

## Lichttechnischer Prüfbefund

**Familie**  
**Licross® 11 Protected**



**Bestell-Nr.: 51TP13MN4GXS**  
**EAN: 4058352930366**

**LP-Nummer**  
**58527\_94**

**Ausführung** Prismenabdeckung, satiniert, extrem eng strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-Multilumen  
**Bemessungswerte** Nettolichtstrom = 16110 lm  
Systemleistung = 87.4 W  
Lichtausbeute = 184.3 lm/W

**Seriendokumentation**  
**11.10.2023**

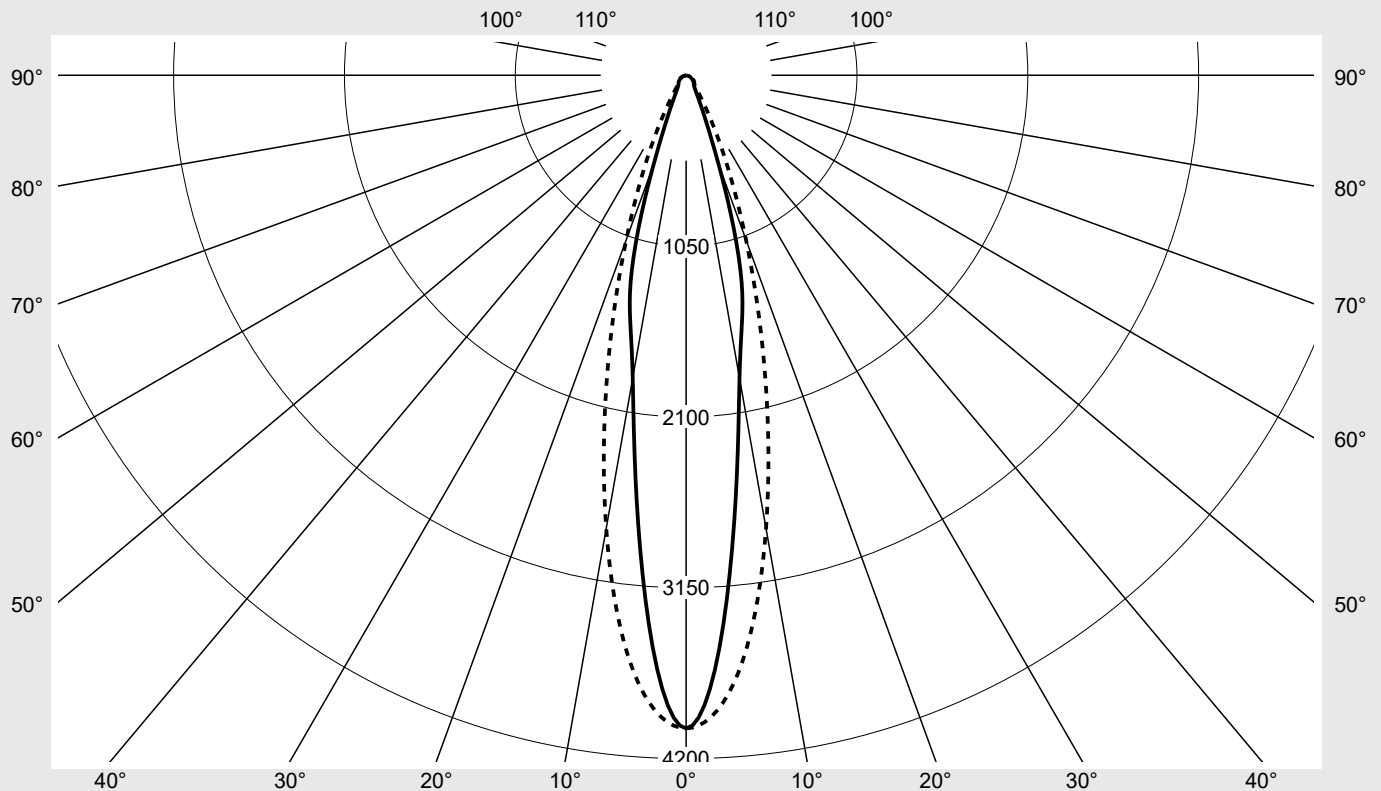
**sitEco**

**Lichtstärke in cd/klm**

**C180-0**

**C270-90**

**Imax: 4014 cd/klm**



**Klassifizierungen**

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

**Leuchtenbetriebswirkungsgrade**

$\eta_{LB}$  100,0%  
 $\phi_u$  99,7%  
 $\phi_o$  0,3%

**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°			
γ									
Lichtstärke in cd/klm									
Lichtstrom 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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UGR-Tabelle		Standardraum									
Raumabmessungen		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
x	y										
2H	2H	15,1	16,2	15,5	16,5	16,9	15,7	16,8	16,0	17,1	17,4
	3H	16,8	17,5	17,1	17,8	18,2	17,2	17,9	17,6	18,3	18,6
	4H	17,2	18,1	17,6	18,4	18,8	17,4	18,3	17,8	18,6	19,0
	6H	17,6	18,6	18,0	19,0	19,4	17,4	18,4	17,8	18,8	19,2
	8H	18,2	18,9	18,7	19,3	19,7	17,6	18,4	18,0	18,8	19,2
	12H	18,2	19,1	18,7	19,5	19,9	17,6	18,4	18,0	18,8	19,2
4H	2H	15,4	16,3	15,8	16,6	17,0	15,8	16,7	16,2	17,1	17,5
	3H	16,9	17,6	17,3	18,0	18,4	17,2	17,9	17,6	18,3	18,7
	4H	17,7	18,3	18,1	18,7	19,2	17,7	18,3	18,1	18,8	19,2
	6H	18,2	19,0	18,7	19,4	19,9	17,8	18,6	18,2	19,0	19,4
	8H	18,9	19,4	19,3	19,8	20,3	18,2	18,6	18,6	19,1	19,6
	12H	19,0	19,6	19,5	20,1	20,6	17,9	18,6	18,4	19,0	19,5
8H	4H	17,8	18,3	18,3	18,8	19,3	17,8	18,3	18,3	18,8	19,3
	6H	19,1	19,2	19,6	19,7	20,2	18,3	18,7	18,8	19,2	19,7
	8H	19,2	19,6	19,7	20,0	20,6	18,5	18,8	19,0	19,3	19,8
	12H	19,4	19,9	19,9	20,4	21,0	18,3	18,8	18,8	19,3	19,9
12H	4H	17,6	18,2	18,1	18,7	19,2	17,6	18,3	18,1	18,7	19,2
	6H	18,5	19,1	19,0	19,6	20,1	18,1	18,7	18,6	19,1	19,7
	8H	19,0	19,5	19,5	20,0	20,6	18,3	18,8	18,8	19,3	19,9

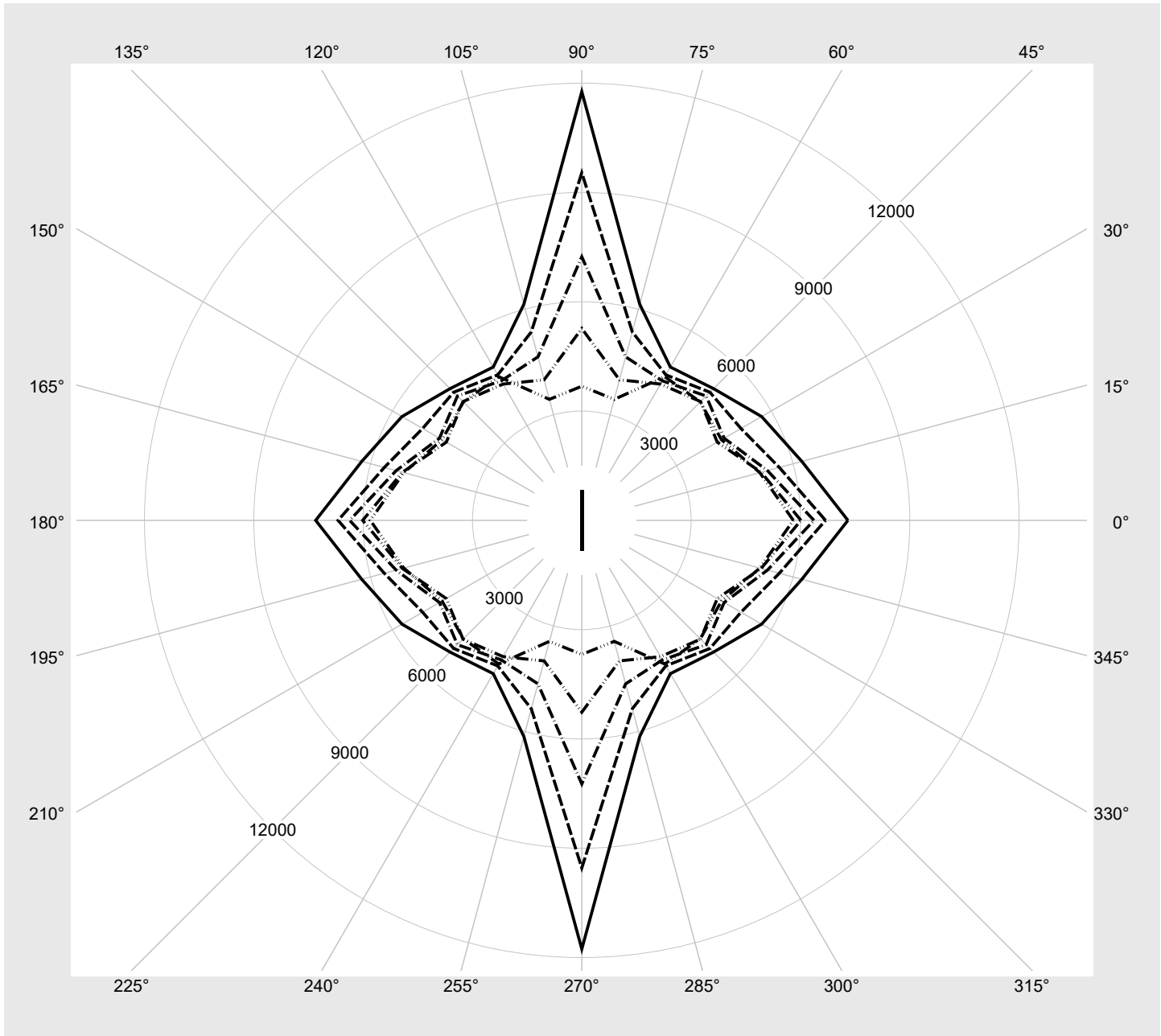
<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 1480, B = 78	H(C0) = 13, H(C90) = 0	H(C180) = 13, H(C270) = 0
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C-Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		11105.4	9887.4	7747.6	6973.4	7787.1	10433.6	14134.2
50°		10514.5	9210.6	7110.1	6166.4	6471.6	9171.3	14111.0
55°		9265.8	8243.6	6678.0	5658.4	5715.3	8041.8	13909.4
60°		8189.2	7193.7	6211.8	5307.3	5201.0	7030.4	13245.5
65°		7302.8	6251.3	5697.5	5112.6	4859.1	6141.4	11766.1
70°		6688.3	5610.7	5043.6	4972.6	4611.9	5354.8	9539.6
75°		6370.2	5274.3	4510.0	4826.3	4422.1	4646.1	7234.3
80°		6013.3	5096.7	4292.7	4609.9	4319.5	3993.6	5265.5
85°		5804.5	5057.1	4426.9	4597.5	4553.0	3438.2	3681.1

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



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## Multilumen-Tabelle

Umgebungstemperatur: 25°C

SITECO

DIP-Stufe	Schalterstellung			Lichtstrom [lm]	Systemleistung [W]
	1	2	3		
1	A	C	E	16110	87.4
2	A	C	F	15311	82.6
3	A	D	E	14279	76.2
4	A	D	F	13235	70.1
5	B	C	E	12256	64.3
6	B	C	F	11180	58.3
7	B	D	E	10169	52.6
8	B	D	F	9157	47.0