



# Photometric test report

<b>Family</b> <b>Licross® 11 Protected</b>	<b>Order number: 51TP12DN4FXM3S</b> <b>EAN: 4058352935323</b>	<b>LP number</b> <b>58523_210</b>
	<b>Version</b> prismatic cover, frosted, wide distribution <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 = 15270 lm Power consumption = 91.1 W Luminous efficacy = 167.6 lm/W	<b>serial documentation</b> <b>29.09.2023</b>
		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 630 cd/klm**



Classifications	
DIN 5040	A 5 1
CIE	N1=70 N2=91 N3=97 N4=98 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	98.3%
$\phi_o$	1.7%

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°	568.0	568.0	568.0	568.0	568.0	568.0	568.0	3.4	3.4
5°	570.0	568.0	563.9	564.4	565.6	564.2	564.6	27.0	30.4
10°	575.1	572.9	563.4	557.9	553.3	549.0	548.2	53.3	83.7
15°	590.1	586.0	566.8	548.5	532.2	519.9	516.5	78.2	161.9
20°	611.6	603.6	568.7	531.0	496.5	471.9	464.3	100.3	262.2
25°	630.0	617.6	564.2	499.9	441.6	401.0	387.5	117.1	379.3
30°	598.0	589.4	536.5	452.4	368.0	311.9	293.8	123.5	502.8
35°	487.1	490.1	463.2	383.1	284.6	222.1	203.0	114.7	617.4
40°	351.1	360.8	359.1	297.2	205.7	150.3	134.3	94.9	712.3
45°	241.7	250.7	257.1	211.9	140.4	100.6	89.9	72.8	785.1
50°	168.3	174.0	178.9	144.5	94.4	69.8	63.7	54.4	839.5
55°	118.9	121.8	123.3	97.4	64.6	50.4	47.5	40.5	880.0
60°	85.1	85.8	84.4	66.1	45.7	37.4	36.1	30.1	910.0
65°	63.8	62.6	58.2	45.7	33.4	28.1	27.2	22.6	932.7
70°	50.4	47.7	40.8	32.1	24.8	20.7	19.9	17.3	949.9
75°	41.3	37.6	29.5	22.7	17.9	14.5	13.5	13.2	963.2
80°	34.0	30.0	21.9	15.9	12.4	9.4	8.0	10.0	973.1
85°	27.2	23.7	16.4	11.2	8.0	5.3	3.6	7.3	980.4
90°	20.7	17.9	12.0	7.4	4.6	2.2	0.4	5.0	985.4
95°	16.6	14.7	10.2	6.3	3.6	1.3	0.3	4.0	989.4
100°	13.2	11.9	8.5	5.2	2.7	0.8	0.3	3.2	992.6
105°	10.4	9.5	6.9	4.1	1.9	0.4	0.3	2.5	995.1
110°	8.2	7.4	5.5	3.1	1.2	0.3	0.3	1.9	997.0
115°	6.5	5.8	4.2	2.2	0.7	0.4	0.4	1.4	998.4
120°	4.9	4.3	3.0	1.4	0.6	0.5	0.5	1.0	999.4
125°	3.5	3.0	2.0	0.9	0.6	0.5	0.5	0.7	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	23.4	24.9	23.8	25.2	25.5	19.3	20.7	19.6	21.0	21.4
	3H	24.0	25.3	24.4	25.7	26.0	19.7	21.0	20.1	21.3	21.7
	4H	24.4	25.6	24.8	25.9	26.3	19.9	21.1	20.3	21.5	21.8
	6H	24.8	25.9	25.2	26.2	26.6	20.0	21.2	20.4	21.5	21.9
	8H	25.1	26.0	25.5	26.4	26.8	20.1	21.2	20.5	21.6	22.0
12H	25.3	26.2	25.8	26.6	27.0	20.2	21.2	20.6	21.5	22.0	
4H	2H	23.5	24.7	23.9	25.1	25.4	20.0	21.1	20.3	21.5	21.9
	3H	24.2	25.2	24.6	25.6	26.0	20.5	21.5	20.9	21.9	22.3
	4H	24.7	25.6	25.1	26.0	26.4	20.8	21.7	21.2	22.1	22.5
	6H	25.2	26.0	25.7	26.4	26.9	21.0	21.8	21.4	22.2	22.7
	8H	25.6	26.3	26.0	26.7	27.2	21.1	21.8	21.5	22.2	22.7
12H	25.9	26.5	26.4	27.0	27.5	21.1	21.8	21.6	22.2	22.7	
8H	4H	24.7	25.4	25.1	25.9	26.3	21.1	21.8	21.6	22.2	22.7
	6H	25.3	25.9	25.8	26.4	26.9	21.4	22.0	21.9	22.5	23.0
	8H	25.7	26.3	26.2	26.7	27.3	21.5	22.1	22.0	22.5	23.1
	12H	26.2	26.7	26.8	27.2	27.7	21.7	22.1	22.2	22.6	23.1
12H	4H	24.7	25.3	25.2	25.8	26.3	21.2	21.8	21.7	22.2	22.7
	6H	25.3	25.9	25.8	26.3	26.9	21.6	22.0	22.1	22.5	23.0
	8H	25.8	26.2	26.3	26.7	27.3	21.7	22.1	22.2	22.6	23.2

<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°		38756.6	40388.1	42034.7	35454.3	24242.2	18041.6	16823.7	
50°		28896.4	30046.4	31420.2	26073.6	17668.0	13652.1	13112.0	
55°		22144.4	22846.6	23583.8	19222.8	13310.7	10942.3	10959.8	
60°		17468.8	17758.3	17857.8	14527.2	10561.9	9201.5	9540.3	
65°		14707.8	14559.1	13917.4	11410.3	8867.9	8036.6	8505.6	
70°		13362.3	12786.3	11307.1	9378.7	7793.2	7156.4	7686.7	
75°		13003.1	12004.5	9800.2	8061.1	6996.8	6379.1	6901.6	
80°		13305.1	11952.2	9193.0	7278.0	6388.9	5751.2	6107.7	
85°		14191.7	12645.1	9391.0	7224.3	6209.2	5346.8	5495.6	

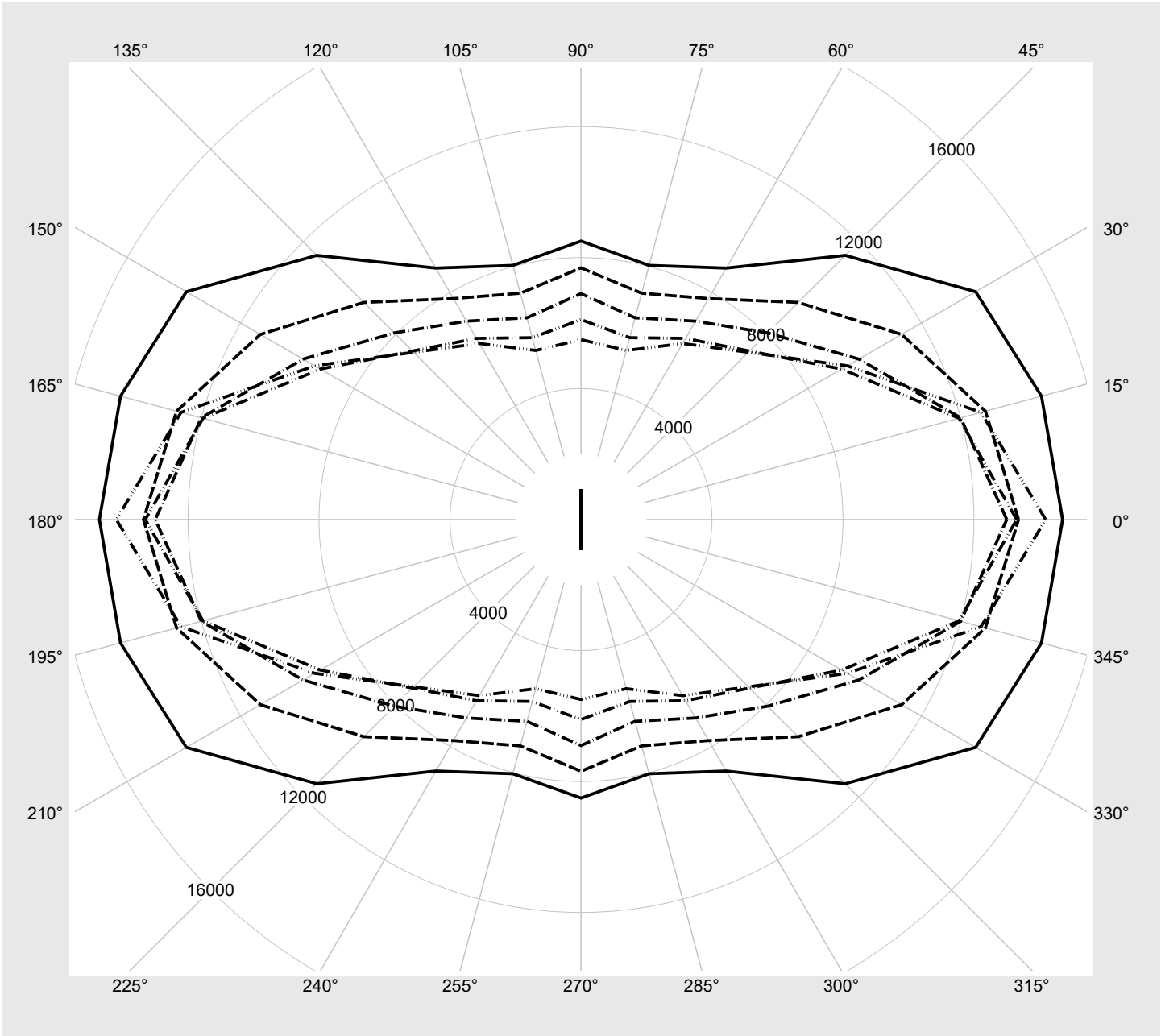
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$ 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	15270	91.1
95	240	252	14500	86.2
90	226	250	13719	81.3
85	213	248	12985	76.7
80	200	245	12243	72.1
75	186	243	11437	67.4
70	173	240	10682	62.9
65	160	237	9923	58.5
60	147	234	9156	54.0
55	134	231	8380	49.7
50	122	227	7660	45.7
45	109	223	6875	41.5
40	96	218	6081	37.2
35	84	213	5341	33.2
30	72	208	4594	29.5
25	60	201	3841	25.6
20	48	193	3080	21.7
15	36	182	2314	17.8
10	24	168	1543	13.9
5	12	142	765	10.2
2	4	102	243	7.8