

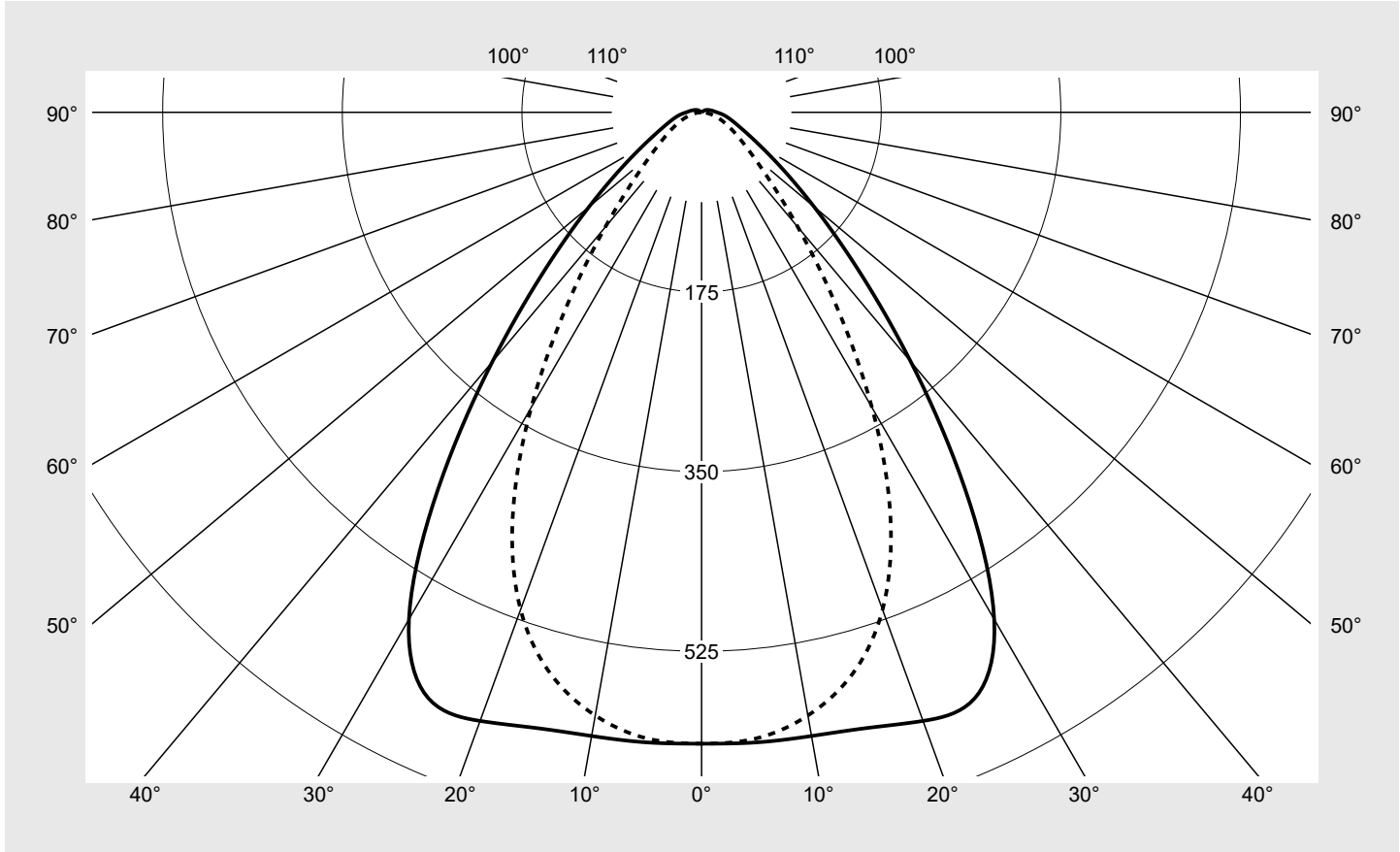


# Photometric test report

<b>Family</b> <b>Licross® 11 Protected</b>	<b>Order number: 51TD12VN475F</b> <b>EAN: 4058352750025</b>	<b>LP number</b> <b>58524_211</b>
	<b>Version</b> prismatic cover, frosted, wide distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI CLO <b>Rated values</b> Net luminous flux = 7910 lm Power consumption = 49.3 W Luminous efficacy = 160.4 lm/W	<b>serial documentation</b> <b>08.11.2022</b>
		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 631 cd/klm**



Classifications	
DIN 5040	A 5 1
CIE	N1=73 N2=92 N3=98 N4=99 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	98.6%
$\phi_o$	1.4%

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°	615.0	615.0	615.0	615.0	615.0	615.0	615.0	3.7	3.7
5°	616.1	614.1	609.7	611.1	612.9	611.9	612.2	29.3	32.9
10°	616.9	615.1	606.4	602.8	600.3	597.0	596.6	57.6	90.5
15°	620.9	617.8	600.9	587.5	576.7	568.6	566.8	83.8	174.3
20°	630.8	623.5	591.7	561.2	536.7	520.1	515.5	106.4	280.7
25°	629.8	620.7	576.3	523.2	476.9	445.6	435.5	122.6	403.3
30°	570.2	568.9	534.3	469.6	398.0	348.4	331.9	126.5	529.9
35°	447.2	456.9	450.2	394.1	307.5	246.5	227.0	114.9	644.8
40°	317.0	331.0	344.1	303.2	220.2	163.1	146.0	93.6	738.3
45°	213.9	226.3	244.1	214.7	147.7	105.6	94.0	70.6	808.9
50°	143.1	152.0	166.9	144.8	97.7	70.8	64.1	51.5	860.4
55°	96.6	102.1	111.9	95.1	64.8	49.7	46.3	37.0	897.4
60°	67.0	69.6	74.2	63.4	44.8	36.0	34.5	26.8	924.2
65°	49.0	49.5	50.0	42.8	32.0	26.6	25.7	19.7	943.9
70°	37.9	37.0	34.4	29.4	23.3	19.5	18.8	14.8	958.7
75°	30.5	28.7	24.6	20.4	16.6	13.6	12.7	11.1	969.8
80°	24.8	22.7	18.1	14.1	11.2	8.8	7.6	8.2	978.0
85°	19.7	17.8	13.4	9.8	7.1	4.8	3.4	5.9	983.8
90°	14.9	13.4	9.7	6.4	4.0	1.9	0.4	3.9	987.8
95°	12.2	11.1	8.2	5.4	3.1	1.2	0.3	3.2	991.0
100°	10.0	9.2	6.9	4.5	2.4	0.7	0.3	2.6	993.6
105°	8.2	7.6	5.7	3.6	1.7	0.4	0.3	2.1	995.6
110°	6.8	6.2	4.6	2.7	1.1	0.3	0.3	1.6	997.2
115°	5.5	5.0	3.7	2.0	0.7	0.4	0.4	1.2	998.4
120°	4.3	3.8	2.7	1.4	0.6	0.5	0.5	0.9	999.3
125°	3.1	2.7	1.8	0.9	0.6	0.6	0.6	0.6	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	20.5	21.9	20.8	22.2	22.5	17.2	18.6	17.6	18.9	19.3
	3H	20.9	22.1	21.3	22.5	22.8	17.5	18.8	17.9	19.2	19.5
	4H	21.1	22.3	21.5	22.6	23.0	17.7	18.9	18.1	19.3	19.6
	6H	21.4	22.4	21.8	22.8	23.2	17.8	18.9	18.2	19.3	19.7
	8H	21.6	22.5	22.1	22.9	23.3	17.9	18.9	18.3	19.3	19.7
	12H	21.8	22.6	22.2	23.0	23.5	17.9	18.9	18.4	19.3	19.7
4H	2H	20.5	21.7	20.9	22.1	22.4	17.7	18.9	18.1	19.2	19.6
	3H	21.1	22.1	21.5	22.4	22.9	18.2	19.2	18.6	19.6	20.0
	4H	21.4	22.3	21.8	22.7	23.1	18.4	19.3	18.9	19.7	20.2
	6H	21.8	22.6	22.3	23.0	23.5	18.6	19.4	19.1	19.8	20.3
	8H	22.0	22.7	22.5	23.2	23.6	18.7	19.4	19.2	19.8	20.3
	12H	22.3	22.9	22.8	23.4	23.9	18.8	19.4	19.2	19.8	20.3
8H	4H	21.4	22.1	21.9	22.6	23.0	18.7	19.3	19.1	19.8	20.2
	6H	21.9	22.5	22.4	23.0	23.5	18.9	19.5	19.4	20.0	20.5
	8H	22.2	22.7	22.7	23.2	23.7	19.0	19.6	19.6	20.0	20.6
	12H	22.6	23.0	23.1	23.5	24.1	19.2	19.6	19.7	20.1	20.6
12H	4H	21.4	22.0	21.9	22.5	23.0	18.7	19.3	19.2	19.7	20.2
	6H	21.9	22.4	22.4	22.9	23.4	19.0	19.5	19.6	20.0	20.5
	8H	22.3	22.7	22.8	23.2	23.7	19.2	19.6	19.7	20.1	20.6

<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°	17769.1	18885.0	20669.9	18609.7	13209.5	9811.5	9112.3	
	50°	12723.1	13595.4	15184.1	13538.2	9474.4	7175.5	6828.6	
	55°	9317.3	9913.5	11080.1	9723.8	6918.3	5588.7	5531.9	
	60°	7129.3	7457.6	8137.3	7213.3	5359.4	4595.3	4722.6	
	65°	5857.7	5970.1	6184.8	5533.5	4397.8	3953.9	4166.7	
	70°	5209.0	5144.7	4941.5	4453.4	3791.3	3498.6	3758.6	
	75°	4979.8	4750.4	4225.4	3754.5	3347.5	3102.8	3374.7	
	80°	5034.2	4686.0	3932.1	3336.0	3012.1	2783.2	3000.1	
	85°	5322.5	4918.2	3988.5	3271.0	2877.8	2543.8	2709.2	

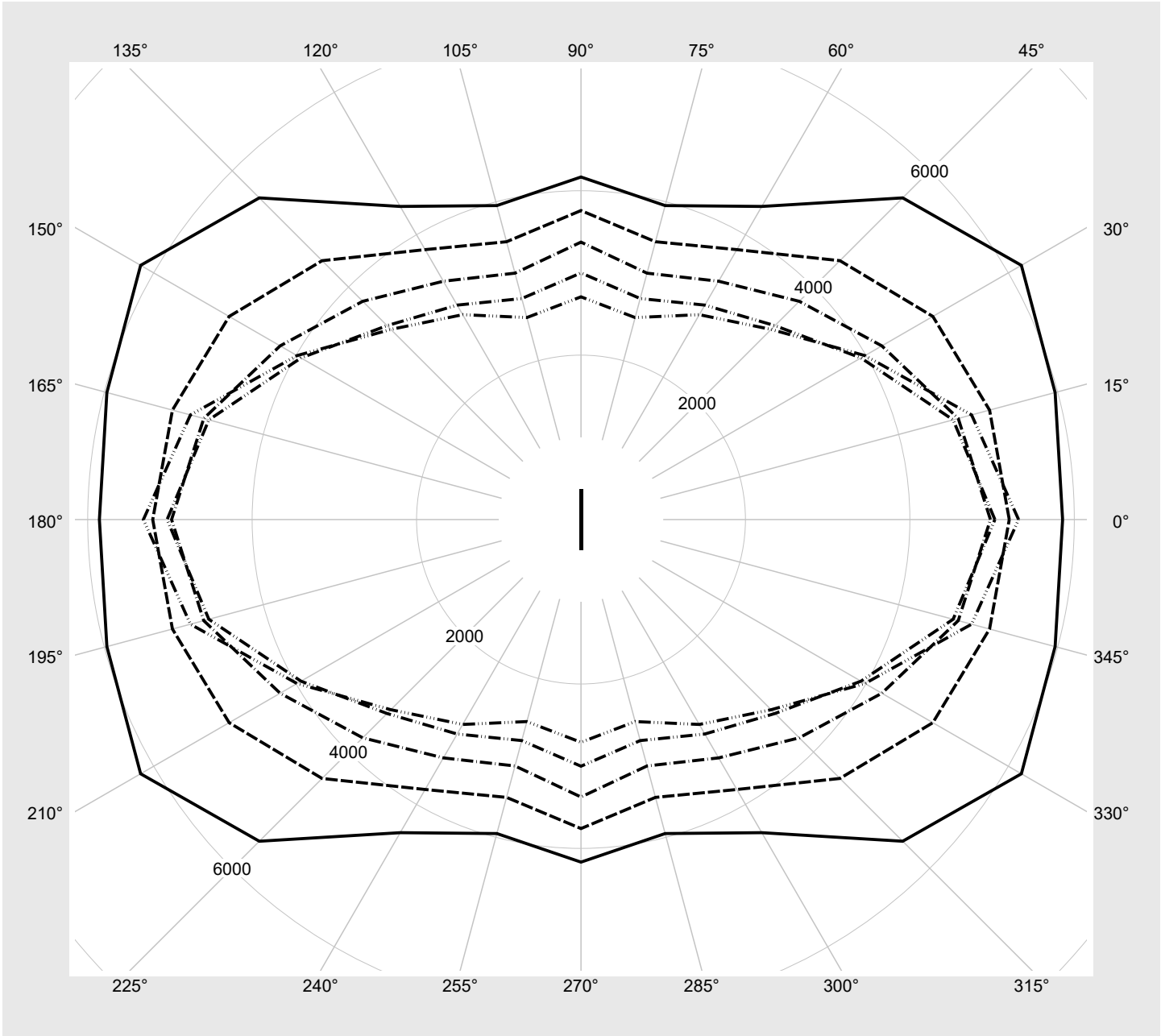
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  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]	Power consumption [W]	Power consumption [W]
				start of lifetime	end of lifetime	average
100	254	254	7910	49.3	55.9	52.6
95	241	252	7529	46.8	53.0	49.9
90	227	250	7117	44.1	49.8	47.0
85	214	248	6730	41.6	47.1	44.4
80	201	245	6320	39.0	44.2	41.6
75	188	243	5931	36.6	41.4	39.0
70	175	240	5540	34.2	38.5	36.4
65	162	238	5145	31.7	35.7	33.7
60	149	234	4746	29.3	33.0	31.2
55	136	231	4345	26.8	30.2	28.5
50	123	227	3942	24.4	27.4	25.9
45	111	224	3568	22.3	25.0	23.6
40	98	219	3161	19.9	22.3	21.1
35	86	214	2780	17.6	19.8	18.7
30	73	208	2363	15.3	17.0	16.2
25	61	202	1977	13.1	14.5	13.8
20	49	194	1589	10.9	12.0	11.4
15	37	183	1198	8.8	9.7	9.2
10	25	169	802	6.7	7.2	7.0
5	13	145	408	4.5	4.8	4.6
2	5	110	150	3.0	3.2	3.1