



# Photometric test report

<b>Family</b> <b>Licross® 21 Protected</b>	<b>Order number: 52TD12DN4E5M3S</b> <b>EAN: 4058352907801</b>	<b>LP number</b> <b>58523_187</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 = 14690 lm Power consumption = 88.7 W Luminous efficacy = 165.6 lm/W	<b>serial documentation</b> <b>17.08.2023</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	23.3	24.8	23.7	25.1	25.4	19.1	20.6	19.5	20.9	21.2
	3H	23.9	25.2	24.3	25.5	25.9	19.6	20.9	19.9	21.2	21.6
	4H	24.3	25.4	24.6	25.8	26.2	19.8	21.0	20.1	21.3	21.7
	6H	24.7	25.7	25.1	26.1	26.5	19.9	21.0	20.3	21.4	21.8
	8H	25.0	25.9	25.4	26.3	26.7	20.0	21.0	20.4	21.4	21.8
	12H	25.2	26.1	25.6	26.4	26.9	20.0	21.0	20.5	21.4	21.8
4H	2H	23.3	24.6	23.7	24.9	25.3	19.8	21.0	20.2	21.3	21.7
	3H	24.1	25.1	24.5	25.5	25.9	20.4	21.4	20.8	21.8	22.2
	4H	24.5	25.4	25.0	25.9	26.3	20.6	21.5	21.1	21.9	22.4
	6H	25.1	25.9	25.6	26.3	26.8	20.8	21.6	21.3	22.1	22.5
	8H	25.4	26.1	25.9	26.6	27.0	20.9	21.7	21.4	22.1	22.6
	12H	25.8	26.4	26.3	26.8	27.3	21.0	21.6	21.5	22.1	22.6
8H	4H	24.5	25.3	25.0	25.7	26.2	20.9	21.6	21.4	22.1	22.6
	6H	25.2	25.8	25.7	26.3	26.8	21.3	21.8	21.8	22.3	22.8
	8H	25.6	26.1	26.1	26.6	27.1	21.4	21.9	21.9	22.4	22.9
	12H	26.1	26.5	26.6	27.0	27.6	21.5	22.0	22.0	22.5	23.0
12H	4H	24.5	25.2	25.0	25.6	26.1	21.1	21.6	21.5	22.1	22.6
	6H	25.2	25.7	25.7	26.2	26.7	21.4	21.9	21.9	22.4	22.9
	8H	25.6	26.1	26.2	26.6	27.1	21.6	22.0	22.1	22.5	23.0

<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°		37284.5	38854.0	40438.1	34107.6	23321.4	17356.4	16184.7	
50°		27798.9	28905.2	30226.8	25083.2	16996.9	13133.6	12614.0	
55°		21303.3	21978.8	22688.0	18492.7	12805.1	10526.7	10543.6	
60°		16805.3	17083.8	17179.5	13975.4	10160.7	8852.0	9177.9	
65°		14149.1	14006.1	13388.8	10976.9	8531.1	7731.4	8182.5	
70°		12854.7	12300.6	10877.6	9022.5	7497.2	6884.6	7394.7	
75°		12509.2	11548.6	9428.0	7754.9	6731.0	6136.8	6639.4	
80°		12799.7	11498.2	8843.8	7001.5	6146.3	5532.7	5875.7	
85°		13652.6	12164.8	9034.3	6949.9	5973.3	5143.8	5286.9	

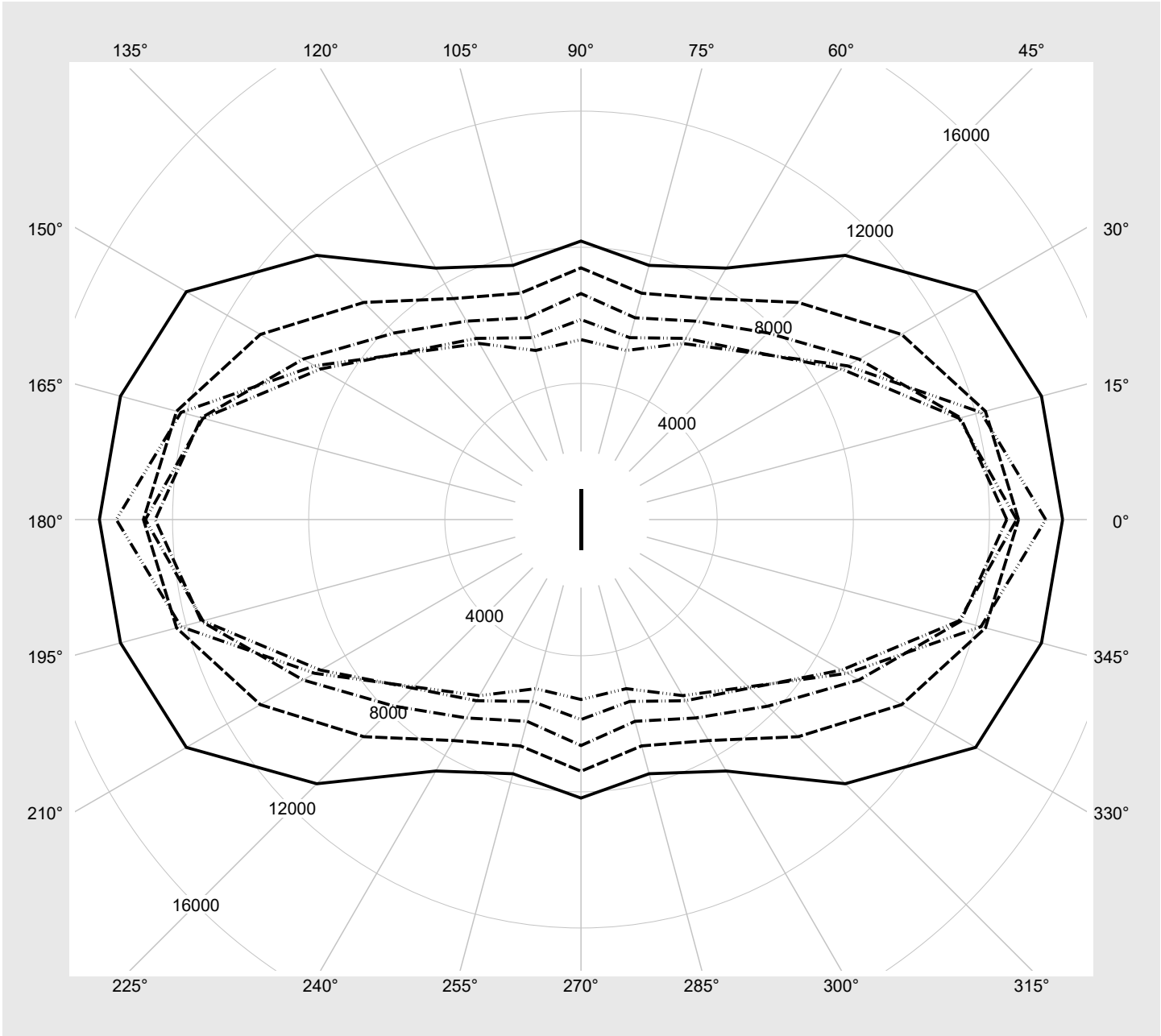
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$ 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]
100	254	254	14690	88.7
95	240	252	13945	83.9
90	227	250	13245	79.6
85	213	248	12484	74.9
80	200	245	11771	70.6
75	186	243	10993	66.0
70	173	240	10264	61.8
65	160	237	9527	57.5
60	148	234	8841	53.6
55	135	231	8094	49.3
50	122	227	7340	45.2
45	110	223	6637	41.3
40	97	219	5869	37.1
35	85	214	5155	33.3
30	72	208	4378	29.3
25	60	201	3654	25.4
20	48	193	2925	21.7
15	36	182	2191	17.9
10	24	168	1457	14.1
5	12	142	715	10.4
1	4	102	217	8.1