

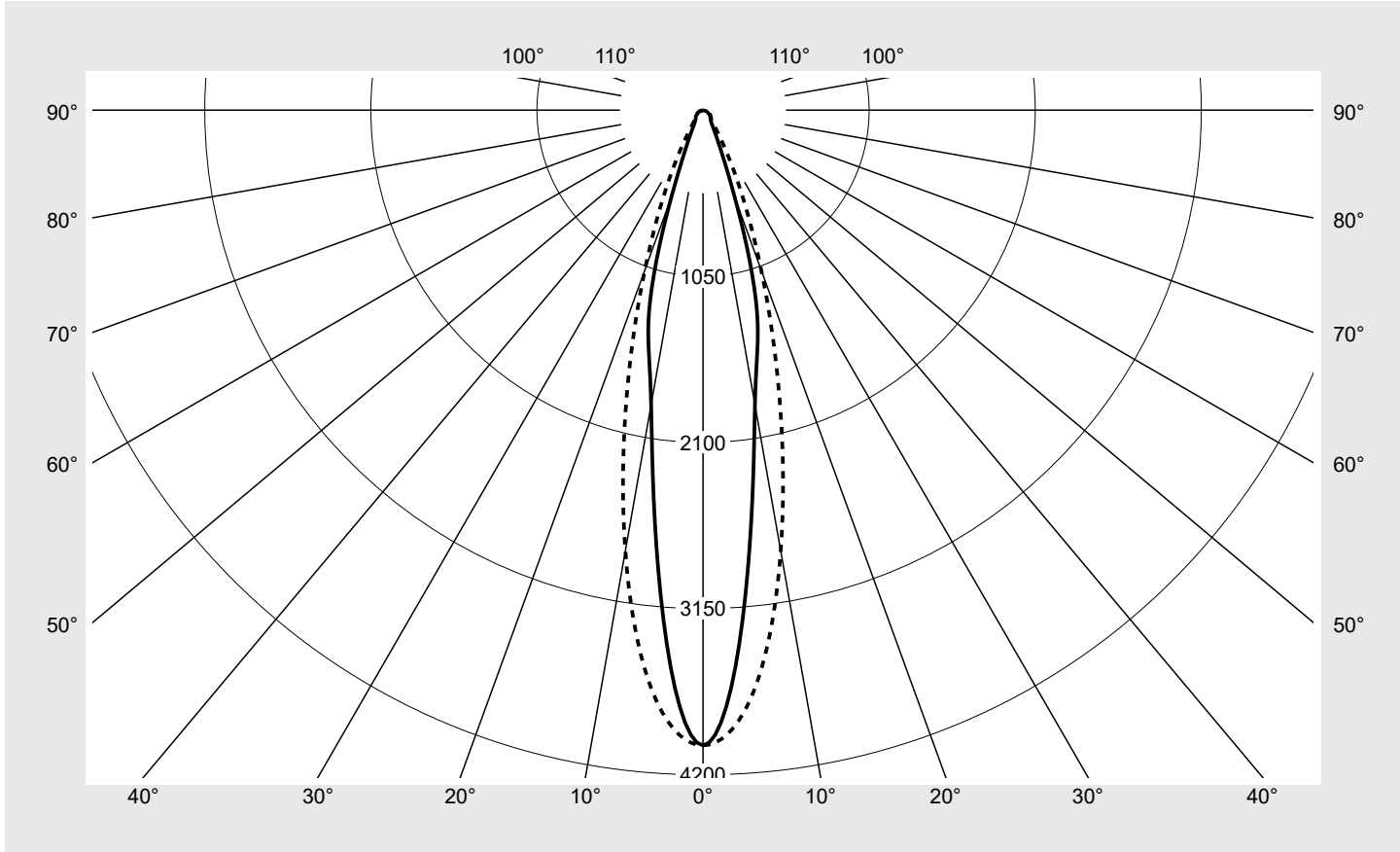


# Photometric test report

<b>Family</b> <b>Licross® Protected</b>	<b>Order number: 51TP13DN4EXRD</b> <b>EAN: 4058352418550</b>	<b>LP number</b> <b>58527_15</b>
	<b>Version</b> prismatic cover, frosted, extremely narrow distribution	<b>serial documentation</b> <b>26.08.2020</b>
	<b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Setting</b> AC-mode <b>Rated values</b> Net luminous flux = 14170 lm Power consumption = 84.2 W Luminous efficacy = 168.3 lm/W	
		

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	14.7	15.8	15.1	16.1	16.4	15.2	16.3	15.6	16.6	17.0
	3H	16.3	17.1	16.7	17.4	17.8	16.8	17.5	17.2	17.8	18.2
	4H	16.7	17.6	17.1	18.0	18.3	16.9	17.8	17.3	18.2	18.5
	6H	17.1	18.1	17.6	18.5	18.9	17.0	18.0	17.4	18.3	18.7
	8H	17.8	18.4	18.2	18.8	19.2	17.1	18.0	17.5	18.4	18.8
	12H	17.8	18.6	18.2	19.0	19.4	17.1	17.9	17.5	18.3	18.8
4H	2H	14.9	15.8	15.3	16.2	16.6	15.4	16.3	15.8	16.6	17.0
	3H	16.4	17.2	16.9	17.6	18.0	16.7	17.5	17.2	17.9	18.3
	4H	17.2	17.9	17.7	18.3	18.7	17.2	17.9	17.7	18.3	18.8
	6H	17.8	18.5	18.2	19.0	19.4	17.3	18.1	17.8	18.5	19.0
	8H	18.4	18.9	18.9	19.4	19.9	17.7	18.2	18.2	18.6	19.1
	12H	18.5	19.2	19.0	19.7	20.1	17.5	18.1	18.0	18.6	19.1
8H	4H	17.4	17.9	17.9	18.3	18.8	17.4	17.9	17.9	18.3	18.8
	6H	18.6	18.7	19.1	19.2	19.8	17.9	18.3	18.4	18.7	19.3
	8H	18.7	19.1	19.3	19.6	20.1	18.0	18.4	18.5	18.9	19.4
	12H	19.0	19.5	19.5	20.0	20.5	17.8	18.4	18.3	18.9	19.4
12H	4H	17.1	17.8	17.6	18.2	18.7	17.2	17.8	17.6	18.3	18.8
	6H	18.0	18.6	18.5	19.1	19.6	17.6	18.2	18.1	18.7	19.2
	8H	18.5	19.1	19.0	19.6	20.1	17.8	18.4	18.3	18.9	19.4

<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°		9768.1	8696.7	6814.6	6133.7	6849.4	9177.2	12432.1	
50°		9248.4	8101.5	6253.9	5423.9	5692.3	8066.9	12411.7	
55°		8150.0	7250.9	5873.8	4977.0	5027.0	7073.4	12234.4	
60°		7203.1	6327.4	5463.7	4668.2	4574.7	6183.8	11650.5	
65°		6423.4	5498.5	5011.4	4497.0	4274.0	5401.9	10349.2	
70°		5882.9	4935.1	4436.3	4373.8	4056.6	4709.9	8390.9	
75°		5603.1	4639.2	3966.9	4245.1	3889.6	4086.6	6363.2	
80°		5289.2	4482.9	3775.8	4054.7	3799.3	3512.7	4631.5	
85°		5105.5	4448.1	3893.8	4043.8	4004.7	3024.2	3237.8	

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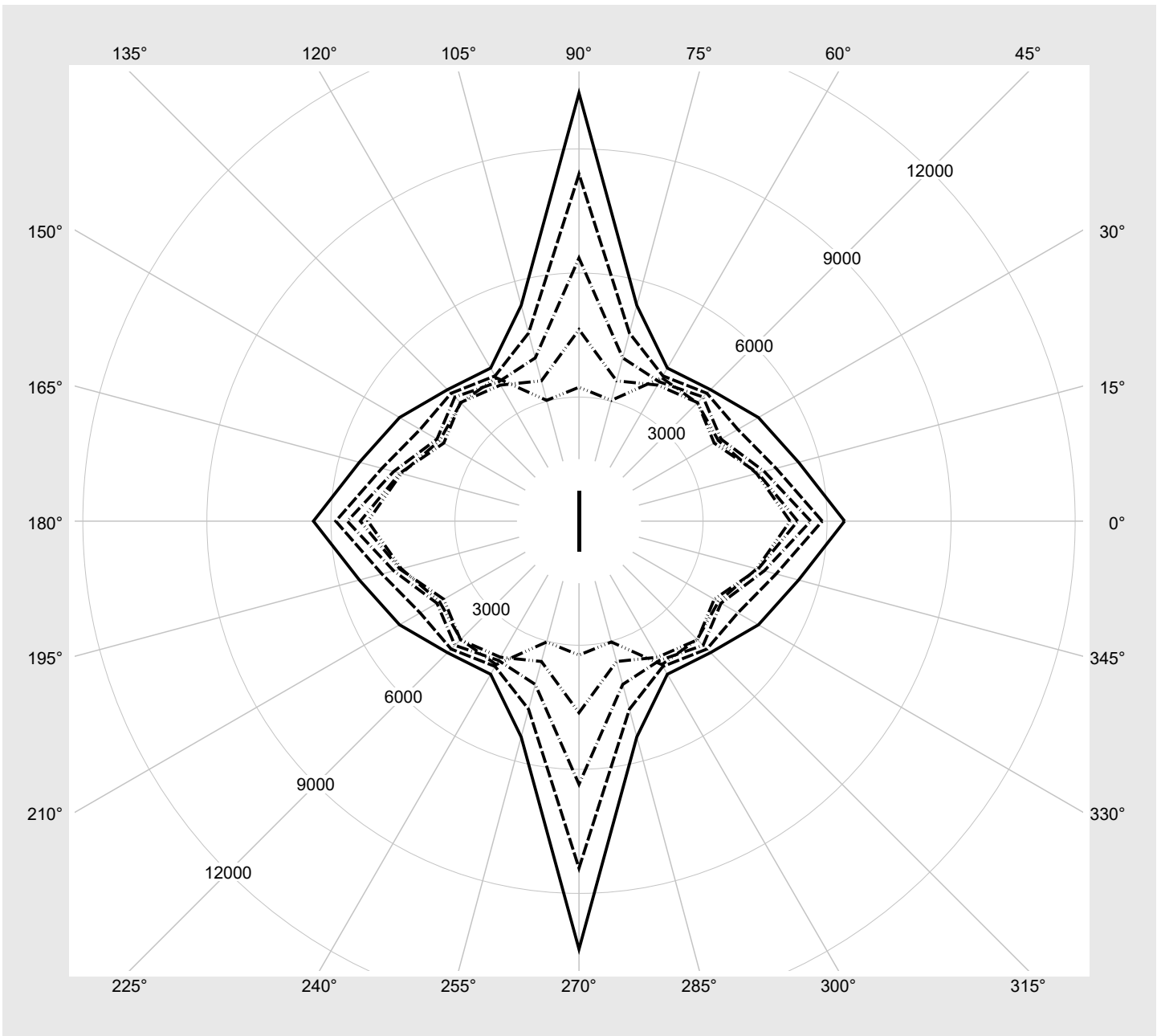
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**LP number**  
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**Luminance values in cd/m<sup>2</sup>**

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



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<b>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	14170	84.2
95	241	252	13457	79.4
90	227	250	12743	74.9
85	214	248	12054	70.4
80	200	245	11311	65.7
75	187	243	10622	61.5
70	174	240	9905	57.2
65	161	237	9215	53.1
60	148	234	8497	48.9
55	135	231	7780	44.7
50	122	227	7061	40.7
45	110	223	6369	36.7
40	98	219	5678	32.8
35	85	214	4960	29.0
30	73	208	4268	25.1
25	60	201	3518	21.3
20	49	194	2855	17.6
15	36	182	2104	13.6
10	25	169	1441	10.5
5	13	145	748	6.8