

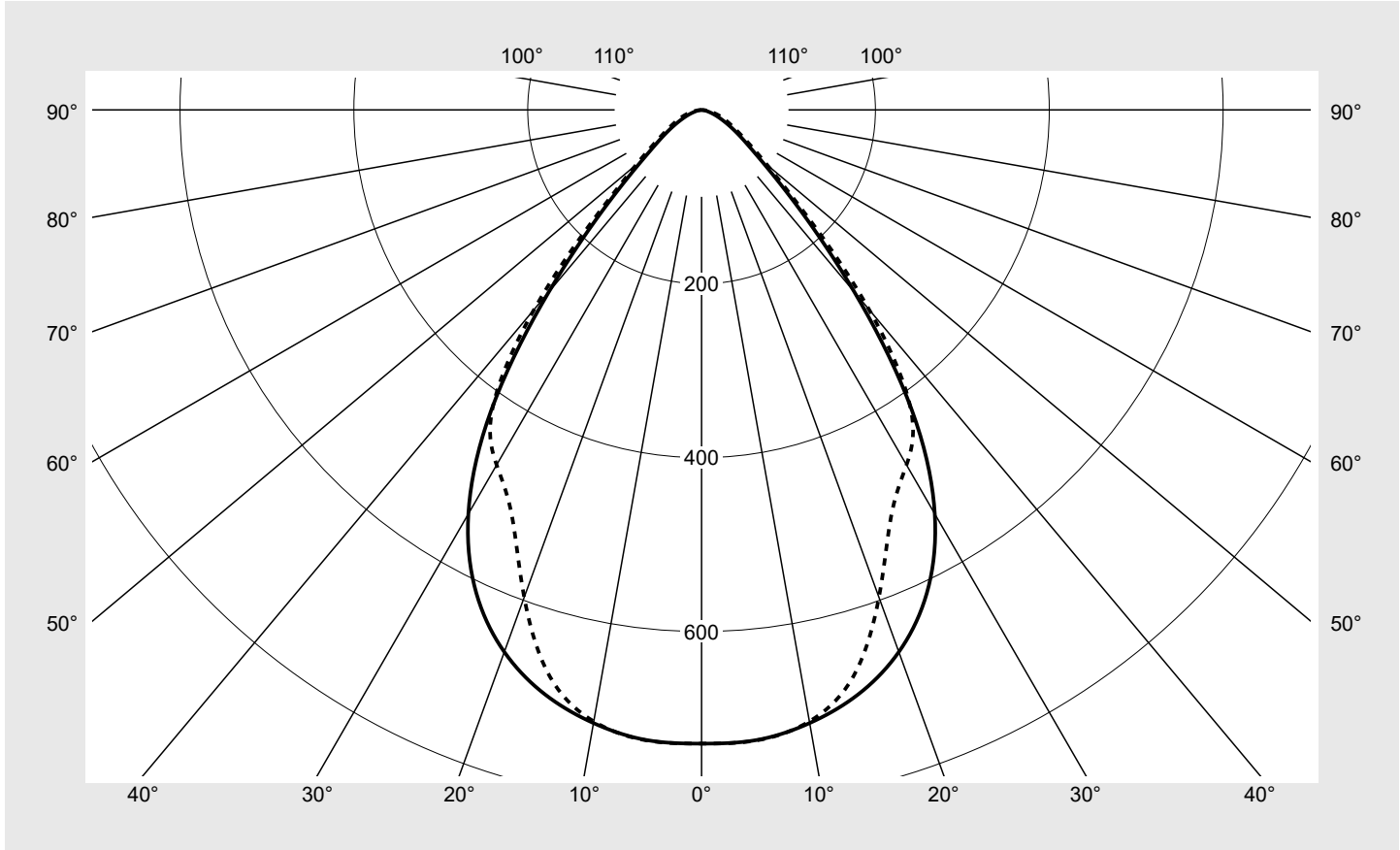
# Photometric test report

<b>Family</b> <b>Licross® 21 Recessed</b>	<b>Order number: 52TE18DV4E5G</b> <b>EAN: 4058352889930</b>	<b>LP number</b> <b>59103_241</b>
	<b>Version</b> cover frosted, medium distribution, high visual comfort <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 14980 lm Power consumption = 85.3 W Luminous efficacy = 175.6 lm/W	<b>serial documentation</b> <b>02.08.2023</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	20.2	21.6	20.6	21.9	22.2	20.9	22.2	21.2	22.5	22.9
	3H	20.4	21.6	20.8	21.9	22.3	21.3	22.5	21.6	22.8	23.1
	4H	20.4	21.5	20.8	21.9	22.2	21.4	22.5	21.8	22.9	23.3
	6H	20.4	21.4	20.8	21.8	22.2	21.5	22.5	22.0	22.9	23.3
	8H	20.5	21.3	20.9	21.7	22.1	21.6	22.5	22.1	22.9	23.3
	12H	20.4	21.3	20.9	21.7	22.1	21.6	22.5	22.1	22.9	23.3
4H	2H	20.4	21.5	20.8	21.8	22.2	21.0	22.1	21.4	22.4	22.8
	3H	20.6	21.5	21.0	21.9	22.3	21.5	22.4	21.9	22.8	23.2
	4H	20.7	21.5	21.1	21.9	22.3	21.8	22.6	22.2	23.0	23.4
	6H	20.7	21.4	21.2	21.8	22.3	22.0	22.6	22.4	23.1	23.6
	8H	20.7	21.3	21.2	21.8	22.2	22.0	22.6	22.5	23.1	23.6
	12H	20.7	21.2	21.2	21.7	22.2	22.1	22.6	22.6	23.1	23.5
8H	4H	20.7	21.4	21.2	21.8	22.3	21.8	22.4	22.3	22.9	23.3
	6H	20.8	21.3	21.3	21.8	22.3	22.0	22.6	22.5	23.0	23.5
	8H	20.8	21.2	21.3	21.7	22.3	22.1	22.6	22.6	23.1	23.6
	12H	20.8	21.2	21.3	21.7	22.2	22.2	22.6	22.7	23.1	23.6
12H	4H	20.8	21.3	21.3	21.8	22.3	21.8	22.3	22.3	22.8	23.3
	6H	20.8	21.2	21.3	21.7	22.3	22.0	22.5	22.6	23.0	23.5
	8H	20.8	21.2	21.3	21.7	22.2	22.1	22.5	22.7	23.0	23.6

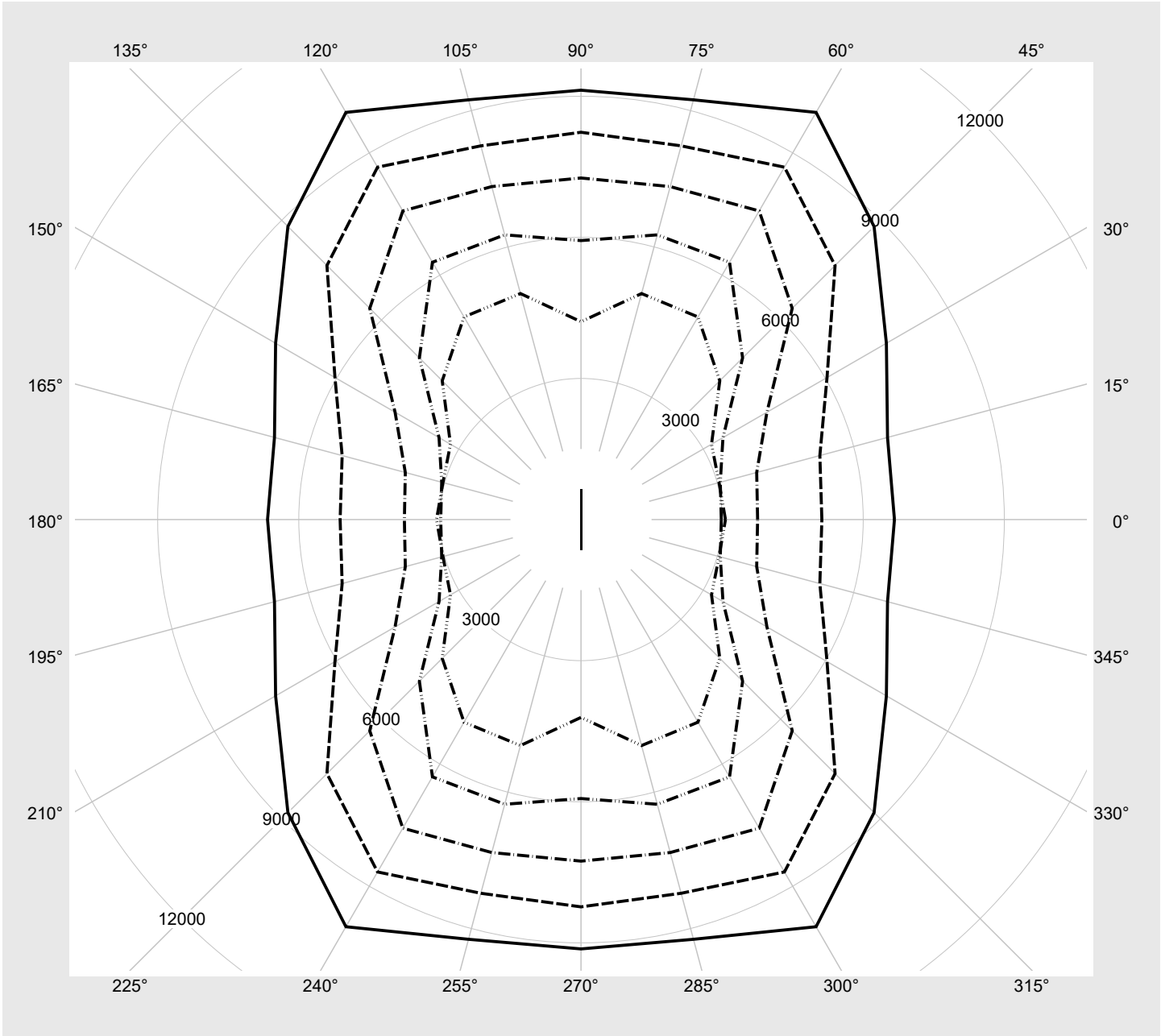
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 2250</b> <b>B = 58</b>
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C-planes	$\gamma$	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
			Luminance in cd/m²					
45°		24901.8	24021.3	21457.8	23758.0	26720.4	27255.3	27214.3
50°		15561.7	15357.9	15787.9	17037.3	18843.3	18209.5	17562.3
55°		11301.7	11042.9	11641.5	13858.1	14948.8	13716.2	12924.7
60°		8670.3	8577.3	9083.5	10607.9	12022.1	10904.8	10485.8
65°		6664.1	6746.6	7497.1	8812.0	9996.2	9239.0	9128.7
70°		5120.9	5257.2	6039.8	7639.1	8651.3	8226.1	8234.5
75°		3754.8	3867.0	4564.2	6351.5	7576.5	7329.5	7262.1
80°		2982.6	3065.9	3485.0	4858.7	6316.9	6266.7	5931.6
85°		3071.4	3038.5	3204.4	4172.4	4974.5	4974.5	4206.7

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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]
100	254	254	14980	85.3
95	240	252	14226	80.7
90	226	250	13463	76.1
85	213	248	12744	71.7
80	199	245	11965	67.0
75	186	243	11228	62.7
70	173	240	10489	58.3
65	160	237	9744	54.0
60	147	234	8991	49.7
55	134	231	8229	45.4
50	122	227	7518	41.4
45	109	223	6742	37.3
40	97	219	6021	33.4
35	84	213	5232	29.2
30	72	208	4496	25.3
25	60	201	3755	21.5
20	48	193	3010	17.4
15	36	182	2259	13.3
10	24	168	1503	9.0
5	12	142	742	4.4
2	4	102	229	1.4