



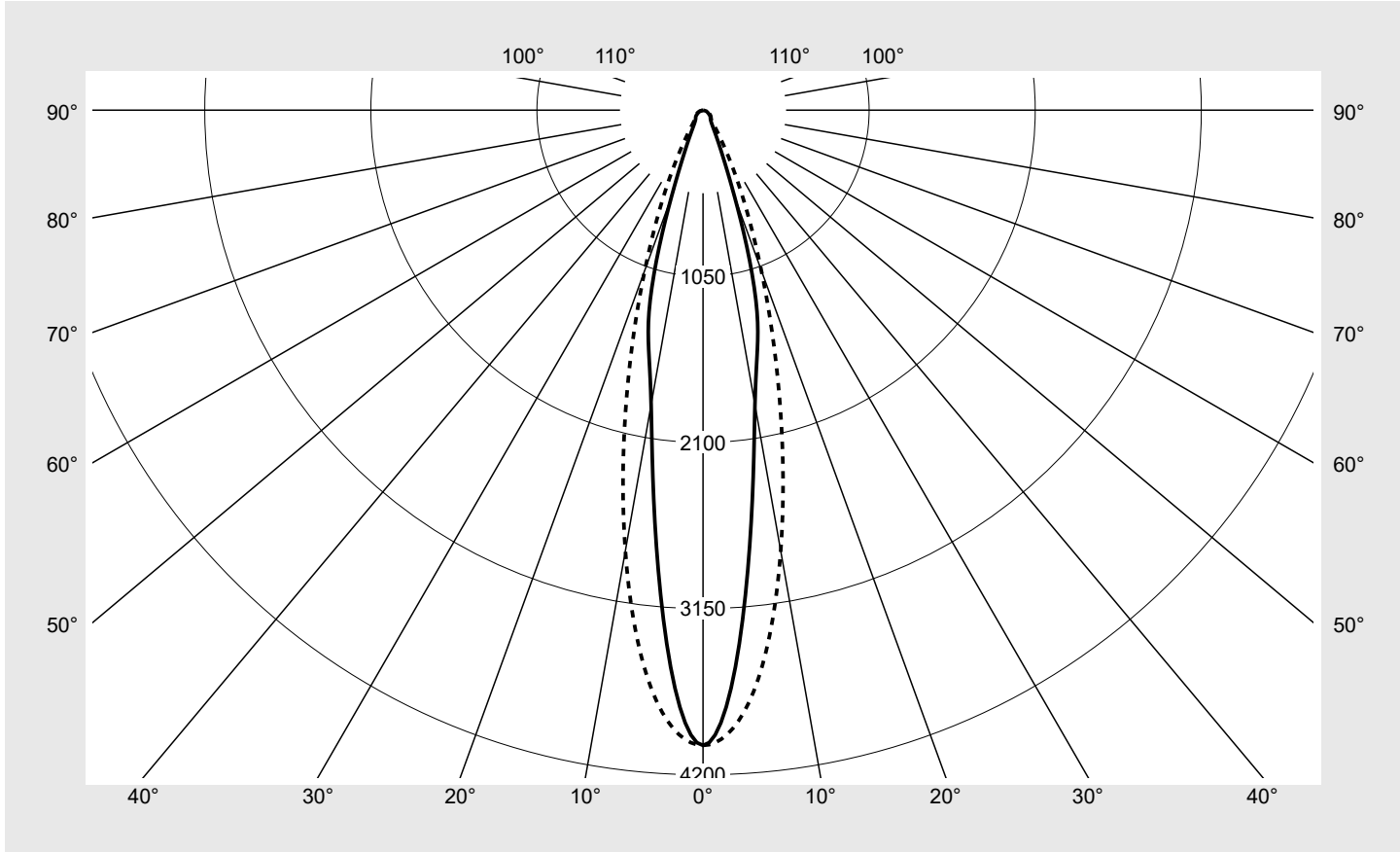
# Photometric test report

<b>Family</b> <b>Licross® 21 Protected</b>	<b>Order number: 52TD13MN4FXS</b> <b>EAN: 4058352902943</b>	<b>LP number</b> <b>58527_73</b>
	<b>Version</b> prismatic cover, frosted, extremely narrow distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG Multilumen <b>Rated values</b> Net luminous flux = 15060 lm Power consumption = 83.2 W Luminous efficacy = 181 lm/W	<b>serial documentation</b> <b>24.08.2023</b>





**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 4014 cd/klm**



Classifications	
DIN 5040	A 8 1
CIE	N1=89 N2=96 N3=99 N4=100 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	99.7%
$\phi_o$	0.3%

**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 γ	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°	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	24.0	24.0
5°	3075.0	3073.4	3140.6	3286.7	3470.0	3619.0	3684.9	159.0	183.0
10°	1889.9	1876.2	1856.5	1927.7	2182.7	2591.5	2828.1	203.0	386.0
15°	1318.5	1331.1	1324.1	1227.2	1167.4	1498.4	1861.2	192.4	578.4
20°	585.4	606.8	689.8	798.0	693.5	737.0	1075.9	136.1	714.5
25°	239.7	246.3	276.4	361.8	426.5	351.4	567.8	79.8	794.2
30°	128.7	127.4	129.3	152.0	214.6	178.7	273.1	45.8	840.1
35°	88.6	83.8	76.3	80.1	101.4	103.4	134.8	29.2	869.2
40°	73.1	66.6	55.1	52.3	60.4	70.8	85.4	22.6	891.8
45°	65.6	58.2	44.9	39.5	42.7	55.1	71.6	20.0	911.8
50°	58.1	50.6	38.4	32.4	32.8	44.4	65.0	18.2	930.0
55°	47.1	41.7	33.1	27.2	26.3	35.1	57.2	16.1	946.1
60°	37.8	33.0	27.8	22.9	21.3	27.1	47.5	13.8	959.9
65°	30.0	25.5	22.6	19.4	17.3	20.3	35.6	11.4	971.3
70°	23.9	19.8	17.3	16.1	13.9	14.7	23.4	9.1	980.4
75°	19.2	15.7	12.9	12.9	10.8	10.0	13.4	6.9	987.3
80°	14.6	12.1	9.7	9.6	7.9	6.2	6.6	5.0	992.4
85°	10.5	9.0	7.3	6.7	5.6	3.2	2.3	3.5	995.8
90°	7.5	6.5	5.5	4.5	3.7	1.4	0.2	2.3	998.2
95°	6.1	5.4	4.5	3.6	2.8	0.8	0.2	1.8	1000.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
175°	0.0	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	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	14.9	16.0	15.3	16.3	16.6	15.5	16.5	15.8	16.9	17.2
	3H	16.5	17.3	16.9	17.6	18.0	17.0	17.7	17.4	18.0	18.4
	4H	16.9	17.8	17.3	18.2	18.6	17.1	18.0	17.5	18.4	18.8
	6H	17.4	18.4	17.8	18.7	19.1	17.2	18.2	17.6	18.5	18.9
	8H	18.0	18.7	18.4	19.0	19.4	17.3	18.2	17.8	18.6	19.0
	12H	18.0	18.8	18.4	19.2	19.6	17.3	18.2	17.8	18.6	19.0
4H	2H	15.2	16.0	15.6	16.4	16.8	15.6	16.5	16.0	16.9	17.2
	3H	16.6	17.4	17.1	17.8	18.2	16.9	17.7	17.4	18.1	18.5
	4H	17.4	18.1	17.9	18.5	19.0	17.4	18.1	17.9	18.5	19.0
	6H	18.0	18.8	18.4	19.2	19.7	17.5	18.3	18.0	18.8	19.2
	8H	18.6	19.1	19.1	19.6	20.1	17.9	18.4	18.4	18.9	19.3
	12H	18.8	19.4	19.2	19.9	20.4	17.7	18.4	18.2	18.8	19.3
8H	4H	17.6	18.1	18.1	18.5	19.0	17.6	18.1	18.1	18.6	19.0
	6H	18.8	18.9	19.3	19.4	20.0	18.1	18.5	18.6	19.0	19.5
	8H	19.0	19.3	19.5	19.8	20.3	18.2	18.6	18.7	19.1	19.6
	12H	19.2	19.7	19.7	20.2	20.7	18.0	18.6	18.5	19.1	19.6
12H	4H	17.3	18.0	17.8	18.4	18.9	17.4	18.0	17.9	18.5	19.0
	6H	18.3	18.8	18.8	19.3	19.8	17.8	18.4	18.3	18.9	19.4
	8H	18.7	19.3	19.3	19.8	20.3	18.0	18.6	18.6	19.1	19.6

<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) = 13</b>	<b>H(C180) = 13</b>
			<b>B = 78</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

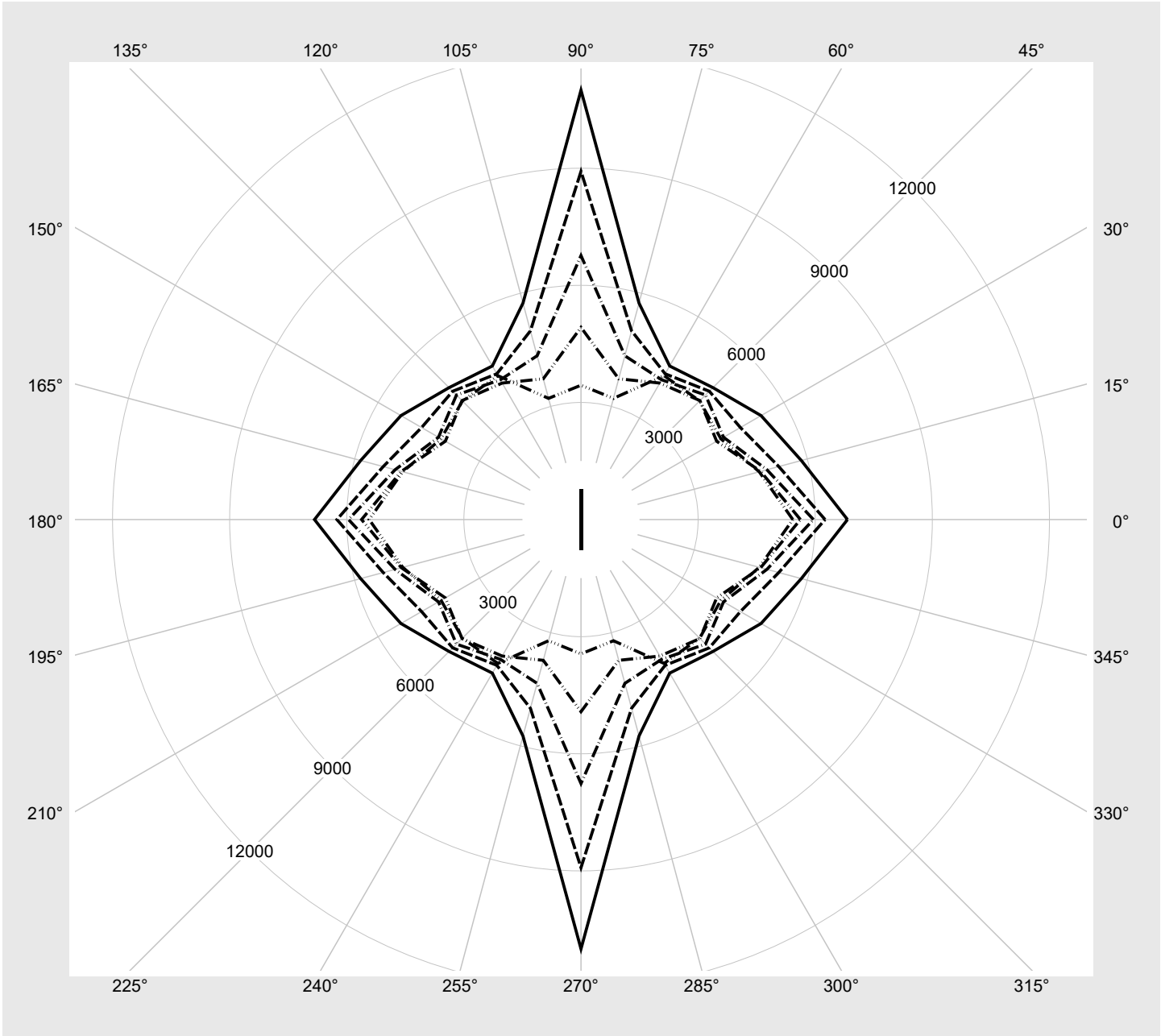
C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		10381.6	9242.9	7242.7	6518.9	7279.6	9753.6	13212.9	
50°		9829.2	8610.3	6646.7	5764.5	6049.8	8573.5	13191.3	
55°		8661.9	7706.3	6242.7	5289.6	5342.8	7517.7	13002.8	
60°		7655.5	6724.9	5806.9	4961.4	4862.0	6572.2	12382.2	
65°		6826.8	5843.8	5326.2	4779.4	4542.4	5741.1	10999.2	
70°		6252.4	5245.0	4714.9	4648.5	4311.4	5005.8	8917.9	
75°		5955.0	4930.6	4216.0	4511.8	4133.9	4343.3	6762.8	
80°		5621.4	4764.5	4013.0	4309.4	4038.0	3733.3	4922.3	
85°		5426.2	4727.5	4138.4	4297.8	4256.3	3214.1	3441.2	

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

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



## Photometric test report

Family  
Licross® 21 Protected

Order number: 52TD13MN4FXS  
EAN: 4058352902943

LP number  
58527\_73

### Multilumen Table

environmental temperature: 25°C

siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	15060	83.2
2	A	C	F	14146	78.5
3	A	D	E	13138	72.4
4	A	D	F	12130	66.3
5	B	C	E	11111	60.3
6	B	C	F	10061	54.3
7	B	D	E	9084	48.8
8	B	D	F	8097	43.3