

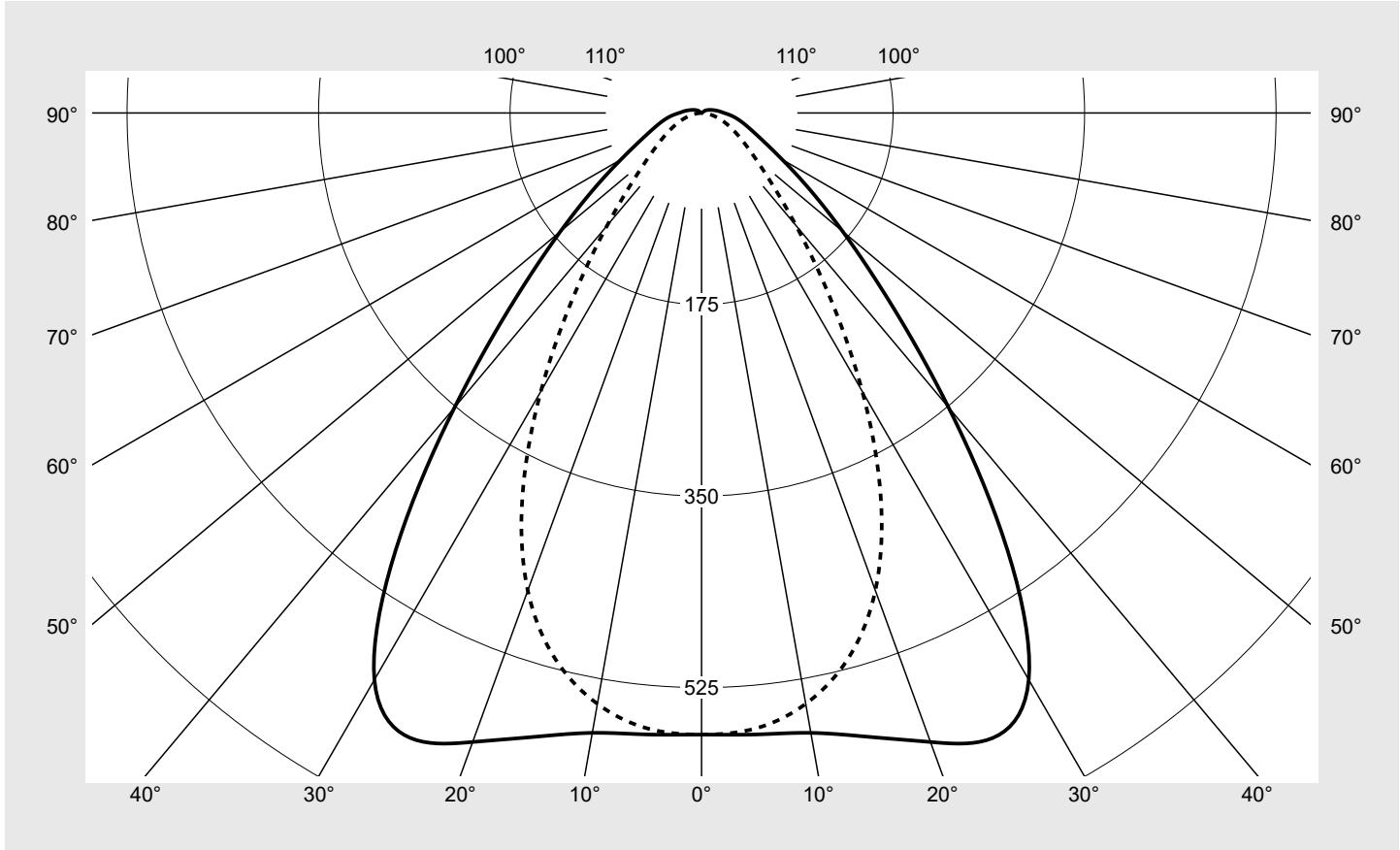


# Photometric test report

<b>Family</b> <b>Licross® 21 Protected</b>	<b>Order number: 52TP12DN4AXM</b> <b>EAN: 4058352903964</b>	<b>LP number</b> <b>58523_169</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 = 10000 lm Power consumption = 56.0 W Luminous efficacy = 178.6 lm/W	<b>serial documentation</b> <b>03.08.2023</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	22.0	23.4	22.3	23.7	24.1	17.8	19.3	18.2	19.6	19.9
	3H	22.6	23.8	23.0	24.2	24.5	18.2	19.5	18.6	19.9	20.2
	4H	22.9	24.1	23.3	24.4	24.8	18.4	19.7	18.8	20.0	20.4
	6H	23.3	24.4	23.7	24.8	25.1	18.6	19.7	19.0	20.1	20.5
	8H	23.6	24.6	24.0	24.9	25.3	18.7	19.7	19.1	20.1	20.5
	12H	23.9	24.7	24.3	25.1	25.5	18.7	19.7	19.1	20.1	20.5
4H	2H	22.0	23.2	22.4	23.6	24.0	18.5	19.7	18.9	20.0	20.4
	3H	22.7	23.8	23.2	24.2	24.6	19.0	20.0	19.5	20.4	20.8
	4H	23.2	24.1	23.6	24.5	25.0	19.3	20.2	19.7	20.6	21.0
	6H	23.8	24.5	24.2	25.0	25.4	19.5	20.3	20.0	20.7	21.2
	8H	24.1	24.8	24.6	25.2	25.7	19.6	20.3	20.1	20.8	21.2
	12H	24.5	25.0	25.0	25.5	26.0	19.7	20.3	20.1	20.8	21.3
8H	4H	23.2	23.9	23.7	24.4	24.9	19.6	20.3	20.1	20.7	21.2
	6H	23.9	24.5	24.4	24.9	25.4	19.9	20.5	20.4	21.0	21.5
	8H	24.3	24.8	24.8	25.3	25.8	20.1	20.6	20.6	21.1	21.6
	12H	24.8	25.2	25.3	25.7	26.2	20.2	20.6	20.7	21.1	21.7
12H	4H	23.2	23.8	23.7	24.3	24.8	19.7	20.3	20.2	20.8	21.2
	6H	23.9	24.4	24.4	24.9	25.4	20.1	20.6	20.6	21.0	21.6
	8H	24.3	24.7	24.8	25.2	25.8	20.2	20.7	20.8	21.2	21.7

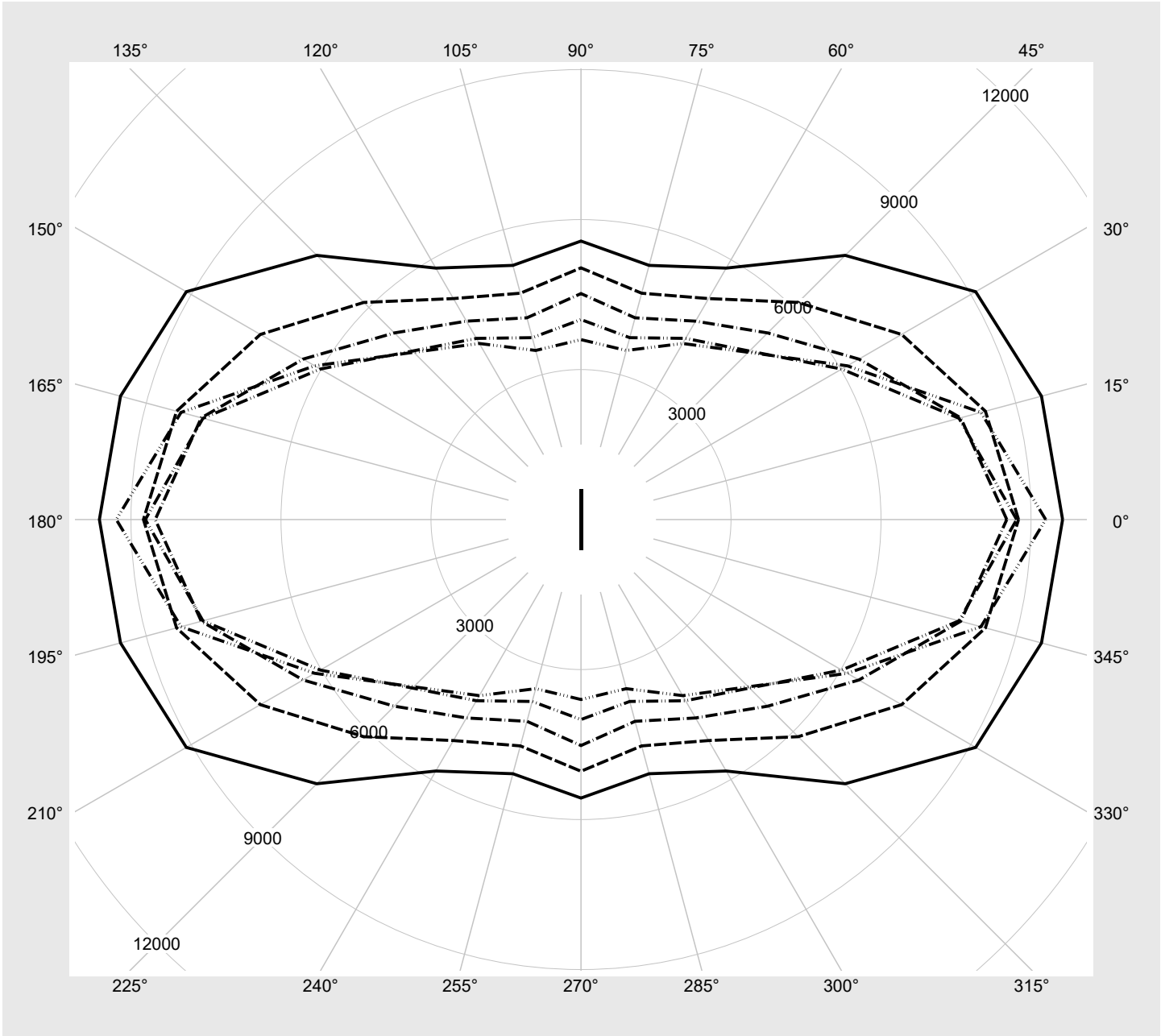
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1480</b>	<b>H(C0) = 13</b>	<b>H(C180) = 13</b>
			<b>B = 78</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

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°	25380.9	26449.3	27527.6	23218.3	15875.7	11815.1	11017.5	
	50°	18923.7	19676.8	20576.4	17075.0	11570.4	8940.5	8586.8	
	55°	14501.9	14961.7	15444.5	12588.6	8716.9	7165.9	7177.4	
	60°	11439.9	11629.5	11694.7	9513.5	6916.8	6025.9	6247.7	
	65°	9631.8	9534.5	9114.2	7472.4	5807.4	5263.0	5570.1	
	70°	8750.7	8373.5	7404.8	6141.9	5103.6	4686.6	5033.8	
	75°	8515.5	7861.5	6417.9	5279.0	4582.0	4177.5	4519.7	
	80°	8713.2	7827.3	6020.3	4766.2	4184.0	3766.3	3999.8	
	85°	9293.8	8281.0	6150.0	4731.0	4066.2	3501.5	3599.0	

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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	10000	56.0
95	241	252	9510	53.3
90	228	250	9019	50.5
85	214	248	8486	47.6
80	201	245	7989	44.8
75	188	243	7490	42.1
70	175	240	6985	39.3
65	162	238	6482	36.5
60	150	235	6011	33.9
55	137	231	5501	31.2
50	124	228	4986	28.4
45	112	224	4512	25.9
40	99	219	3991	23.0
35	87	215	3512	20.4
30	74	209	2988	17.8
25	62	202	2505	15.6
20	50	194	2017	13.4
15	37	183	1490	10.5
10	25	169	997	6.8
5	13	145	503	2.6