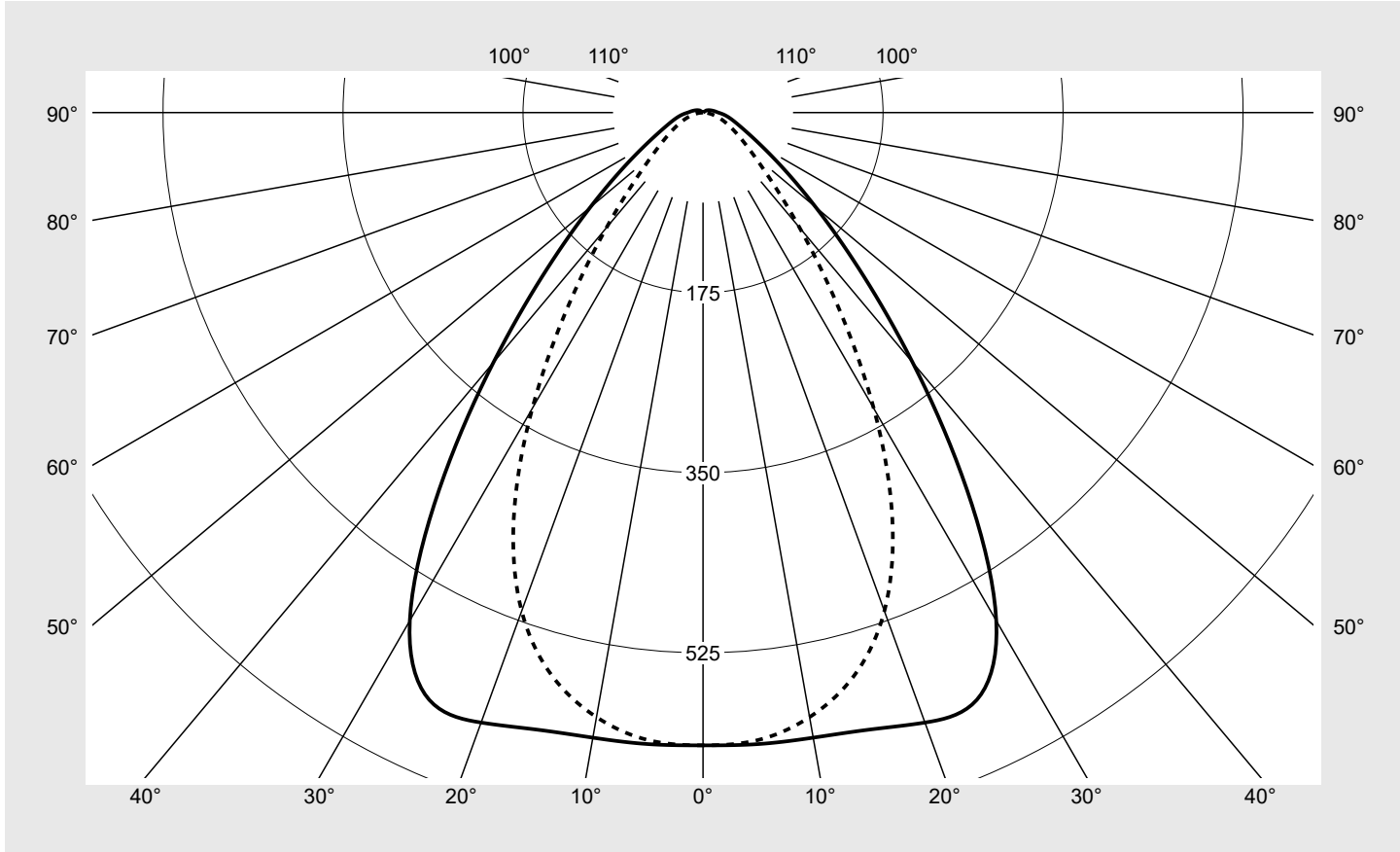


# Photometric test report

<b>Family</b> Licross® 21 Protected	<b>Order number: 52TP12DN4AXG</b> <b>EAN: 4058352903940</b>	<b>LP number</b> 58524_231
<b>Version</b>	prismatic cover, frosted, wide distribution	<b>serial documentation</b> 03.08.2023
<b>Lamps</b>	LED 4000 K   CRI ≥ 80	
<b>Controlgear</b>	ECG-DALI	
<b>Rated values</b>	Net luminous flux = 10000 lm Power consumption = 57.5 W Luminous efficacy = 173.9 lm/W	



**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

## Photometric test report

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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

## Photometric test report

<b>Family</b> Licross® 21 Protected	<b>Order number: 52TP12DN4AXG</b> <b>EAN: 4058352903940</b>	<b>LP number</b> 58524_231
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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	21.3	22.7	21.6	23.0	23.3	18.0	19.4	18.4	19.7	20.1
	3H	21.7	22.9	22.1	23.3	23.6	18.4	19.6	18.7	20.0	20.3
	4H	21.9	23.1	22.3	23.4	23.8	18.5	19.7	18.9	20.1	20.4
	6H	22.2	23.3	22.6	23.6	24.0	18.6	19.7	19.1	20.1	20.5
	8H	22.5	23.4	22.9	23.7	24.2	18.7	19.7	19.2	20.1	20.5
	12H	22.6	23.5	23.0	23.9	24.3	18.8	19.7	19.2	20.1	20.5
4H	2H	21.3	22.5	21.7	22.9	23.2	18.5	19.7	18.9	20.1	20.4
	3H	21.9	22.9	22.3	23.3	23.7	19.0	20.0	19.4	20.4	20.8
	4H	22.2	23.1	22.7	23.5	23.9	19.2	20.1	19.7	20.5	21.0
	6H	22.6	23.4	23.1	23.8	24.3	19.4	20.2	19.9	20.6	21.1
	8H	22.9	23.5	23.3	24.0	24.5	19.5	20.2	20.0	20.6	21.1
	12H	23.2	23.7	23.6	24.2	24.7	19.6	20.2	20.1	20.6	21.1
8H	4H	22.2	22.9	22.7	23.4	23.8	19.5	20.1	19.9	20.6	21.1
	6H	22.7	23.3	23.2	23.8	24.3	19.8	20.3	20.2	20.8	21.3
	8H	23.0	23.5	23.5	24.0	24.5	19.9	20.4	20.4	20.9	21.4
	12H	23.4	23.8	24.0	24.3	24.9	20.0	20.4	20.5	20.9	21.4
12H	4H	22.2	22.8	22.7	23.3	23.8	19.5	20.1	20.0	20.6	21.1
	6H	22.7	23.2	23.2	23.7	24.2	19.9	20.3	20.4	20.8	21.3
	8H	23.1	23.5	23.6	24.0	24.5	20.0	20.4	20.5	20.9	21.5

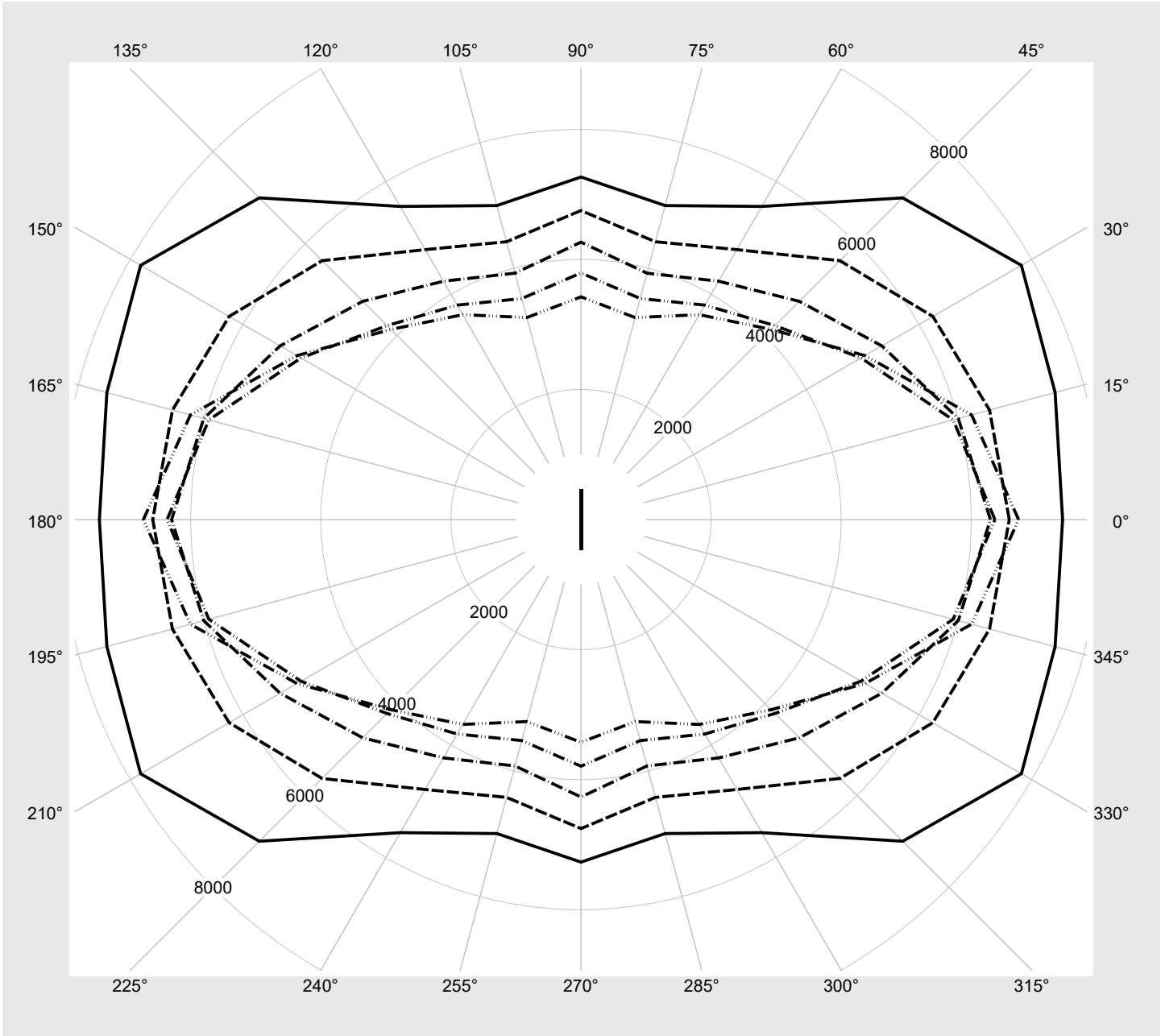
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1480</b>	<b>H(C0) = 13</b>	<b>H(C180) = 13</b>
			<b>B = 78</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

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°	22464.1	23874.9	26131.3	23526.8	16699.7	12403.9	11520.0	
	50°	16084.8	17187.6	19196.0	17115.3	11977.8	9071.5	8632.9	
	55°	11779.2	12532.9	14007.7	12293.1	8746.3	7065.3	6993.6	
	60°	9013.0	9428.1	10287.3	9119.2	6775.5	5809.5	5970.4	
	65°	7405.4	7547.6	7819.0	6995.6	5559.8	4998.7	5267.6	
	70°	6585.4	6504.0	6247.2	5630.1	4793.0	4423.0	4751.7	
	75°	6295.6	6005.5	5341.9	4746.5	4232.0	3922.7	4266.3	
	80°	6364.4	5924.2	4971.0	4217.5	3808.0	3518.6	3792.8	
	85°	6728.8	6217.7	5042.4	4135.2	3638.1	3216.0	3425.0	

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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	57.5
95	240	252	9492	54.3
90	227	250	9015	51.4
85	213	248	8497	48.2
80	200	245	8011	45.4
75	186	243	7482	42.2
70	173	240	6986	39.3
65	160	237	6487	36.5
60	147	234	5983	33.5
55	135	231	5515	31.0
50	122	227	5003	28.0
45	109	223	4485	25.3
40	97	219	4002	22.7
35	85	214	3516	20.1
30	72	208	2987	17.4
25	60	201	2495	14.9
20	48	193	1998	12.3
15	36	182	1499	9.6
10	24	168	996	7.1
5	12	142	493	4.7
2	4	102	153	3.0