
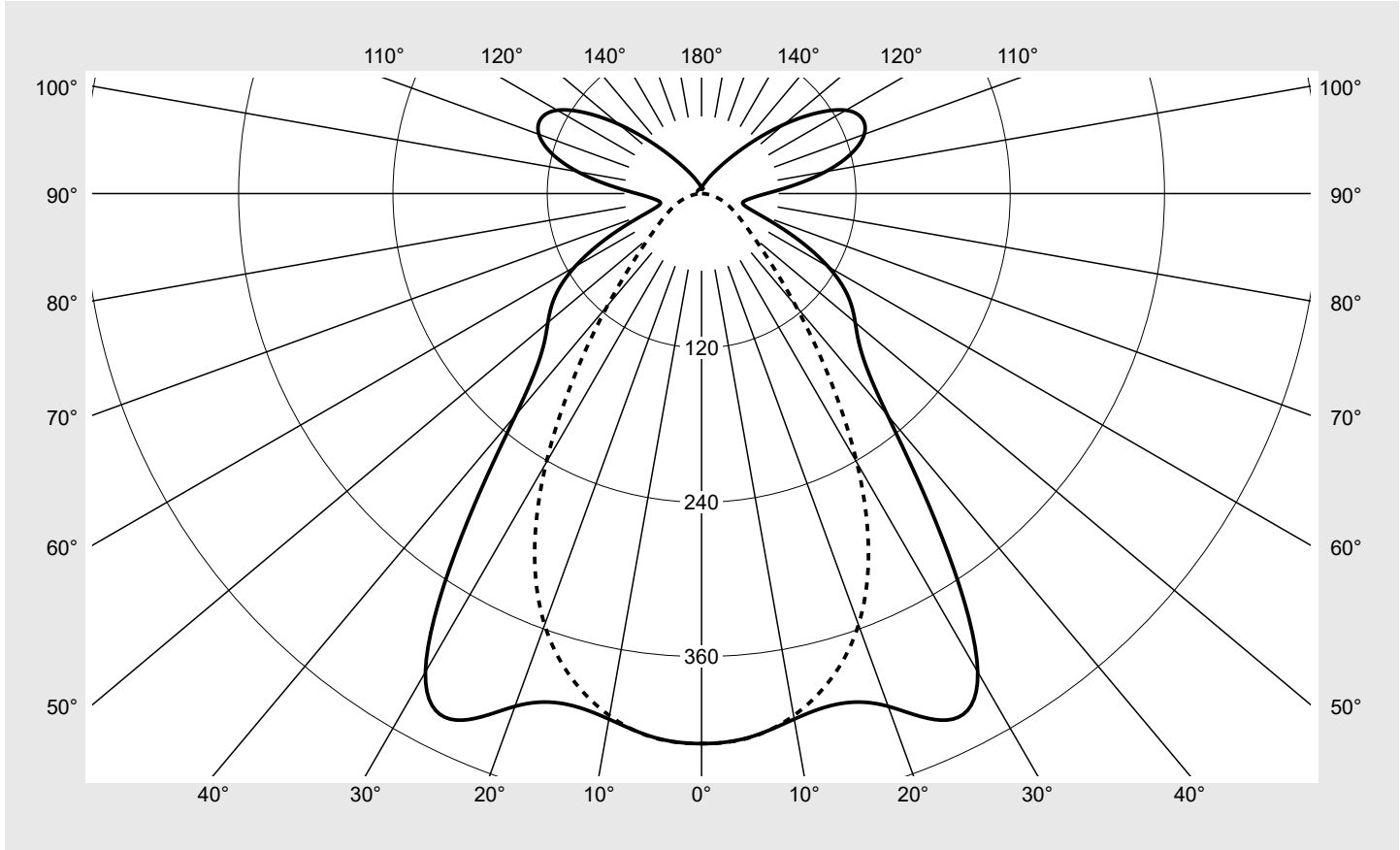


# Photometric test report

<b>Family</b> <b>Licross® 21 Performance</b>	<b>Order number: 52TD16VN455G</b> <b>EAN: 4058352979464</b>	<b>LP number</b> <b>58520_372</b>
	<b>Version</b> cover frosted, direct-/ indirect 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 = 30.0 W Luminous efficacy = 183.3 lm/W	<b>serial documentation</b> <b>07.11.2023</b>
		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 452 cd/klm**



Classifications	
DIN 5040	B 5 1
CIE	N1=65 N2=88 N3=96 N4=79 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	79.3%
$\phi_o$	20.7%

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°	427.7	427.7	427.7	427.7	427.7	427.7	427.7	2.6	2.6
5°	424.4	422.4	420.2	422.1	424.3	424.4	424.8	20.2	22.8
10°	414.9	412.5	408.9	409.5	411.2	411.6	412.2	39.1	61.9
15°	410.8	406.7	398.1	393.2	390.9	389.7	390.1	56.3	118.2
20°	424.3	415.5	394.5	375.8	364.0	357.7	356.8	71.8	190.0
25°	451.7	439.9	403.9	360.3	329.2	311.6	307.2	85.9	275.8
30°	429.5	430.9	412.5	347.4	284.5	251.0	241.5	94.2	370.0
35°	325.6	344.5	379.3	329.0	231.5	183.8	171.0	89.9	460.0
40°	224.9	238.5	293.1	289.7	177.2	125.7	113.8	76.0	535.9
45°	176.4	174.8	199.5	224.7	128.0	84.3	75.7	60.6	596.5
50°	156.0	144.3	136.6	154.2	90.2	58.9	53.2	48.2	644.7
55°	139.0	122.9	98.4	99.7	63.9	43.4	39.8	38.7	683.4
60°	113.7	99.1	72.2	64.7	46.3	33.0	30.8	30.7	714.1
65°	79.7	70.2	51.6	43.8	34.5	25.6	24.0	23.0	737.1
70°	47.7	43.4	35.6	31.1	26.2	19.7	18.2	16.2	753.3
75°	33.9	31.2	26.1	23.2	19.9	14.4	12.7	12.2	765.5
80°	33.7	30.7	23.7	18.2	15.1	9.9	7.5	10.6	776.1
85°	39.3	35.6	26.3	17.2	11.4	6.2	3.2	10.7	786.9
90°	50.4	45.6	32.3	18.9	10.0	3.9	0.6	12.4	799.3
95°	71.3	63.5	42.3	22.5	11.4	4.6	1.0	16.4	815.7
100°	97.9	84.6	52.5	26.5	12.9	5.3	1.6	20.8	836.6
105°	120.7	101.7	62.6	30.2	14.2	6.1	2.4	24.4	860.9
110°	134.6	112.6	69.4	33.2	15.3	6.7	2.9	26.3	887.2
115°	137.8	115.5	72.0	34.6	16.0	7.2	3.2	26.1	913.3
120°	129.6	108.9	68.7	33.6	15.7	7.4	3.5	23.8	937.1
125°	109.1	92.2	59.5	30.3	14.7	7.4	3.7	19.5	956.6
130°	83.4	71.0	47.4	25.5	13.2	7.2	3.7	14.5	971.2
135°	58.6	50.3	35.1	20.5	11.4	6.8	3.7	10.0	981.2
140°	39.2	34.3	25.3	16.3	9.8	6.3	3.7	6.7	987.9
145°	26.6	23.8	18.6	13.0	8.2	5.4	3.7	4.4	992.3
150°	18.7	17.2	14.2	10.0	6.9	5.0	3.7	2.9	995.2
155°	13.8	12.8	10.8	7.8	6.8	4.4	3.6	2.0	997.2
160°	10.2	9.8	7.9	6.8	5.6	4.6	3.5	1.3	998.5
165°	8.2	7.8	6.5	5.6	5.0	4.1	3.7	0.8	999.3
170°	6.4	5.6	4.7	4.7	5.0	4.1	3.9	0.5	999.8
175°	4.2	3.7	4.1	4.1	4.1	4.2	4.2	0.2	1000.0
180°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	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	17.0	18.3	17.6	18.8	19.5	13.2	14.5	13.8	15.0	15.7
	3H	17.6	18.7	18.2	19.3	20.0	13.6	14.7	14.2	15.3	16.0
	4H	17.8	18.8	18.4	19.4	20.1	13.8	14.9	14.4	15.5	16.2
	6H	18.0	18.9	18.7	19.6	20.3	13.9	14.9	14.6	15.5	16.3
	8H	18.3	19.1	19.0	19.7	20.5	13.9	14.8	14.6	15.5	16.2
	12H	18.6	19.3	19.3	20.0	20.8	13.9	14.8	14.6	15.5	16.2
4H	2H	17.0	18.0	17.6	18.7	19.3	13.7	14.7	14.3	15.3	16.0
	3H	17.7	18.5	18.3	19.2	20.0	14.2	15.1	14.9	15.7	16.5
	4H	17.9	18.7	18.6	19.4	20.2	14.5	15.3	15.2	16.0	16.8
	6H	18.4	19.0	19.1	19.7	20.6	14.7	15.4	15.4	16.1	16.9
	8H	18.7	19.3	19.4	20.0	20.9	14.8	15.4	15.5	16.1	17.0
	12H	19.2	19.7	20.0	20.5	21.4	14.8	15.4	15.6	16.1	17.0
8H	4H	17.9	18.5	18.6	19.2	20.1	14.7	15.3	15.4	16.0	16.8
	6H	18.5	19.0	19.2	19.7	20.6	15.1	15.5	15.8	16.3	17.2
	8H	18.9	19.4	19.7	20.1	21.0	15.2	15.7	16.0	16.4	17.3
	12H	19.7	20.1	20.5	20.9	21.8	15.3	15.7	16.1	16.5	17.4
12H	4H	17.8	18.4	18.6	19.1	20.0	14.7	15.2	15.5	15.9	16.8
	6H	18.4	18.9	19.2	19.6	20.5	15.2	15.6	15.9	16.3	17.3
	8H	19.0	19.4	19.8	20.1	21.1	15.4	15.8	16.2	16.5	17.5

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1480	H(C0) = 36	H(C180) = 36
						B = 115	H(C90) = 0	H(C270) = 0
C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>						
		0°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		6140.2	6133.6	7173.0	8407.9	5059.9	3564.4	3457.6
50°		5711.8	5331.2	5188.5	6134.4	3822.8	2701.8	2673.0
55°		5411.6	4837.0	3997.2	4269.0	2942.1	2191.4	2241.0
60°		4764.4	4204.6	3174.0	3023.0	2356.5	1873.1	1990.4
65°		3648.5	3253.9	2493.5	2271.1	1977.7	1669.5	1837.7
70°		2422.0	2239.3	1927.8	1829.8	1727.9	1521.4	1722.7
75°		1954.7	1828.7	1620.4	1586.3	1570.6	1383.7	1587.0
80°		2261.7	2106.3	1738.0	1499.8	1491.1	1264.7	1397.0
85°		3180.5	2966.1	2378.1	1807.0	1511.8	1195.6	1189.4

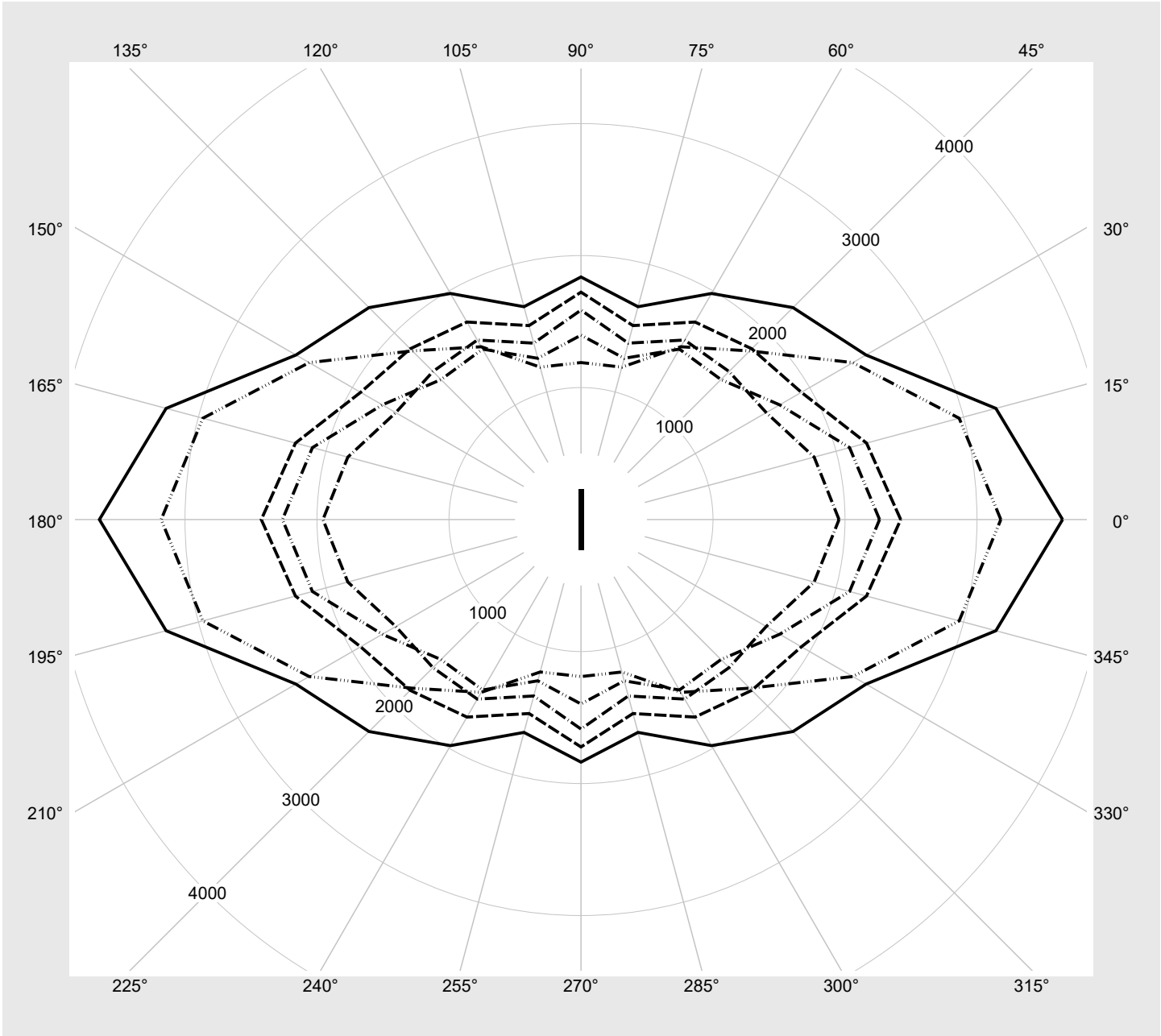
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$ 65°	$\gamma$ 70°	$\gamma$ 75°	$\gamma$ 80°	$\gamma$ 85°
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**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	30.0	35.6	32.8
95	241	252	5230	28.5	33.8	31.2
90	228	250	4958	27.2	32.1	29.6
85	215	248	4682	25.8	30.2	28.0
80	202	246	4408	24.4	28.5	26.4
75	189	243	4130	23.0	26.9	25.0
70	176	241	3853	21.5	25.3	23.4
65	163	238	3572	20.1	23.6	21.8
60	150	235	3293	18.6	21.9	20.2
55	138	232	3033	17.2	20.2	18.7
50	125	228	2750	15.7	18.5	17.1
45	112	224	2468	14.2	16.7	15.4
40	100	220	2204	12.6	15.0	13.8
35	87	215	1919	11.1	13.1	12.1
30	75	209	1656	9.8	11.4	10.6
25	62	202	1367	8.3	9.7	9.0
20	50	194	1103	6.9	8.0	7.4
15	38	184	833	5.5	6.4	6.0