



# Photometric test report

<b>Family</b> <b>Licross® 21 Protected</b>	<b>Order number: 52TD12DN4C5L3C</b> <b>EAN: 4058352508220</b>	<b>LP number</b> <b>58523_55</b>
	<b>Version</b> prismatic cover, frosted, wide distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Setting</b> AC-mode <b>Rated values</b> Net luminous flux = 12810 lm Power consumption = 83.0 W Luminous efficacy = 154.3 lm/W	<b>serial documentation</b> <b>12.07.2021</b>
		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 630 cd/klm**



Classifications	
DIN 5040	A 5 1
CIE	N1=70 N2=91 N3=97 N4=98 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	98.3%
$\phi_o$	1.7%

**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°	568.0	568.0	568.0	568.0	568.0	568.0	568.0	3.4	3.4
5°	570.0	568.0	563.9	564.4	565.6	564.2	564.6	27.0	30.4
10°	575.1	572.9	563.4	557.9	553.3	549.0	548.2	53.3	83.7
15°	590.1	586.0	566.8	548.5	532.2	519.9	516.5	78.2	161.9
20°	611.6	603.6	568.7	531.0	496.5	471.9	464.3	100.3	262.2
25°	630.0	617.6	564.2	499.9	441.6	401.0	387.5	117.1	379.3
30°	598.0	589.4	536.5	452.4	368.0	311.9	293.8	123.5	502.8
35°	487.1	490.1	463.2	383.1	284.6	222.1	203.0	114.7	617.4
40°	351.1	360.8	359.1	297.2	205.7	150.3	134.3	94.9	712.3
45°	241.7	250.7	257.1	211.9	140.4	100.6	89.9	72.8	785.1
50°	168.3	174.0	178.9	144.5	94.4	69.8	63.7	54.4	839.5
55°	118.9	121.8	123.3	97.4	64.6	50.4	47.5	40.5	880.0
60°	85.1	85.8	84.4	66.1	45.7	37.4	36.1	30.1	910.0
65°	63.8	62.6	58.2	45.7	33.4	28.1	27.2	22.6	932.7
70°	50.4	47.7	40.8	32.1	24.8	20.7	19.9	17.3	949.9
75°	41.3	37.6	29.5	22.7	17.9	14.5	13.5	13.2	963.2
80°	34.0	30.0	21.9	15.9	12.4	9.4	8.0	10.0	973.1
85°	27.2	23.7	16.4	11.2	8.0	5.3	3.6	7.3	980.4
90°	20.7	17.9	12.0	7.4	4.6	2.2	0.4	5.0	985.4
95°	16.6	14.7	10.2	6.3	3.6	1.3	0.3	4.0	989.4
100°	13.2	11.9	8.5	5.2	2.7	0.8	0.3	3.2	992.6
105°	10.4	9.5	6.9	4.1	1.9	0.4	0.3	2.5	995.1
110°	8.2	7.4	5.5	3.1	1.2	0.3	0.3	1.9	997.0
115°	6.5	5.8	4.2	2.2	0.7	0.4	0.4	1.4	998.4
120°	4.9	4.3	3.0	1.4	0.6	0.5	0.5	1.0	999.4
125°	3.5	3.0	2.0	0.9	0.6	0.5	0.5	0.7	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	22.8	24.3	23.2	24.6	24.9	18.7	20.1	19.0	20.4	20.7
	3H	23.4	24.7	23.8	25.0	25.4	19.1	20.4	19.5	20.7	21.1
	4H	23.8	25.0	24.2	25.3	25.7	19.3	20.5	19.7	20.9	21.2
	6H	24.2	25.2	24.6	25.6	26.0	19.4	20.6	19.8	20.9	21.3
	8H	24.5	25.4	24.9	25.8	26.2	19.5	20.6	19.9	21.0	21.4
	12H	24.7	25.6	25.1	26.0	26.4	19.5	20.5	20.0	20.9	21.3
4H	2H	22.9	24.1	23.3	24.4	24.8	19.3	20.5	19.7	20.9	21.2
	3H	23.6	24.6	24.0	25.0	25.4	19.9	20.9	20.3	21.3	21.7
	4H	24.1	25.0	24.5	25.4	25.8	20.2	21.1	20.6	21.5	21.9
	6H	24.6	25.4	25.1	25.8	26.3	20.4	21.2	20.8	21.6	22.1
	8H	24.9	25.6	25.4	26.1	26.6	20.4	21.2	20.9	21.6	22.1
	12H	25.3	25.9	25.8	26.4	26.9	20.5	21.2	21.0	21.6	22.1
8H	4H	24.1	24.8	24.5	25.2	25.7	20.5	21.2	20.9	21.6	22.1
	6H	24.7	25.3	25.2	25.8	26.3	20.8	21.4	21.3	21.8	22.3
	8H	25.1	25.7	25.6	26.1	26.7	20.9	21.4	21.4	21.9	22.5
	12H	25.6	26.1	26.2	26.6	27.1	21.0	21.5	21.6	22.0	22.5
12H	4H	24.1	24.7	24.5	25.2	25.7	20.6	21.1	21.1	21.6	22.1
	6H	24.7	25.2	25.2	25.7	26.3	20.9	21.4	21.4	21.9	22.4
	8H	25.2	25.6	25.7	26.1	26.6	21.1	21.5	21.6	22.0	22.6

<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°		32512.9	33881.6	35262.9	29742.6	20336.8	15135.1	14113.4	
50°		24241.2	25205.9	26358.4	21873.1	14821.7	11452.8	10999.7	
55°		18576.9	19166.0	19784.4	16126.0	11166.4	9179.5	9194.2	
60°		14654.6	14897.4	14980.9	12186.8	8860.4	7719.1	8003.4	
65°		12338.3	12213.7	11675.3	9572.1	7439.3	6741.9	7135.3	
70°		11209.6	10726.4	9485.5	7867.8	6537.7	6003.5	6448.3	
75°		10908.3	10070.6	8221.4	6762.4	5869.6	5351.4	5789.7	
80°		11161.6	10026.7	7712.0	6105.5	5359.7	4824.7	5123.8	
85°		11905.4	10608.0	7878.1	6060.5	5208.9	4485.5	4610.3	

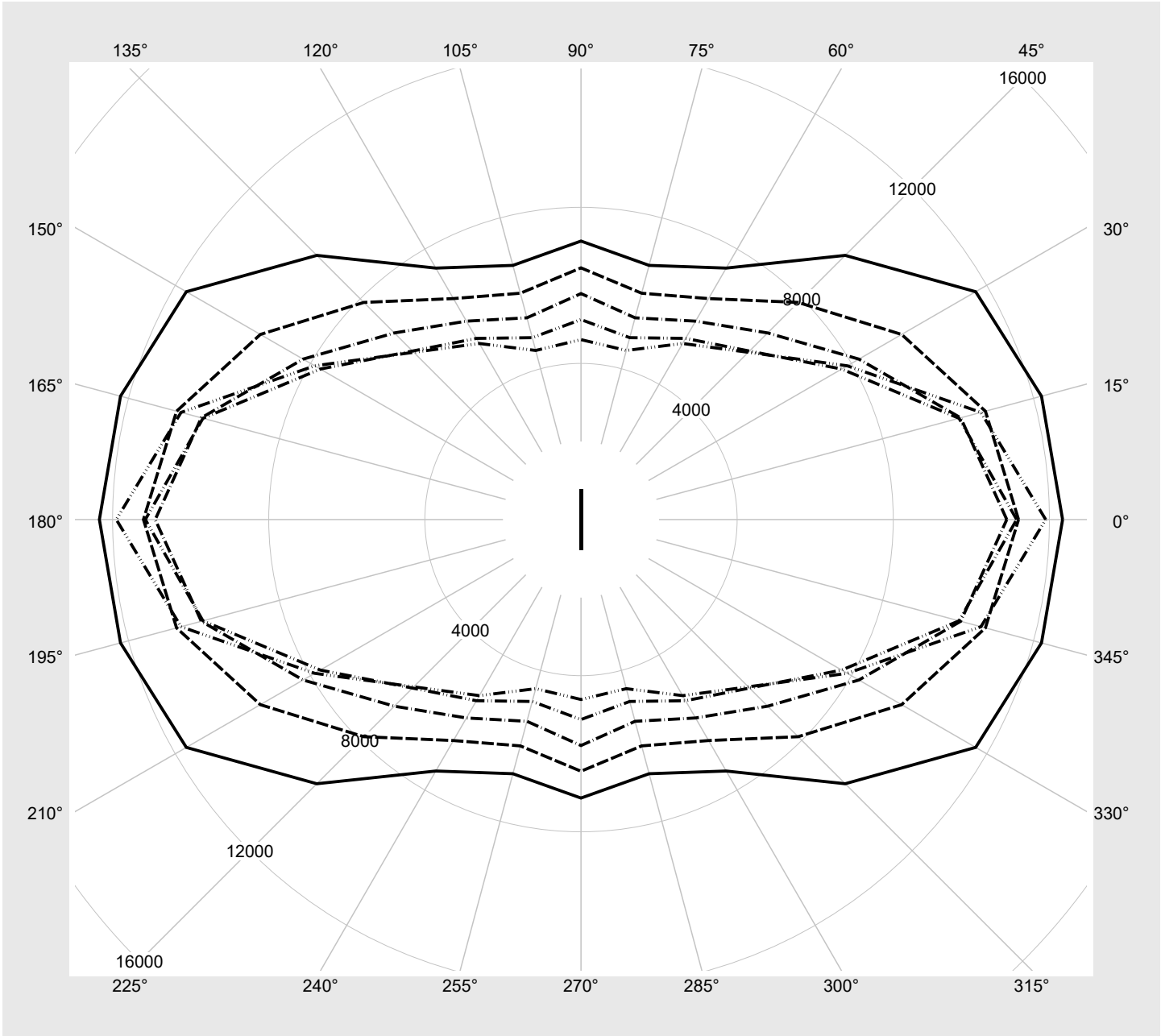
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°



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<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	12810	83.0
95	240	252	12170	78.3
90	226	250	11527	73.8
85	212	247	10872	69.4
80	199	245	10255	65.4
75	186	243	9631	61.3
70	172	240	8946	56.9
65	159	237	8302	52.9
60	147	234	7704	49.3
55	134	231	7053	45.2
50	121	227	6391	41.3
45	109	223	5775	37.7
40	96	218	5102	33.8
35	84	213	4477	30.3
30	72	208	3844	26.8
25	60	201	3205	23.3
20	48	193	2560	19.8
15	36	182	1912	16.2
10	24	168	1261	12.8
5	13	145	658	9.6
2	5	110	217	7.4