

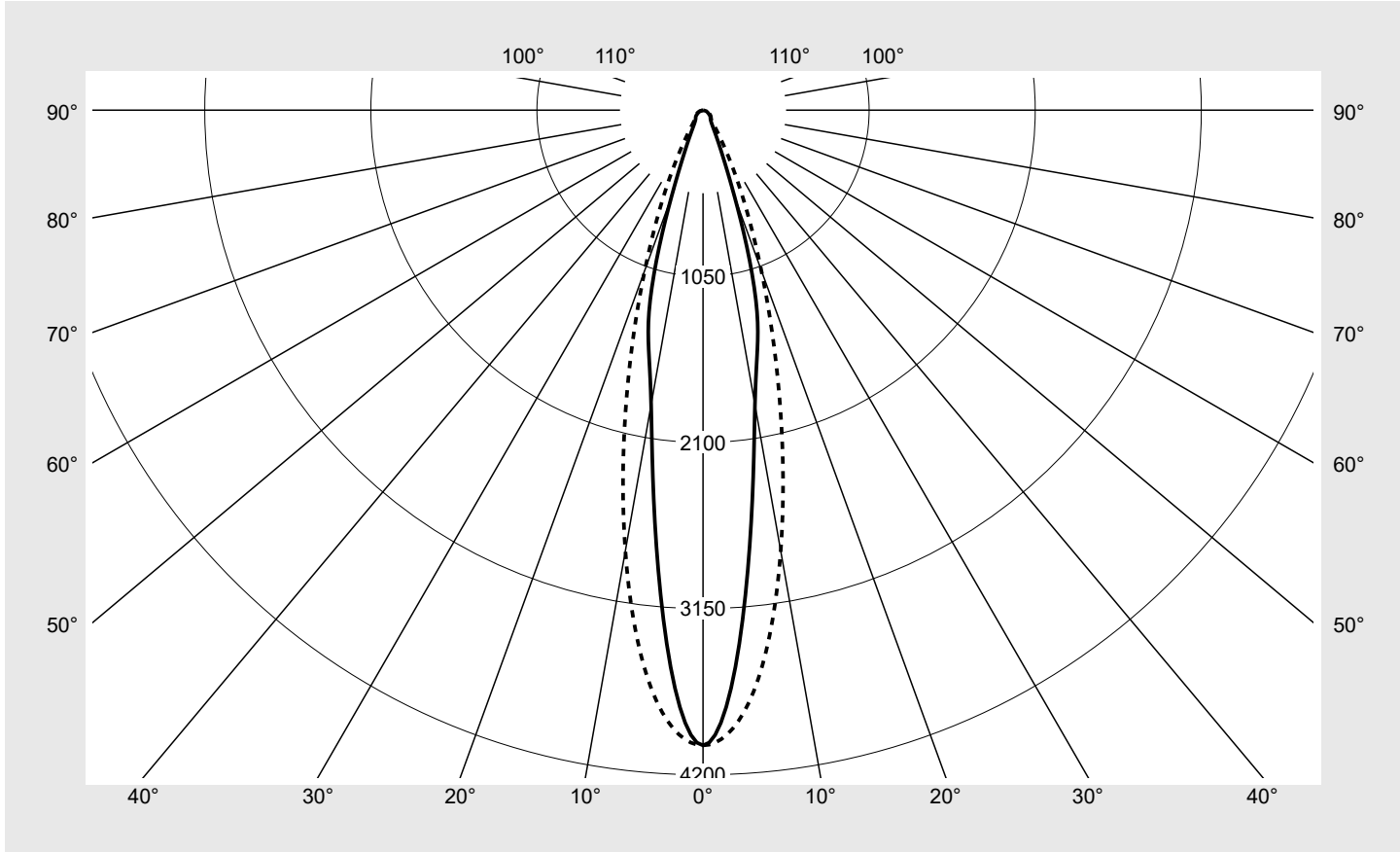


# Photometric test report

<b>Family</b> <b>Licross® 11 Protected</b>	<b>Order number: 51TP13DN4F5S</b> <b>EAN: 4058352930342</b>	<b>LP number</b> <b>58527_76</b>
	<b>Version</b> prismatic cover, frosted, extremely narrow distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 15550 lm Power consumption = 87.3 W Luminous efficacy = 178.1 lm/W	<b>serial documentation</b> <b>14.09.2023</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	15.0	16.1	15.4	16.4	16.7	15.6	16.7	15.9	17.0	17.3
	3H	16.6	17.4	17.0	17.7	18.1	17.1	17.8	17.5	18.2	18.5
	4H	17.0	17.9	17.4	18.3	18.7	17.3	18.1	17.6	18.5	18.9
	6H	17.5	18.5	17.9	18.8	19.2	17.3	18.3	17.7	18.7	19.0
	8H	18.1	18.8	18.5	19.1	19.6	17.4	18.3	17.9	18.7	19.1
	12H	18.1	18.9	18.5	19.3	19.8	17.4	18.3	17.9	18.7	19.1
4H	2H	15.3	16.2	15.7	16.5	16.9	15.7	16.6	16.1	17.0	17.3
	3H	16.8	17.5	17.2	17.9	18.3	17.0	17.8	17.5	18.2	18.6
	4H	17.5	18.2	18.0	18.6	19.1	17.5	18.2	18.0	18.6	19.1
	6H	18.1	18.9	18.5	19.3	19.8	17.6	18.4	18.1	18.9	19.3
	8H	18.7	19.2	19.2	19.7	20.2	18.0	18.5	18.5	19.0	19.5
	12H	18.9	19.5	19.3	20.0	20.5	17.8	18.5	18.3	18.9	19.4
8H	4H	17.7	18.2	18.2	18.7	19.1	17.7	18.2	18.2	18.7	19.2
	6H	18.9	19.1	19.5	19.5	20.1	18.2	18.6	18.7	19.1	19.6
	8H	19.1	19.4	19.6	19.9	20.5	18.3	18.7	18.8	19.2	19.7
	12H	19.3	19.8	19.8	20.3	20.9	18.1	18.7	18.7	19.2	19.7
12H	4H	17.5	18.1	17.9	18.6	19.1	17.5	18.1	18.0	18.6	19.1
	6H	18.4	19.0	18.9	19.4	20.0	18.0	18.5	18.5	19.0	19.5
	8H	18.9	19.4	19.4	19.9	20.4	18.2	18.7	18.7	19.2	19.7

<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°		10719.4	9543.7	7478.3	6731.0	7516.4	10070.9	13642.9	
50°		10149.0	8890.4	6863.0	5952.1	6246.7	8852.5	13620.5	
55°		8943.7	7957.1	6445.9	5461.7	5516.6	7762.3	13425.9	
60°		7904.6	6943.7	5995.9	5122.8	5020.2	6786.0	12785.1	
65°		7048.9	6034.0	5499.5	4934.9	4690.2	5927.9	11357.1	
70°		6455.8	5415.7	4868.3	4799.7	4451.6	5168.6	9208.0	
75°		6148.8	5091.0	4353.2	4658.6	4268.4	4484.6	6982.9	
80°		5804.3	4919.5	4143.5	4449.6	4169.3	3854.8	5082.5	
85°		5602.7	4881.3	4273.0	4437.6	4394.8	3318.7	3553.2	

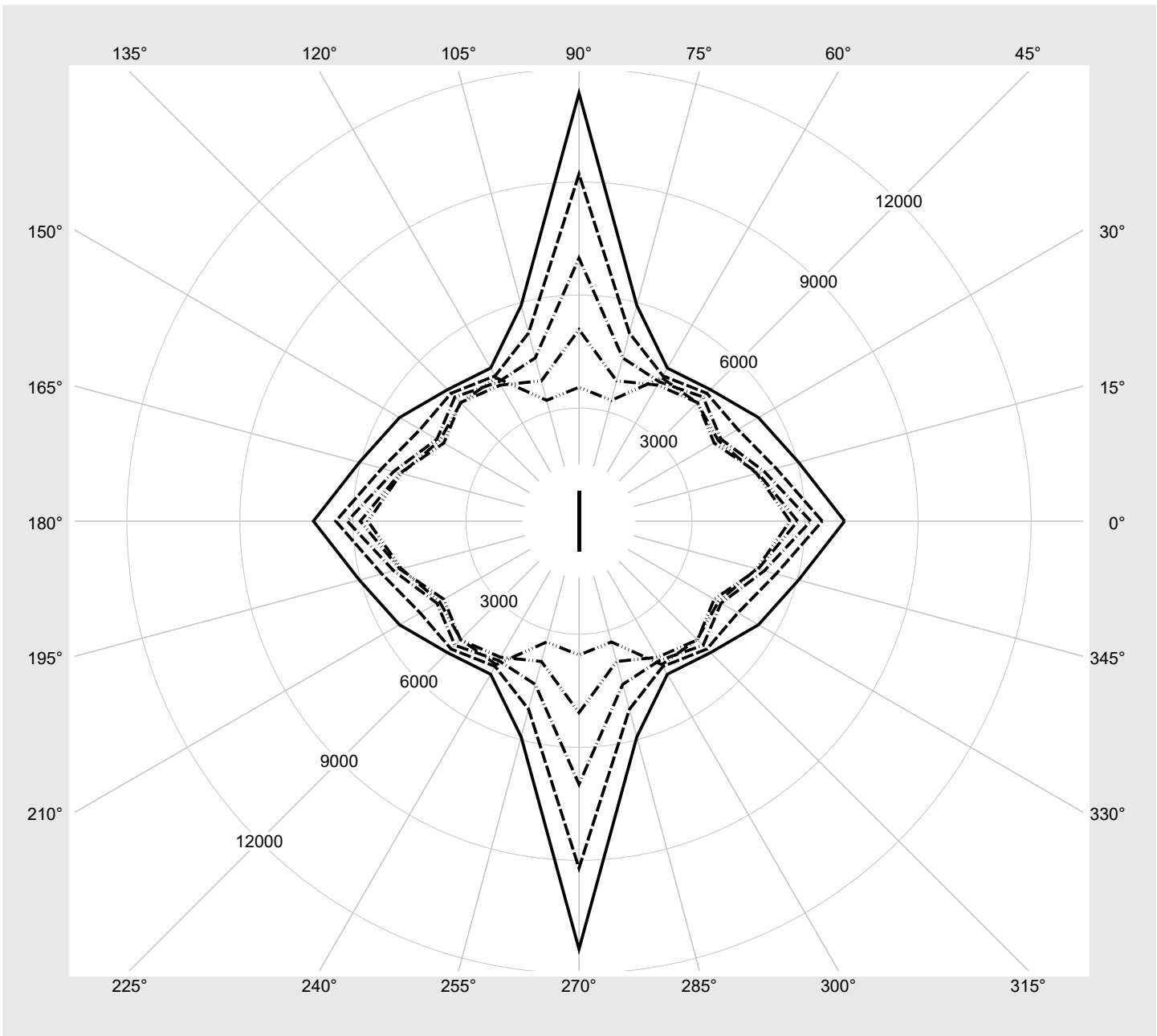
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**Family**  
Licross® 11 Protected

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**EAN: 4058352930342**

**LP number**  
**58527\_76**

**Luminance values in cd/m<sup>2</sup>**     γ 65°   γ 70°   γ 75°   γ 80°   γ 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	15550	87.3
95	240	252	14766	82.4
90	226	250	13970	77.5
85	213	248	13223	72.9
80	200	245	12467	68.3
75	186	243	11647	63.6
70	173	240	10878	59.1
65	160	237	10105	54.7
60	147	234	9324	50.2
55	134	231	8534	45.9
50	122	227	7801	41.9
45	109	223	7001	37.7
40	96	218	6192	33.4
35	84	213	5439	29.4
30	72	208	4678	25.7
25	60	201	3911	21.8
20	48	193	3136	17.9
15	36	182	2357	14.0
10	24	168	1572	10.1
5	12	142	779	6.4
2	4	102	248	4.0