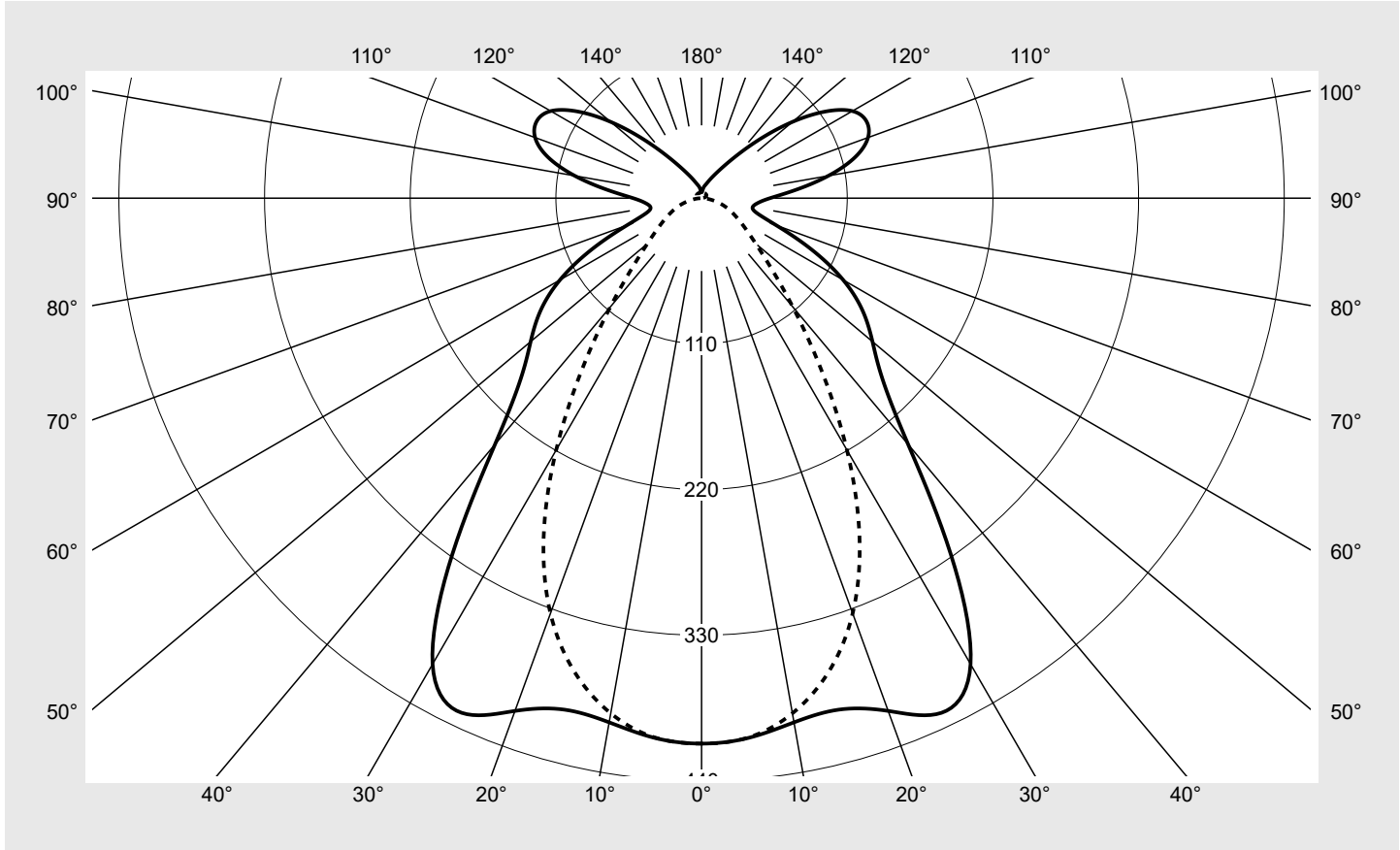


# Photometric test report

<b>Family</b> <b>Licross® 11 Performance</b>	<b>Order number: 51TS16DN4EXLE</b> <b>EAN: 4058352447437</b>	<b>LP number</b> <b>58519_25</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 = 14250 lm Power consumption = 86.1 W Luminous efficacy = 165.5 lm/W	<b>serial documentation</b> <b>05.10.2020</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	20.6	21.9	21.2	22.5	23.1	16.2	17.5	16.8	18.0	18.7
	3H	21.4	22.5	22.1	23.2	23.9	16.7	17.8	17.3	18.5	19.1
	4H	21.7	22.7	22.4	23.4	24.1	17.0	18.0	17.6	18.6	19.4
	6H	22.0	22.9	22.7	23.6	24.4	17.1	18.1	17.8	18.8	19.5
	8H	22.3	23.1	23.0	23.8	24.6	17.1	18.1	17.8	18.7	19.5
	12H	22.6	23.3	23.3	24.0	24.9	17.2	18.0	17.8	18.7	19.5
4H	2H	20.6	21.7	21.2	22.3	23.0	16.8	17.8	17.5	18.5	19.2
	3H	21.6	22.4	22.2	23.1	23.9	17.5	18.4	18.2	19.0	19.8
	4H	21.9	22.7	22.6	23.4	24.2	17.9	18.6	18.6	19.3	20.1
	6H	22.4	23.1	23.2	23.8	24.7	18.1	18.8	18.8	19.5	20.4
	8H	22.8	23.4	23.5	24.1	25.0	18.2	18.8	18.9	19.6	20.4
	12H	23.3	23.8	24.0	24.5	25.4	18.2	18.8	19.0	19.5	20.4
8H	4H	21.9	22.5	22.6	23.2	24.1	18.1	18.7	18.9	19.4	20.3
	6H	22.5	23.0	23.3	23.8	24.7	18.5	19.0	19.3	19.8	20.7
	8H	23.0	23.5	23.8	24.2	25.2	18.8	19.2	19.5	20.0	20.9
	12H	23.8	24.1	24.5	24.9	25.9	18.9	19.3	19.7	20.1	21.0
12H	4H	21.8	22.4	22.6	23.1	24.0	18.2	18.7	18.9	19.4	20.3
	6H	22.5	23.0	23.3	23.7	24.6	18.7	19.1	19.5	19.9	20.8
	8H	23.1	23.5	23.9	24.2	25.2	19.0	19.3	19.8	20.1	21.1

<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°	17425.6	17396.4	19202.3	19604.7	12139.4	8923.9	8729.2	
	50°	15983.0	15049.1	14425.7	15024.2	9422.1	6965.9	6958.9	
	55°	14992.5	13564.9	11281.3	11075.6	7500.0	5792.3	5969.3	
	60°	13406.0	11931.8	9120.0	8220.5	6181.7	5047.9	5389.2	
	65°	10844.4	9734.7	7399.6	6387.7	5353.0	4562.1	5025.9	
	70°	7920.1	7290.5	5930.3	5272.3	4795.6	4198.5	4742.9	
	75°	6430.0	5965.1	5039.9	4644.2	4438.4	3841.7	4376.5	
	80°	6804.0	6330.3	5209.5	4425.7	4272.9	3548.4	3862.5	
	85°	8922.5	8354.4	6837.4	5283.4	4439.4	3442.9	3299.8	

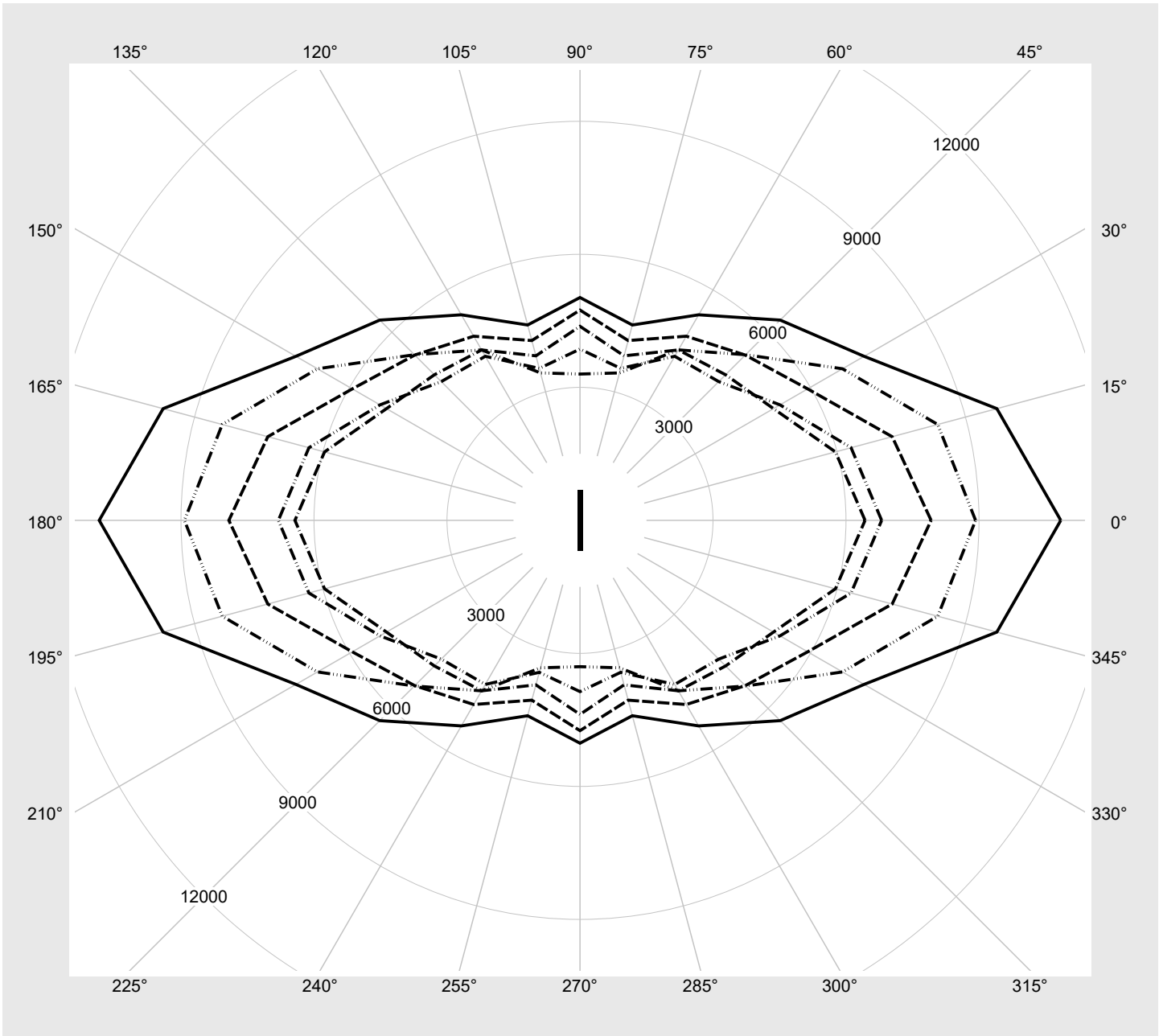
**Photometric test report**

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

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  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	14250	86.1
95	240	252	13520	81.2
90	226	250	12814	76.5
85	213	248	12106	71.9
80	199	245	11374	67.1
75	186	243	10693	62.9
70	173	240	9986	58.5
65	160	237	9279	54.2
60	147	234	8542	49.7
55	135	231	7862	45.7
50	121	227	7098	41.3
45	109	223	6417	37.4
40	97	219	5708	33.4
35	84	213	4969	29.4
30	72	208	4260	25.5
25	60	201	3550	21.6
20	48	193	2839	17.9
15	36	182	2130	14.1
10	25	169	1449	10.4
5	13	145	738	6.9