

## Lichttechnischer Prüfbefund

**Familie**  
Licross® 21 Protected

**Bestell-Nr.:** 52TP12MN4E5M  
**EAN:** 4058352904060

**LP-Nummer**  
58523\_200

**Ausführung** Prismenabdeckung, satiniert, breit strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-Multilumen  
**Bemessungswerte** Nettolichtstrom = 14780 lm  
Systemleistung = 83.2 W  
Lichtausbeute = 177.7 lm/W

**Seriendokumentation**  
24.08.2023

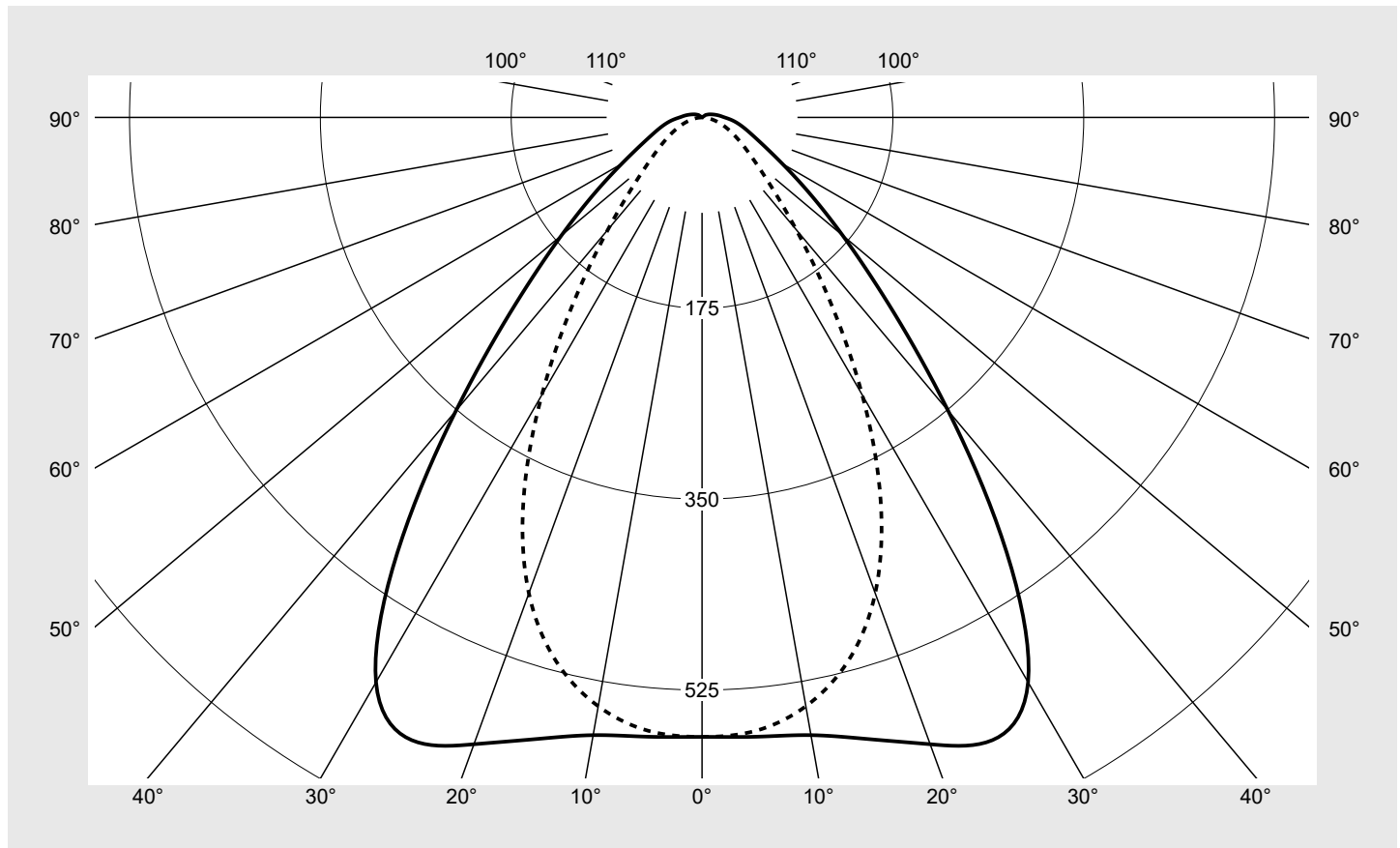
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 630 cd/klm



#### Klassifizierungen

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

#### Leuchtenbetriebswirkungsgrade

$\eta_{LB}$  100,0%  
 $\phi_u$  98,3%  
 $\phi_o$  1,7%

#### Messbedingungen

DIN EN 13032 und DIN 5032

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<b>Wertetabelle Lichtstärkemessung</b>		<b>Maximale Lichtstärke</b>
		<b>sITeco</b>

C- Ebenen	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-Zone	Summe Phi-Zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Lichtstärke in cd/klm								Lichtstrom in lm/klm	
γ									
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

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UGR-Tabelle		Standardraum									
Raumabmessungen		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (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

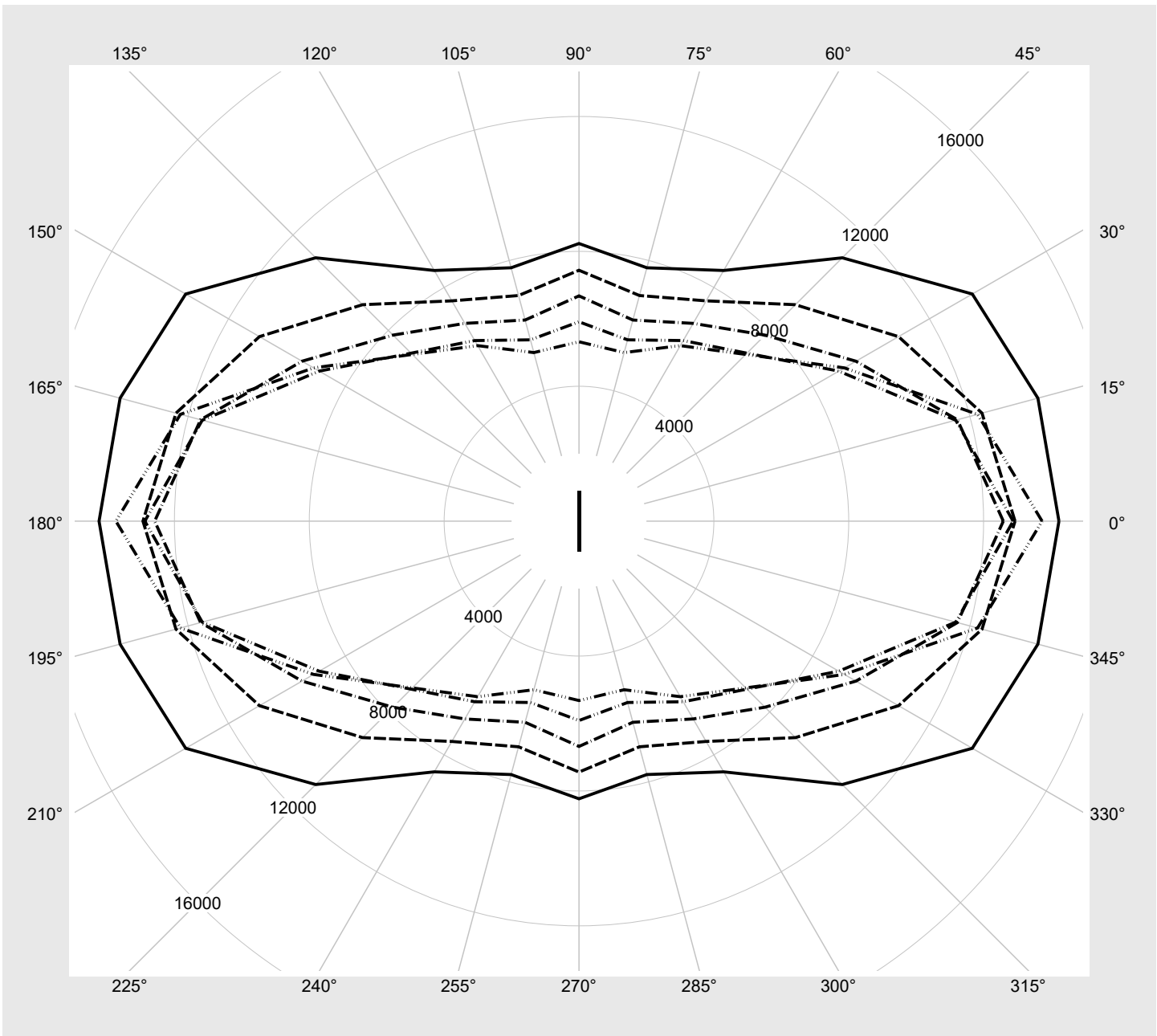
<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 1480 B = 78	H(C0) = 13	H(C180) = 13	H(C90) = 0	H(C270) = 0
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C-Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>						
		0° 180°	15° 165° 195° 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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**Leuchtdichten in cd/m²**      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**



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## Multilumen-Tabelle

Umgebungstemperatur: 25°C

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DIP-Stufe	Schalterstellung			Lichtstrom [lm]	Systemleistung [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