

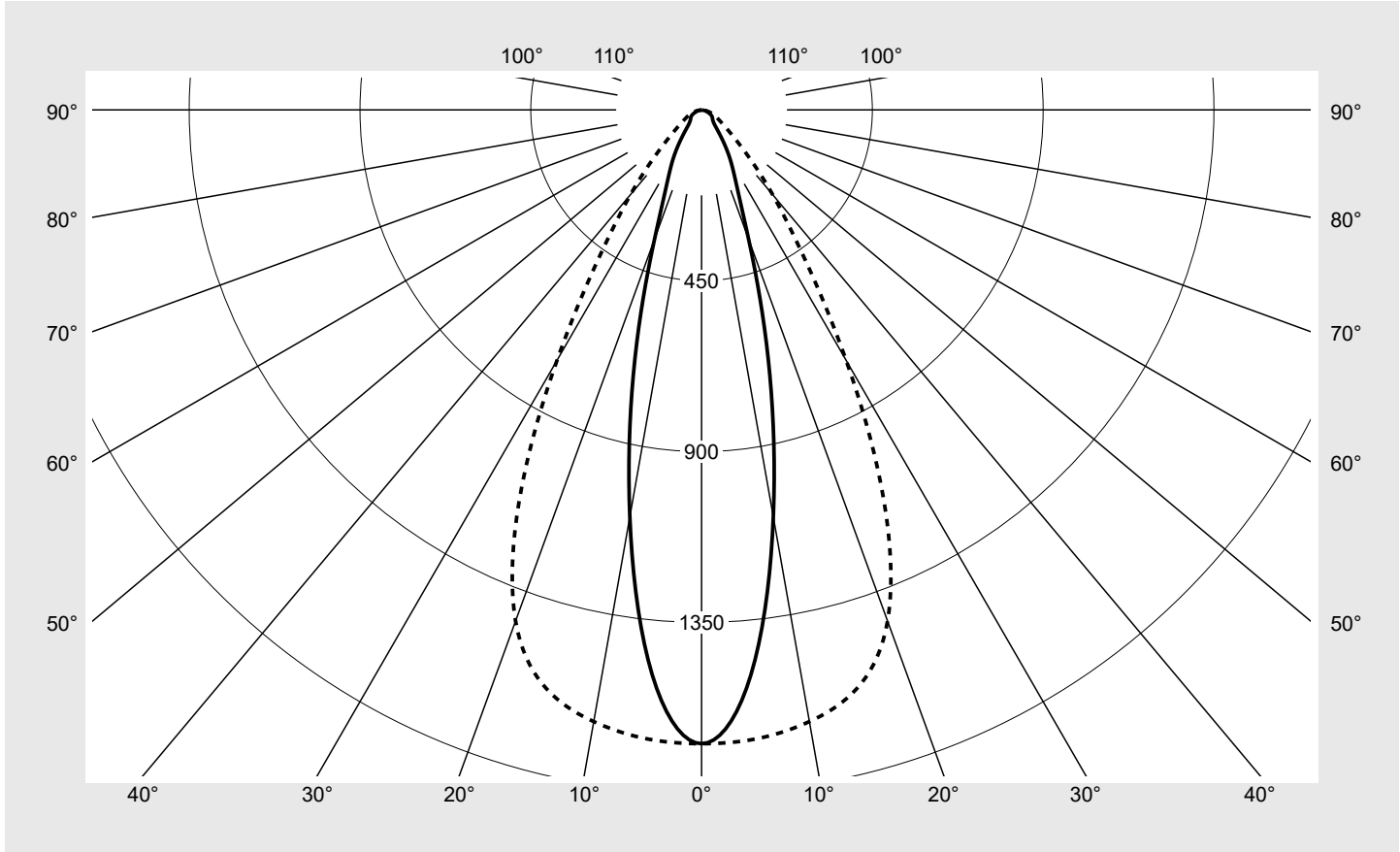


# Photometric test report

<b>Family</b> <b>Licross® 21 Recessed</b>	<b>Order number: 52TL1EDN4DXS</b> <b>EAN: 4058352891827</b>	<b>LP number</b> <b>59263_85</b>
	<b>Version</b> cover frosted, elliptical narrow distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 13000 lm Power consumption = 74.4 W Luminous efficacy = 174.7 lm/W	<b>serial documentation</b> <b>03.08.2023</b>
		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 1670 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=85 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°	1669.5	1669.5	1669.5	1669.5	1669.5	1669.5	1669.5	10.0	10.0
5°	1493.3	1495.6	1516.6	1565.9	1616.3	1649.8	1662.9	75.0	85.0
10°	1088.5	1106.7	1175.0	1303.4	1460.6	1586.1	1636.2	126.8	211.8
15°	678.3	712.7	825.0	1006.5	1239.9	1474.8	1578.7	151.0	362.9
20°	362.1	388.9	492.0	707.6	980.6	1275.8	1432.9	148.2	511.0
25°	217.8	231.1	285.8	436.7	705.9	972.9	1137.5	127.8	638.8
30°	151.3	158.5	185.3	264.1	455.8	646.3	761.7	99.0	737.8
35°	95.4	107.0	131.3	171.8	268.4	391.1	463.8	70.7	808.5
40°	57.7	64.5	93.9	120.6	157.9	239.7	291.4	50.0	858.5
45°	43.5	45.9	58.2	86.3	99.5	145.4	176.9	35.2	893.7
50°	37.7	39.0	42.8	61.0	68.3	89.3	109.1	26.2	919.9
55°	34.6	35.0	36.7	43.5	50.5	59.6	73.7	20.9	940.8
60°	30.2	31.1	32.8	34.2	38.6	42.0	53.5	17.5	958.3
65°	23.9	25.4	29.1	28.1	30.1	30.8	41.3	14.6	972.8
70°	17.0	18.4	22.5	23.3	23.4	22.7	30.8	11.5	984.3
75°	10.9	12.0	16.2	17.9	17.4	15.7	20.7	8.4	992.7
80°	6.2	6.7	9.0	10.7	11.0	9.3	11.6	5.0	997.7
85°	3.1	3.3	4.2	5.0	4.8	3.9	4.2	2.3	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	16.1	17.3	16.4	17.6	17.9	21.1	22.3	21.4	22.6	22.9
	3H	17.2	18.3	17.6	18.7	19.0	21.7	22.7	22.0	23.0	23.4
	4H	17.6	18.6	18.0	19.0	19.4	21.9	22.9	22.3	23.2	23.6
	6H	17.8	18.8	18.2	19.1	19.5	22.2	23.0	22.6	23.4	23.8
	8H	18.0	18.8	18.4	19.2	19.6	22.3	23.0	22.7	23.4	23.8
	12H	18.0	18.8	18.5	19.2	19.6	22.3	23.0	22.8	23.4	23.8
4H	2H	16.9	17.8	17.3	18.2	18.6	21.1	22.1	21.4	22.4	22.8
	3H	18.3	19.1	18.7	19.5	19.9	21.8	22.6	22.2	23.0	23.4
	4H	18.8	19.6	19.3	20.0	20.4	22.1	22.9	22.6	23.3	23.7
	6H	19.1	19.8	19.6	20.2	20.7	22.4	23.1	22.9	23.5	24.0
	8H	19.2	19.8	19.7	20.3	20.7	22.6	23.1	23.1	23.6	24.0
	12H	19.3	19.8	19.8	20.3	20.8	22.6	23.1	23.1	23.6	24.1
8H	4H	19.3	19.8	19.8	20.3	20.8	22.2	22.8	22.7	23.3	23.7
	6H	19.8	20.2	20.3	20.7	21.2	22.6	23.1	23.1	23.6	24.1
	8H	19.9	20.3	20.4	20.8	21.3	22.8	23.2	23.3	23.7	24.2
	12H	20.0	20.4	20.5	20.9	21.4	22.9	23.2	23.4	23.7	24.3
12H	4H	19.3	19.8	19.8	20.3	20.8	22.2	22.7	22.7	23.2	23.7
	6H	19.8	20.2	20.4	20.7	21.2	22.6	23.0	23.1	23.5	24.1
	8H	20.0	20.4	20.6	20.9	21.4	22.8	23.2	23.3	23.7	24.2

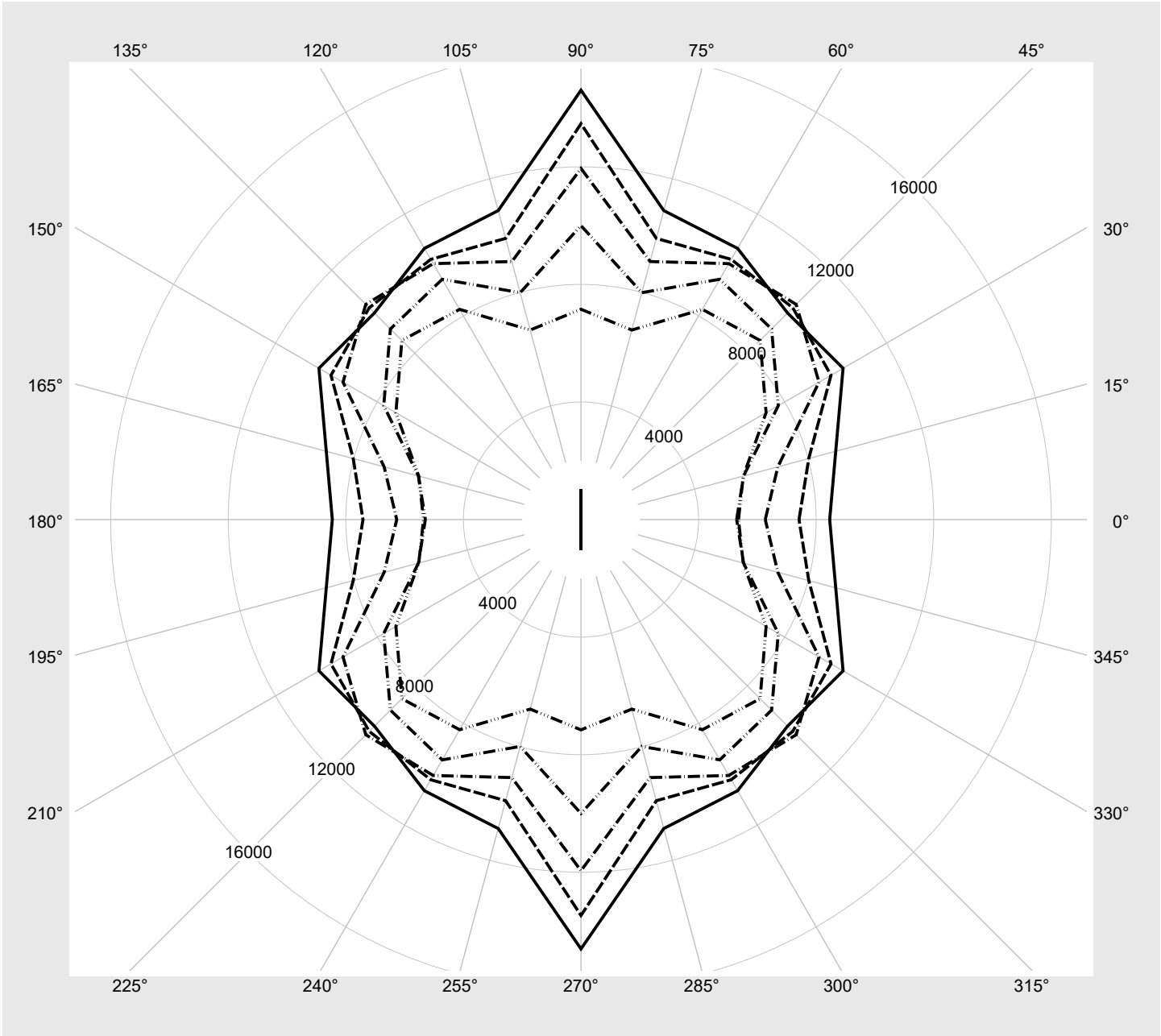
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1500</b>
			<b>B = 58</b>

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°		9190.1	9694.3	12288.6	18232.2	21033.5	30725.8	37390.8
50°		8773.0	9061.5	9948.8	14188.5	15879.9	20766.1	25370.2
55°		9003.9	9113.1	9566.1	11325.9	13160.4	15533.5	19204.9
60°		9012.1	9308.3	9806.8	10228.8	11533.5	12546.0	15986.1
65°		8460.2	8971.5	10294.9	9938.5	10653.1	10882.5	14607.4
70°		7417.1	8022.6	9820.9	10189.2	10221.5	9903.0	13468.5
75°		6268.1	6933.2	9349.4	10353.3	10054.3	9087.8	11944.5
80°		5295.6	5726.7	7749.7	9170.4	9439.8	7992.4	9999.1
85°		5357.7	5714.3	7271.0	8618.6	8256.9	6676.1	7154.5

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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	13000	74.4
95	240	252	12339	70.4
90	227	250	11719	66.5
85	213	248	11041	62.5
80	200	245	10406	58.7
75	187	243	9766	55.0
70	174	240	9118	51.3
65	161	237	8468	47.6
60	148	234	7812	43.8
55	135	231	7147	40.1
50	122	227	6479	36.5
45	110	223	5859	33.1
40	97	219	5177	29.5
35	85	214	4547	26.2
30	73	208	3913	22.9
25	61	202	3273	19.6
20	48	193	2577	16.0
15	36	182	1931	12.7
10	24	168	1282	9.4
5	12	142	625	6.0
2	5	110	243	4.3