

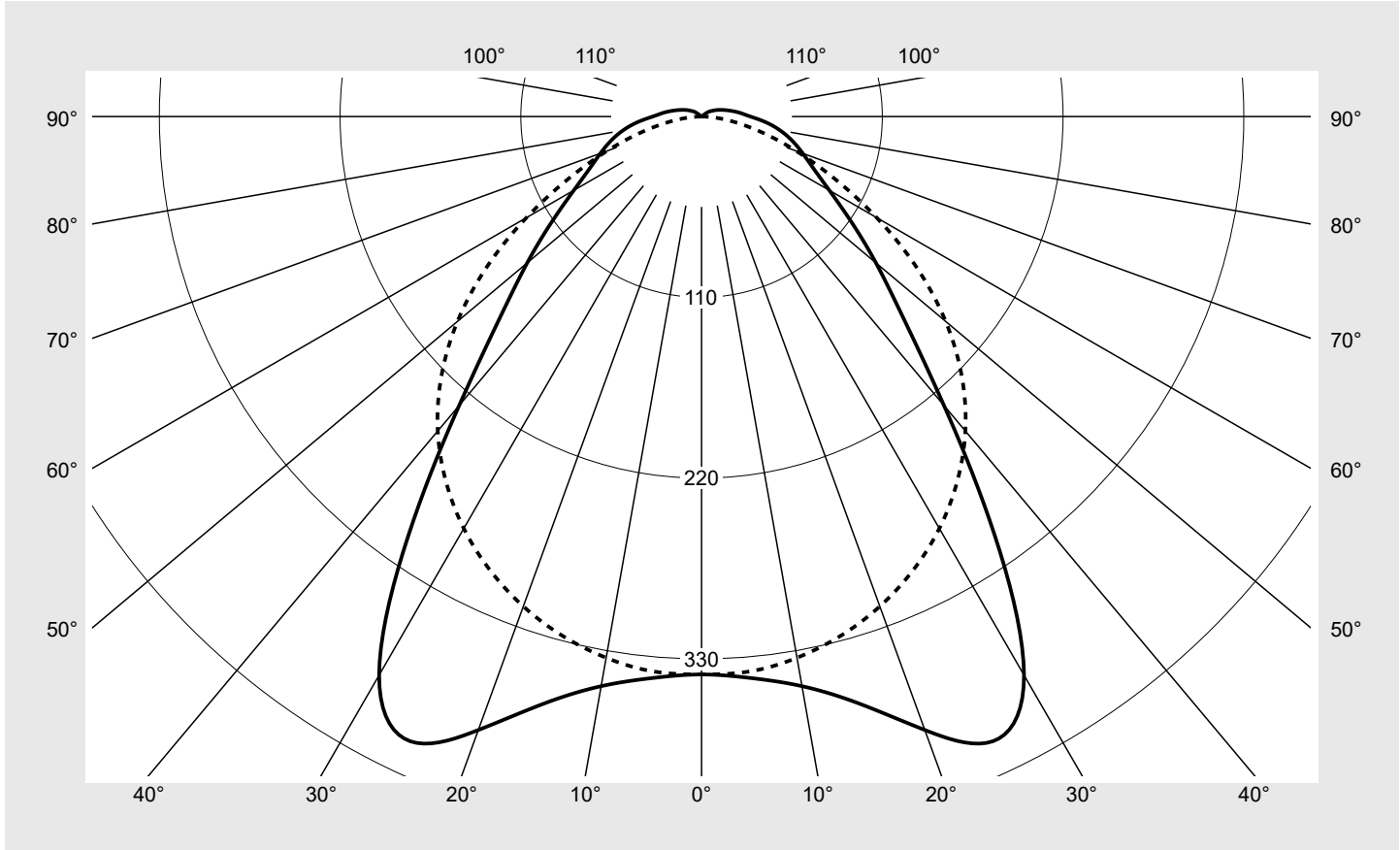
# Photometric test report

<b>Family</b> <b>Licross® 11 Protected</b>	<b>Order number: 51TS12VN4CXL</b> <b>EAN: 4058352493557</b>	<b>LP number</b> <b>58521_37</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 = 12430 lm Power consumption = 79.4 W Luminous efficacy = 156.5 lm/W	<b>serial documentation</b> <b>15.03.2021</b>





**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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Table of values for luminous intensities		Maximum luminous intensity
		<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	21.9	23.6	22.3	23.9	24.2	23.8	25.4	24.1	25.7	26.0
	3H	23.1	24.6	23.5	24.9	25.3	24.8	26.3	25.2	26.6	26.9
	4H	23.8	25.2	24.2	25.5	25.9	25.1	26.5	25.5	26.9	27.2
	6H	24.6	25.9	25.0	26.2	26.6	25.4	26.7	25.8	27.0	27.4
	8H	25.0	26.2	25.4	26.6	27.0	25.5	26.7	25.9	27.1	27.5
	12H	25.4	26.5	25.8	26.9	27.3	25.6	26.7	26.0	27.1	27.5
4H	2H	22.8	24.1	23.1	24.5	24.9	24.2	25.6	24.6	26.0	26.3
	3H	24.1	25.3	24.6	25.7	26.1	25.5	26.7	25.9	27.0	27.5
	4H	25.0	26.0	25.4	26.4	26.9	26.0	27.0	26.4	27.5	27.9
	6H	25.9	26.8	26.3	27.2	27.7	26.3	27.3	26.8	27.7	28.2
	8H	26.3	27.2	26.8	27.6	28.1	26.5	27.3	26.9	27.8	28.2
	12H	26.8	27.6	27.3	28.0	28.5	26.6	27.3	27.1	27.8	28.3
8H	4H	25.4	26.2	25.8	26.7	27.1	26.3	27.1	26.7	27.6	28.0
	6H	26.5	27.2	26.9	27.6	28.1	26.8	27.5	27.3	28.0	28.5
	8H	27.0	27.7	27.5	28.2	28.7	27.0	27.6	27.5	28.1	28.6
	12H	27.7	28.2	28.2	28.7	29.3	27.2	27.7	27.7	28.2	28.7
12H	4H	25.4	26.2	25.9	26.6	27.1	26.3	27.1	26.8	27.5	28.0
	6H	26.6	27.2	27.1	27.7	28.2	26.9	27.5	27.4	28.0	28.5
	8H	27.2	27.8	27.7	28.3	28.8	27.2	27.7	27.7	28.2	28.8

<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°		22710.1	23865.5	27217.7	32340.0	36029.4	35017.4	34120.4	
50°		19361.8	20297.9	23044.8	27474.9	31544.5	32471.9	32480.5	
55°		16810.5	17642.6	20219.6	24018.5	27407.6	28810.9	29953.7	
60°		15001.3	15642.9	17833.7	21490.6	23996.0	24875.8	26502.0	
65°		14140.0	14574.5	16086.5	19293.8	21313.7	21286.2	22719.8	
70°		14155.0	14360.8	15057.7	17389.4	19084.1	18193.5	19313.3	
75°		14669.8	14716.9	14729.4	15969.7	17021.1	15479.8	16317.3	
80°		15477.2	15395.2	15041.1	15099.7	15261.0	13342.7	13605.7	
85°		16628.3	16554.2	16115.5	15481.8	14447.4	11914.5	11393.2	

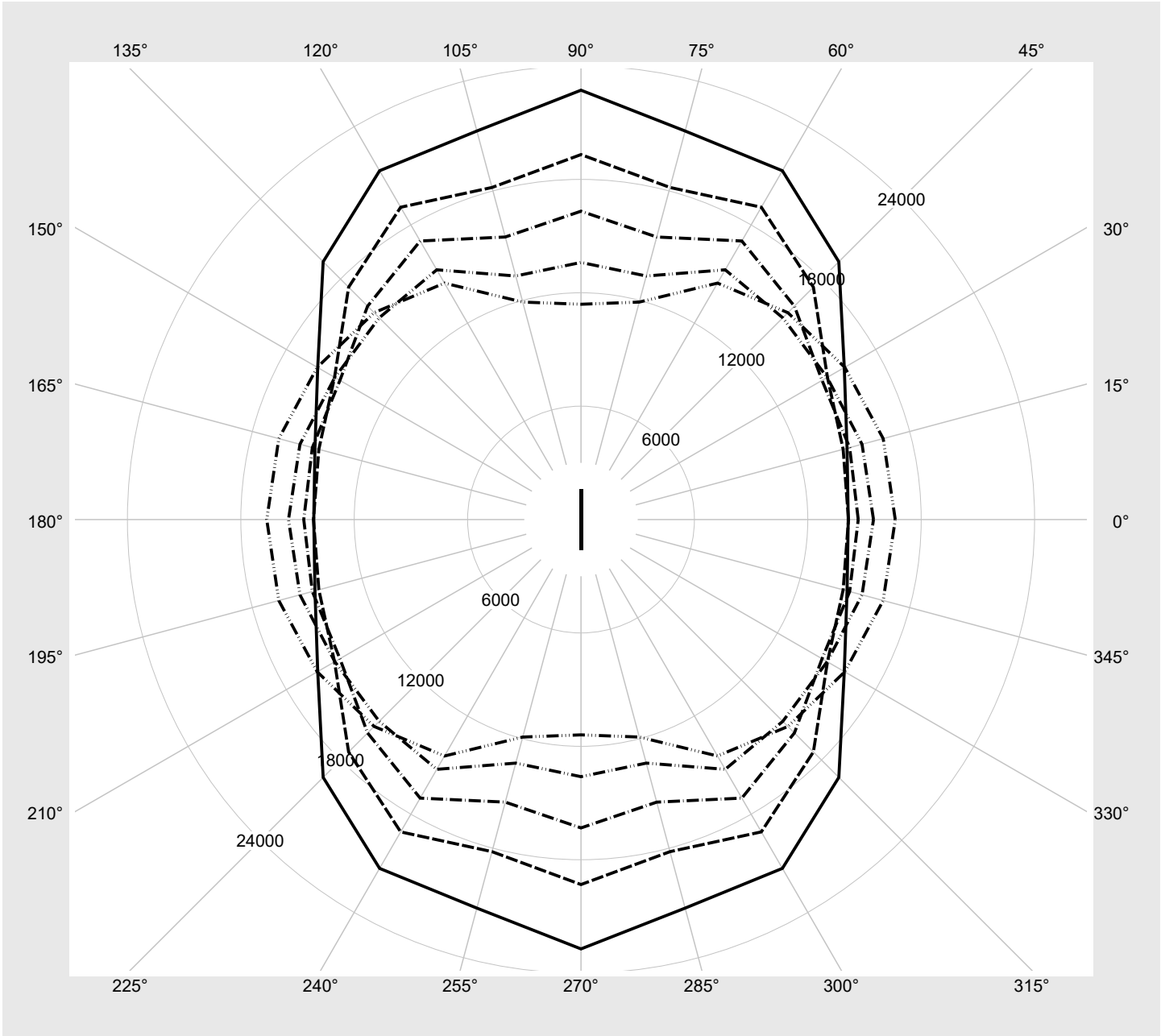
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  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]	Power consumption [W]	Power consumption [W]
				start of lifetime	end of lifetime	average
100	254	254	12430	79.4	88.8	84.1
95	240	252	11799	74.9	83.8	79.4
90	227	250	11206	70.8	79.2	75.0
85	213	248	10558	66.5	74.2	70.4
80	200	245	9953	62.4	69.6	66.0
75	187	243	9342	58.4	65.1	61.8
70	174	240	8722	54.4	60.5	57.4
65	161	237	8100	50.4	56.1	53.2
60	148	234	7475	46.4	51.7	49.0
55	135	231	6835	42.5	47.3	44.9
50	122	227	6198	38.6	42.9	40.8
45	110	223	5601	35.0	38.8	36.9
40	97	219	4954	31.1	34.5	32.8
35	85	214	4350	27.6	30.5	29.0
30	73	208	3737	24.0	26.5	25.2
25	61	202	3125	20.6	22.6	21.6
20	49	194	2507	17.0	18.7	17.8
15	37	183	1884	13.4	14.7	14.0
10	25	169	1259	10.1	10.8	10.4
5	13	145	636	6.6	7.0	6.8
2	5	110	227	4.2	4.4	4.3