

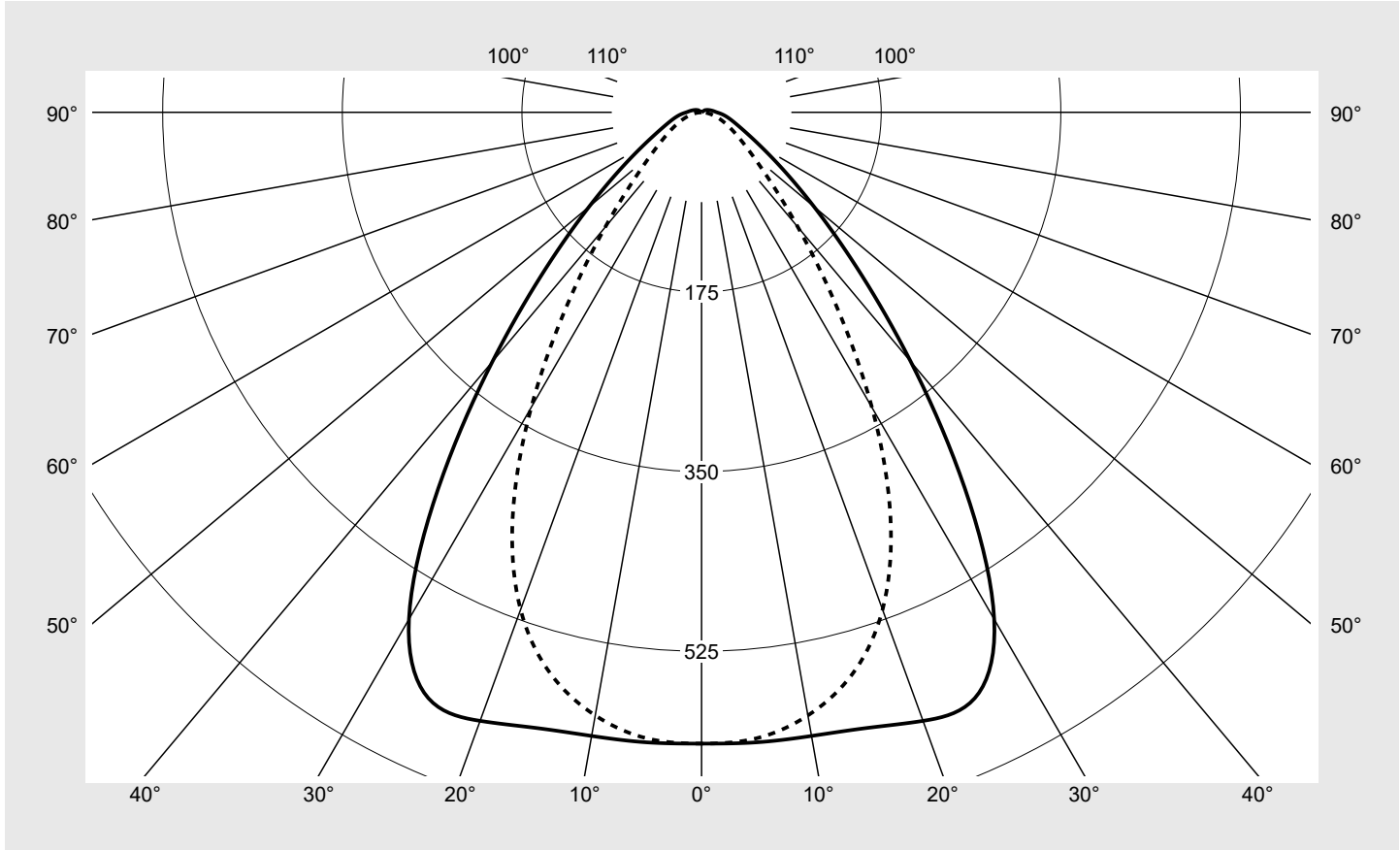


# Photometric test report

<b>Family</b> <b>Licross® Protected</b>	<b>Order number: 51TP12DN49XF</b> <b>EAN: 4058352265109</b>	<b>LP number</b> <b>58524_31</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 = 9020 lm Power consumption = 56.2 W Luminous efficacy = 160.5 lm/W	<b>serial documentation</b> <b>12.12.2019</b>
		

**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

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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

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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	20.9	22.3	21.3	22.6	23.0	17.7	19.1	18.0	19.4	19.7
	3H	21.3	22.6	21.7	22.9	23.3	18.0	19.3	18.4	19.6	20.0
	4H	21.6	22.7	22.0	23.1	23.5	18.2	19.4	18.6	19.7	20.1
	6H	21.9	22.9	22.3	23.3	23.7	18.3	19.4	18.7	19.8	20.1
	8H	22.1	23.0	22.5	23.4	23.8	18.4	19.4	18.8	19.8	20.2
	12H	22.3	23.1	22.7	23.5	23.9	18.4	19.3	18.8	19.7	20.2
4H	2H	21.0	22.2	21.4	22.5	22.9	18.2	19.3	18.6	19.7	20.1
	3H	21.5	22.5	21.9	22.9	23.3	18.7	19.6	19.1	20.0	20.4
	4H	21.9	22.7	22.3	23.1	23.6	18.9	19.8	19.3	20.2	20.6
	6H	22.3	23.0	22.7	23.4	23.9	19.1	19.8	19.5	20.3	20.7
	8H	22.5	23.2	23.0	23.6	24.1	19.1	19.8	19.6	20.3	20.8
	12H	22.8	23.4	23.3	23.8	24.3	19.2	19.8	19.7	20.3	20.8
8H	4H	21.9	22.6	22.3	23.0	23.5	19.1	19.8	19.6	20.2	20.7
	6H	22.4	22.9	22.9	23.4	23.9	19.4	20.0	19.9	20.4	20.9
	8H	22.7	23.2	23.2	23.7	24.2	19.5	20.0	20.0	20.5	21.0
	12H	23.1	23.5	23.6	24.0	24.5	19.6	20.0	20.1	20.5	21.1
12H	4H	21.9	22.5	22.3	22.9	23.4	19.2	19.7	19.7	20.2	20.7
	6H	22.4	22.9	22.9	23.3	23.9	19.5	20.0	20.0	20.4	21.0
	8H	22.7	23.1	23.2	23.6	24.2	19.6	20.1	20.2	20.6	21.1

<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	$\gamma$	0° 180°	15°	30°	45°	60°	75°	90° 270°
			165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°	
			Luminance in cd/m²					
	45°	20262.6	21535.1	23570.5	21221.1	15063.2	11188.4	10391.0
	50°	14508.5	15503.2	17314.8	15438.0	10804.0	8182.5	7786.9
	55°	10624.8	11304.6	12634.9	11088.4	7889.2	6372.9	6308.2
	60°	8129.8	8504.1	9279.2	8225.5	6111.5	5240.2	5385.3
	65°	6679.7	6807.9	7052.7	6310.0	5014.9	4508.8	4751.4
	70°	5940.0	5866.6	5634.9	5078.4	4323.3	3989.6	4286.0
	75°	5678.6	5417.0	4818.4	4281.3	3817.3	3538.3	3848.2
	80°	5740.7	5343.6	4483.9	3804.2	3434.8	3173.8	3421.1
	85°	6069.4	5608.4	4548.2	3730.0	3281.6	2900.8	3089.4

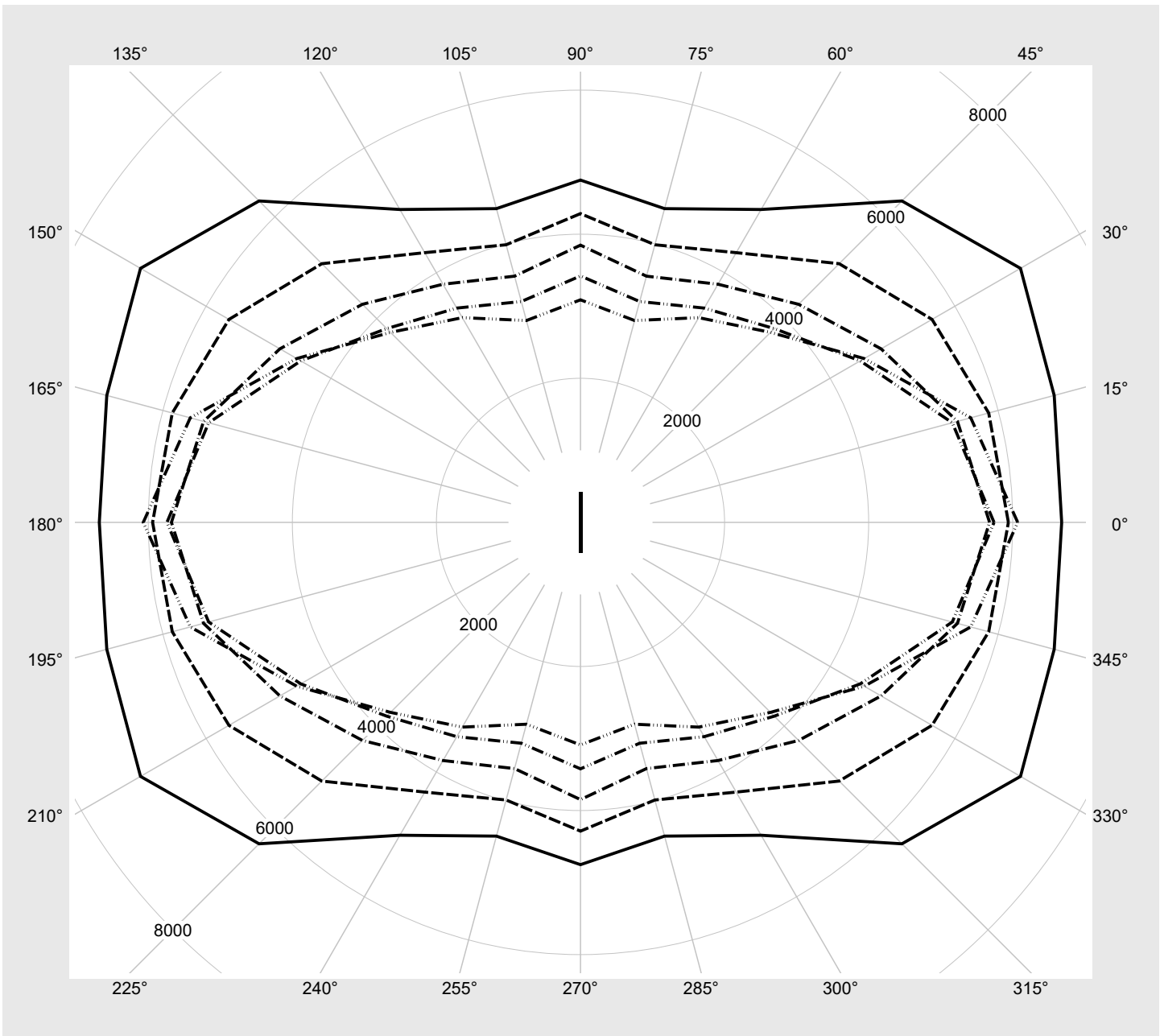
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**Family**  
Licross® Protected

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**EAN: 4058352265109**

**LP number**  
**58524\_31**

**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	9020	56.2
95	240	252	8568	53.2
90	227	250	8117	50.2
85	213	248	7666	47.3
80	200	245	7215	44.3
75	187	243	6764	41.5
70	174	240	6313	38.6
65	161	238	5862	35.8
60	148	234	5411	33.0
55	135	231	4960	30.2
50	122	227	4510	27.5
45	109	224	4059	24.9
40	97	219	3608	22.2
35	84	214	3157	19.7
30	72	208	2706	17.0
25	60	201	2255	14.5
20	48	194	1804	12.0
15	36	183	1353	9.6
10	24	169	902	7.2
5	12	143	451	4.6