
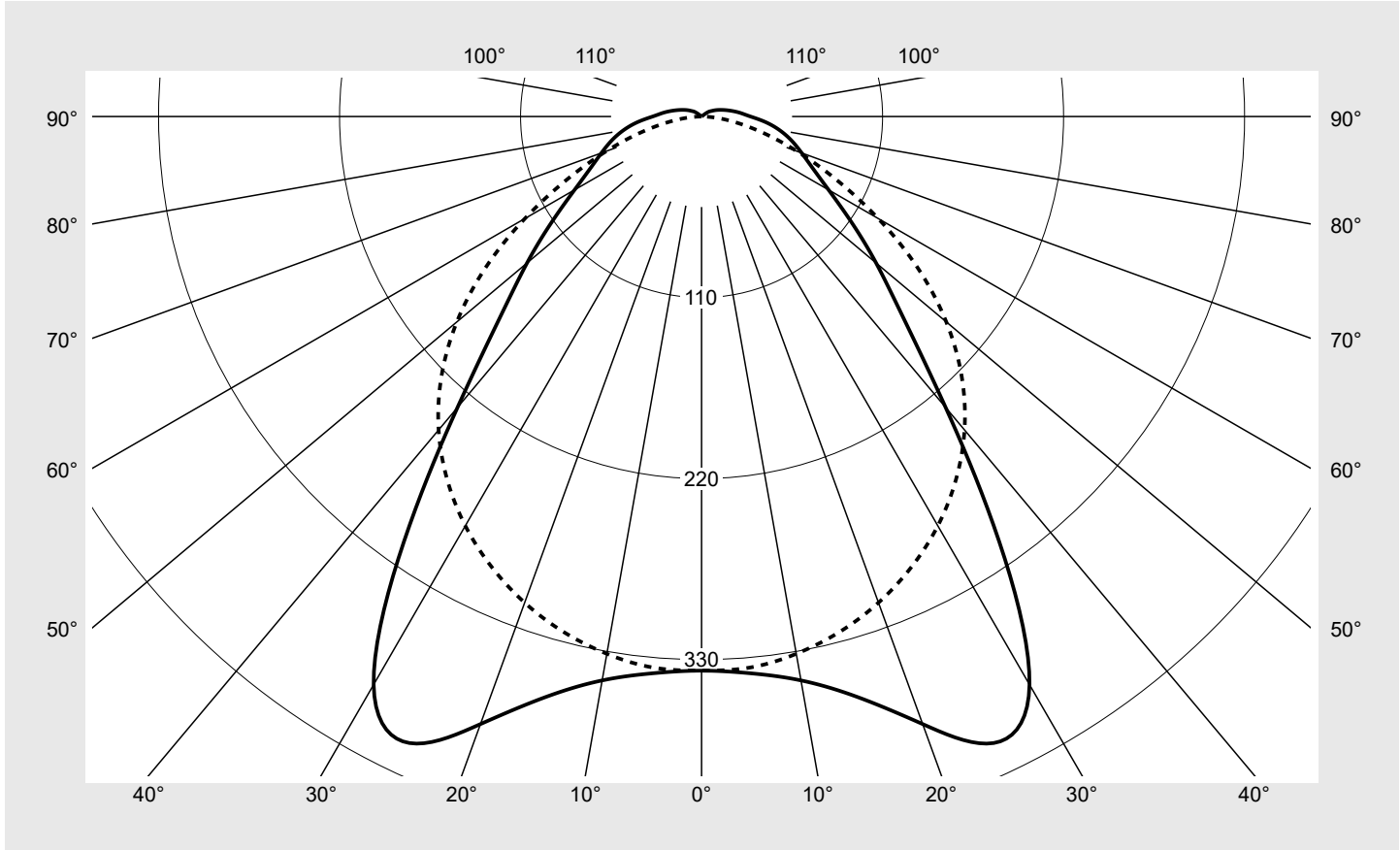


# Photometric test report

<b>Family</b> <b>Licross® 21 Protected</b>	<b>Order number: 52TD1BVN465G</b> <b>EAN: 4058352979549</b>	<b>LP number</b> <b>58522_258</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 = 6500 lm Power consumption = 39.0 W Luminous efficacy = 166.7 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	19.7	21.3	20.0	21.6	21.9	21.6	23.2	21.9	23.5	23.8
	3H	20.8	22.3	21.2	22.7	23.0	22.6	24.0	22.9	24.4	24.7
	4H	21.5	22.9	21.9	23.3	23.6	22.9	24.3	23.3	24.7	25.0
	6H	22.3	23.6	22.7	23.9	24.3	23.2	24.4	23.6	24.8	25.2
	8H	22.7	23.9	23.1	24.3	24.7	23.3	24.5	23.7	24.8	25.3
	12H	23.1	24.2	23.5	24.6	25.0	23.3	24.5	23.8	24.8	25.3
4H	2H	20.5	21.9	20.9	22.3	22.6	22.0	23.4	22.4	23.7	24.1
	3H	21.9	23.0	22.3	23.4	23.8	23.3	24.4	23.7	24.8	25.2
	4H	22.7	23.7	23.1	24.1	24.6	23.8	24.8	24.2	25.2	25.7
	6H	23.6	24.5	24.0	24.9	25.4	24.1	25.1	24.6	25.5	25.9
	8H	24.1	24.9	24.5	25.3	25.8	24.2	25.1	24.7	25.5	26.0
	12H	24.5	25.3	25.0	25.8	26.2	24.4	25.1	24.8	25.6	26.1
8H	4H	23.1	23.9	23.6	24.4	24.9	24.0	24.9	24.5	25.3	25.8
	6H	24.2	24.9	24.7	25.4	25.9	24.6	25.3	25.1	25.8	26.3
	8H	24.8	25.4	25.3	25.9	26.4	24.8	25.4	25.3	25.9	26.4
	12H	25.4	25.9	25.9	26.4	27.0	24.9	25.5	25.5	26.0	26.5
12H	4H	23.2	23.9	23.6	24.4	24.9	24.1	24.9	24.6	25.3	25.8
	6H	24.3	24.9	24.8	25.4	25.9	24.7	25.3	25.2	25.8	26.3
	8H	25.0	25.5	25.5	26.0	26.5	25.0	25.5	25.5	26.0	26.5

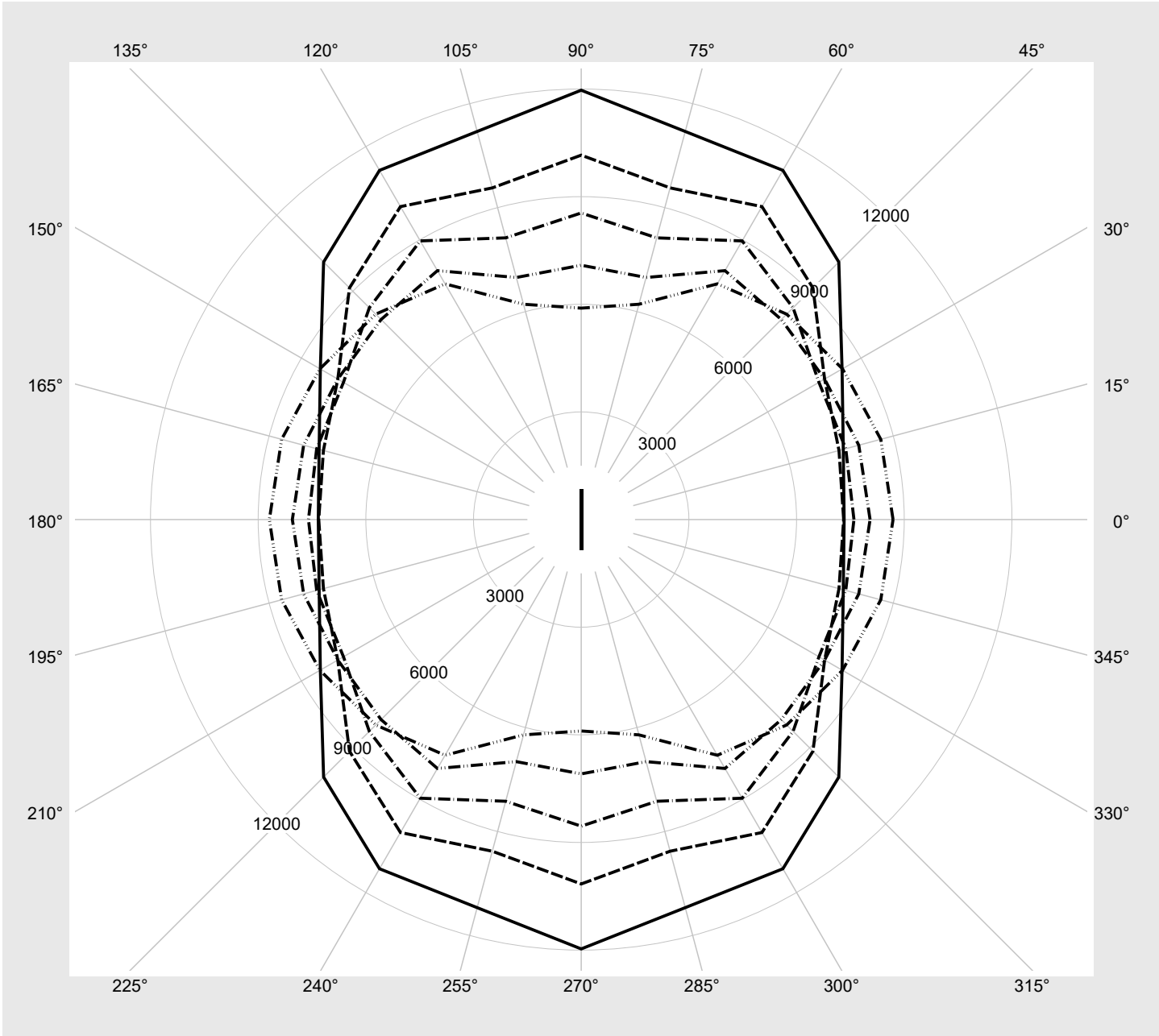
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1480</b>	<b>H(C0) = 13</b>	<b>H(C180) = 13</b>
			<b>B = 78</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

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°		11867.3	12490.6	14305.8	17081.6	18982.6	18319.0	17806.5	
50°		10120.1	10617.8	12079.3	14464.3	16629.0	17049.7	17004.6	
55°		8766.8	9217.8	10599.9	12629.4	14442.2	15155.7	15743.0	
60°		7788.8	8137.4	9333.2	11304.1	12645.8	13085.8	13957.4	
65°		7325.3	7559.6	8392.2	10150.1	11239.1	11198.9	11967.4	
70°		7312.3	7435.8	7831.4	9130.9	10072.2	9570.5	10157.1	
75°		7599.0	7630.5	7648.8	8348.6	8968.7	8128.7	8545.6	
80°		8048.1	8006.3	7831.2	7885.6	8011.2	6985.6	7089.2	
85°		8688.3	8641.2	8405.6	8096.2	7586.1	6213.1	5893.2	

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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	6500	39.0	46.1	42.6
95	241	252	6183	37.1	43.8	40.4
90	227	250	5842	35.0	41.3	38.2
85	214	248	5521	33.0	39.0	36.0
80	201	245	5201	31.1	36.7	33.9
75	188	243	4875	29.2	34.4	31.8
70	175	240	4551	27.3	32.1	29.7
65	162	238	4221	25.4	29.8	27.6
60	149	234	3891	23.5	27.6	25.6
55	137	231	3585	21.8	25.5	23.6
50	124	228	3250	19.9	23.2	21.5
45	111	224	2916	18.0	21.0	19.5
40	99	219	2603	16.3	19.0	17.6
35	86	214	2265	14.4	16.8	15.6
30	74	209	1950	12.7	14.7	13.7
25	62	202	1636	10.9	12.6	11.8
20	49	194	1292	9.0	10.3	9.6
15	37	183	974	7.3	8.3	7.8
10	25	169	654	5.6	6.2	5.9
5	13	145	335	4.0	4.3	4.2
2	6	117	146	3.0	3.2	3.1