

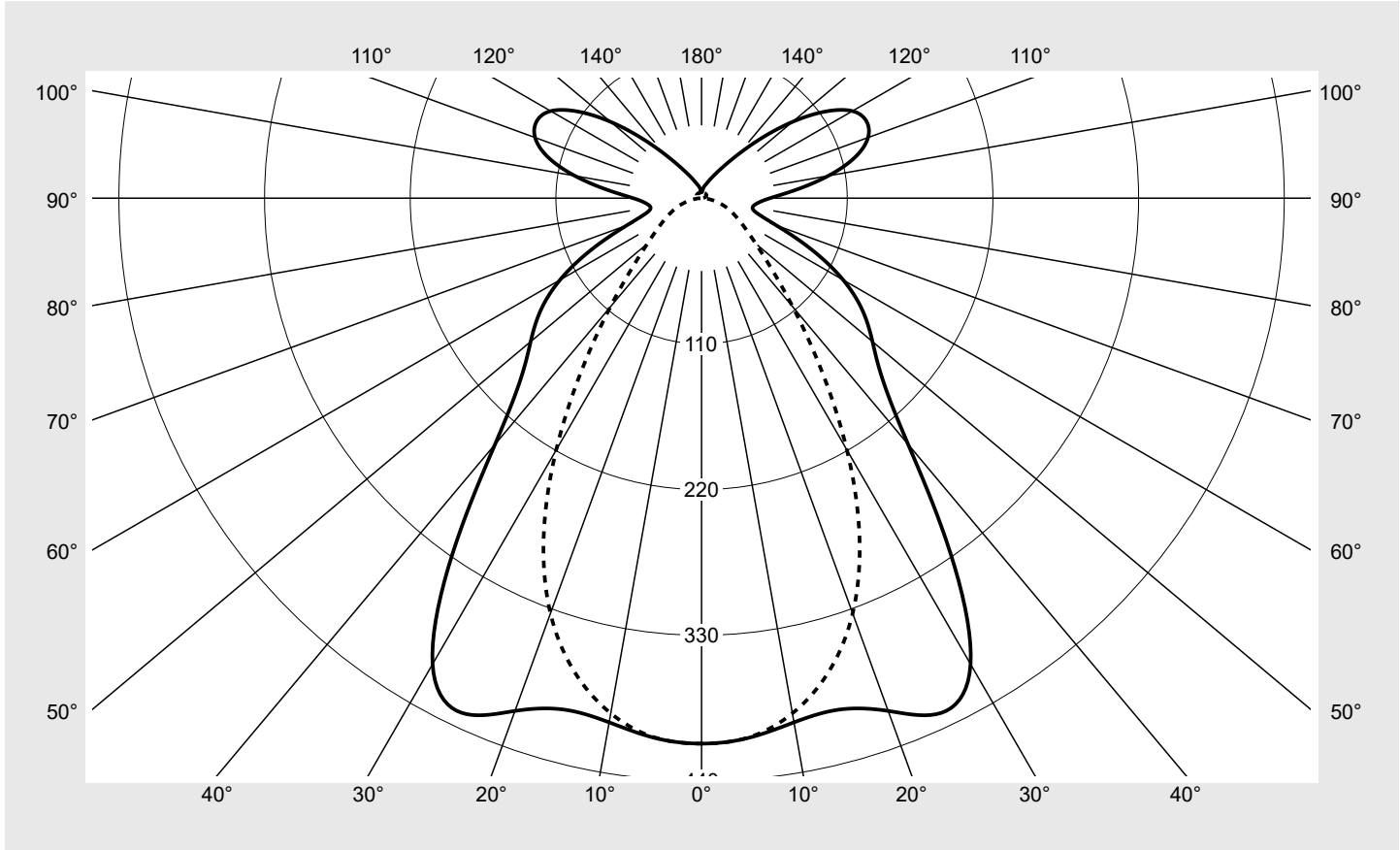


# Photometric test report

<b>Family</b> <b>Licross® 21 Performance</b>	<b>Order number: 52TD16MN4E5M</b> <b>EAN: 4058352903209</b>	<b>LP number</b> <b>58519_264</b>
	<b>Version</b> cover frosted, direct-/ indirect distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG Multilumen <b>Rated values</b> Net luminous flux = 14970 lm Power consumption = 83.2 W Luminous efficacy = 179.9 lm/W	<b>serial documentation</b> <b>24.08.2023</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	22.1	21.4	22.6	23.3	16.4	17.6	16.9	18.2	18.9
	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	17.8	18.8	19.5
	6H	22.2	23.1	22.9	23.8	24.6	17.3	18.3	18.0	18.9	19.7
	8H	22.5	23.3	23.2	23.9	24.8	17.3	18.2	18.0	18.9	19.7
	12H	22.8	23.5	23.5	24.2	25.1	17.3	18.2	18.0	18.9	19.7
4H	2H	20.8	21.9	21.4	22.5	23.2	17.0	18.0	17.7	18.7	19.4
	3H	21.7	22.6	22.4	23.3	24.0	17.7	18.5	18.4	19.2	20.0
	4H	22.1	22.9	22.8	23.6	24.4	18.0	18.8	18.7	19.5	20.3
	6H	22.6	23.3	23.3	24.0	24.8	18.3	19.0	19.0	19.7	20.5
	8H	23.0	23.5	23.7	24.3	25.2	18.4	19.0	19.1	19.7	20.6
	12H	23.5	24.0	24.2	24.7	25.6	18.4	19.0	19.1	19.7	20.6
8H	4H	22.1	22.7	22.8	23.4	24.3	18.3	18.9	19.0	19.6	20.5
	6H	22.7	23.2	23.5	24.0	24.9	18.7	19.2	19.5	20.0	20.9
	8H	23.2	23.6	24.0	24.4	25.3	18.9	19.4	19.7	20.1	21.1
	12H	23.9	24.3	24.7	25.1	26.0	19.1	19.4	19.8	20.2	21.2
12H	4H	22.0	22.6	22.8	23.3	24.2	18.3	18.8	19.1	19.6	20.5
	6H	22.7	23.1	23.5	23.9	24.8	18.9	19.3	19.7	20.1	21.0
	8H	23.2	23.6	24.0	24.4	25.3	19.1	19.5	19.9	20.3	21.2

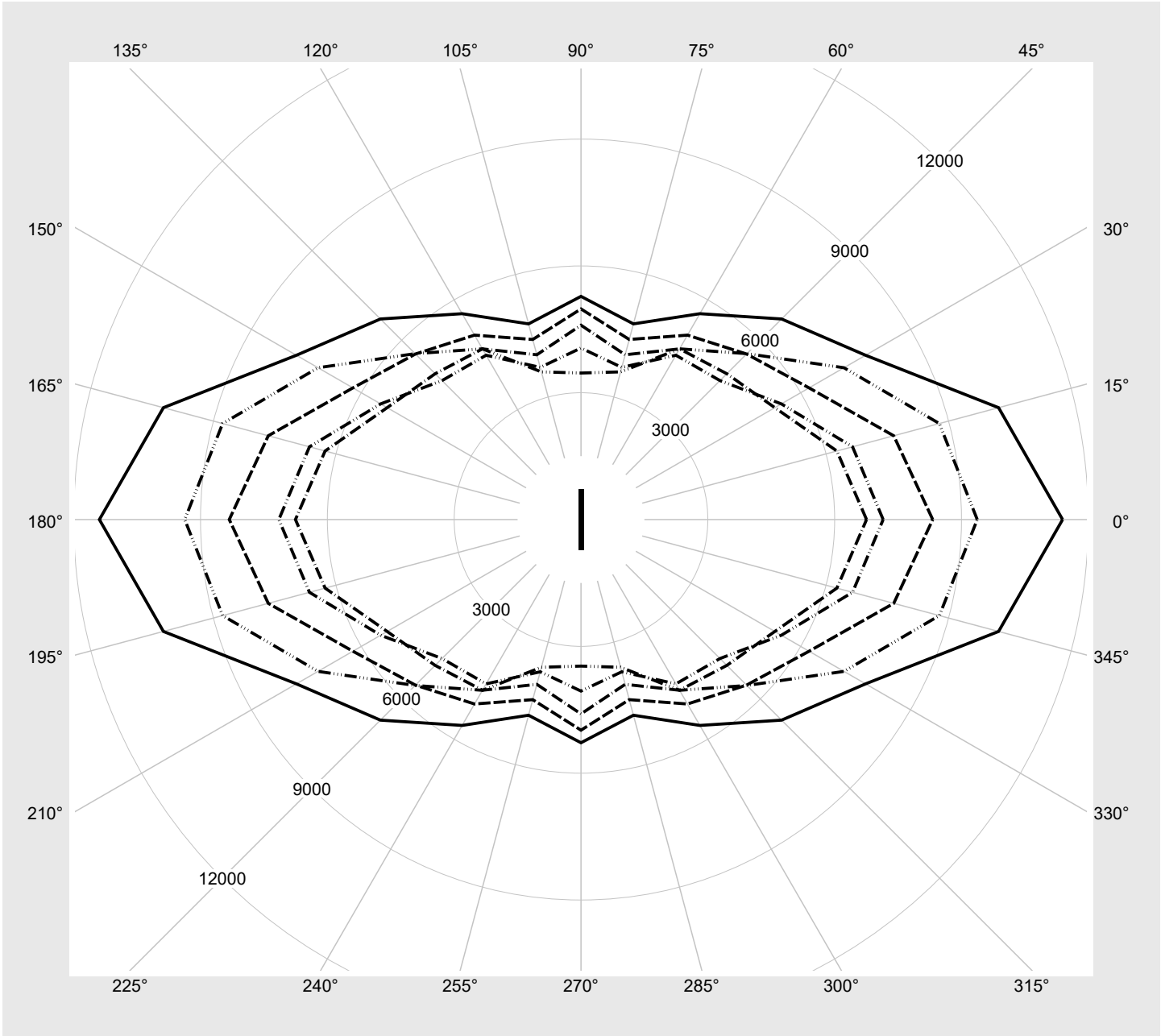
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1480</b>	<b>H(C0) = 36</b>	<b>H(C180) = 36</b>
			<b>B = 115</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

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°		18306.1	18275.4	20172.5	20595.3	12752.8	9374.8	9170.2	
50°		16790.6	15809.4	15154.6	15783.3	9898.1	7317.9	7310.5	
55°		15750.0	14250.3	11851.3	11635.2	7879.0	6085.0	6270.9	
60°		14083.4	12534.7	9580.8	8635.8	6494.0	5302.9	5661.5	
65°		11392.3	10226.5	7773.5	6710.5	5623.5	4792.6	5279.8	
70°		8320.3	7658.9	6229.9	5538.7	5037.9	4410.6	4982.6	
75°		6754.8	6266.5	5294.5	4878.9	4662.6	4035.9	4597.6	
80°		7147.8	6650.1	5472.7	4649.3	4488.8	3727.6	4057.7	
85°		9373.3	8776.5	7182.9	5550.3	4663.7	3616.8	3466.5	

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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]
	1	2	3		
1	A	C	E	14970	83.2
2	A	C	F	14057	78.5
3	A	D	E	13059	72.4
4	A	D	F	12062	66.3
5	B	C	E	11044	60.3
6	B	C	F	10004	54.3
7	B	D	E	9028	48.8
8	B	D	F	8052	43.3