


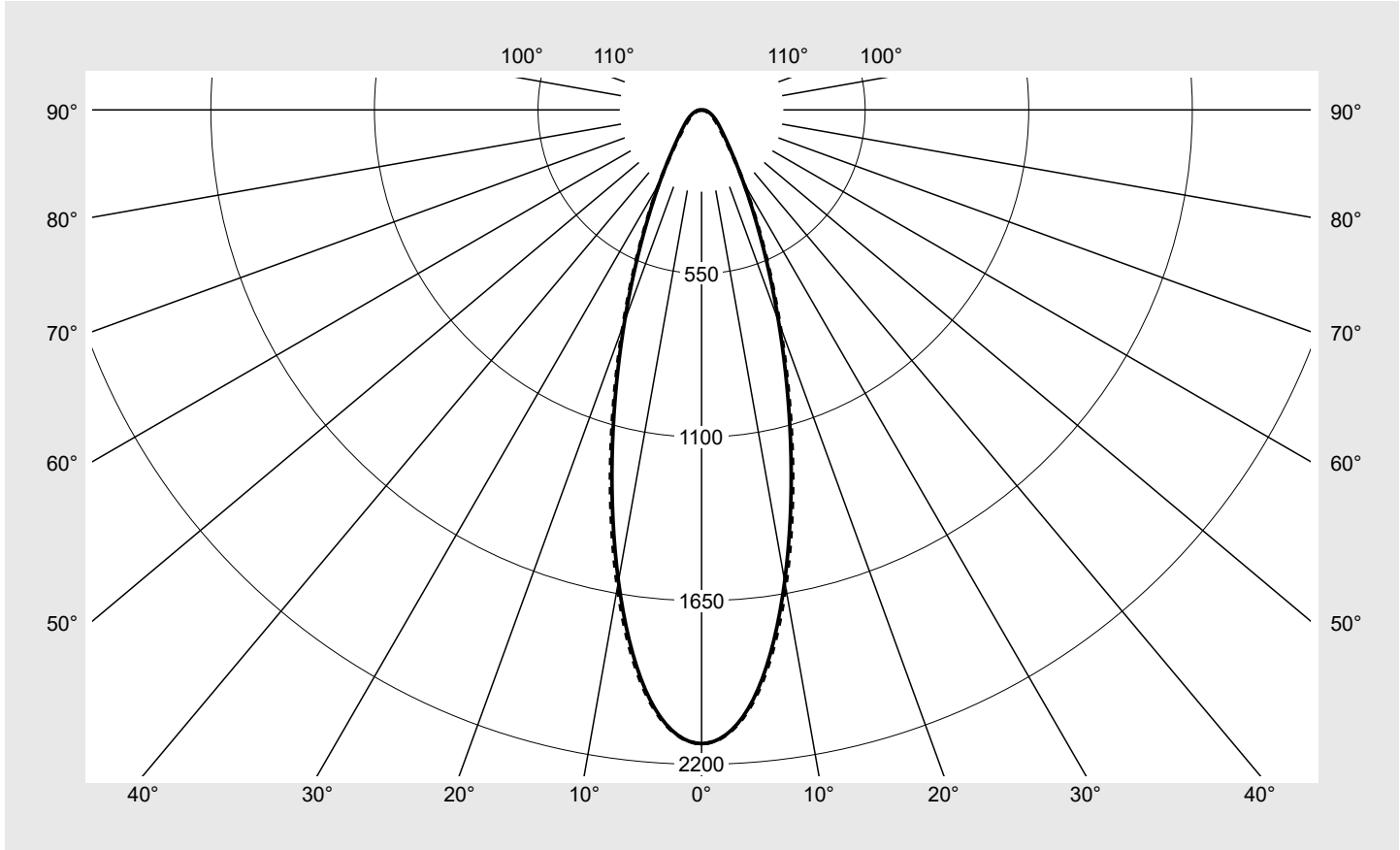
# Photometric test report

<b>Family</b> <b>Licross® 11 Protected</b>	<b>Order number: 51TP11DN4F5S</b> <b>EAN: 4058352930175</b>	<b>LP number</b> <b>58525_183</b>
	<b>Version</b> prismatic cover, frosted, narrow distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 15510 lm Power consumption = 87.3 W Luminous efficacy = 177.7 lm/W	<b>serial documentation</b> <b>14.09.2023</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	17.6	18.8	17.9	19.1	19.4	17.2	18.4	17.6	18.7	19.1
	3H	18.7	19.7	19.0	20.1	20.4	18.1	19.2	18.5	19.5	19.9
	4H	19.2	20.2	19.6	20.5	20.9	18.5	19.5	18.9	19.9	20.2
	6H	19.6	20.5	20.1	20.9	21.3	18.8	19.7	19.2	20.1	20.5
	8H	20.0	20.7	20.4	21.1	21.5	19.0	19.7	19.4	20.1	20.5
	12H	20.1	20.8	20.6	21.2	21.6	19.0	19.7	19.5	20.1	20.5
4H	2H	17.8	18.8	18.2	19.2	19.6	17.5	18.5	17.9	18.9	19.2
	3H	19.1	19.9	19.5	20.3	20.7	18.6	19.4	19.0	19.8	20.2
	4H	19.7	20.5	20.2	20.9	21.3	19.1	19.8	19.5	20.2	20.7
	6H	20.4	21.0	20.8	21.4	21.9	19.5	20.1	19.9	20.5	21.0
	8H	20.7	21.2	21.2	21.7	22.2	19.6	20.2	20.1	20.6	21.1
	12H	21.0	21.4	21.5	21.9	22.4	19.7	20.2	20.2	20.7	21.2
8H	4H	19.9	20.5	20.4	20.9	21.4	19.3	19.9	19.8	20.3	20.8
	6H	20.7	21.1	21.2	21.6	22.1	19.9	20.3	20.4	20.8	21.3
	8H	21.1	21.5	21.6	22.0	22.5	20.0	20.5	20.6	20.9	21.5
	12H	21.5	21.8	22.0	22.3	22.9	20.2	20.5	20.7	21.1	21.6
12H	4H	20.0	20.4	20.5	20.9	21.4	19.4	19.8	19.9	20.3	20.8
	6H	20.8	21.1	21.3	21.6	22.1	20.0	20.3	20.5	20.8	21.3
	8H	21.2	21.5	21.7	22.0	22.6	20.2	20.5	20.7	21.0	21.6

<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°		15069.6	14378.4	13120.3	12597.4	13071.2	14357.1	15723.3	
50°		12713.7	11980.6	10725.3	10068.6	10391.9	11755.4	13305.6	
55°		11075.6	10386.4	9281.8	8604.7	8786.0	10113.2	11761.0	
60°		9726.9	9148.9	8297.6	7711.0	7735.8	8907.1	10506.6	
65°		8597.1	8154.1	7559.3	7115.9	7045.4	7931.9	9367.9	
70°		7673.6	7345.9	6921.5	6667.0	6535.8	7073.6	8318.2	
75°		6961.9	6703.8	6405.7	6296.4	6100.6	6244.1	7274.3	
80°		6454.0	6244.8	6078.5	5987.6	5709.6	5504.7	6231.6	
85°		6225.1	6060.7	5989.3	5998.0	5577.2	4898.1	5383.1	

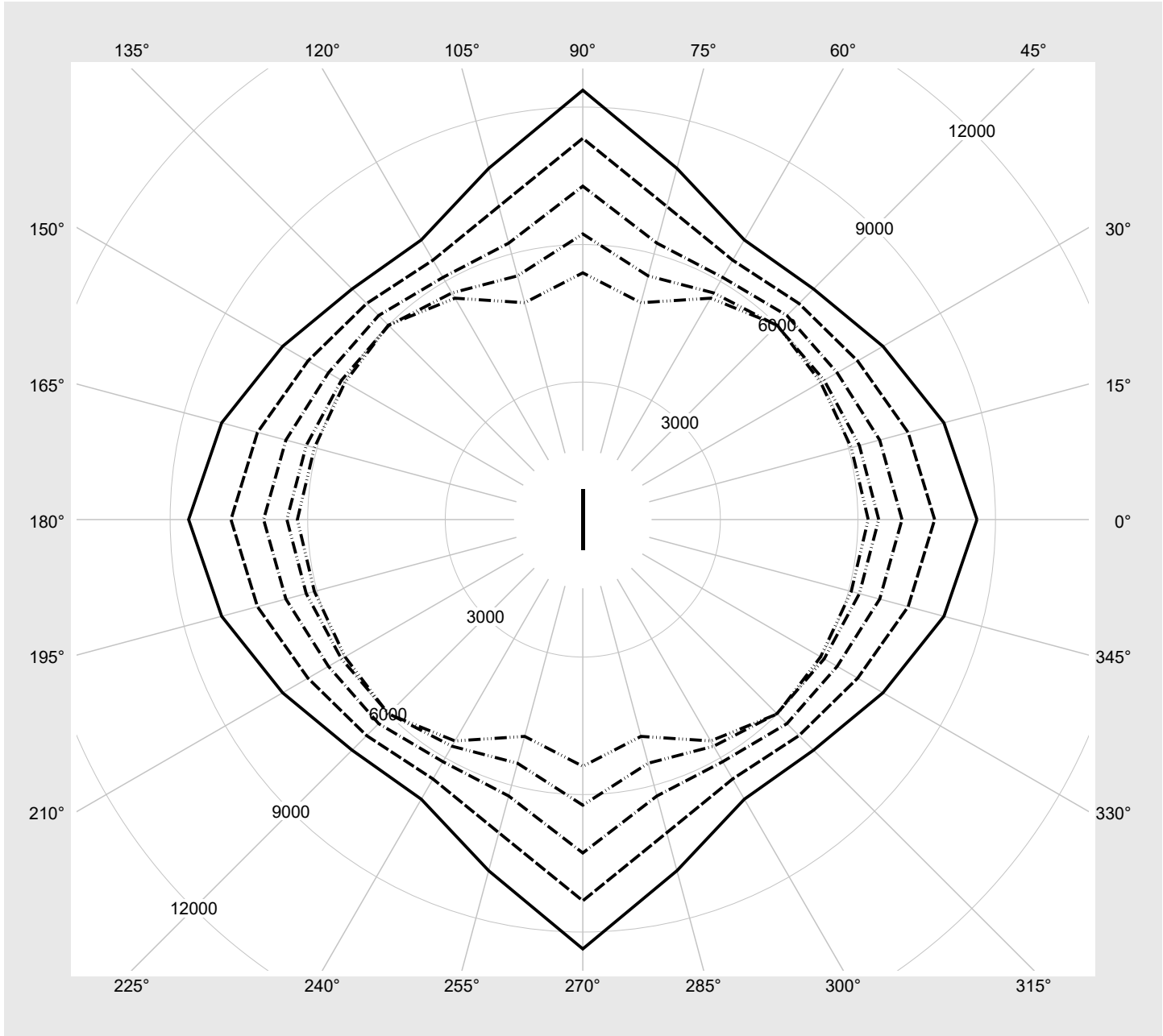
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**Luminance values in cd/m<sup>2</sup>**

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

**siteco**



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<b>Dimming levels table</b>	environmental temperature: 25°C	<b>sITeco</b>
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	15510	87.3
95	240	252	14728	82.4
90	226	250	13934	77.5
85	213	248	13189	72.9
80	200	245	12435	68.3
75	186	243	11617	63.6
70	173	240	10850	59.1
65	160	237	10079	54.7
60	147	234	9300	50.2
55	134	231	8512	45.9
50	122	227	7781	41.9
45	109	223	6983	37.7
40	96	218	6176	33.4
35	84	213	5425	29.4
30	72	208	4666	25.7
25	60	201	3901	21.8
20	48	193	3128	17.9
15	36	182	2351	14.0
10	24	168	1568	10.1
5	12	142	777	6.4
2	4	102	247	4.0