

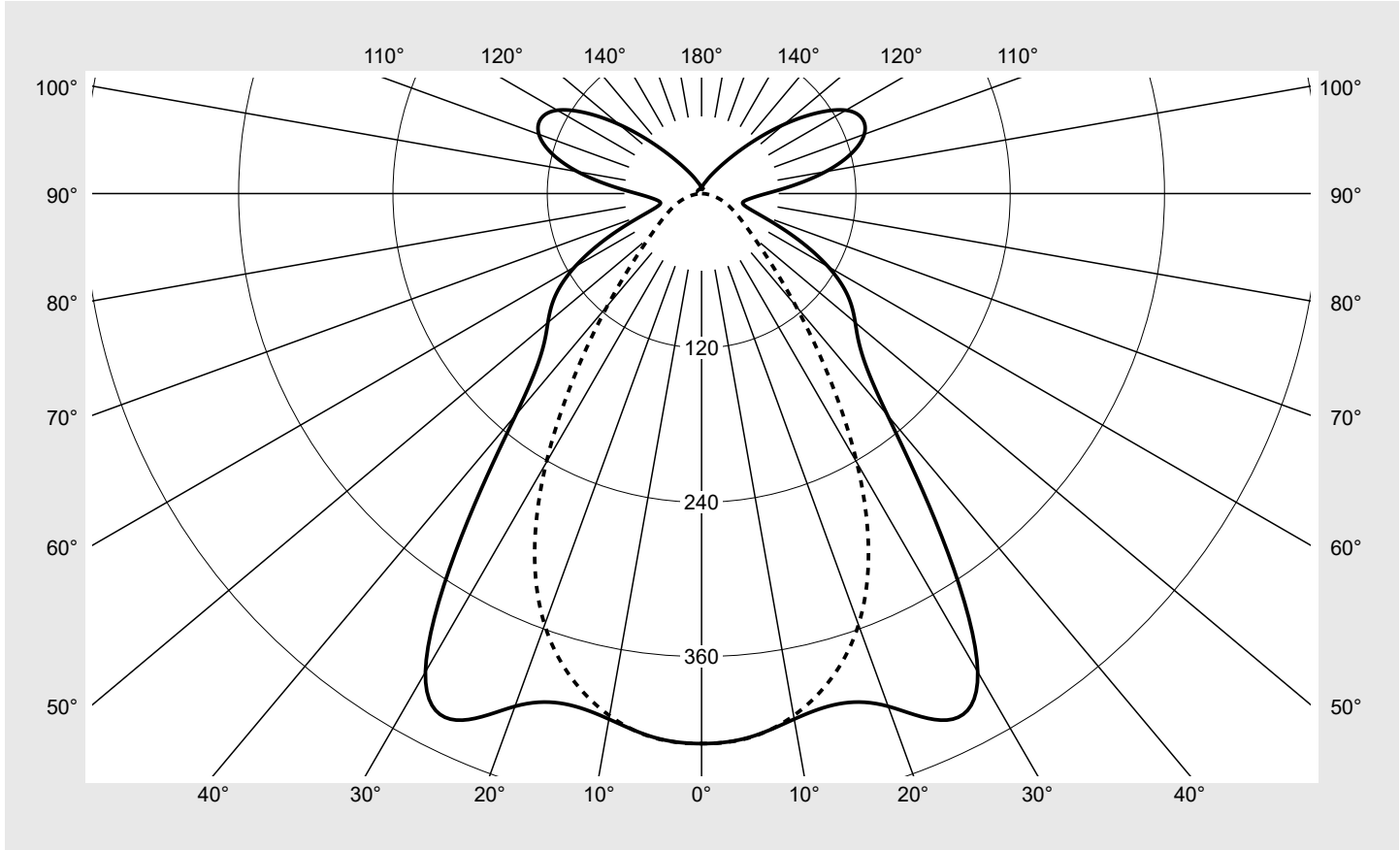


# Photometric test report

<b>Family</b> <b>Licross® 21 Performance</b>	<b>Order number: 52TM16DN4A5G</b> <b>EAN: 4058352903544</b>	<b>LP number</b> <b>58520_293</b>
	<b>Version</b> cover frosted, direct-/ indirect distribution	<b>serial documentation</b> <b>03.08.2023</b>
	<b>Lamps</b> LED 4000 K   CRI ≥ 80	
	<b>Controlgear</b> ECG-DALI	
	<b>Rated values</b> <ul style="list-style-type: none"> <li>Net luminous flux = 10840 lm</li> <li>Power consumption = 62.0 W</li> <li>Luminous efficacy = 174.8 lm/W</li> </ul>	
		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 452 cd/klm**



Classifications	
DIN 5040	B 5 1
CIE	N1=65 N2=88 N3=96 N4=79 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	79.3%
$\phi_o$	20.7%

Measurement conditions
DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
		<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°	427.7	427.7	427.7	427.7	427.7	427.7	427.7	2.6	2.6
5°	424.4	422.4	420.2	422.1	424.3	424.4	424.8	20.2	22.8
10°	414.9	412.5	408.9	409.5	411.2	411.6	412.2	39.1	61.9
15°	410.8	406.7	398.1	393.2	390.9	389.7	390.1	56.3	118.2
20°	424.3	415.5	394.5	375.8	364.0	357.7	356.8	71.8	190.0
25°	451.7	439.9	403.9	360.3	329.2	311.6	307.2	85.9	275.8
30°	429.5	430.9	412.5	347.4	284.5	251.0	241.5	94.2	370.0
35°	325.6	344.5	379.3	329.0	231.5	183.8	171.0	89.9	460.0
40°	224.9	238.5	293.1	289.7	177.2	125.7	113.8	76.0	535.9
45°	176.4	174.8	199.5	224.7	128.0	84.3	75.7	60.6	596.5
50°	156.0	144.3	136.6	154.2	90.2	58.9	53.2	48.2	644.7
55°	139.0	122.9	98.4	99.7	63.9	43.4	39.8	38.7	683.4
60°	113.7	99.1	72.2	64.7	46.3	33.0	30.8	30.7	714.1
65°	79.7	70.2	51.6	43.8	34.5	25.6	24.0	23.0	737.1
70°	47.7	43.4	35.6	31.1	26.2	19.7	18.2	16.2	753.3
75°	33.9	31.2	26.1	23.2	19.9	14.4	12.7	12.2	765.5
80°	33.7	30.7	23.7	18.2	15.1	9.9	7.5	10.6	776.1
85°	39.3	35.6	26.3	17.2	11.4	6.2	3.2	10.7	786.9
90°	50.4	45.6	32.3	18.9	10.0	3.9	0.6	12.4	799.3
95°	71.3	63.5	42.3	22.5	11.4	4.6	1.0	16.4	815.7
100°	97.9	84.6	52.5	26.5	12.9	5.3	1.6	20.8	836.6
105°	120.7	101.7	62.6	30.2	14.2	6.1	2.4	24.4	860.9
110°	134.6	112.6	69.4	33.2	15.3	6.7	2.9	26.3	887.2
115°	137.8	115.5	72.0	34.6	16.0	7.2	3.2	26.1	913.3
120°	129.6	108.9	68.7	33.6	15.7	7.4	3.5	23.8	937.1
125°	109.1	92.2	59.5	30.3	14.7	7.4	3.7	19.5	956.6
130°	83.4	71.0	47.4	25.5	13.2	7.2	3.7	14.5	971.2
135°	58.6	50.3	35.1	20.5	11.4	6.8	3.7	10.0	981.2
140°	39.2	34.3	25.3	16.3	9.8	6.3	3.7	6.7	987.9
145°	26.6	23.8	18.6	13.0	8.2	5.4	3.7	4.4	992.3
150°	18.7	17.2	14.2	10.0	6.9	5.0	3.7	2.9	995.2
155°	13.8	12.8	10.8	7.8	6.8	4.4	3.6	2.0	997.2
160°	10.2	9.8	7.9	6.8	5.6	4.6	3.5	1.3	998.5
165°	8.2	7.8	6.5	5.6	5.0	4.1	3.7	0.8	999.3
170°	6.4	5.6	4.7	4.7	5.0	4.1	3.9	0.5	999.8
175°	4.2	3.7	4.1	4.1	4.1	4.2	4.2	0.2	1000.0
180°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	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	19.4	20.6	19.9	21.2	21.8	15.6	16.8	16.1	17.4	18.0
	3H	20.0	21.0	20.6	21.6	22.3	16.0	17.1	16.6	17.7	18.4
	4H	20.1	21.1	20.8	21.7	22.5	16.2	17.2	16.8	17.8	18.5
	6H	20.4	21.3	21.0	21.9	22.7	16.3	17.3	16.9	17.9	18.6
	8H	20.6	21.4	21.3	22.1	22.9	16.3	17.2	16.9	17.8	18.6
	12H	20.9	21.7	21.7	22.4	23.2	16.3	17.2	17.0	17.8	18.6
4H	2H	19.3	20.4	20.0	21.0	21.7	16.0	17.0	16.7	17.6	18.4
	3H	20.0	20.9	20.7	21.6	22.3	16.6	17.4	17.3	18.1	18.9
	4H	20.3	21.1	21.0	21.7	22.5	16.9	17.6	17.6	18.3	19.1
	6H	20.7	21.4	21.4	22.1	22.9	17.1	17.8	17.8	18.5	19.3
	8H	21.1	21.7	21.8	22.4	23.2	17.2	17.8	17.9	18.5	19.3
	12H	21.6	22.1	22.3	22.8	23.7	17.2	17.7	17.9	18.5	19.3
8H	4H	20.3	20.9	21.0	21.6	22.4	17.0	17.6	17.8	18.3	19.2
	6H	20.8	21.3	21.6	22.1	22.9	17.4	17.9	18.2	18.6	19.5
	8H	21.3	21.7	22.1	22.5	23.4	17.6	18.0	18.3	18.8	19.7
	12H	22.1	22.4	22.8	23.2	24.1	17.7	18.1	18.5	18.8	19.8
12H	4H	20.2	20.7	20.9	21.5	22.3	17.1	17.6	17.8	18.3	19.2
	6H	20.8	21.2	21.6	22.0	22.9	17.5	17.9	18.3	18.7	19.6
	8H	21.3	21.7	22.1	22.5	23.4	17.8	18.1	18.5	18.9	19.8

<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>

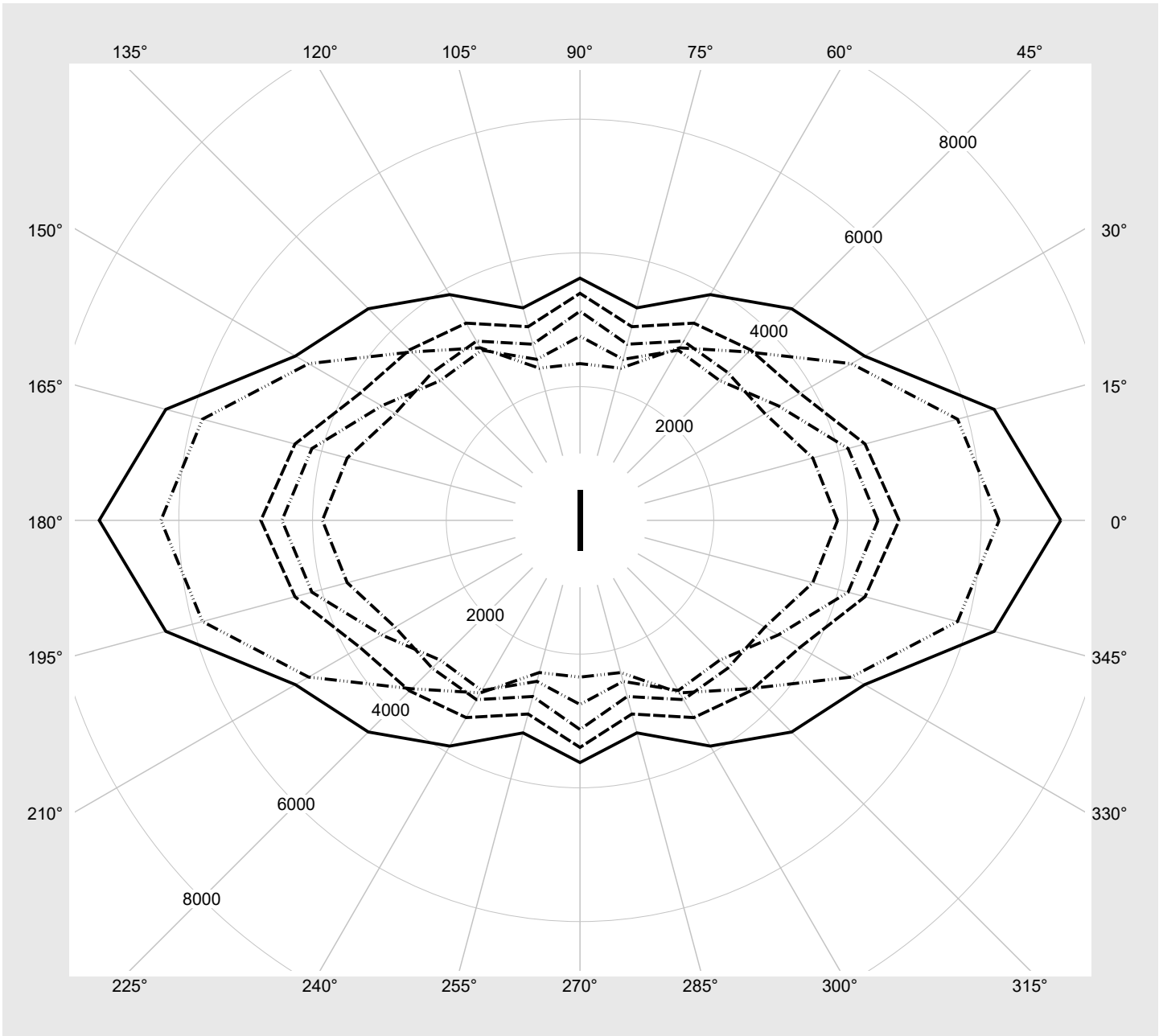
C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		12101.8	12088.8	14137.4	16571.2	9972.6	7025.1	6814.6	
50°		11257.4	10507.2	10226.1	12090.4	7534.5	5325.0	5268.3	
55°		10665.8	9533.3	7878.1	8413.7	5798.6	4319.0	4416.8	
60°		9390.2	8286.9	6255.8	5958.0	4644.4	3691.7	3922.9	
65°		7190.8	6413.2	4914.4	4476.1	3897.9	3290.4	3622.0	
70°		4773.5	4413.5	3799.6	3606.3	3405.6	2998.6	3395.3	
75°		3852.6	3604.2	3193.8	3126.5	3095.6	2727.2	3127.9	
80°		4457.7	4151.3	3425.5	2956.0	2938.8	2492.7	2753.4	
85°		6268.4	5845.8	4687.0	3561.4	2979.6	2356.5	2344.3	

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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	----	----	----	----
100	253	254	10801	61.8
95	240	252	10295	58.6
90	226	250	9744	55.1
85	213	248	9225	51.9
80	199	245	8660	48.5
75	186	243	8129	45.5
70	173	240	7593	42.3
65	160	237	7053	39.2
60	147	234	6508	36.1
55	134	231	5957	33.0
50	121	227	5400	29.9
45	109	223	4884	27.1
40	96	218	4317	24.1
35	84	213	3789	21.4
30	72	208	3256	18.6
25	60	201	2719	15.9
20	48	193	2179	13.0
15	36	182	1637	10.2
10	24	168	1090	7.5
5	12	142	538	4.9
2	4	102	168	3.1