

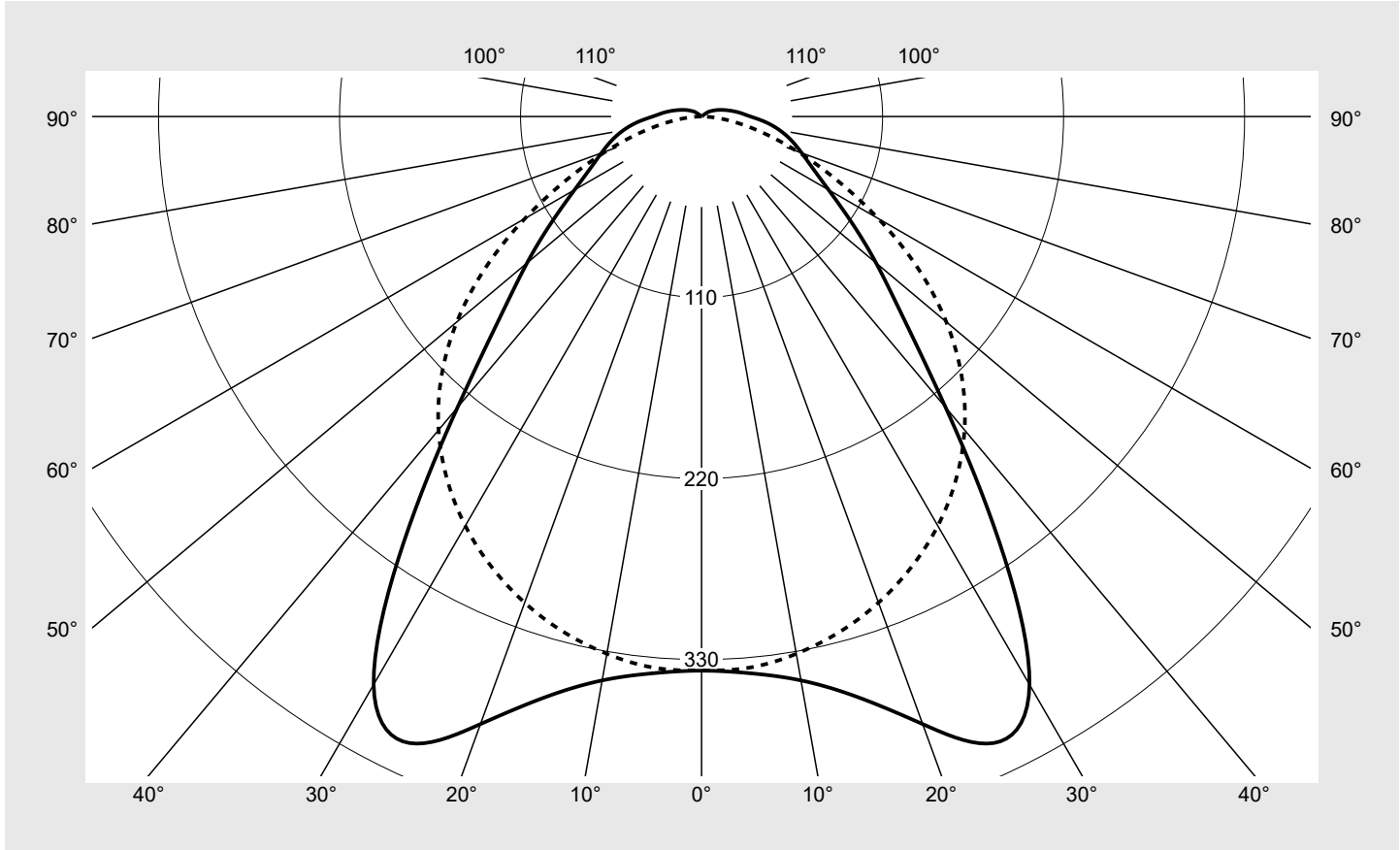


# Photometric test report

<b>Family</b> <b>Licross® Protected</b>	<b>Order number: 51TS12DN48XF</b> <b>EAN: 4058352210031</b>	<b>LP number</b> <b>58522_26</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 = 8470 lm Power consumption = 56.2 W Luminous efficacy = 150.7 lm/W	<b>serial documentation</b> <b>12.12.2019</b>
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 420 cd/klm**



Classifications	
DIN 5040	A 4 1
CIE	N1=54 N2=82 N3=95 N4=97 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	96.8%
$\phi_o$	3.2%

**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°	336.7	336.7	336.7	336.7	336.7	336.7	336.7	2.0	2.0
5°	339.6	338.6	335.9	336.3	336.9	336.0	336.1	16.1	18.1
10°	347.9	347.0	341.3	338.0	335.2	332.1	331.5	32.3	50.4
15°	365.1	363.4	352.6	343.0	333.9	326.3	324.2	48.8	99.2
20°	392.9	389.6	370.2	350.5	332.5	318.7	314.4	66.1	165.3
25°	420.1	417.2	393.2	361.7	330.8	309.3	301.9	83.9	249.2
30°	398.6	403.0	395.6	369.9	329.0	297.6	287.2	97.7	346.8
35°	315.4	327.2	346.9	353.5	322.7	283.2	269.5	100.9	447.7
40°	230.7	242.3	270.7	302.4	300.6	265.5	248.6	95.2	542.9
45°	173.9	182.1	205.6	239.8	258.3	240.0	223.6	85.6	628.5
50°	138.5	144.5	161.6	188.3	208.7	204.6	194.1	75.2	703.7
55°	110.6	115.5	130.2	150.3	164.6	163.9	160.4	64.4	768.0
60°	89.1	92.4	103.6	120.9	128.5	124.9	123.9	53.5	821.6
65°	74.6	76.3	82.5	95.4	99.4	91.8	89.8	43.7	865.3
70°	64.8	65.1	66.4	73.4	75.2	65.0	61.7	35.1	900.3
75°	56.7	56.1	54.1	55.3	54.0	43.4	39.3	27.4	927.8
80°	48.3	47.2	43.9	40.6	36.4	26.8	21.9	20.7	948.5
85°	39.1	38.0	34.5	29.4	22.9	14.4	9.1	14.9	963.3
90°	29.8	28.8	25.7	20.2	13.1	5.8	0.8	9.9	973.3
95°	24.0	23.5	21.4	16.6	9.9	3.5	0.7	7.9	981.2
100°	19.2	18.8	17.3	13.3	7.4	1.9	0.6	6.2	987.4
105°	15.1	14.8	13.6	10.2	5.0	0.8	0.6	4.6	992.0
110°	11.8	11.3	10.2	7.3	2.9	0.6	0.6	3.3	995.3
115°	9.0	8.5	7.3	4.7	1.4	0.7	0.7	2.3	997.6
120°	6.6	6.1	4.9	2.7	0.8	0.7	0.7	1.5	999.1
125°	4.4	4.0	2.9	1.3	0.7	0.8	0.8	0.9	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	20.6	22.2	21.0	22.5	22.9	22.5	24.1	22.8	24.4	24.7
	3H	21.8	23.2	22.1	23.6	23.9	23.5	25.0	23.9	25.3	25.6
	4H	22.5	23.8	22.8	24.2	24.6	23.8	25.2	24.2	25.6	25.9
	6H	23.2	24.5	23.6	24.9	25.3	24.1	25.4	24.5	25.7	26.1
	8H	23.6	24.8	24.0	25.2	25.6	24.2	25.4	24.6	25.8	26.2
	12H	24.0	25.1	24.4	25.5	25.9	24.3	25.4	24.7	25.8	26.2
4H	2H	21.4	22.8	21.8	23.2	23.5	22.9	24.3	23.3	24.7	25.0
	3H	22.8	24.0	23.2	24.4	24.8	24.2	25.4	24.6	25.8	26.2
	4H	23.6	24.7	24.0	25.1	25.5	24.7	25.8	25.1	26.2	26.6
	6H	24.5	25.4	25.0	25.9	26.3	25.0	26.0	25.5	26.4	26.9
	8H	25.0	25.8	25.4	26.3	26.7	25.2	26.0	25.6	26.5	26.9
	12H	25.5	26.2	25.9	26.7	27.2	25.3	26.0	25.8	26.5	27.0
8H	4H	24.0	24.9	24.5	25.3	25.8	25.0	25.8	25.4	26.3	26.7
	6H	25.1	25.8	25.6	26.3	26.8	25.5	26.2	26.0	26.7	27.2
	8H	25.7	26.3	26.2	26.8	27.3	25.7	26.3	26.2	26.8	27.3
	12H	26.3	26.9	26.8	27.4	27.9	25.9	26.4	26.4	26.9	27.4
12H	4H	24.1	24.8	24.6	25.3	25.8	25.0	25.8	25.5	26.2	26.7
	6H	25.2	25.8	25.7	26.3	26.8	25.6	26.2	26.1	26.7	27.2
	8H	25.9	26.4	26.4	26.9	27.4	25.9	26.4	26.4	26.9	27.4

<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°		15464.0	16276.2	18641.5	22258.6	24735.8	23871.1	23203.3	
50°		13187.2	13835.8	15740.3	18848.1	21668.8	22217.1	22158.3	
55°		11423.8	12011.5	13812.5	16457.0	18819.2	19749.1	20514.4	
60°		10149.4	10603.7	12161.9	14730.2	16478.4	17051.8	18187.6	
65°		9545.4	9850.7	10935.7	13226.4	14645.5	14593.0	15594.5	
70°		9528.5	9689.4	10205.0	11898.2	13124.8	12471.2	13235.5	
75°		9902.0	9943.2	9967.0	10878.9	11686.9	10592.4	11135.6	
80°		10487.4	10432.9	10204.6	10275.5	10439.2	9102.8	9237.8	
85°		11321.5	11260.2	10953.1	10549.9	9885.2	8096.2	7679.3	

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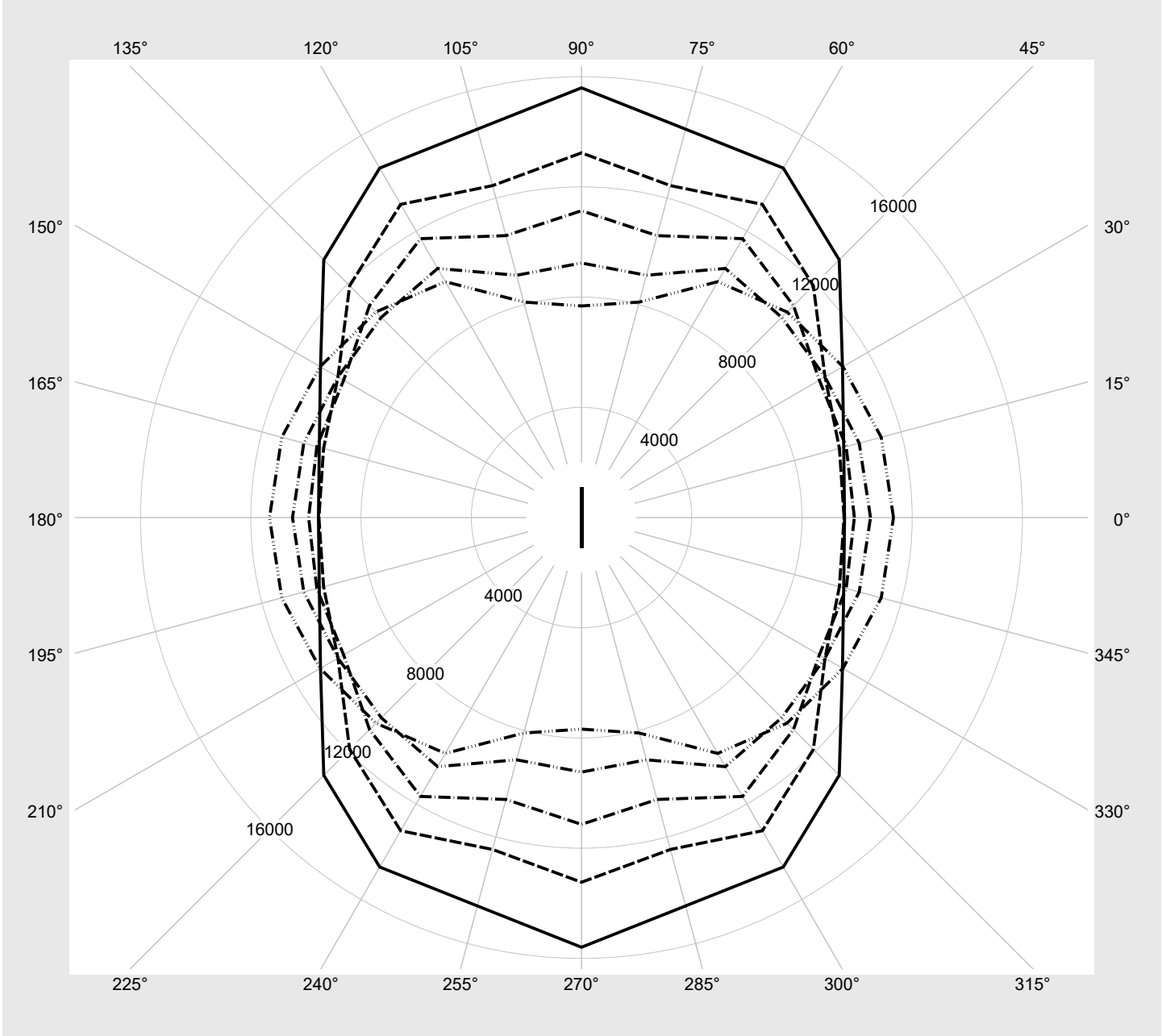
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Licross® Protected

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**LP number**  
**58522\_26**

**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	8470	56.2
95	240	252	8045	53.2
90	227	250	7621	50.2
85	213	248	7198	47.3
80	200	245	6774	44.3
75	187	243	6351	41.5
70	174	240	5928	38.6
65	161	238	5504	35.8
60	148	234	5081	33.0
55	135	231	4657	30.2
50	122	227	4234	27.5
45	109	224	3811	24.9
40	97	219	3387	22.2
35	84	214	2964	19.7
30	72	208	2540	17.0
25	60	201	2117	14.5
20	48	194	1694	12.0
15	36	183	1270	9.6
10	24	169	847	7.2
5	12	143	423	4.6