324.1	1227.2	1167.4	1498.4	1861.2	192.4	578.4
20°	585.4	606.8	689.8	798.0	693.5	737.0	1075.9	136.1	714.5
25°	239.7	246.3	276.4	361.8	426.5	351.4	567.8	79.8	794.2
30°	128.7	127.4	129.3	152.0	214.6	178.7	273.1	45.8	840.1
35°	88.6	83.8	76.3	80.1	101.4	103.4	134.8	29.2	869.2
40°	73.1	66.6	55.1	52.3	60.4	70.8	85.4	22.6	891.8
45°	65.6	58.2	44.9	39.5	42.7	55.1	71.6	20.0	911.8
50°	58.1	50.6	38.4	32.4	32.8	44.4	65.0	18.2	930.0
55°	47.1	41.7	33.1	27.2	26.3	35.1	57.2	16.1	946.1
60°	37.8	33.0	27.8	22.9	21.3	27.1	47.5	13.8	959.9
65°	30.0	25.5	22.6	19.4	17.3	20.3	35.6	11.4	971.3
70°	23.9	19.8	17.3	16.1	13.9	14.7	23.4	9.1	980.4
75°	19.2	15.7	12.9	12.9	10.8	10.0	13.4	6.9	987.3
80°	14.6	12.1	9.7	9.6	7.9	6.2	6.6	5.0	992.4
85°	10.5	9.0	7.3	6.7	5.6	3.2	2.3	3.5	995.8
90°	7.5	6.5	5.5	4.5	3.7	1.4	0.2	2.3	998.2
95°	6.1	5.4	4.5	3.6	2.8	0.8	0.2	1.8	1000.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	15.1	16.2	15.5	16.5	16.9	15.7	16.8	16.0	17.1	17.4
	3H	16.8	17.5	17.1	17.8	18.2	17.2	17.9	17.6	18.3	18.6
	4H	17.2	18.1	17.6	18.4	18.8	17.4	18.3	17.8	18.6	19.0
	6H	17.6	18.6	18.0	19.0	19.4	17.4	18.4	17.8	18.8	19.2
	8H	18.2	18.9	18.7	19.3	19.7	17.6	18.4	18.0	18.8	19.2
	12H	18.2	19.1	18.7	19.5	19.9	17.6	18.4	18.0	18.8	19.2
4H	2H	15.4	16.3	15.8	16.6	17.0	15.8	16.7	16.2	17.1	17.5
	3H	16.9	17.6	17.3	18.0	18.4	17.2	17.9	17.6	18.3	18.7
	4H	17.7	18.3	18.1	18.7	19.2	17.7	18.3	18.1	18.8	19.2
	6H	18.2	19.0	18.7	19.4	19.9	17.8	18.6	18.2	19.0	19.4
	8H	18.9	19.4	19.3	19.8	20.3	18.2	18.6	18.6	19.1	19.6
	12H	19.0	19.6	19.5	20.1	20.6	17.9	18.6	18.4	19.0	19.5
8H	4H	17.8	18.3	18.3	18.8	19.3	17.8	18.3	18.3	18.8	19.3
	6H	19.1	19.2	19.6	19.7	20.2	18.3	18.7	18.8	19.2	19.7
	8H	19.2	19.6	19.7	20.0	20.6	18.5	18.8	19.0	19.3	19.8
	12H	19.4	19.9	19.9	20.4	21.0	18.3	18.8	18.8	19.3	19.9
12H	4H	17.6	18.2	18.1	18.7	19.2	17.6	18.3	18.1	18.7	19.2
	6H	18.5	19.1	19.0	19.6	20.1	18.1	18.7	18.6	19.1	19.7
	8H	19.0	19.5	19.5	20.0	20.6	18.3	18.8	18.8	19.3	19.9

<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°		11105.4	9887.4	7747.6	6973.4	7787.1	10433.6	14134.2	
50°		10514.5	9210.6	7110.1	6166.4	6471.6	9171.3	14111.0	
55°		9265.8	8243.6	6678.0	5658.4	5715.3	8041.8	13909.4	
60°		8189.2	7193.7	6211.8	5307.3	5201.0	7030.4	13245.5	
65°		7302.8	6251.3	5697.5	5112.6	4859.1	6141.4	11766.1	
70°		6688.3	5610.7	5043.6	4972.6	4611.9	5354.8	9539.6	
75°		6370.2	5274.3	4510.0	4826.3	4422.1	4646.1	7234.3	
80°		6013.3	5096.7	4292.7	4609.9	4319.5	3993.6	5265.5	
85°		5804.5	5057.1	4426.9	4597.5	4553.0	3438.2	3681.1	

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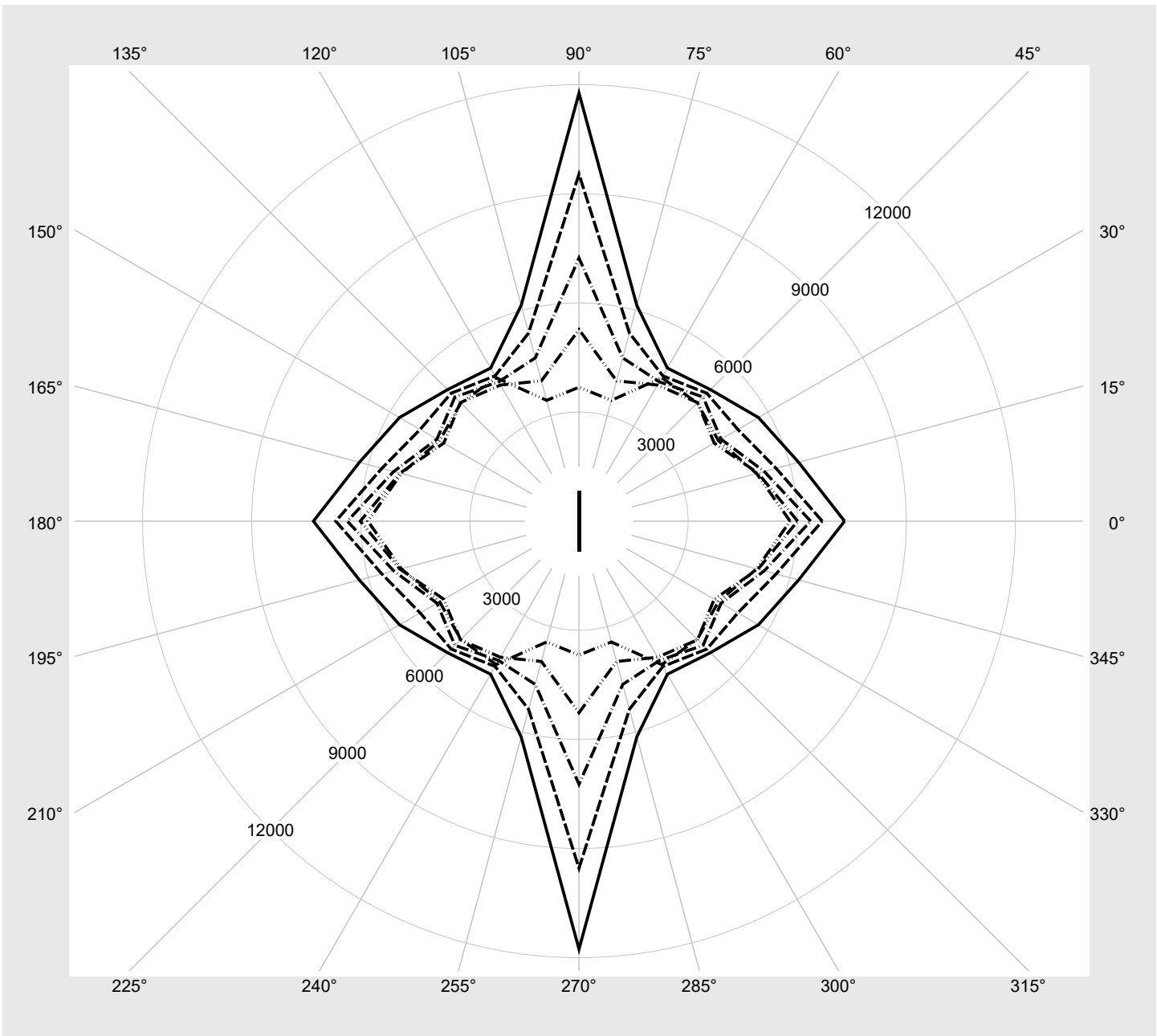
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**LP number**  
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**Luminance values in cd/m<sup>2</sup>**

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



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<b>Multilumen Table</b>	environmental temperature: 25°C	
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	16110	87.4
2	A	C	F	15310	82.6
3	A	D	E	14280	76.2
4	A	D	F	13240	70.1
5	B	C	E	12260	64.3
6	B	C	F	11180	58.3
7	B	D	E	10180	52.6
8	B	D	F	9160	47.0