

## Photometric test report

**Family**  
**Licross® 11 Protected**

**Order number: 51TD1BDN4E5ME**  
**EAN: 4058352988923**

**LP number**  
**58521\_176**



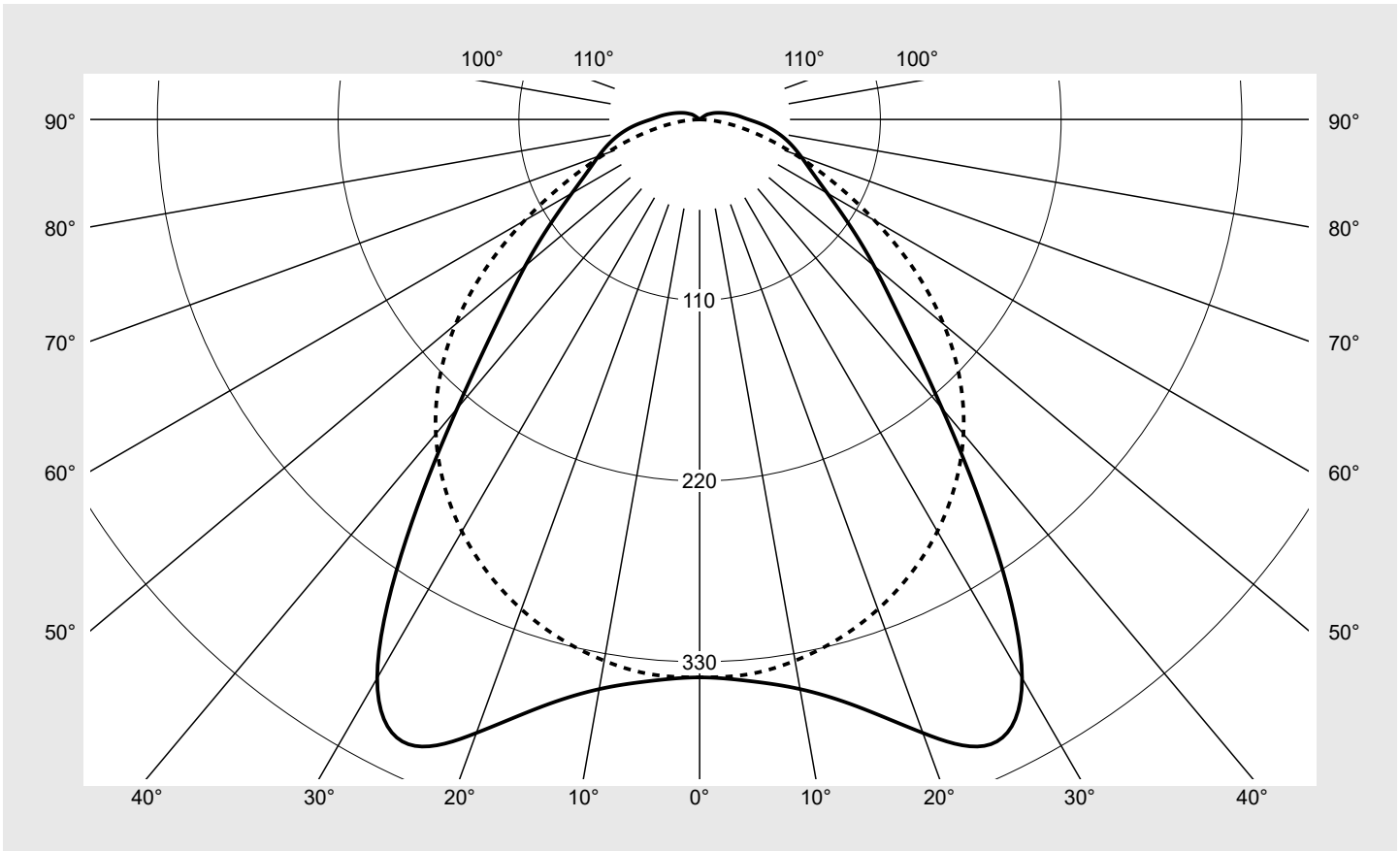
**Version** prismatic cover, frosted, wide distribution  
**Lamps** LED 4000 K | CRI ≥ 80  
**Controlgear** ECG-DALI  
**Rated values** Net luminous flux = 14500 lm  
 Power consumption = 87.3 W  
 Luminous efficacy = 166.1 lm/W

**serial**  
**documentation**  
**30.10.2023**

**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	22.4	24.1	22.8	24.4	24.7	24.3	25.9	24.7	26.2	26.6
	3H	23.6	25.1	24.0	25.5	25.8	25.3	26.8	25.7	27.1	27.5
	4H	24.3	25.7	24.7	26.1	26.5	25.7	27.1	26.1	27.4	27.8
	6H	25.1	26.4	25.5	26.8	27.1	25.9	27.2	26.3	27.6	28.0
	8H	25.5	26.7	25.9	27.1	27.5	26.0	27.2	26.5	27.6	28.0
	12H	25.9	27.0	26.3	27.4	27.8	26.1	27.2	26.5	27.6	28.0
4H	2H	23.3	24.7	23.7	25.0	25.4	24.7	26.1	25.1	26.5	26.9
	3H	24.7	25.8	25.1	26.2	26.6	26.0	27.2	26.4	27.6	28.0
	4H	25.5	26.6	25.9	27.0	27.4	26.5	27.6	27.0	28.0	28.4
	6H	26.4	27.3	26.9	27.8	28.2	26.9	27.8	27.3	28.2	28.7
	8H	26.9	27.7	27.3	28.2	28.6	27.0	27.9	27.5	28.3	28.8
	12H	27.4	28.1	27.8	28.6	29.1	27.1	27.9	27.6	28.3	28.8
8H	4H	25.9	26.8	26.4	27.2	27.7	26.8	27.7	27.3	28.1	28.6
	6H	27.0	27.7	27.5	28.2	28.7	27.3	28.0	27.8	28.5	29.0
	8H	27.6	28.2	28.1	28.7	29.2	27.5	28.2	28.0	28.7	29.2
	12H	28.2	28.8	28.7	29.3	29.8	27.7	28.2	28.2	28.7	29.3
12H	4H	26.0	26.7	26.5	27.2	27.7	26.9	27.6	27.3	28.1	28.6
	6H	27.1	27.7	27.6	28.2	28.7	27.5	28.1	28.0	28.6	29.1
	8H	27.8	28.3	28.3	28.8	29.3	27.7	28.3	28.2	28.8	29.3

<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°		26492.1	27839.9	31750.4	37725.6	42029.5	40849.0	39802.5	
50°		22586.1	23678.1	26882.5	32050.4	36797.7	37879.5	37889.6	
55°		19610.0	20580.6	23586.9	28018.4	31971.9	33608.8	34941.9	
60°		17499.5	18247.9	20803.6	25069.4	27992.1	29018.5	30915.5	
65°		16494.8	17001.6	18765.4	22506.9	24863.1	24831.1	26503.4	
70°		16512.3	16752.3	17565.3	20285.3	22262.2	21223.3	22529.6	
75°		17112.8	17167.8	17182.3	18629.2	19855.6	18057.7	19034.7	
80°		18054.7	17959.0	17545.9	17614.3	17802.4	15564.7	15871.5	
85°		19397.5	19311.0	18799.3	18060.0	16853.4	13898.7	13290.5	

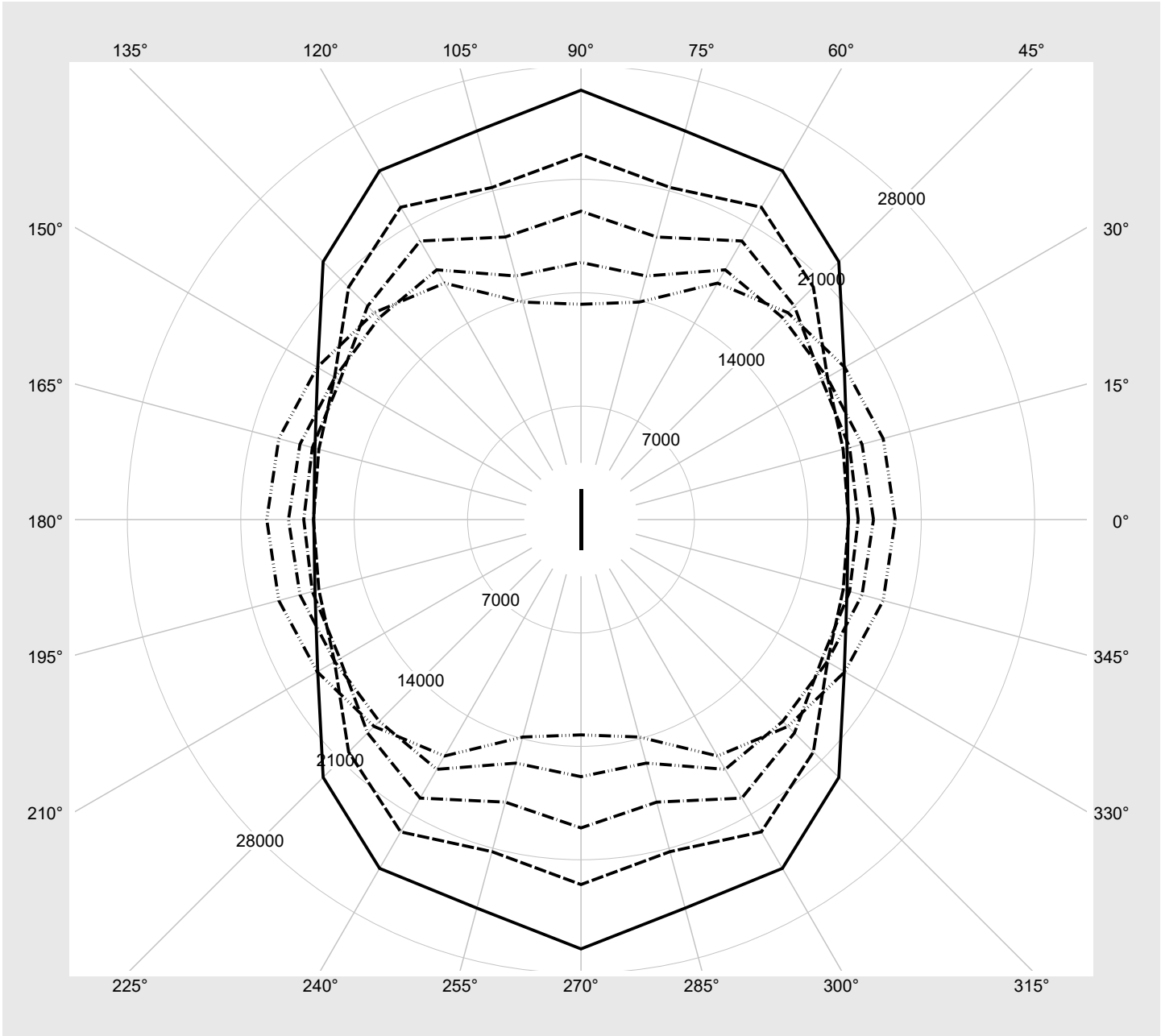
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  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	14500	87.3
95	240	252	13769	82.4
90	226	250	13027	77.5
85	213	248	12330	72.9
80	200	245	11625	68.3
75	186	243	10860	63.6
70	173	240	10143	59.1
65	160	237	9422	54.7
60	147	234	8695	50.2
55	134	231	7958	45.9
50	122	227	7274	41.9
45	109	223	6528	37.7
40	96	218	5774	33.4
35	84	213	5071	29.4
30	72	208	4362	25.7
25	60	201	3647	21.8
20	48	193	2924	17.9
15	36	182	2198	14.0
10	24	168	1465	10.1
5	12	142	727	6.4
2	4	102	231	4.0