

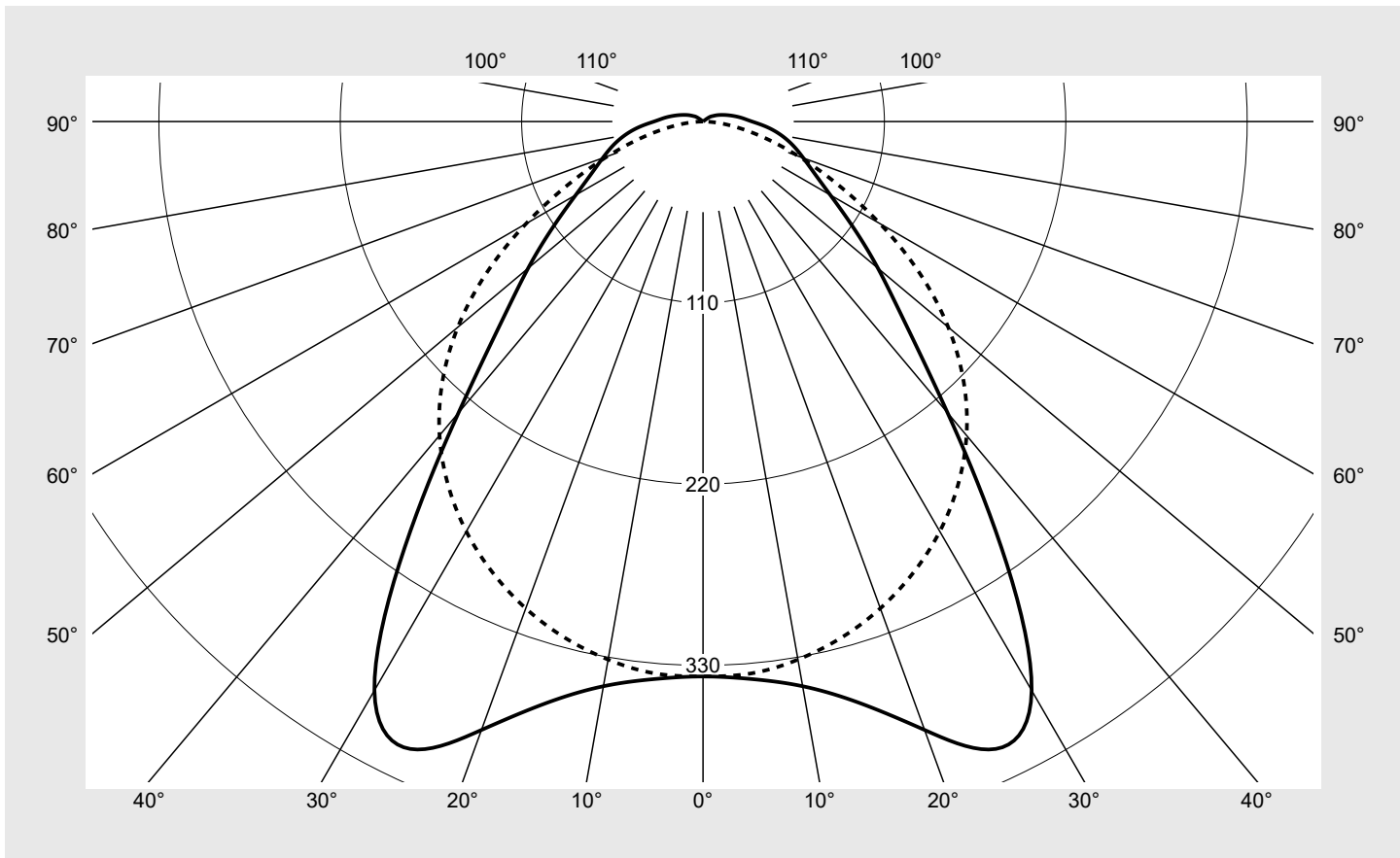


# Photometric test report

<b>Family</b> <b>Licross® 21 Protected</b>	<b>Order number: 52TD1BVN455G</b> <b>EAN: 4058352979525</b>	<b>LP number</b> <b>58522_259</b>
	<b>Version</b> prismatic cover, frosted, wide distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI CLO <b>Rated values</b> Net luminous flux = 5500 lm Power consumption = 32.3 W Luminous efficacy = 170.3 lm/W	<b>serial documentation</b> <b>07.11.2023</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>
		<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	19.1	20.7	19.5	21.0	21.4	21.0	22.6	21.3	22.9	23.2
	3H	20.3	21.7	20.6	22.1	22.4	22.0	23.5	22.4	23.8	24.1
	4H	21.0	22.3	21.3	22.7	23.1	22.3	23.7	22.7	24.1	24.4
	6H	21.7	23.0	22.1	23.4	23.8	22.6	23.9	23.0	24.2	24.6
	8H	22.1	23.3	22.5	23.7	24.1	22.7	23.9	23.1	24.3	24.7
	12H	22.5	23.6	22.9	24.0	24.4	22.8	23.9	23.2	24.3	24.7
4H	2H	19.9	21.3	20.3	21.7	22.0	21.4	22.8	21.8	23.2	23.5
	3H	21.3	22.5	21.7	22.9	23.3	22.7	23.9	23.1	24.3	24.7
	4H	22.1	23.2	22.5	23.6	24.0	23.2	24.3	23.6	24.7	25.1
	6H	23.0	23.9	23.5	24.4	24.8	23.5	24.5	24.0	24.9	25.4
	8H	23.5	24.3	23.9	24.8	25.2	23.7	24.5	24.1	25.0	25.4
	12H	24.0	24.7	24.4	25.2	25.7	23.8	24.5	24.3	25.0	25.5
8H	4H	22.5	23.4	23.0	23.8	24.3	23.5	24.3	23.9	24.8	25.2
	6H	23.6	24.3	24.1	24.8	25.3	24.0	24.7	24.5	25.2	25.7
	8H	24.2	24.8	24.7	25.3	25.8	24.2	24.8	24.7	25.3	25.8
	12H	24.8	25.4	25.3	25.9	26.4	24.4	24.9	24.9	25.4	25.9
12H	4H	22.6	23.3	23.1	23.8	24.3	23.5	24.3	24.0	24.7	25.2
	6H	23.7	24.3	24.2	24.8	25.3	24.1	24.7	24.6	25.2	25.7
	8H	24.4	24.9	24.9	25.4	25.9	24.4	24.9	24.9	25.4	25.9

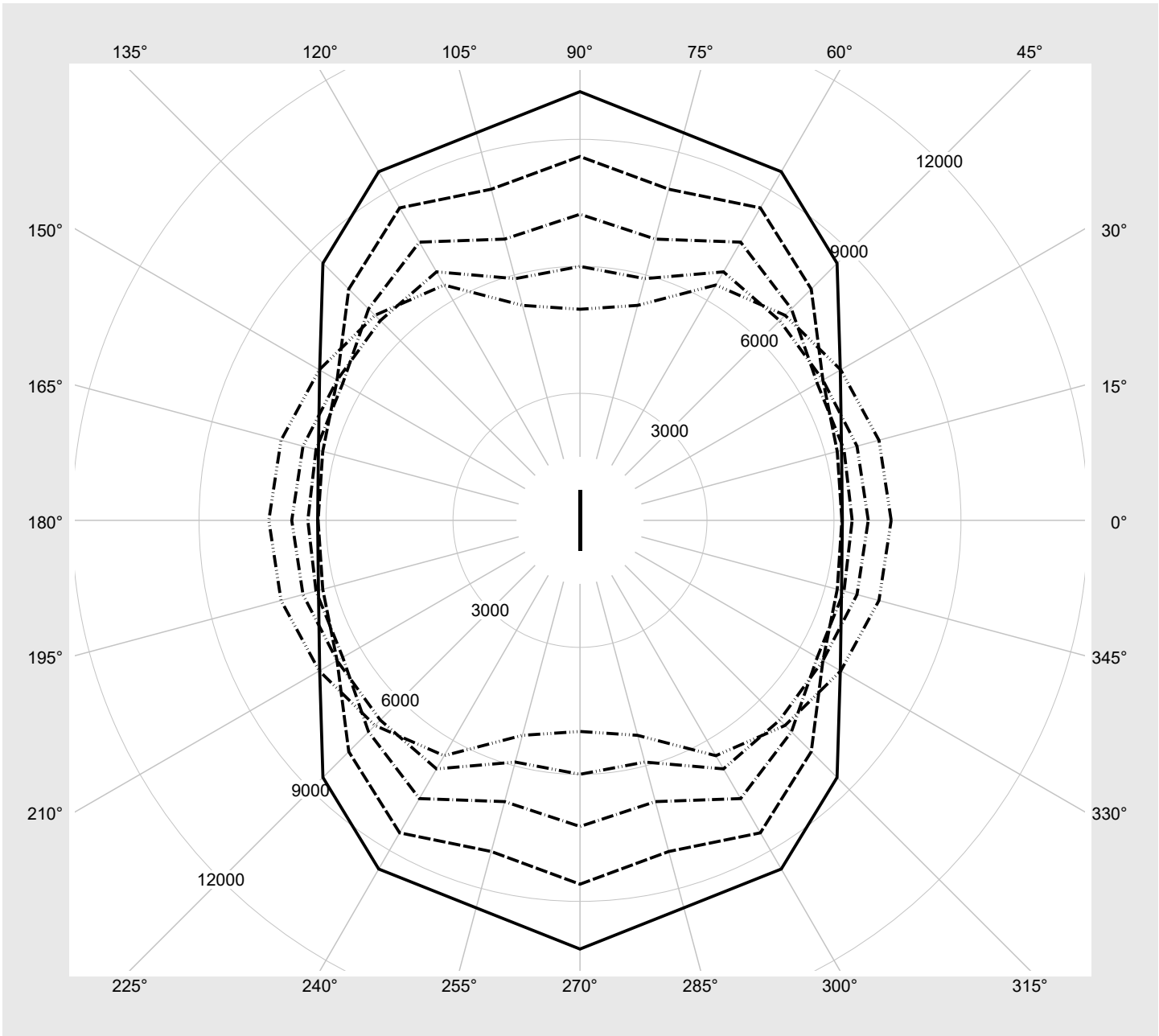
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1480</b>	<b>H(C0) = 13</b>	<b>H(C180) = 13</b>
			<b>B = 78</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

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°		10041.6	10569.0	12104.9	14453.6	16062.2	15500.7	15067.0	
50°		8563.1	8984.3	10221.0	12239.1	14070.7	14426.7	14388.5	
55°		7418.1	7799.7	8969.1	10686.4	12220.3	12824.1	13321.0	
60°		6590.6	6885.5	7897.4	9565.0	10700.3	11072.6	11810.1	
65°		6198.3	6396.6	7101.1	8588.6	9510.0	9476.0	10126.3	
70°		6187.3	6291.8	6626.6	7726.1	8522.6	8098.2	8594.5	
75°		6429.9	6456.6	6472.1	7064.2	7588.9	6878.2	7230.9	
80°		6810.0	6774.6	6626.4	6672.4	6778.7	5910.9	5998.5	
85°		7351.6	7311.8	7112.4	6850.6	6419.0	5257.3	4986.6	

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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]	Power consumption [W]	Power consumption [W]
				start of lifetime	end of lifetime	average
100	254	254	5500	32.3	38.3	35.3
95	241	252	5231	30.7	36.4	33.6
90	228	250	4957	29.0	34.5	31.8
85	215	248	4685	27.6	32.5	30.0
80	202	246	4410	26.1	30.7	28.4
75	189	243	4135	24.6	28.8	26.7
70	176	241	3856	23.1	27.0	25.0
65	163	238	3578	21.5	25.2	23.4
60	150	235	3297	20.0	23.4	21.7
55	137	231	3017	18.3	21.6	20.0
50	125	228	2755	16.8	19.8	18.3
45	112	224	2472	15.2	17.9	16.5
40	100	220	2211	13.6	16.1	14.8
35	87	215	1924	11.9	14.1	13.0
30	75	209	1660	10.5	12.2	11.4
25	62	202	1371	8.9	10.4	9.6
20	50	194	1105	7.4	8.6	8.0
15	37	183	814	5.7	6.6	6.2
14	35	181	770	5.5	6.3	5.9