

## Photometric test report

Family  
Licross® Protected

Order number: 51TS12DN4DXL  
EAN: 4058352265017

LP number  
58521\_13



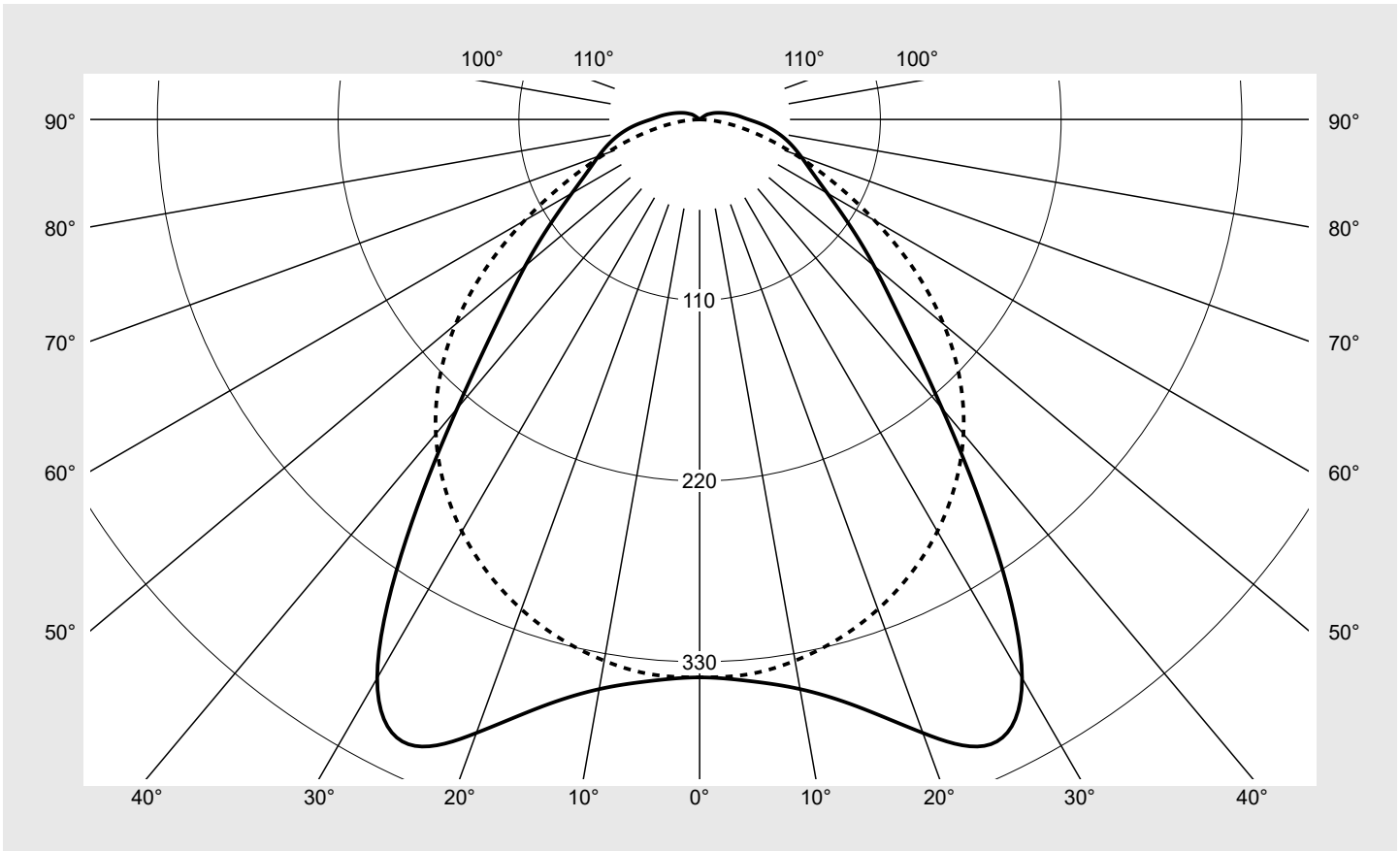
**Version** prismatic cover, frosted, wide distribution  
**Lamps** LED 4000 K | CRI ≥ 80  
**Controlgear** ECG-DALI  
**Rated values** Net luminous flux = 13360 lm  
 Power consumption = 86.1 W  
 Luminous efficacy = 155.2 lm/W

serial  
documentation  
12.12.2019

siteco

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

Imax: 419 cd/klm



### Classifications

DIN 5040 A 4 1  
 CIE N1=54 N2=82 N3=95  
 N4=97 N5=100

### Luminaire light output ratios

$\eta_{LB}$  100.0%  
 $\phi_u$  96.8%  
 $\phi_o$  3.2%

### 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 $\gamma$	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°	339.5	339.5	339.5	339.5	339.5	339.5	339.5	2.0	2.0
5°	343.0	342.0	339.2	339.3	339.7	338.8	338.9	16.2	18.3
10°	352.0	350.9	345.1	341.6	338.4	335.1	334.4	32.6	50.9
15°	369.7	367.9	356.8	346.8	337.2	329.4	327.1	49.3	100.2
20°	397.2	393.9	374.9	354.6	335.9	321.8	317.2	66.8	167.0
25°	419.5	416.9	395.3	365.3	334.4	312.1	304.6	84.4	251.4
30°	392.5	397.1	392.3	370.7	332.1	300.1	289.4	97.4	348.9
35°	311.0	322.2	341.8	350.7	323.8	285.3	271.2	100.3	449.2
40°	229.5	240.6	267.7	298.9	299.5	266.8	249.8	94.7	543.9
45°	174.0	182.0	204.5	237.4	256.3	239.9	224.1	85.2	629.1
50°	138.5	144.4	161.2	187.1	207.0	203.8	193.9	74.9	704.0
55°	110.9	115.6	129.9	149.5	163.4	162.9	159.6	64.1	768.1
60°	89.8	92.9	103.5	120.2	127.5	124.1	123.1	53.4	821.5
65°	75.3	77.0	82.7	94.9	98.6	91.3	89.2	43.6	865.1
70°	65.6	65.8	66.8	73.1	74.5	64.6	61.3	35.1	900.1
75°	57.2	56.6	54.5	55.3	53.6	43.2	39.2	27.5	927.6
80°	48.6	47.5	44.1	40.6	36.2	26.8	21.9	20.7	948.4
85°	39.1	38.1	34.6	29.4	22.8	14.4	9.2	14.9	963.2
90°	29.7	28.9	25.8	20.2	13.1	5.9	0.8	10.0	973.2
95°	24.0	23.5	21.5	16.6	10.0	3.6	0.7	8.0	981.2
100°	19.1	18.8	17.3	13.3	7.4	1.9	0.7	6.2	987.3
105°	15.1	14.8	13.5	10.2	5.0	0.8	0.6	4.6	991.9
110°	11.8	11.4	10.2	7.3	2.9	0.6	0.6	3.3	995.3
115°	9.1	8.6	7.4	4.7	1.4	0.7	0.7	2.3	997.5
120°	6.7	6.2	4.9	2.7	0.8	0.7	0.8	1.5	999.1
125°	4.5	4.0	2.9	1.3	0.8	0.8	0.8	0.9	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	22.2	23.8	22.5	24.1	24.4	24.0	25.7	24.4	26.0	26.3
	3H	23.4	24.8	23.7	25.2	25.5	25.0	26.5	25.4	26.8	27.2
	4H	24.1	25.4	24.5	25.8	26.2	25.4	26.8	25.8	27.1	27.5
	6H	24.8	26.1	25.2	26.5	26.9	25.6	26.9	26.1	27.3	27.7
	8H	25.2	26.4	25.7	26.8	27.2	25.8	26.9	26.2	27.3	27.7
	12H	25.6	26.8	26.1	27.1	27.6	25.8	26.9	26.2	27.3	27.7
4H	2H	23.0	24.4	23.4	24.7	25.1	24.5	25.9	24.9	26.2	26.6
	3H	24.4	25.6	24.8	25.9	26.3	25.7	26.9	26.2	27.3	27.7
	4H	25.2	26.3	25.6	26.7	27.1	26.2	27.3	26.7	27.7	28.1
	6H	26.1	27.0	26.6	27.5	27.9	26.6	27.5	27.1	28.0	28.4
	8H	26.6	27.4	27.0	27.9	28.4	26.7	27.6	27.2	28.0	28.5
	12H	27.1	27.8	27.6	28.3	28.8	26.8	27.6	27.3	28.0	28.5
8H	4H	25.6	26.5	26.1	26.9	27.4	26.5	27.4	27.0	27.8	28.3
	6H	26.7	27.4	27.2	27.9	28.4	27.0	27.8	27.5	28.2	28.7
	8H	27.3	27.9	27.8	28.4	28.9	27.2	27.9	27.7	28.4	28.9
	12H	27.9	28.5	28.4	29.0	29.5	27.4	28.0	27.9	28.5	29.0
12H	4H	25.7	26.4	26.2	26.9	27.4	26.6	27.3	27.1	27.8	28.3
	6H	26.8	27.4	27.3	27.9	28.4	27.2	27.8	27.7	28.3	28.8
	8H	27.5	28.0	28.0	28.5	29.1	27.4	28.0	27.9	28.5	29.0

<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°		24409.3	25651.1	29254.1	34759.6	38725.1	37637.4	36673.2	
50°		20810.4	21816.5	24769.0	29530.5	33904.6	34901.4	34910.7	
55°		18068.3	18962.6	21732.5	25815.5	29458.2	30966.5	32194.8	
60°		16123.6	16813.3	19168.0	23098.5	25791.3	26737.0	28484.9	
65°		15198.0	15664.9	17290.1	20737.4	22908.4	22878.9	24419.7	
70°		15214.1	15435.2	16184.3	18690.5	20511.9	19554.7	20758.3	
75°		15767.4	15818.0	15831.4	17164.6	18294.6	16638.0	17538.1	
80°		16635.2	16547.0	16166.4	16229.4	16402.8	14341.0	14623.7	
85°		17872.4	17792.8	17321.3	16640.2	15528.3	12805.9	12245.6	

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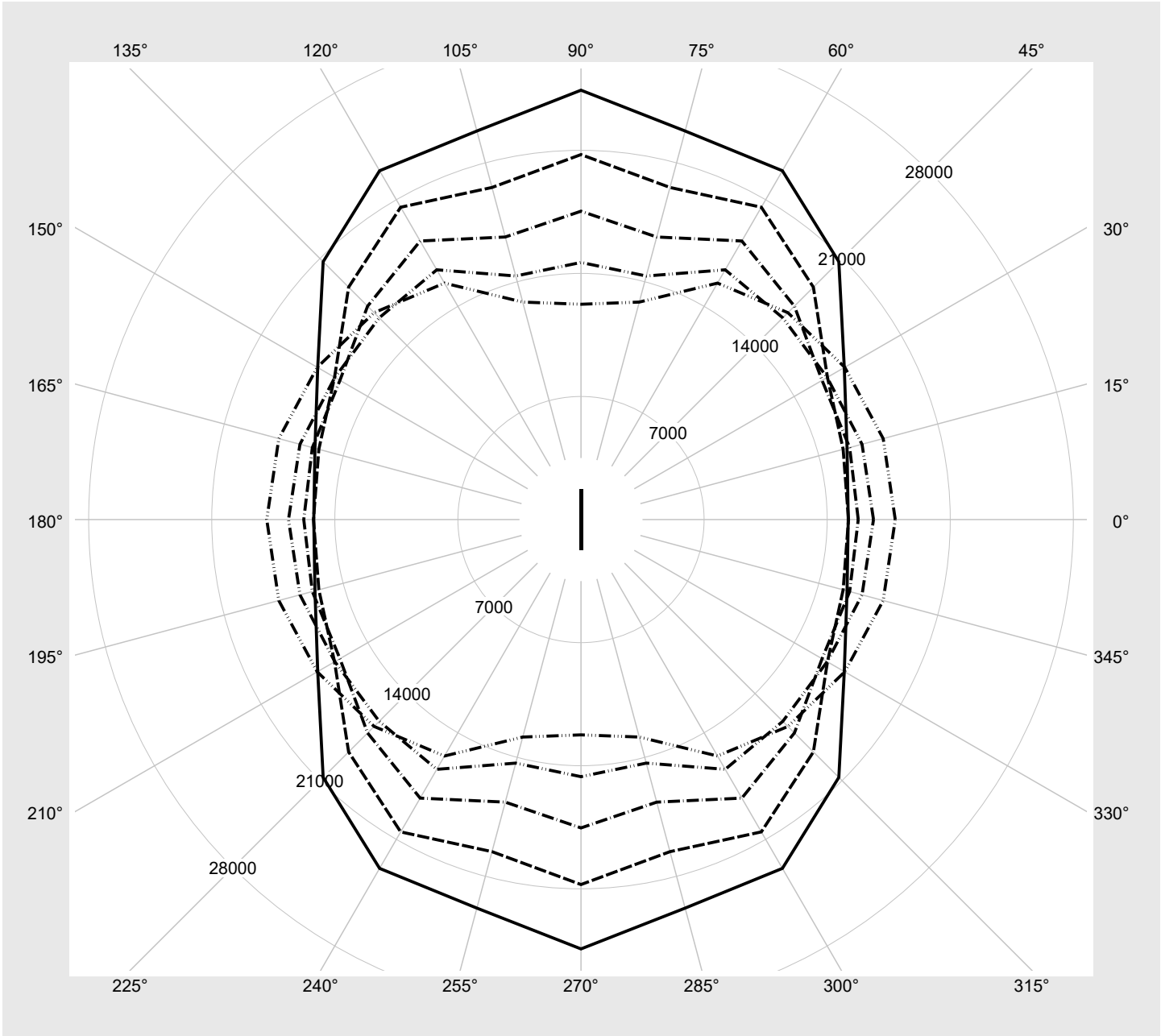
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  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	13360	86.1
95	240	252	12689	81.3
90	226	250	12021	76.6
85	212	248	11353	72.0
80	199	245	10686	67.3
75	186	243	10018	62.9
70	172	240	9350	58.4
65	159	237	8682	54.1
60	146	234	8014	49.8
55	134	231	7346	45.6
50	121	227	6679	41.5
45	109	223	6011	37.4
40	96	219	5343	33.4
35	84	214	4675	29.5
30	72	208	4007	25.6
25	60	201	3339	21.7
20	48	193	2671	18.0
15	36	183	2004	14.1
10	24	169	1336	10.3
5	12	144	668	6.8