

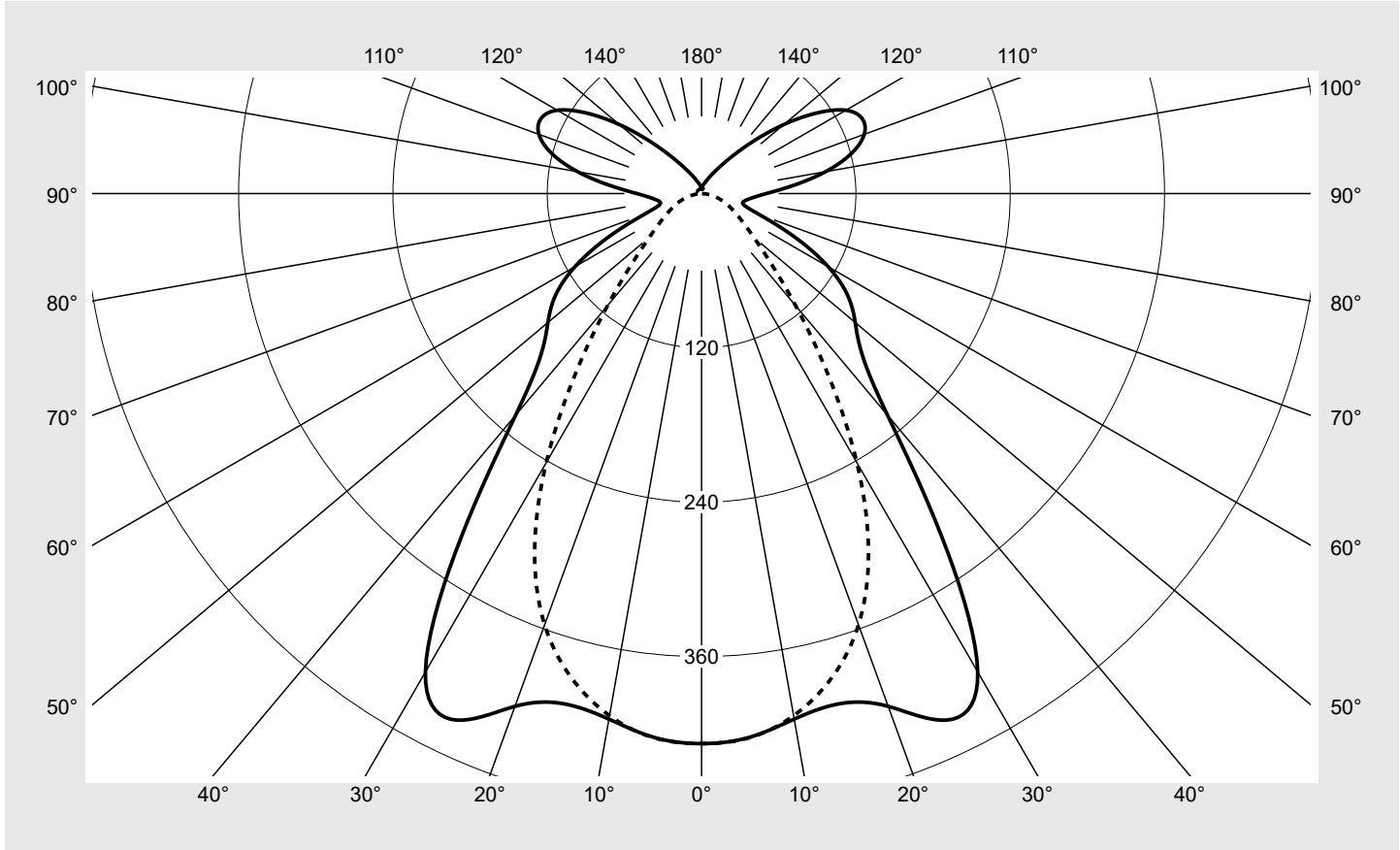


# Photometric test report

<b>Family</b> <b>Licross® 21 Performance</b>	<b>Order number: 52TM16CN49XG</b> <b>EAN: 4058352903469</b>	<b>LP number</b> <b>58520_313</b>
	<b>Version</b> cover frosted, direct-/ indirect distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-Multilumen CLOi <b>Rated values</b> Net luminous flux = 9240 lm Power consumption = 50.4 W Luminous efficacy = 183.3 lm/W	<b>serial documentation</b> <b>17.08.2023</b>
		

**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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<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°	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	18.8	20.1	19.4	20.6	21.3	15.0	16.3	15.6	16.8	17.5
	3H	19.4	20.5	20.0	21.1	21.8	15.4	16.5	16.0	17.1	17.8
	4H	19.6	20.6	20.2	21.2	21.9	15.6	16.7	16.2	17.3	18.0
	6H	19.8	20.7	20.5	21.4	22.1	15.8	16.7	16.4	17.3	18.1
	8H	20.1	20.9	20.8	21.5	22.3	15.7	16.6	16.4	17.3	18.0
	12H	20.4	21.1	21.1	21.8	22.6	15.8	16.6	16.4	17.3	18.0
4H	2H	18.8	19.9	19.4	20.5	21.1	15.5	16.5	16.1	17.1	17.8
	3H	19.5	20.3	20.1	21.0	21.8	16.0	16.9	16.7	17.5	18.3
	4H	19.7	20.5	20.4	21.2	22.0	16.3	17.1	17.0	17.8	18.6
	6H	20.2	20.8	20.9	21.5	22.4	16.5	17.2	17.2	17.9	18.7
	8H	20.5	21.1	21.2	21.8	22.7	16.6	17.2	17.3	17.9	18.8
	12H	21.0	21.5	21.8	22.3	23.2	16.6	17.2	17.4	17.9	18.8
8H	4H	19.7	20.3	20.4	21.0	21.9	16.5	17.1	17.2	17.8	18.6
	6H	20.3	20.8	21.0	21.5	22.4	16.9	17.3	17.6	18.1	19.0
	8H	20.8	21.2	21.5	22.0	22.8	17.0	17.5	17.8	18.2	19.1
	12H	21.5	21.9	22.3	22.7	23.6	17.1	17.5	17.9	18.3	19.2
12H	4H	19.6	20.2	20.4	20.9	21.8	16.5	17.0	17.3	17.7	18.6
	6H	20.2	20.7	21.0	21.4	22.3	17.0	17.4	17.7	18.1	19.1
	8H	20.8	21.2	21.6	21.9	22.9	17.2	17.6	18.0	18.3	19.3

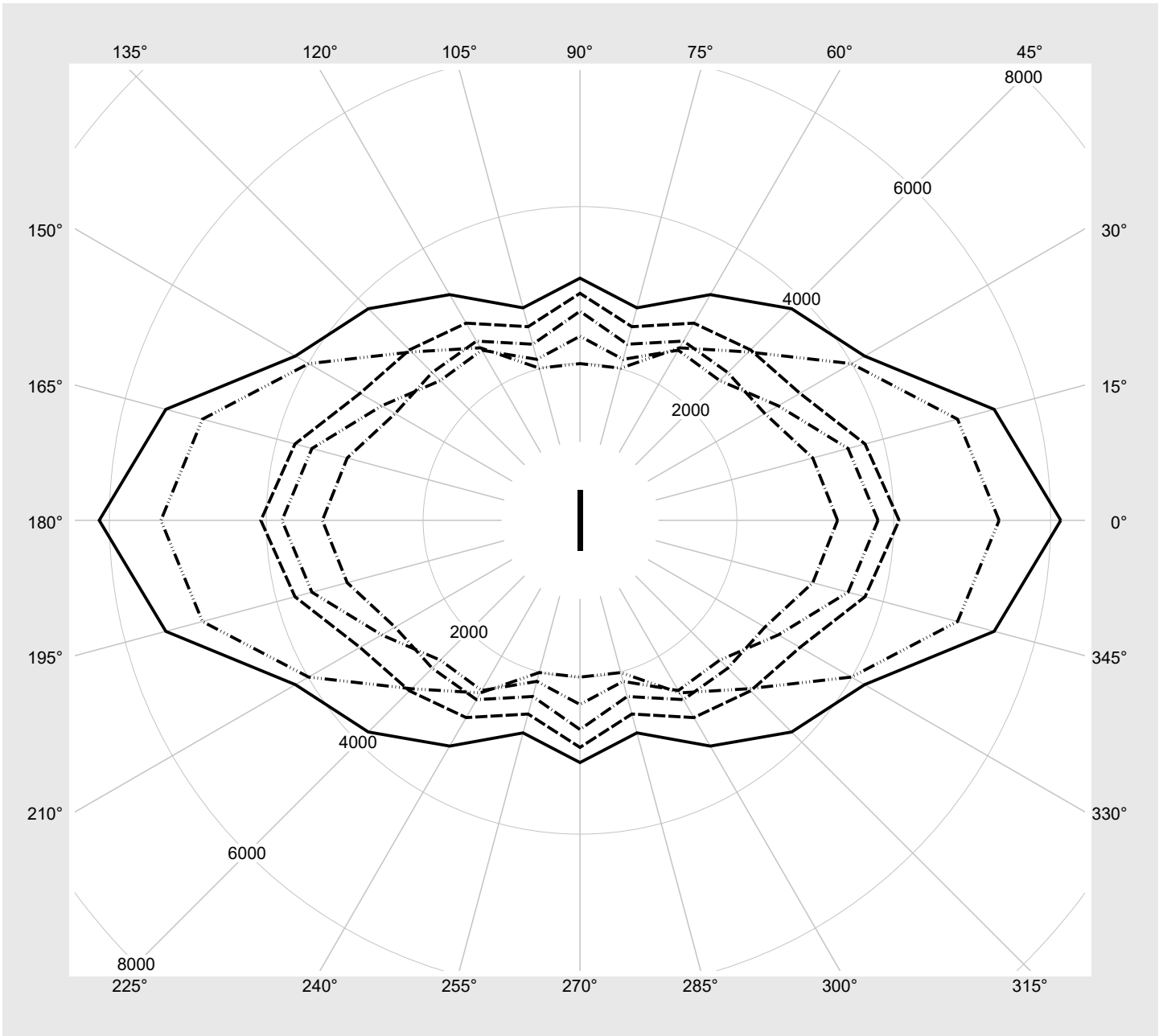
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1480</b>	<b>H(C0) = 36</b>	<b>H(C180) = 36</b>
			<b>B = 115</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

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°	10315.6	10304.5	12050.7	14125.3	8500.6	5988.2	5808.7	
	50°	9595.8	8956.4	8716.7	10305.8	6422.4	4539.0	4490.7	
	55°	9091.5	8126.2	6715.3	7171.9	4942.7	3681.5	3764.9	
	60°	8004.2	7063.7	5332.4	5078.6	3958.9	3146.8	3343.9	
	65°	6129.4	5466.6	4189.1	3815.4	3322.6	2804.7	3087.4	
	70°	4069.0	3762.1	3238.7	3074.0	2902.9	2556.0	2894.1	
	75°	3284.0	3072.2	2722.4	2665.0	2638.7	2324.7	2666.2	
	80°	3799.7	3538.6	2919.9	2519.7	2505.0	2124.7	2347.0	
	85°	5343.2	4983.0	3995.2	3035.7	2539.8	2008.6	1998.3	

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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>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	9240	50.4	60.5	55.4
2	A	C	F	8652	47.0	56.1	51.6
3	A	D	E	8127	43.9	52.6	48.2
4	A	D	F	7602	41.0	48.7	44.8
5	B	C	E	7151	38.4	45.6	42.0
6	B	C	F	6615	35.4	41.7	38.6
7	B	D	E	6153	32.8	38.8	35.8
8	B	D	F	5607	29.9	35.4	32.6