

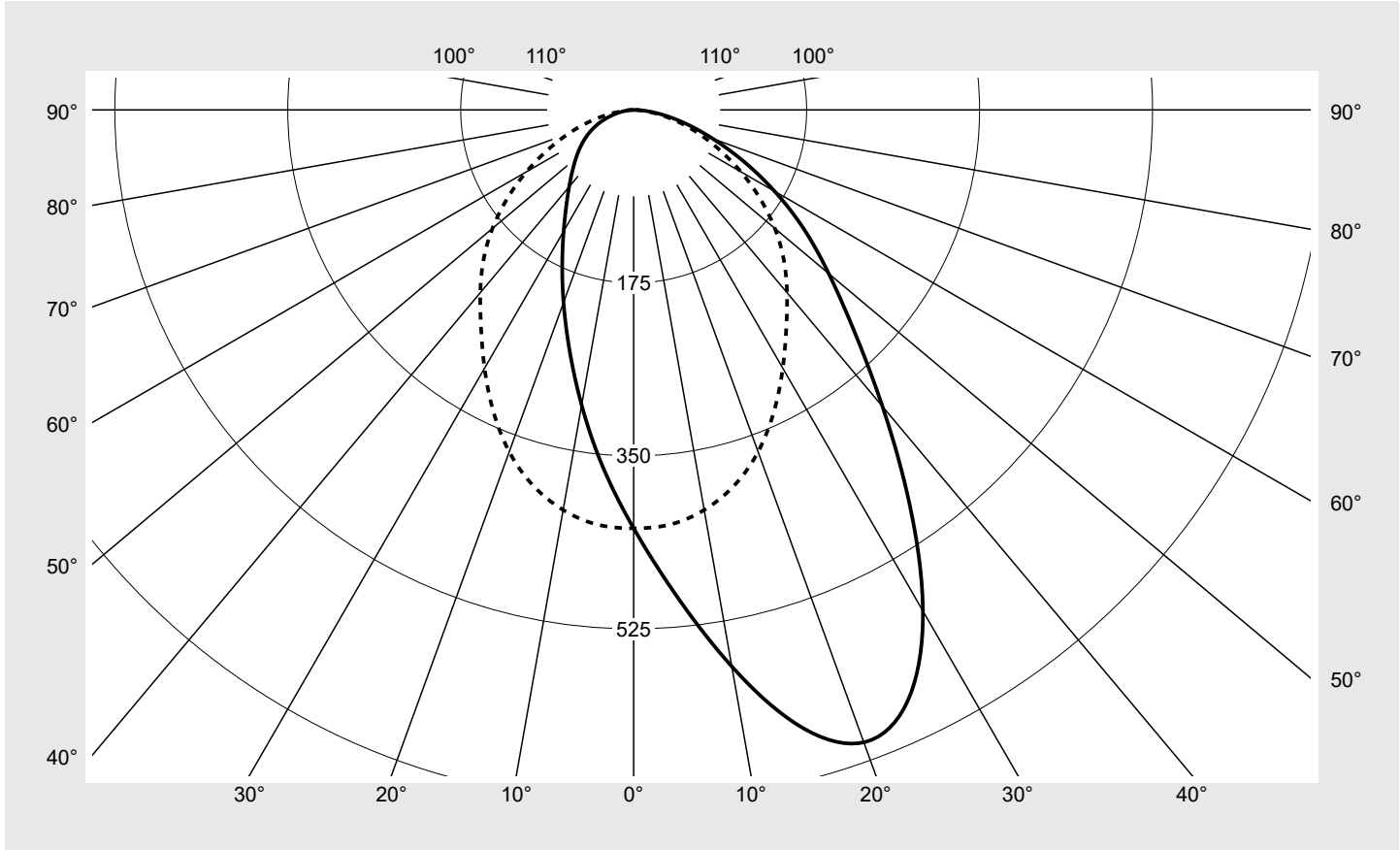


# Photometric test report

<b>Family</b> <b>Licross® 11 Recessed</b>	<b>Order number: 51TL14CN475FD</b> <b>EAN: 4058352418215</b>	<b>LP number</b> <b>58683_17</b>
	<b>Version</b> cover frosted, asymmetric distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-Multilumen CLOi <b>Setting</b> AC-mode	<b>serial documentation</b> <b>26.08.2020</b>
	<b>Rated values</b> Net luminous flux = 7640 lm Power consumption = 48.0 W Luminous efficacy = 159.2 lm/W	

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 681 cd/klm**



Classifications	
DIN 5040	A 4 0
CIE	N1=56 N2=84 N3=97 N4=100 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	100.0%
$\phi_o$	0.0%

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	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°
$\gamma$	Luminous intensity in cd/klm						
0°	423.3	423.3	423.3	423.3	423.3	423.3	423.3
5°	492.9	491.4	480.7	469.8	456.1	438.7	421.2
10°	571.7	566.6	544.9	518.0	484.6	447.0	411.0
15°	644.7	637.1	605.9	562.5	507.2	447.4	393.4
20°	680.9	674.8	644.8	594.0	519.7	438.2	368.1
25°	657.9	657.6	642.1	600.0	518.2	419.3	336.2
30°	585.4	591.2	594.0	574.0	501.7	394.4	301.7
35°	486.6	496.5	513.6	518.9	472.6	367.8	269.2
40°	391.6	400.9	423.7	447.6	435.3	342.4	241.4
45°	315.0	320.7	340.1	373.0	389.0	312.9	214.9
50°	257.7	259.4	273.6	305.9	334.9	275.1	186.5
55°	210.4	209.0	219.8	247.0	276.4	230.5	156.0
60°	164.7	163.2	172.4	194.6	218.3	183.7	125.4
65°	122.2	121.6	130.0	147.7	165.1	139.3	96.1
70°	85.2	85.7	92.4	106.6	118.3	100.1	70.2
75°	55.7	56.1	61.0	71.1	77.9	65.9	46.5
80°	31.6	31.9	35.4	40.3	43.4	36.3	25.7
85°	13.1	12.9	14.6	16.5	16.2	13.2	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C-planes	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°	Phi-zone	Total Phi-zone
$\gamma$	Luminous intensity in cd/klm					Luminous flux in lm/klm		
0°	423.3	423.3	423.3	423.3	423.3	423.3	2.5	2.5
5°	404.2	389.5	375.7	365.6	362.1	361.8	20.2	22.8
10°	378.5	351.6	328.9	312.6	305.3	303.2	40.3	63.1
15°	347.6	311.7	283.3	263.5	254.2	251.1	59.8	123.0
20°	312.8	271.7	241.2	220.7	211.0	207.4	77.2	200.1
25°	275.0	232.7	202.9	183.7	174.4	171.0	89.9	290.0
30°	237.7	196.9	169.7	152.6	144.6	141.7	96.4	386.5
35°	204.1	165.0	141.0	127.0	121.0	118.9	96.9	483.4
40°	176.0	138.8	117.2	106.8	102.8	101.6	93.4	576.7
45°	151.3	116.9	98.0	90.5	88.3	87.8	87.1	663.9
50°	128.6	98.3	82.7	77.4	76.2	76.3	79.3	743.1
55°	107.1	82.4	69.7	65.9	65.5	66.0	69.9	813.0
60°	87.0	68.0	58.3	55.3	55.4	56.0	59.0	872.0
65°	68.6	55.0	47.7	45.3	45.4	45.9	47.4	919.5
70°	51.6	42.4	37.2	35.1	35.2	35.4	35.8	955.3
75°	35.3	29.8	26.5	24.5	24.4	24.5	24.7	980.0
80°	20.2	17.6	15.6	14.5	14.4	14.5	14.3	994.3
85°	7.8	7.1	6.7	6.2	6.2	6.3	5.7	1000.0
90°	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	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	25.5	27.1	25.8	27.4	27.7	24.1	25.7	24.4	26.0	26.3
	3H	26.4	27.9	26.8	28.2	28.6	25.2	26.6	25.6	27.0	27.3
	4H	26.8	28.1	27.2	28.5	28.9	25.6	26.9	26.0	27.3	27.7
	6H	27.0	28.3	27.4	28.7	29.0	25.9	27.1	26.3	27.5	27.9
	8H	27.1	28.3	27.5	28.7	29.1	25.9	27.1	26.4	27.5	27.9
	12H	27.2	28.3	27.6	28.7	29.1	26.0	27.1	26.5	27.5	27.9
4H	2H	26.2	27.6	26.6	27.9	28.3	24.7	26.0	25.1	26.4	26.7
	3H	27.3	28.5	27.8	28.9	29.3	26.1	27.2	26.5	27.6	28.0
	4H	27.8	28.8	28.2	29.2	29.6	26.6	27.6	27.1	28.1	28.5
	6H	28.1	29.0	28.6	29.4	29.9	27.0	27.9	27.5	28.3	28.8
	8H	28.2	29.0	28.7	29.5	30.0	27.1	27.9	27.6	28.4	28.8
	12H	28.3	29.0	28.8	29.5	30.0	27.2	27.9	27.7	28.4	28.8
8H	4H	28.1	28.9	28.6	29.4	29.8	26.9	27.7	27.3	28.1	28.6
	6H	28.5	29.2	29.0	29.7	30.2	27.4	28.0	27.9	28.5	29.0
	8H	28.7	29.3	29.2	29.8	30.3	27.5	28.1	28.0	28.6	29.1
	12H	28.8	29.3	29.3	29.8	30.3	27.7	28.1	28.2	28.6	29.2
12H	4H	28.2	28.9	28.7	29.3	29.8	26.9	27.6	27.4	28.1	28.6
	6H	28.6	29.2	29.1	29.7	30.2	27.4	28.0	27.9	28.5	29.0
	8H	28.8	29.3	29.3	29.8	30.3	27.6	28.1	28.1	28.6	29.2

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1500</b>
			<b>B = 58</b>

C-planes	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°
$\gamma$	Luminance in cd/m <sup>2</sup>												
45°	39115.5	39822.4	42241.5	46325.9	48305.2	38864.1	26689.6	18795.8	14515.2	12165.1	11243.0	10968.8	10898.9
50°	35201.2	35434.5	37378.6	41785.2	45759.8	37577.4	25480.7	17574.6	13435.0	11293.1	10568.2	10415.2	10425.6
55°	32205.8	32002.4	33648.6	37812.4	42324.6	35285.1	23878.4	16403.1	12612.1	10670.8	10093.6	10029.8	10111.1
60°	28925.0	28669.7	30280.2	34179.1	38344.5	32257.5	22016.0	15274.6	11938.8	10232.7	9720.5	9723.9	9841.7
65°	25389.9	25258.6	27006.3	30686.1	34300.2	28938.4	19973.0	14252.4	11437.4	9906.2	9417.5	9431.8	9546.3
70°	21870.3	22014.9	23729.7	27378.5	30366.4	25706.0	18023.3	13244.3	10881.6	9559.8	8999.6	9035.3	9077.4
75°	18905.2	19034.1	20684.1	24117.8	26428.7	22366.7	15791.5	11980.5	10126.6	8976.4	8298.1	8278.8	8300.2
80°	16004.8	16145.4	17888.6	20396.4	21925.2	18352.3	13011.0	10222.0	8904.6	7881.0	7353.1	7302.0	7343.5
85°	13191.2	13044.1	14669.3	16587.7	16307.6	13273.8	9202.2	7870.2	7182.0	6703.4	6296.3	6264.1	6321.5

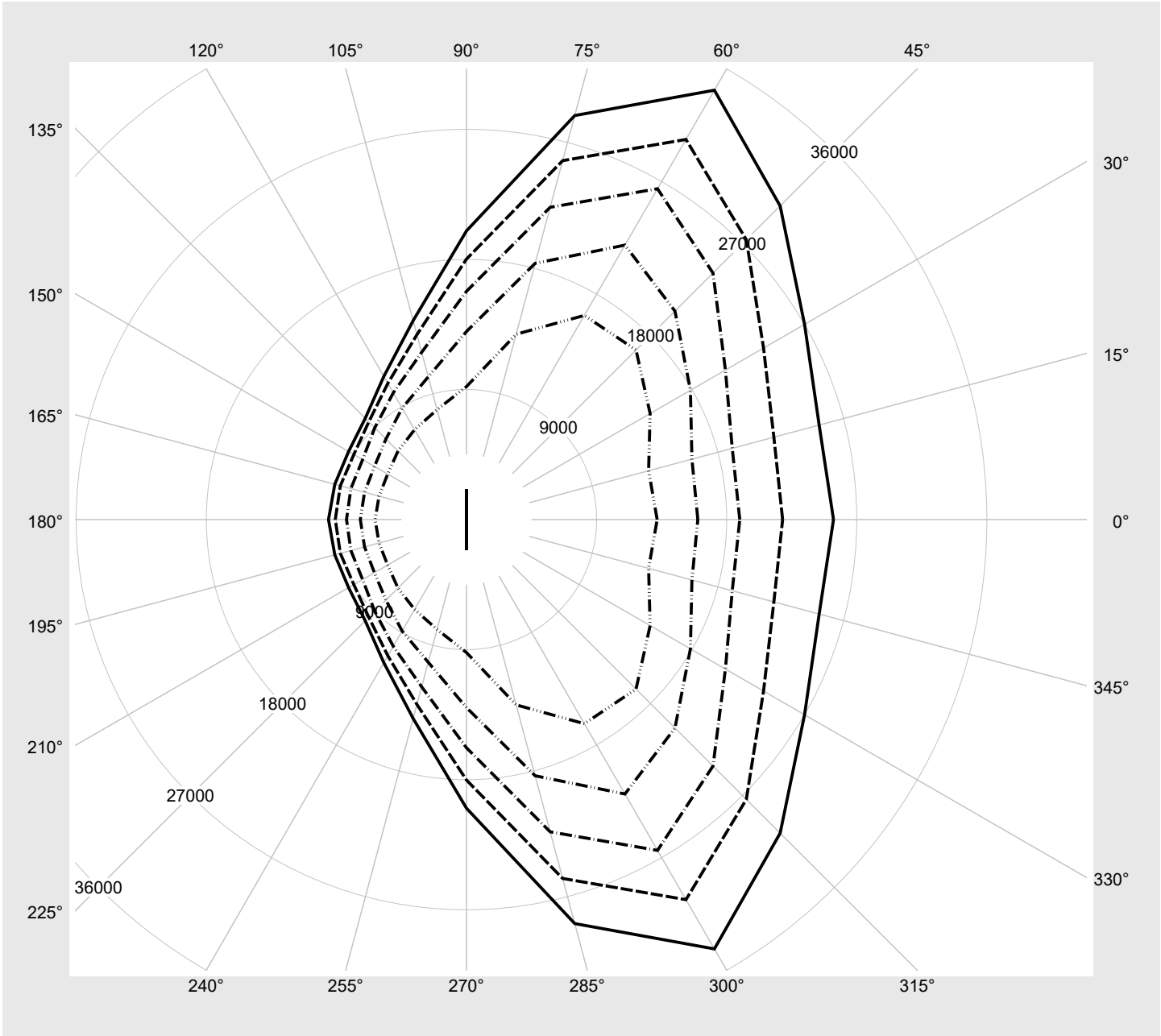
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**Luminance values in cd/m<sup>2</sup>**

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



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<b>Multilumen Table</b>	environmental temperature: 25°C	<b>sITeco</b>
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]	Power consumption	Power consumption
	1	2	3			end of lifetime [W]	average [W]
1	A	C	E	7640	48.0	53.0	50.5
2	A	C	F	7320	45.8	50.7	48.2
3	A	D	E	6860	42.7	47.1	44.9
4	A	D	F	6340	39.1	43.1	41.1
5	B	C	E	5930	36.5	39.9	38.2
6	B	C	F	5390	33.0	36.0	34.5
7	B	D	E	4910	29.9	32.5	31.2
8	B	D	F	4430	26.9	29.4	28.2