

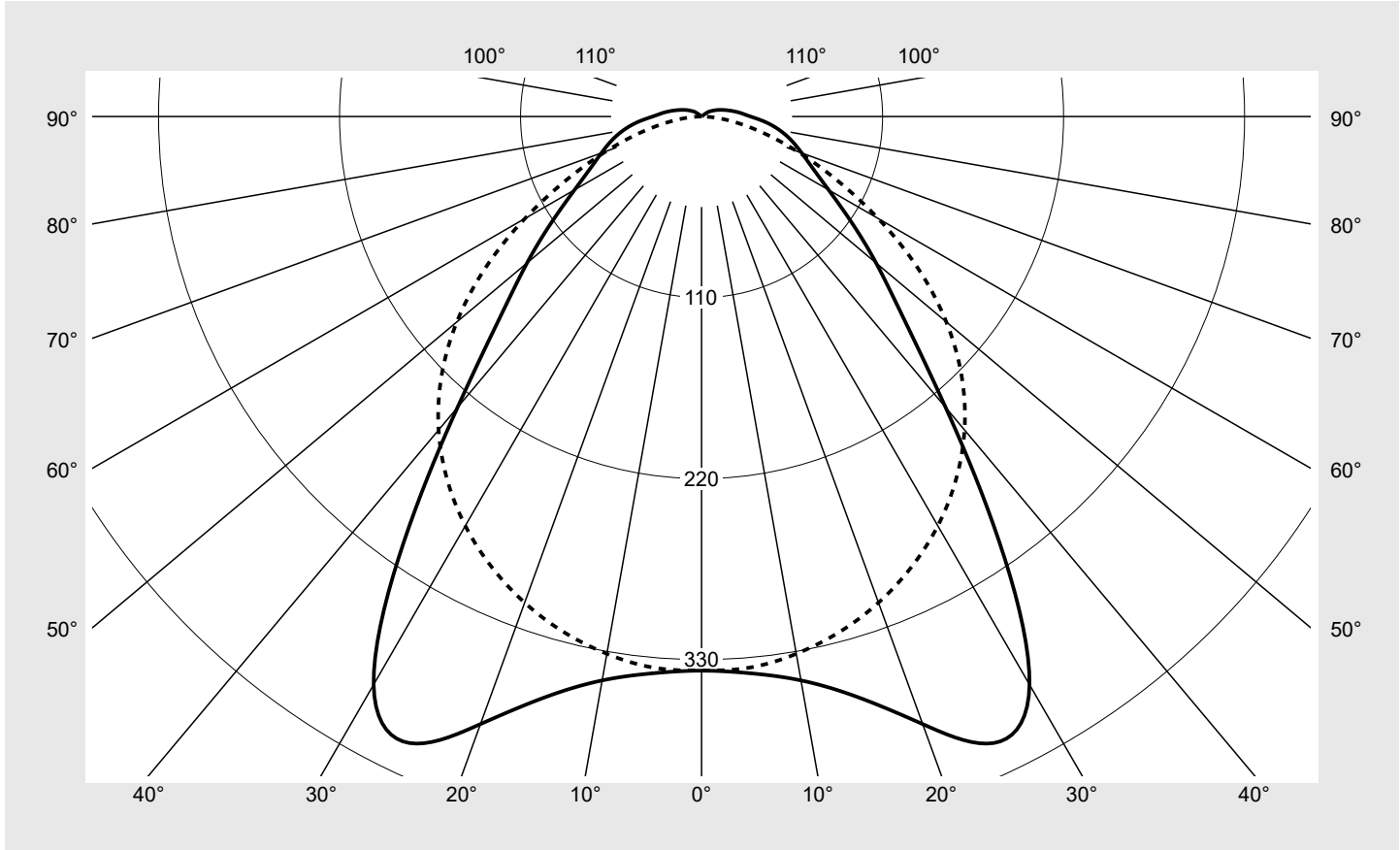


# Photometric test report

<b>Family</b> <b>Licross® 21 Protected</b>	<b>Order number: 52TD1BVN45XGD</b> <b>EAN: 4058352940952</b>	<b>LP number</b> <b>58522_244</b>
	<b>Version</b> prismatic cover, frosted, wide distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI CLO <b>Setting</b> AC-mode <b>Rated values</b> Net luminous flux = 5000 lm Power consumption = 29.3 W Luminous efficacy = 170.6 lm/W	<b>serial documentation</b> <b>29.08.2023</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>
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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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UGR-Table		Standard room									
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	18.8	20.4	19.1	20.7	21.0	20.6	22.3	21.0	22.6	22.9
	3H	19.9	21.4	20.3	21.7	22.1	21.7	23.1	22.0	23.5	23.8
	4H	20.6	22.0	21.0	22.4	22.7	22.0	23.4	22.4	23.7	24.1
	6H	21.4	22.7	21.8	23.0	23.4	22.3	23.5	22.7	23.9	24.3
	8H	21.8	23.0	22.2	23.4	23.8	22.4	23.6	22.8	23.9	24.3
	12H	22.2	23.3	22.6	23.7	24.1	22.4	23.5	22.8	23.9	24.3
4H	2H	19.6	21.0	20.0	21.3	21.7	21.1	22.5	21.5	22.8	23.2
	3H	21.0	22.1	21.4	22.5	22.9	22.4	23.5	22.8	23.9	24.3
	4H	21.8	22.8	22.2	23.2	23.7	22.9	23.9	23.3	24.3	24.8
	6H	22.7	23.6	23.1	24.0	24.5	23.2	24.1	23.7	24.6	25.0
	8H	23.1	24.0	23.6	24.4	24.9	23.3	24.2	23.8	24.6	25.1
	12H	23.6	24.4	24.1	24.8	25.3	23.4	24.2	23.9	24.7	25.1
8H	4H	22.2	23.0	22.6	23.5	24.0	23.1	24.0	23.6	24.4	24.9
	6H	23.3	24.0	23.7	24.4	24.9	23.7	24.4	24.1	24.8	25.3
	8H	23.9	24.5	24.3	25.0	25.5	23.9	24.5	24.4	25.0	25.5
	12H	24.5	25.0	25.0	25.5	26.1	24.0	24.6	24.5	25.1	25.6
12H	4H	22.3	23.0	22.7	23.5	24.0	23.2	24.0	23.7	24.4	24.9
	6H	23.4	24.0	23.9	24.5	25.0	23.8	24.4	24.3	24.9	25.4
	8H	24.0	24.6	24.6	25.1	25.6	24.0	24.6	24.6	25.1	25.6

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1480	H(C0) = 13	H(C180) = 13
						B = 78	H(C90) = 0	H(C270) = 0
C-planes	$\gamma$	0°	15°	30°	45°	60°	75°	90°
		180°	165°	150°	135°	120°	105°	270°
		195°	210°	225°	240°	255°	285°	
		345°	330°	315°	300°			
		Luminance in cd/m <sup>2</sup>						
45°		9128.7	9608.1	11004.4	13139.7	14602.0	14091.6	13697.3
50°		7784.7	8167.5	9291.8	11126.4	12791.5	13115.2	13080.5
55°		6743.7	7090.6	8153.7	9714.9	11109.3	11658.2	12110.0
60°		5991.4	6259.5	7179.4	8695.5	9727.5	10066.0	10736.5
65°		5634.9	5815.1	6455.6	7807.8	8645.5	8614.5	9205.7
70°		5624.8	5719.8	6024.2	7023.7	7747.8	7362.0	7813.1
75°		5845.3	5869.6	5883.7	6422.0	6899.0	6252.9	6573.6
80°		6190.9	6158.7	6024.0	6065.8	6162.5	5373.6	5453.2
85°		6683.3	6647.1	6465.8	6227.8	5835.4	4779.3	4533.2

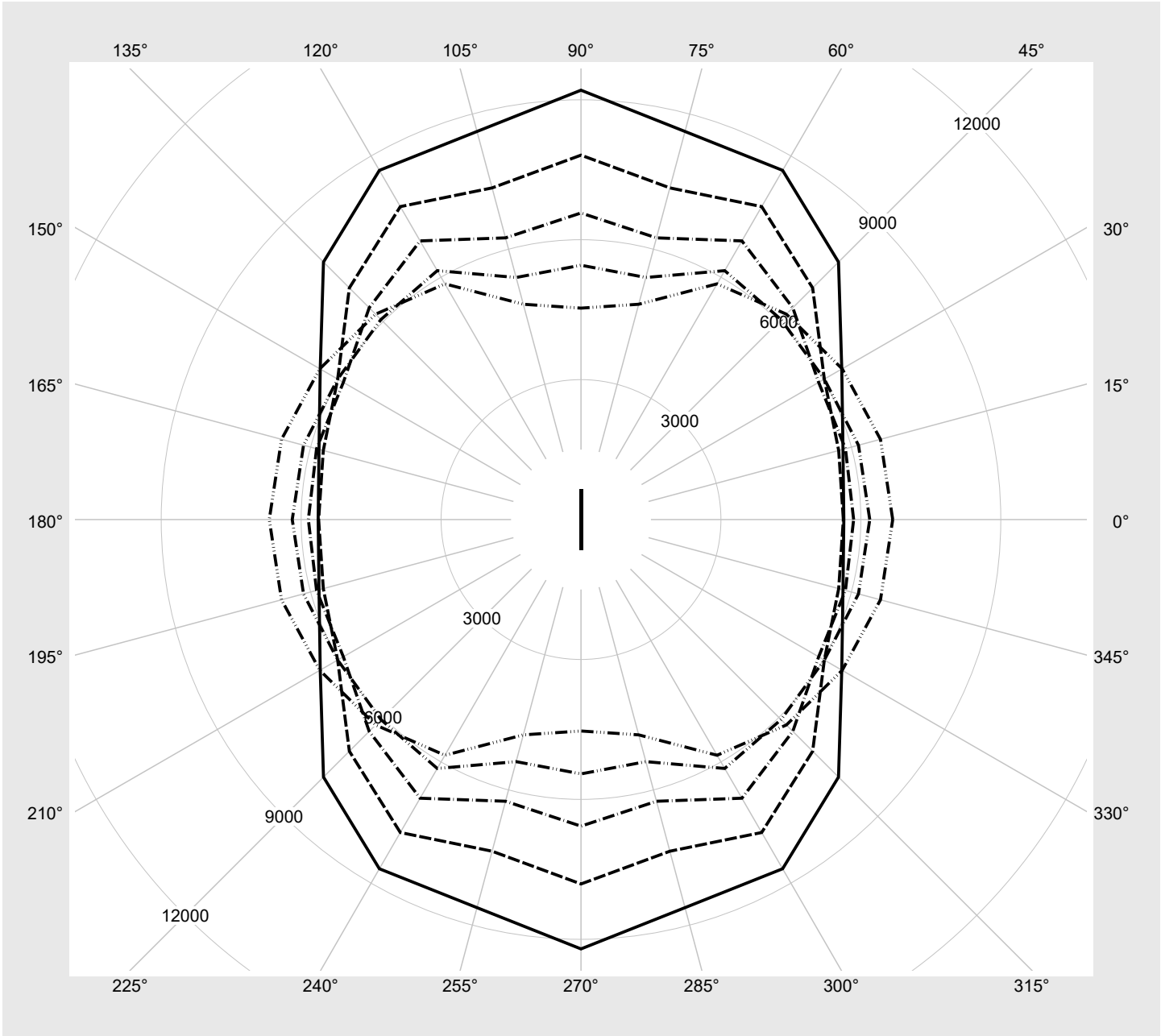
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  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]	Power consumption [W]	Power consumption [W]
				start of lifetime	end of lifetime	average
100	254	254	5000	29.3	33.4	31.4
95	241	252	4754	28.0	31.7	29.8
90	228	250	4506	26.6	30.0	28.3
85	215	248	4256	25.3	28.4	26.8
80	202	246	4006	23.9	26.9	25.4
75	189	243	3753	22.5	25.4	24.0
70	176	241	3501	21.1	23.8	22.5
65	163	238	3246	19.7	22.2	21.0
60	150	235	2992	18.2	20.5	19.4
55	138	232	2755	16.8	19.1	18.0
50	125	228	2499	15.3	17.4	16.4
45	112	224	2242	13.9	15.7	14.8
40	100	220	2003	12.4	14.1	13.2
35	87	215	1744	10.9	12.3	11.6
30	75	209	1503	9.6	10.8	10.2
25	62	202	1242	8.1	9.1	8.6
20	50	194	1001	6.8	7.6	7.2
15	38	184	757	5.4	6.0	5.7