
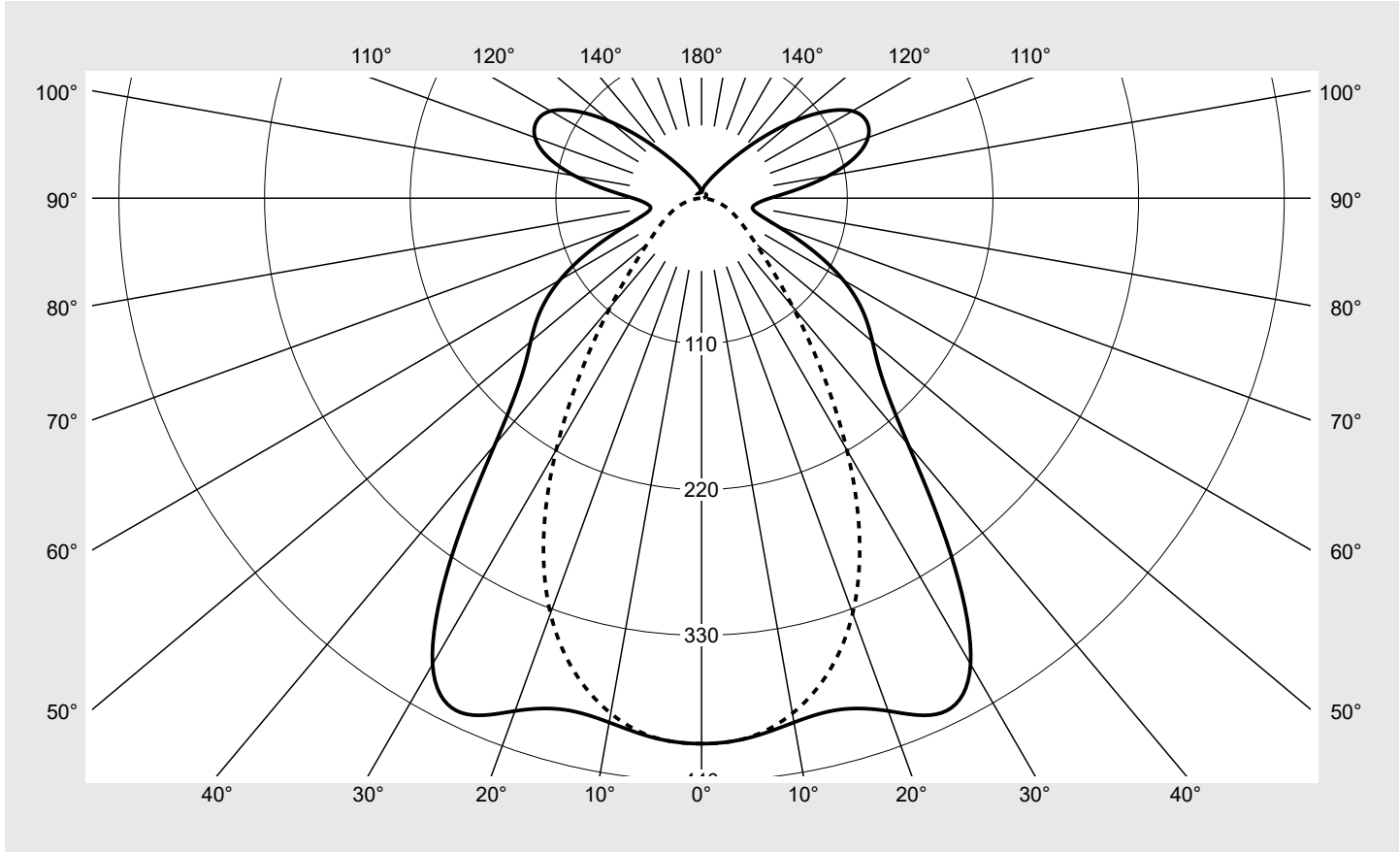


# Photometric test report

<b>Family</b> <b>Licross® 21 Performance</b>	<b>Order number: 52TD16DN4E5M</b> <b>EAN: 4058352903162</b>	<b>LP number</b> <b>58519_242</b>
	<b>Version</b> cover frosted, direct-/ indirect distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 14870 lm Power consumption = 84.9 W Luminous efficacy = 175.2 lm/W	<b>serial documentation</b> <b>03.08.2023</b>
		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 429 cd/klm**



Classifications	
DIN 5040	B 5 1
CIE	N1=63 N2=86 N3=95 N4=78 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	78.1%
$\phi_o$	21.9%

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°	411.8	411.8	411.8	411.8	411.8	411.8	411.8	2.5	2.5
5°	409.0	407.3	405.0	406.4	408.3	408.3	408.7	19.5	21.9
10°	401.9	399.8	395.6	394.8	395.0	394.6	395.0	37.7	59.6
15°	399.8	396.0	386.0	378.7	373.7	370.5	370.4	54.1	113.8
20°	412.0	404.2	382.1	360.3	344.8	335.4	333.6	68.7	182.5
25°	428.7	419.7	386.2	342.0	307.4	287.4	282.2	81.0	263.5
30°	406.2	406.4	384.2	323.4	261.9	228.9	219.5	87.6	351.1
35°	328.1	339.8	351.8	297.2	211.1	168.2	156.8	84.4	435.5
40°	242.7	253.2	284.0	257.1	161.6	117.6	107.2	73.3	508.8
45°	193.2	191.3	206.1	202.2	118.6	81.5	73.7	60.3	569.1
50°	168.5	157.2	146.5	145.8	85.8	58.6	53.4	49.3	618.5
55°	148.6	133.1	107.2	99.9	62.9	44.3	40.9	40.6	659.0
60°	123.5	108.6	80.0	67.9	46.9	34.4	32.2	32.9	691.9
65°	91.5	81.0	59.1	47.5	36.1	27.0	25.4	25.6	717.5
70°	60.2	54.5	42.3	34.6	28.0	21.0	19.4	18.9	736.4
75°	43.1	39.2	31.3	26.2	21.7	15.5	13.5	14.3	750.7
80°	39.2	35.6	27.4	20.7	16.7	10.7	8.0	12.1	762.9
85°	42.5	38.8	29.2	19.4	12.9	6.9	3.4	11.8	774.7
90°	51.7	47.2	34.3	20.7	11.3	4.4	0.6	13.1	787.8
95°	71.3	64.2	44.5	24.7	12.8	5.2	1.1	17.1	804.9
100°	97.2	85.6	55.2	28.6	14.3	6.1	1.8	21.5	826.4
105°	120.2	103.0	65.3	32.5	15.7	6.9	2.8	25.1	851.6
110°	133.8	113.4	72.0	35.7	17.0	7.6	3.5	27.0	878.6
115°	137.4	116.7	75.1	37.4	17.7	8.2	3.9	27.0	905.5
120°	131.5	112.0	72.9	36.7	17.5	8.5	4.2	25.0	930.5
125°	114.0	97.3	64.4	33.4	16.5	8.4	4.4	20.9	951.4
130°	89.6	76.8	52.0	28.4	14.9	8.3	4.5	15.9	967.3
135°	64.2	55.4	38.9	22.9	13.2	7.9	4.4	11.1	978.4
140°	43.4	38.1	28.3	18.4	11.3	7.3	4.5	7.5	985.9
145°	29.7	26.7	21.1	14.9	9.5	6.3	4.4	5.0	990.9
150°	21.4	19.7	16.5	11.7	8.2	5.8	4.4	3.4	994.4
155°	16.0	15.0	12.7	9.4	8.0	5.2	4.3	2.3	996.7
160°	12.3	11.7	9.5	8.1	6.6	5.4	4.1	1.5	998.2
165°	10.0	9.6	7.9	6.6	5.9	4.7	4.5	1.0	999.2
170°	7.8	6.8	5.5	5.6	6.0	4.8	4.8	0.6	999.8
175°	4.9	4.4	4.8	4.8	4.9	4.9	5.2	0.2	1000.0
180°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	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	20.8	22.0	21.4	22.6	23.3	16.4	17.6	16.9	18.2	18.8
	3H	21.6	22.7	22.2	23.3	24.0	16.9	18.0	17.5	18.6	19.3
	4H	21.9	22.9	22.5	23.5	24.3	17.1	18.2	17.7	18.8	19.5
	6H	22.2	23.1	22.9	23.8	24.5	17.3	18.3	17.9	18.9	19.7
	8H	22.4	23.2	23.1	23.9	24.7	17.3	18.2	18.0	18.9	19.6
	12H	22.8	23.5	23.5	24.2	25.0	17.3	18.2	18.0	18.9	19.6
4H	2H	20.8	21.8	21.4	22.5	23.2	17.0	18.0	17.6	18.6	19.4
	3H	21.7	22.6	22.4	23.2	24.0	17.7	18.5	18.3	19.2	20.0
	4H	22.1	22.8	22.8	23.5	24.4	18.0	18.8	18.7	19.5	20.3
	6H	22.6	23.2	23.3	24.0	24.8	18.3	19.0	19.0	19.7	20.5
	8H	22.9	23.5	23.7	24.3	25.1	18.3	19.0	19.1	19.7	20.6
	12H	23.4	23.9	24.2	24.7	25.6	18.4	18.9	19.1	19.7	20.6
8H	4H	22.0	22.7	22.8	23.4	24.2	18.3	18.9	19.0	19.6	20.5
	6H	22.7	23.2	23.4	23.9	24.8	18.7	19.2	19.5	20.0	20.9
	8H	23.2	23.6	23.9	24.4	25.3	18.9	19.4	19.7	20.1	21.0
	12H	23.9	24.3	24.7	25.1	26.0	19.0	19.4	19.8	20.2	21.1
12H	4H	22.0	22.5	22.7	23.3	24.2	18.3	18.8	19.1	19.6	20.5
	6H	22.7	23.1	23.4	23.9	24.8	18.9	19.3	19.6	20.0	21.0
	8H	23.2	23.6	24.0	24.4	25.3	19.1	19.5	19.9	20.3	21.2

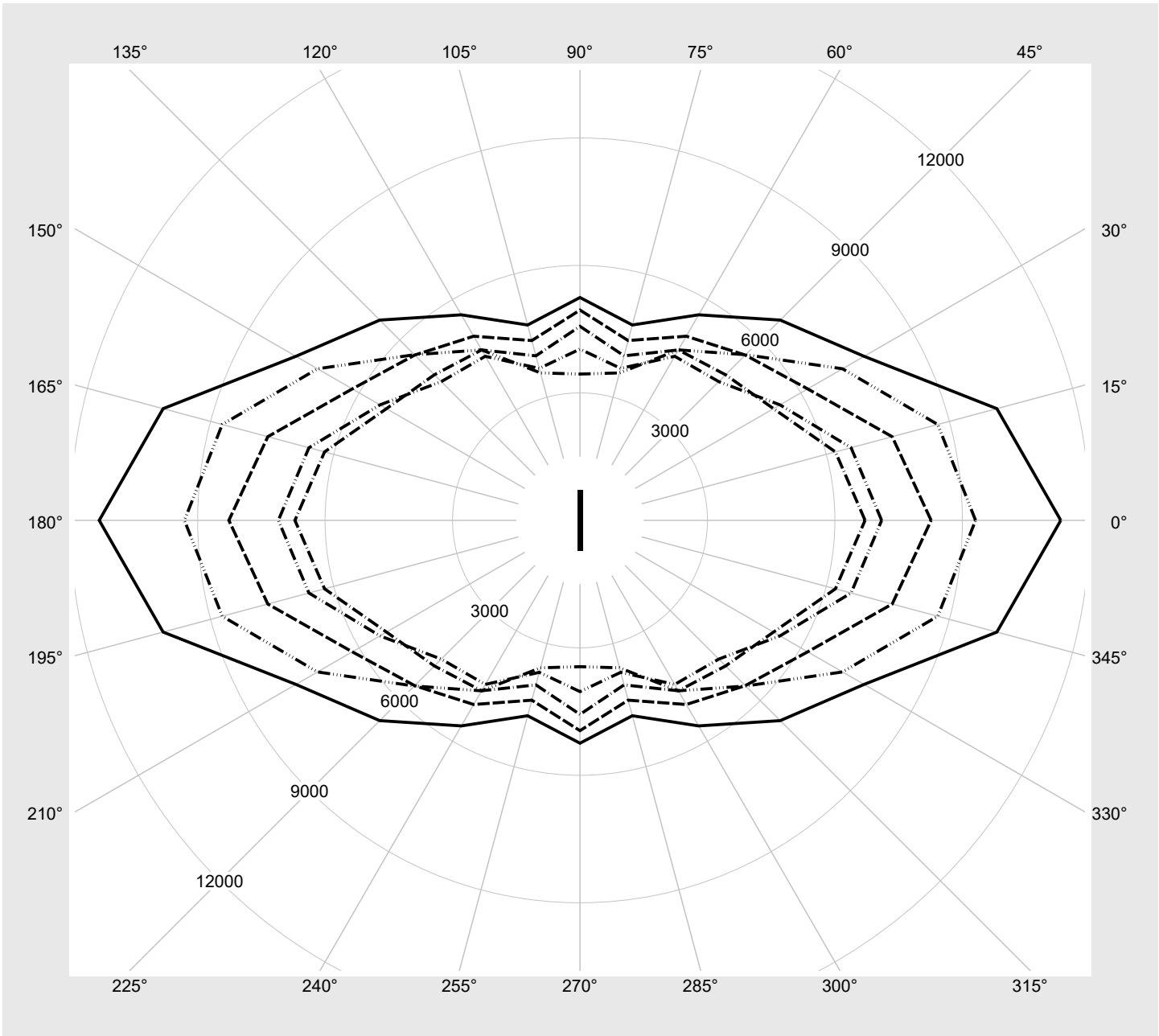
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1480</b>	<b>H(C0) = 36</b>	<b>H(C180) = 36</b>
			<b>B = 115</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

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°		18183.8	18153.3	20037.8	20457.7	12667.6	9312.2	9109.0	
50°		16678.4	15703.8	15053.4	15677.9	9832.0	7269.0	7261.7	
55°		15644.8	14155.1	11772.1	11557.5	7826.3	6044.3	6229.0	
60°		13989.3	12451.0	9516.8	8578.1	6450.7	5267.5	5623.7	
65°		11316.2	10158.2	7721.5	6665.6	5585.9	4760.5	5244.5	
70°		8264.7	7607.7	6188.3	5501.7	5004.3	4381.2	4949.3	
75°		6709.7	6224.6	5259.2	4846.3	4631.5	4008.9	4566.9	
80°		7100.0	6605.7	5436.2	4618.2	4458.9	3702.7	4030.6	
85°		9310.7	8717.8	7134.9	5513.2	4632.5	3592.7	3443.4	

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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	14870	84.9
95	240	252	14116	80.1
90	227	250	13407	75.8
85	213	248	12637	71.1
80	200	245	11915	66.8
75	186	243	11128	62.2
70	173	240	10389	58.0
65	160	237	9644	53.7
60	148	234	8949	49.8
55	135	231	8193	45.5
50	122	227	7430	41.4
45	110	223	6718	37.5
40	97	219	5941	33.3
35	85	214	5218	29.5
30	72	208	4431	25.5
25	60	201	3699	21.6
20	48	193	2961	17.9
15	36	182	2218	14.1
10	24	168	1475	10.3
5	12	142	724	6.6
1	4	102	220	4.3