

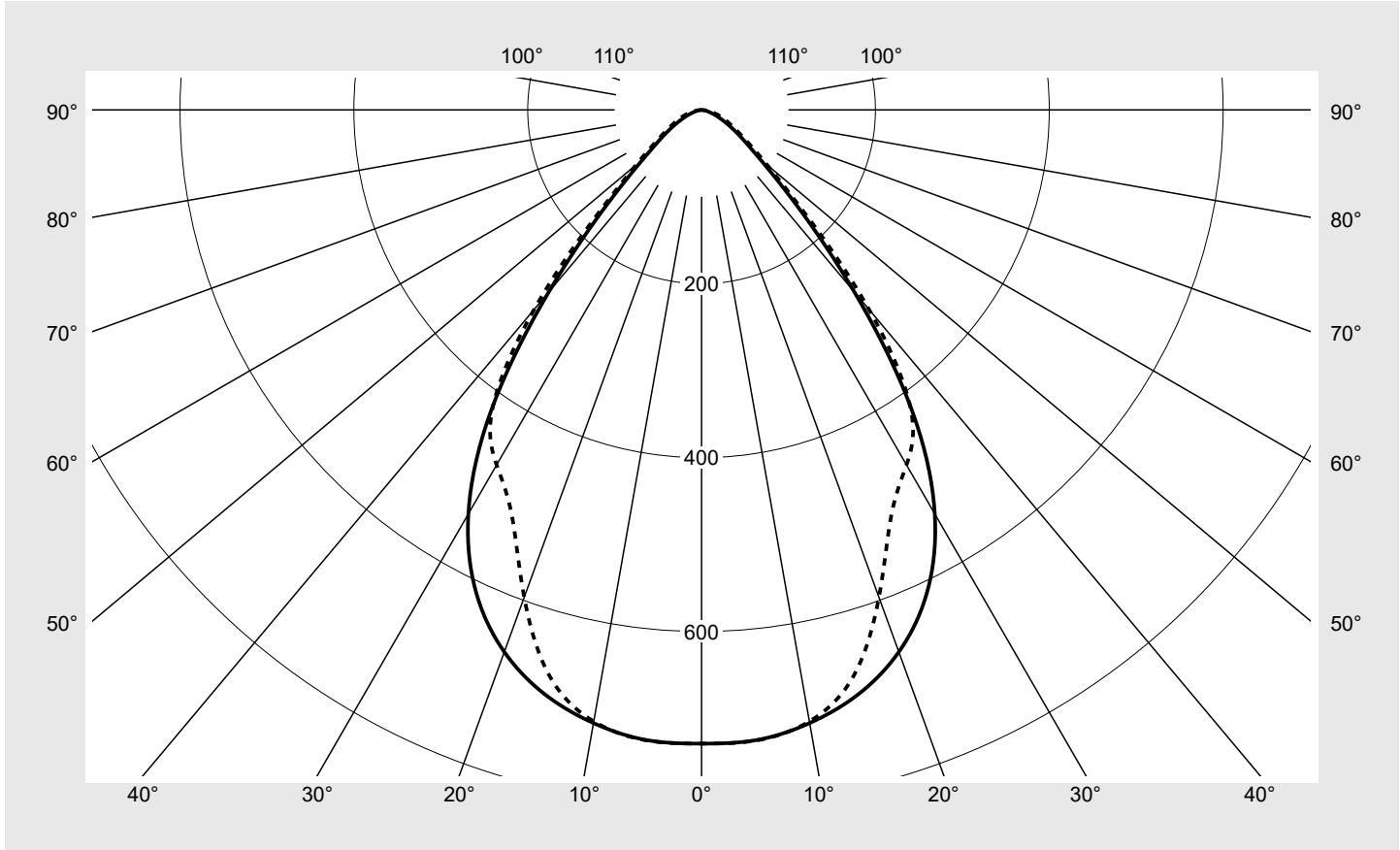


## Photometric test report

<b>Family</b> <b>Licross® 21 Recessed</b>	<b>Order number: 52TL18VN48XG</b> <b>EAN: 4058352979624</b>	<b>LP number</b> <b>59103_292</b>
	<b>Version</b> cover frosted, medium distribution, high visual comfort <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI CLO <b>Rated values</b> Net luminous flux = 8000 lm Power consumption = 45.7 W Luminous efficacy = 175.1 lm/W	<b>serial documentation</b> <b>07.11.2023</b>
		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 729 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=79 N2=95 N3=99 N4=100 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	100.0%
$\phi_o$	0.0%

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 γ	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°	728.9	728.9	728.9	728.9	728.9	728.9	728.9	4.4	4.4
5°	727.6	725.6	721.4	724.4	727.7	727.5	728.0	34.7	39.0
10°	716.2	715.8	711.3	714.1	716.0	714.5	714.3	68.0	107.0
15°	696.1	697.2	692.4	692.3	687.6	678.3	674.7	97.7	204.8
20°	663.5	665.6	659.3	649.0	628.4	605.3	596.6	119.9	324.7
25°	613.2	616.1	603.1	573.7	542.7	522.2	516.0	132.1	456.8
30°	536.6	538.7	513.6	472.5	462.2	468.1	471.5	135.2	592.0
35°	422.0	421.2	386.0	361.6	387.1	411.1	419.4	125.1	717.1
40°	273.6	269.8	241.4	246.2	279.1	295.4	299.7	95.1	812.2
45°	153.4	148.0	132.2	146.4	164.6	167.9	167.6	59.4	871.5
50°	87.1	86.0	88.4	95.4	105.5	102.0	98.3	39.9	911.4
55°	56.5	55.2	58.2	69.2	74.7	68.5	64.6	28.9	940.4
60°	37.8	37.4	39.6	46.2	52.4	47.5	45.7	20.9	961.3
65°	24.5	24.8	27.6	32.4	36.8	34.0	33.6	15.3	976.6
70°	15.3	15.7	18.0	22.8	25.8	24.5	24.5	10.9	987.5
75°	8.5	8.7	10.3	14.3	17.1	16.5	16.4	7.0	994.5
80°	4.5	4.6	5.3	7.4	9.6	9.5	9.0	3.9	998.3
85°	2.3	2.3	2.4	3.2	3.8	3.8	3.2	1.7	1000.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	19.5	20.8	19.8	21.1	21.4	20.1	21.5	20.5	21.8	22.1
	3H	19.6	20.8	20.0	21.1	21.5	20.5	21.7	20.9	22.0	22.4
	4H	19.6	20.7	20.0	21.1	21.5	20.7	21.8	21.0	22.1	22.5
	6H	19.6	20.6	20.0	21.0	21.4	20.8	21.8	21.2	22.1	22.5
	8H	19.7	20.6	20.1	21.0	21.4	20.9	21.8	21.3	22.1	22.5
	12H	19.7	20.5	20.1	20.9	21.3	20.9	21.7	21.3	22.1	22.5
4H	2H	19.6	20.7	20.0	21.1	21.4	20.2	21.3	20.6	21.7	22.0
	3H	19.9	20.8	20.3	21.2	21.6	20.7	21.6	21.2	22.0	22.5
	4H	19.9	20.7	20.3	21.1	21.6	21.0	21.8	21.4	22.2	22.7
	6H	19.9	20.6	20.4	21.1	21.5	21.2	21.9	21.6	22.3	22.8
	8H	19.9	20.5	20.4	21.0	21.5	21.2	21.9	21.7	22.3	22.8
	12H	19.9	20.5	20.4	20.9	21.4	21.3	21.8	21.8	22.3	22.8
8H	4H	20.0	20.6	20.5	21.1	21.5	21.0	21.6	21.5	22.1	22.6
	6H	20.0	20.5	20.5	21.0	21.5	21.3	21.8	21.8	22.3	22.8
	8H	20.0	20.5	20.5	21.0	21.5	21.4	21.8	21.9	22.3	22.8
	12H	20.0	20.4	20.6	20.9	21.5	21.4	21.8	22.0	22.3	22.8
12H	4H	20.0	20.5	20.5	21.0	21.5	21.0	21.5	21.5	22.0	22.5
	6H	20.0	20.5	20.6	21.0	21.5	21.3	21.7	21.8	22.2	22.7
	8H	20.1	20.4	20.6	20.9	21.5	21.4	21.7	21.9	22.2	22.8

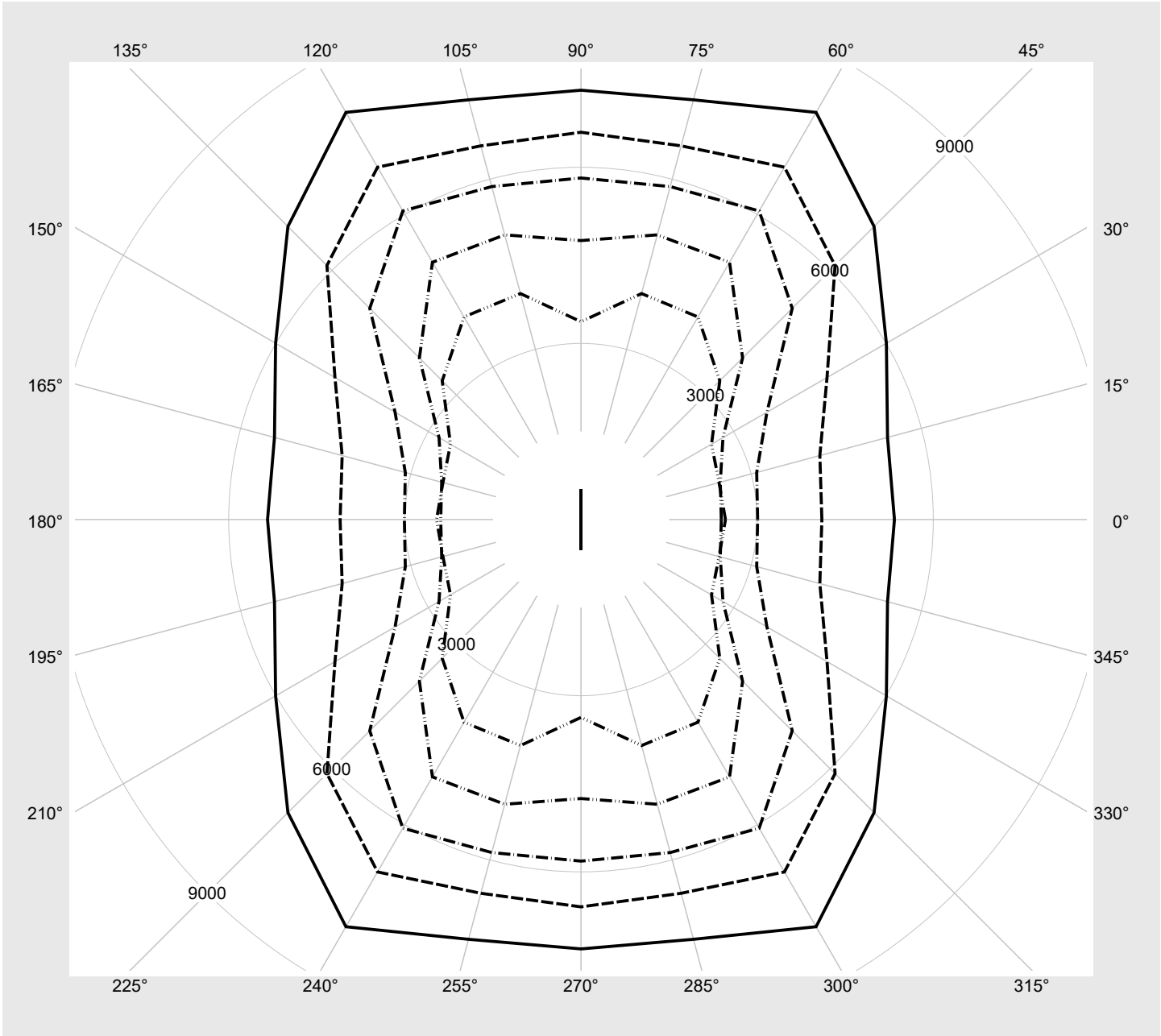
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1500</b> <b>B = 58</b>
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C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°	45°	19948.0	19242.7	17189.2	19031.7	21404.9	21833.4	21800.5
50°	50°	12466.0	12302.7	12647.2	13648.0	15094.7	14587.0	14068.6
55°	55°	9053.4	8846.1	9325.6	11101.3	11975.0	10987.6	10353.6
60°	60°	6945.5	6871.0	7276.5	8497.7	9630.5	8735.4	8399.8
65°	65°	5338.4	5404.5	6005.7	7059.0	8007.7	7401.0	7312.7
70°	70°	4102.2	4211.4	4838.3	6119.4	6930.3	6589.7	6596.4
75°	75°	3007.8	3097.7	3656.2	5088.0	6069.3	5871.4	5817.4
80°	80°	2389.3	2456.0	2791.7	3892.1	5060.3	5020.1	4751.6
85°	85°	2460.4	2434.0	2566.9	3342.4	3984.9	3984.9	3369.8

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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	8000	45.7	54.2	50.0
95	240	252	7586	43.2	51.3	47.2
90	227	250	7200	40.9	48.6	44.8
85	214	248	6810	38.6	45.8	42.2
80	200	245	6388	36.2	42.9	39.6
75	187	243	5993	33.9	40.1	37.0
70	174	240	5595	31.7	37.4	34.6
65	161	237	5193	29.4	34.7	32.0
60	148	234	4788	27.2	32.0	29.6
55	136	231	4410	25.1	29.5	27.3
50	123	227	4001	22.9	26.9	24.9
45	110	223	3588	20.7	24.2	22.4
40	98	219	3202	18.7	21.8	20.2
35	86	214	2815	16.6	19.4	18.0
30	73	208	2393	14.4	16.8	15.6
25	61	202	2004	12.3	14.4	13.4
20	49	194	1610	10.3	11.9	11.1
15	37	183	1214	8.3	9.4	8.9
10	24	168	786	6.1	6.8	6.4
5	12	142	386	4.0	4.4	4.2
2	5	110	151	2.9	3.1	3.0