

## Lichttechnischer Prüfbefund

**Familie**  
**Licross® Protected**

**Bestell-Nr.: 51TP11CN4DXR**  
**EAN: 4058352265055**

**LP-Nummer**  
**58525\_7**



**Ausführung** Prismenabdeckung, satiniert, eng strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-Multilumen CLOi

**Bemessungswerte**  
Nettolichtstrom = 13240 lm  
Systemleistung = 76.4 W  
Lichtausbeute = 173.3 lm/W

**Seriendokumentation**  
12.12.2019

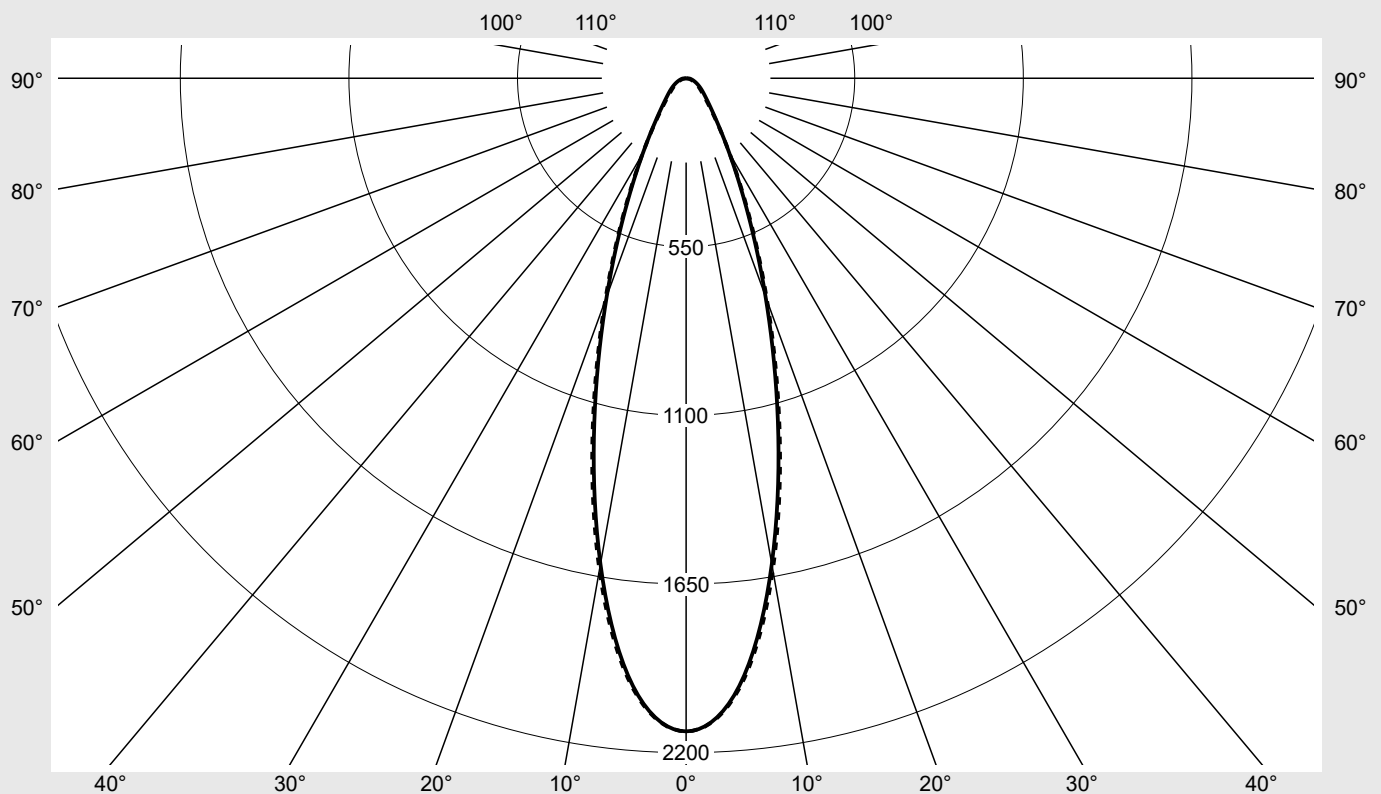
**siteco**

**Lichtstärke in cd/klm**

**C180-0**

**C270-90**

**Imax: 2130 cd/klm**



**Klassifizierungen**

DIN 5040 A 7 1  
CIE N1=84 N2=94 N3=98  
N4=99 N5=100

**Leuchtenbetriebswirkungsgrade**

$\eta_{LB}$  100,0%  
 $\phi_u$  99,1%  
 $\phi_o$  0,9%

**Messbedingungen**

DIN EN 13032 und DIN 5032

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<b>Wertetabelle Lichtstärkemessung</b>	<b>Maximale Lichtstärke</b>	<b>sITeco</b>
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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°	2130.5	2130.5	2130.5	2130.5	2130.5	2130.5	2130.5	12.7	12.7
5°	1990.0	1982.4	1972.8	1980.9	1991.5	1994.0	1997.3	94.9	107.6
10°	1609.4	1602.7	1594.9	1604.0	1616.7	1623.6	1628.9	153.3	260.9
15°	1156.5	1152.7	1146.1	1151.7	1161.7	1170.4	1176.7	164.3	425.2
20°	757.1	754.5	751.0	754.8	760.5	766.7	772.3	142.2	567.4
25°	464.1	463.3	461.4	464.7	468.5	471.4	475.4	108.1	675.5
30°	281.8	280.0	276.3	277.8	280.6	282.2	284.6	76.7	752.2
35°	178.8	175.8	169.5	168.1	169.9	172.0	174.0	54.1	806.3
40°	123.8	119.7	111.6	107.8	108.9	112.2	115.0	39.9	846.2
45°	92.5	87.9	79.0	74.1	74.5	78.8	82.8	31.1	877.3
50°	72.9	68.3	60.1	54.9	54.7	59.1	63.7	25.6	902.9
55°	58.5	54.5	47.8	42.9	42.0	45.8	50.2	21.5	924.4
60°	46.6	43.5	38.6	34.6	32.9	35.6	39.1	18.0	942.5
65°	36.7	34.5	31.1	28.0	26.1	27.3	29.5	14.9	957.4
70°	28.5	27.0	24.6	22.5	20.4	20.1	21.2	12.0	969.4
75°	21.8	20.7	19.0	17.5	15.4	14.0	14.0	9.2	978.6
80°	16.2	15.4	14.3	12.9	10.9	8.9	8.1	6.7	985.3
85°	11.7	11.2	10.3	9.1	7.1	4.7	3.5	4.6	989.8
90°	8.1	7.7	6.9	5.8	3.9	1.7	0.3	2.8	992.6
95°	6.9	6.6	5.8	4.7	3.0	1.1	0.2	2.3	994.8
100°	6.0	5.6	4.9	3.8	2.2	0.6	0.2	1.8	996.7
105°	5.1	4.8	4.0	2.9	1.5	0.3	0.2	1.4	998.1
110°	4.3	4.0	3.2	2.2	0.9	0.2	0.2	1.1	999.2
115°	3.6	3.2	2.5	1.6	0.5	0.3	0.3	0.8	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	17,0	18,2	17,4	18,6	18,9	16,7	17,9	17,0	18,2	18,5
	3H	18,1	19,2	18,5	19,5	19,9	17,6	18,7	18,0	19,0	19,3
	4H	18,6	19,6	19,0	20,0	20,3	18,0	19,0	18,4	19,3	19,7
	6H	19,1	20,0	19,5	20,3	20,7	18,3	19,1	18,7	19,5	19,9
	8H	19,4	20,1	19,8	20,5	20,9	18,4	19,2	18,9	19,6	20,0
	12H	19,6	20,3	20,0	20,7	21,1	18,5	19,2	18,9	19,6	20,0
4H	2H	17,3	18,3	17,7	18,6	19,0	17,0	18,0	17,4	18,3	18,7
	3H	18,6	19,4	19,0	19,8	20,2	18,1	18,9	18,5	19,3	19,7
	4H	19,2	19,9	19,6	20,4	20,8	18,5	19,3	19,0	19,7	20,1
	6H	19,8	20,4	20,3	20,9	21,4	18,9	19,6	19,4	20,0	20,5
	8H	20,1	20,7	20,6	21,1	21,6	19,1	19,6	19,6	20,1	20,6
	12H	20,4	20,9	20,9	21,3	21,8	19,2	19,7	19,7	20,1	20,6
8H	4H	19,4	19,9	19,9	20,4	20,9	18,8	19,3	19,3	19,8	20,3
	6H	20,2	20,6	20,6	21,1	21,6	19,3	19,8	19,8	20,2	20,7
	8H	20,5	20,9	21,0	21,4	21,9	19,5	19,9	20,0	20,4	20,9
	12H	20,9	21,3	21,5	21,8	22,3	19,7	20,0	20,2	20,5	21,0
12H	4H	19,4	19,9	19,9	20,3	20,8	18,8	19,3	19,3	19,8	20,3
	6H	20,2	20,6	20,7	21,1	21,6	19,4	19,8	19,9	20,3	20,8
	8H	20,6	21,0	21,2	21,5	22,0	19,7	20,0	20,2	20,5	21,0

<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°		12864.1	12274.0	11200.0	10753.7	11158.2	12255.8	13422.1	
50°		10853.0	10227.2	9155.6	8595.0	8871.0	10035.0	11358.2	
55°		9454.6	8866.3	7923.3	7345.3	7500.1	8633.1	10039.7	
60°		8303.3	7809.9	7083.2	6582.5	6603.6	7603.5	8968.9	
65°		7338.9	6960.7	6452.9	6074.4	6014.3	6771.0	7996.9	
70°		6550.5	6270.7	5908.5	5691.2	5579.2	6038.4	7100.7	
75°		5942.9	5722.7	5468.2	5374.9	5207.7	5330.3	6209.6	
80°		5509.4	5330.8	5188.8	5111.3	4874.0	4699.0	5319.5	
85°		5314.0	5173.7	5112.7	5120.1	4761.0	4181.2	4595.3	

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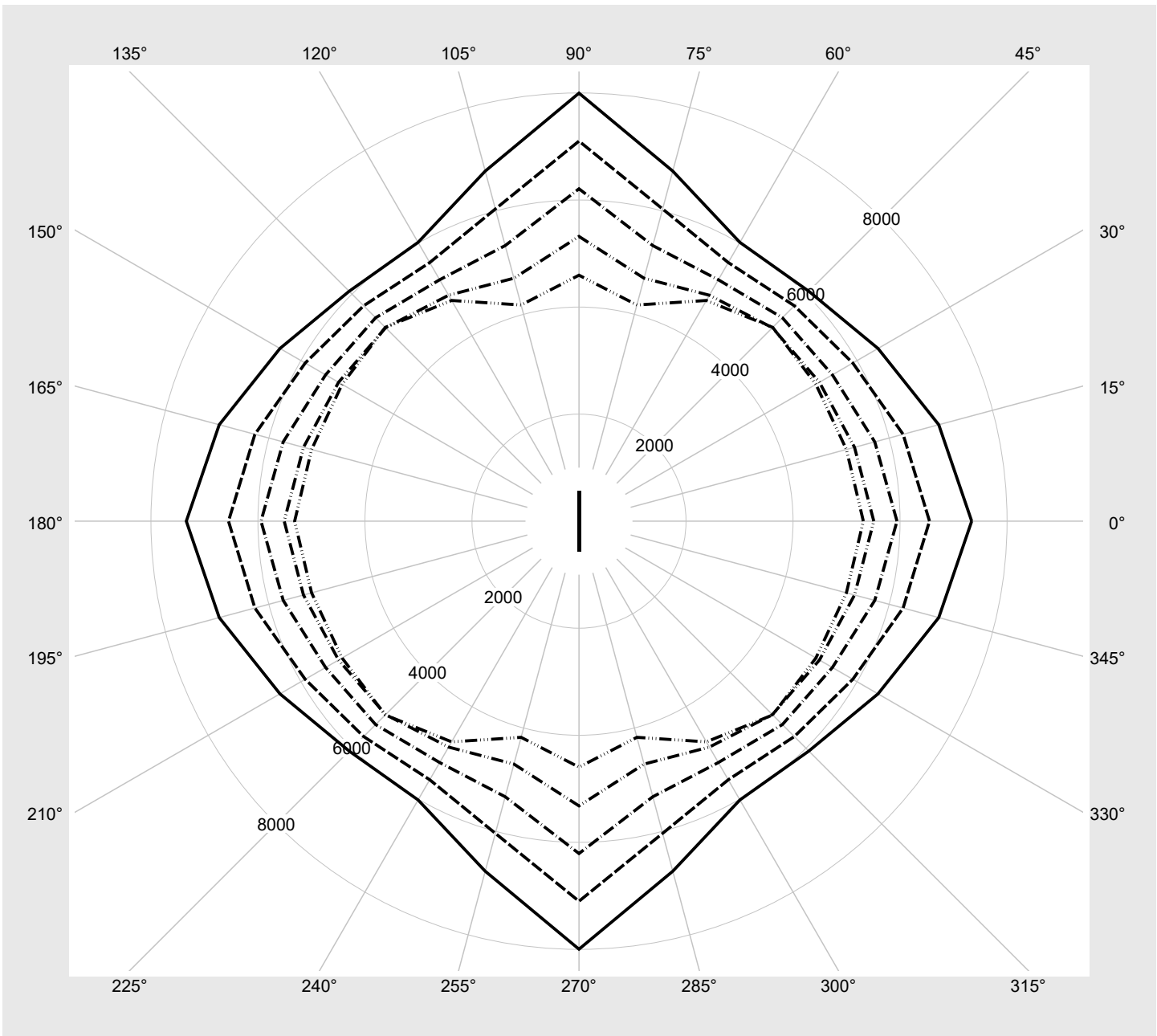
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**Leuchtdichten in cd/m<sup>2</sup>**

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



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<b>Multilumen-Tabelle</b>		<b>Umgebungstemperatur: 25°C</b>
<b>siteco</b>		

DIP-Stufe	Schalterstellung			Lichtstrom [lm]	Systemleistung [W]	Systemleistung [W] Lebensdauerende	Systemleistung [W] Durchschnitt
	1	2	3				
1	A	C	E	13240	76.4	85.6	81.0
2	A	C	F	12060	68.8	76.5	72.6
3	A	D	E	11060	62.6	69.3	66.0
4	A	D	F	10060	56.5	62.7	59.6
5	B	C	E	9030	50.4	55.7	53.0
6	B	C	F	8000	44.4	48.7	46.6
7	B	D	E	7030	38.8	42.7	40.8
8	B	D	F	6050	33.3	36.3	34.8