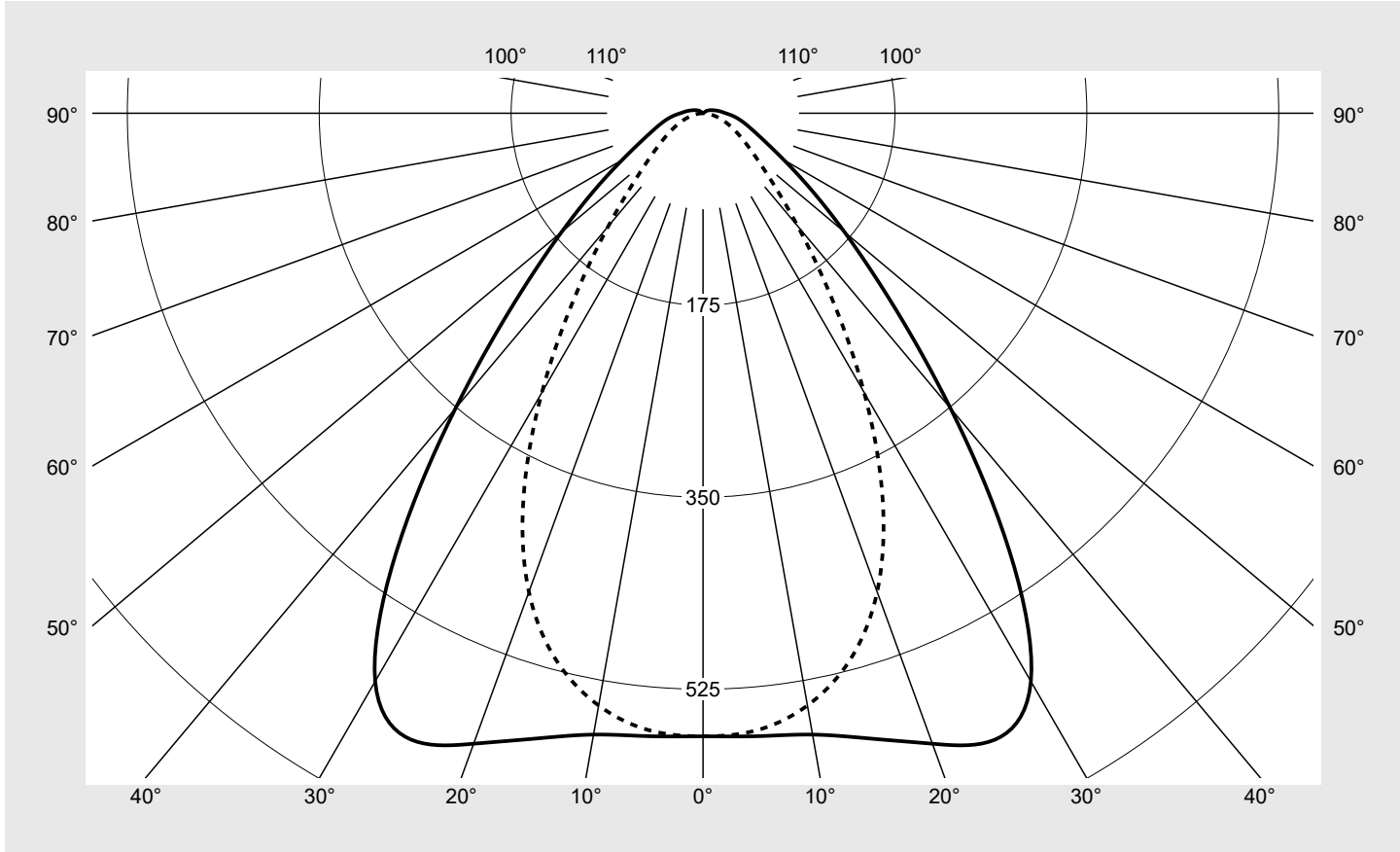


# Photometric test report

<b>Family</b> Licross® 21 Protected	<b>Order number: 52TP12MN4E5M</b> <b>EAN: 4058352904060</b>	<b>LP number</b> 58523_200
<b>Version</b>	prismatic cover, frosted, wide distribution	<b>serial documentation</b> 24.08.2023
<b>Lamps</b>	LED 4000 K   CRI ≥ 80	
<b>Controlgear</b>	ECG Multilumen	
<b>Rated values</b>	Net luminous flux = 14780 lm Power consumption = 83.2 W Luminous efficacy = 177.7 lm/W	



**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 630 cd/klm**



Classifications	
DIN 5040	A 5 1
CIE	N1=70 N2=91 N3=97 N4=98 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	98.3%
$\phi_o$	1.7%

Measurement conditions
DIN EN 13032 and DIN 5032

## Photometric test report

<b>Family</b> <b>Licross® 21 Protected</b>	<b>Order number: 52TP12MN4E5M</b> <b>EAN: 4058352904060</b>	<b>LP number</b> <b>58523_200</b>
<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

C-planes $\gamma$	0°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
	Luminous intensity in cd/klm							Luminous flux in lm/klm	
0°	568.0	568.0	568.0	568.0	568.0	568.0	568.0	3.4	3.4
5°	570.0	568.0	563.9	564.4	565.6	564.2	564.6	27.0	30.4
10°	575.1	572.9	563.4	557.9	553.3	549.0	548.2	53.3	83.7
15°	590.1	586.0	566.8	548.5	532.2	519.9	516.5	78.2	161.9
20°	611.6	603.6	568.7	531.0	496.5	471.9	464.3	100.3	262.2
25°	630.0	617.6	564.2	499.9	441.6	401.0	387.5	117.1	379.3
30°	598.0	589.4	536.5	452.4	368.0	311.9	293.8	123.5	502.8
35°	487.1	490.1	463.2	383.1	284.6	222.1	203.0	114.7	617.4
40°	351.1	360.8	359.1	297.2	205.7	150.3	134.3	94.9	712.3
45°	241.7	250.7	257.1	211.9	140.4	100.6	89.9	72.8	785.1
50°	168.3	174.0	178.9	144.5	94.4	69.8	63.7	54.4	839.5
55°	118.9	121.8	123.3	97.4	64.6	50.4	47.5	40.5	880.0
60°	85.1	85.8	84.4	66.1	45.7	37.4	36.1	30.1	910.0
65°	63.8	62.6	58.2	45.7	33.4	28.1	27.2	22.6	932.7
70°	50.4	47.7	40.8	32.1	24.8	20.7	19.9	17.3	949.9
75°	41.3	37.6	29.5	22.7	17.9	14.5	13.5	13.2	963.2
80°	34.0	30.0	21.9	15.9	12.4	9.4	8.0	10.0	973.1
85°	27.2	23.7	16.4	11.2	8.0	5.3	3.6	7.3	980.4
90°	20.7	17.9	12.0	7.4	4.6	2.2	0.4	5.0	985.4
95°	16.6	14.7	10.2	6.3	3.6	1.3	0.3	4.0	989.4
100°	13.2	11.9	8.5	5.2	2.7	0.8	0.3	3.2	992.6
105°	10.4	9.5	6.9	4.1	1.9	0.4	0.3	2.5	995.1
110°	8.2	7.4	5.5	3.1	1.2	0.3	0.3	1.9	997.0
115°	6.5	5.8	4.2	2.2	0.7	0.4	0.4	1.4	998.4
120°	4.9	4.3	3.0	1.4	0.6	0.5	0.5	1.0	999.4
125°	3.5	3.0	2.0	0.9	0.6	0.5	0.5	0.7	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

## Photometric test report

<b>Family</b> Licross® 21 Protected	<b>Order number: 52TP12MN4E5M</b> <b>EAN: 4058352904060</b>	<b>LP number</b> 58523_200
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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	23.3	24.8	23.7	25.1	25.4	19.2	20.6	19.5	20.9	21.2
	3H	23.9	25.2	24.3	25.5	25.9	19.6	20.9	20.0	21.2	21.6
	4H	24.3	25.5	24.7	25.8	26.2	19.8	21.0	20.2	21.4	21.7
	6H	24.7	25.7	25.1	26.1	26.5	19.9	21.1	20.3	21.4	21.8
	8H	25.0	25.9	25.4	26.3	26.7	20.0	21.1	20.4	21.4	21.9
	12H	25.2	26.1	25.6	26.5	26.9	20.0	21.0	20.5	21.4	21.8
4H	2H	23.4	24.6	23.8	24.9	25.3	19.8	21.0	20.2	21.4	21.7
	3H	24.1	25.1	24.5	25.5	25.9	20.4	21.4	20.8	21.8	22.2
	4H	24.6	25.5	25.0	25.9	26.3	20.7	21.6	21.1	22.0	22.4
	6H	25.1	25.9	25.6	26.3	26.8	20.9	21.7	21.3	22.1	22.6
	8H	25.4	26.1	25.9	26.6	27.1	20.9	21.7	21.4	22.1	22.6
	12H	25.8	26.4	26.3	26.9	27.4	21.0	21.7	21.5	22.1	22.6
8H	4H	24.6	25.3	25.0	25.7	26.2	21.0	21.7	21.4	22.1	22.6
	6H	25.2	25.8	25.7	26.3	26.8	21.3	21.9	21.8	22.3	22.8
	8H	25.6	26.1	26.1	26.6	27.2	21.4	21.9	21.9	22.4	22.9
	12H	26.1	26.6	26.7	27.1	27.6	21.5	22.0	22.1	22.5	23.0
12H	4H	24.6	25.2	25.0	25.7	26.2	21.1	21.6	21.6	22.1	22.6
	6H	25.2	25.7	25.7	26.2	26.7	21.4	21.9	21.9	22.4	22.9
	8H	25.7	26.1	26.2	26.6	27.1	21.6	22.0	22.1	22.5	23.1

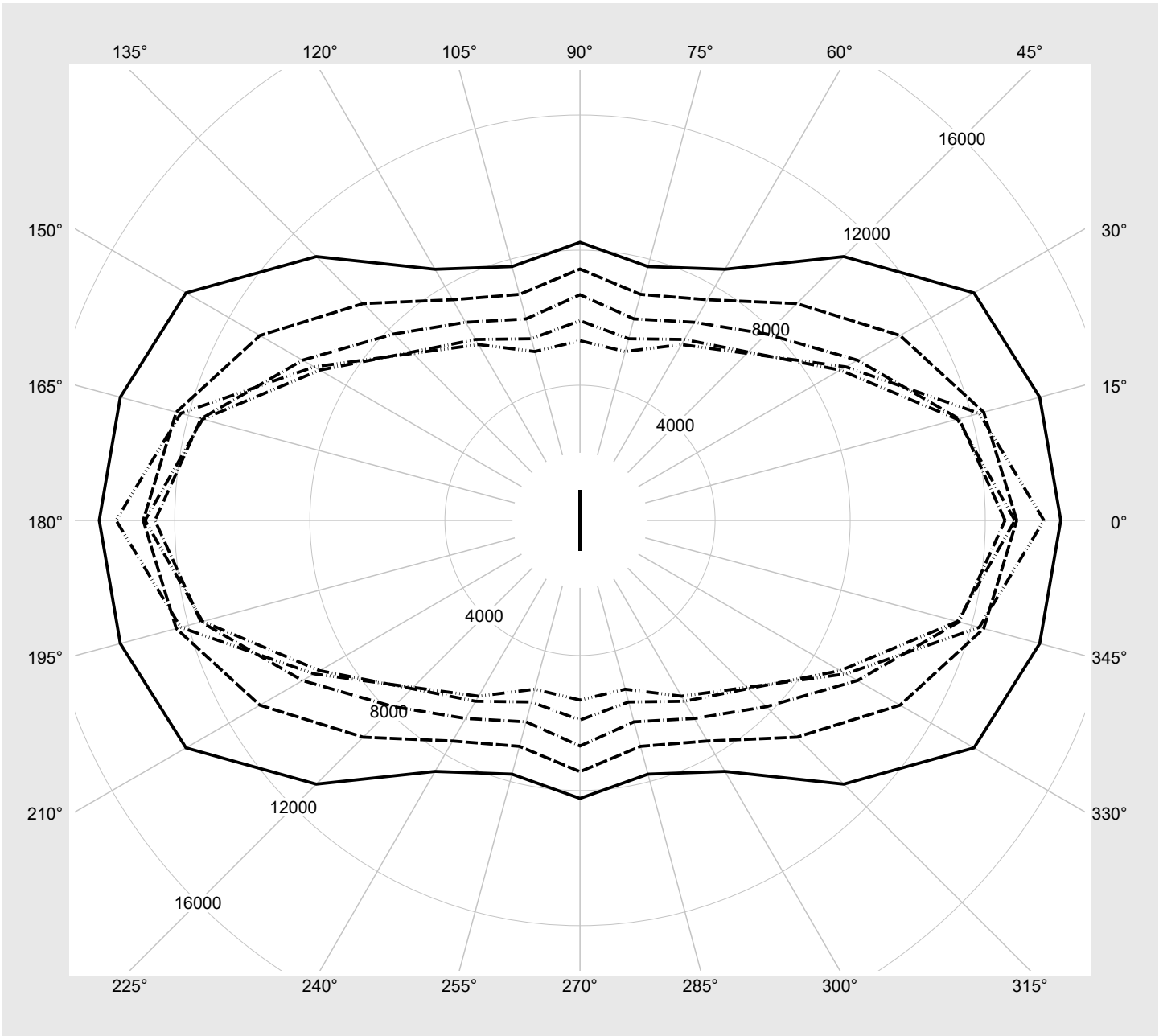
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1480</b>	<b>H(C0) = 13</b>	<b>H(C180) = 13</b>
			<b>B = 78</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

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°		37512.9	39092.1	40685.9	34316.6	23464.3	17462.7	16283.8	
50°		27969.2	29082.2	30412.0	25236.9	17101.1	13214.1	12691.3	
55°		21433.8	22113.4	22827.0	18606.0	12883.6	10591.2	10608.2	
60°		16908.2	17188.5	17284.7	14061.0	10223.0	8906.2	9234.2	
65°		14235.8	14092.0	13470.8	11044.2	8583.4	7778.7	8232.6	
70°		12933.5	12376.0	10944.2	9077.8	7543.1	6926.8	7440.0	
75°		12585.8	11619.3	9485.7	7802.4	6772.3	6174.4	6680.1	
80°		12878.1	11568.7	8898.0	7044.4	6183.9	5566.6	5911.7	
85°		13736.3	12239.4	9089.7	6992.5	6009.9	5175.3	5319.3	

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**Luminance values in cd/m<sup>2</sup>**     γ 65°   γ 70°   γ 75°   γ 80°   γ 85°     **siteco**



## Photometric test report

Family <b>Licross® 21 Protected</b>	Order number: <b>52TP12MN4E5M</b> EAN: <b>4058352904060</b>	LP number <b>58523_200</b>
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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	14780	83.2
2	A	C	F	13877	78.5
3	A	D	E	12901	72.4
4	A	D	F	11914	66.3
5	B	C	E	10907	60.3
6	B	C	F	9878	54.3
7	B	D	E	8912	48.8
8	B	D	F	7946	43.3