

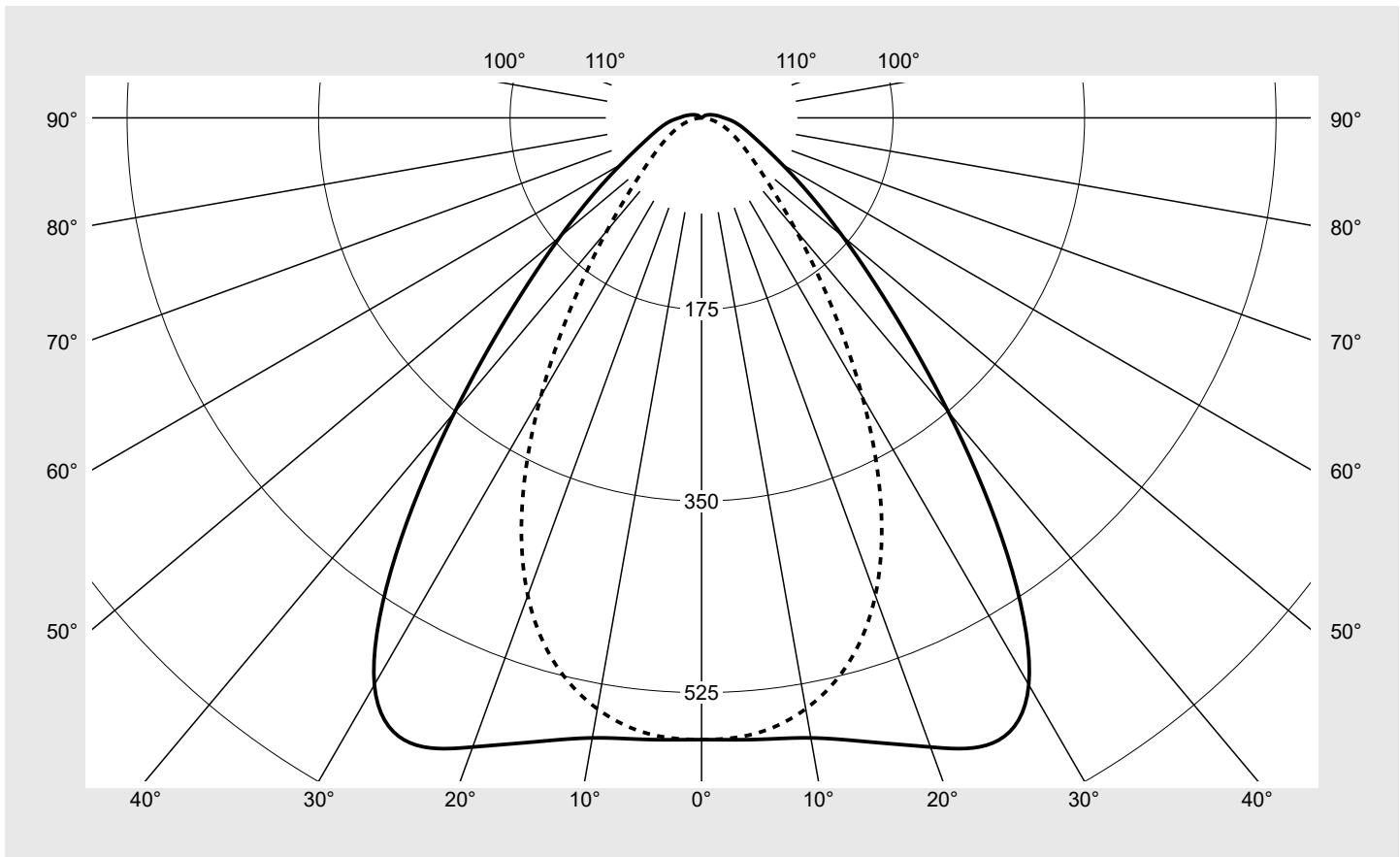


# Photometric test report

<b>Family</b> <b>Licross® 11 Protected</b>	<b>Order number: 51TP12DN4FXM</b> <b>EAN: 4058352918517</b>	<b>LP number</b> <b>58523_226</b>
	<b>Version</b> prismatic cover, frosted, wide distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 15270 lm Power consumption = 87.3 W Luminous efficacy = 174.9 lm/W	<b>serial documentation</b> <b>02.11.2023</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

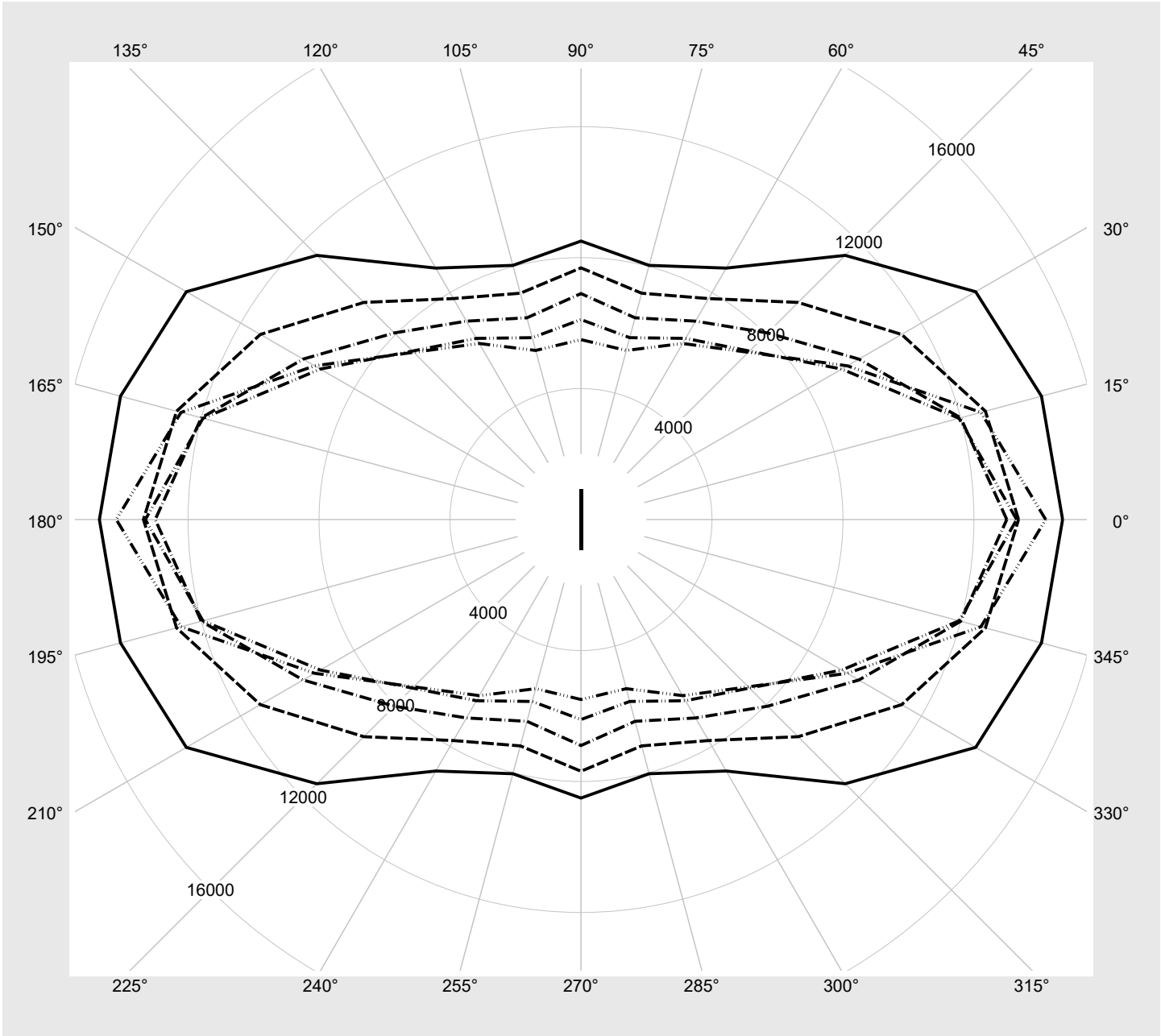
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1480</b>	<b>H(C0) = 13</b>	<b>H(C180) = 13</b>
			<b>B = 78</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

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>**     γ 65°    γ 70°    γ 75°    γ 80°    γ 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	15270	87.3
95	240	252	14498	82.4
90	226	250	13717	77.5
85	213	248	12982	72.9
80	200	245	12240	68.3
75	186	243	11436	63.6
70	173	240	10681	59.1
65	160	237	9920	54.7
60	147	234	9153	50.2
55	134	231	8380	45.9
50	122	227	7659	41.9
45	109	223	6873	37.7
40	96	218	6080	33.4
35	84	213	5339	29.4
30	72	208	4592	25.7
25	60	201	3840	21.8
20	48	193	3080	17.9
15	36	182	2315	14.0
10	24	168	1545	10.1
5	12	142	766	6.4
2	4	102	242	4.0