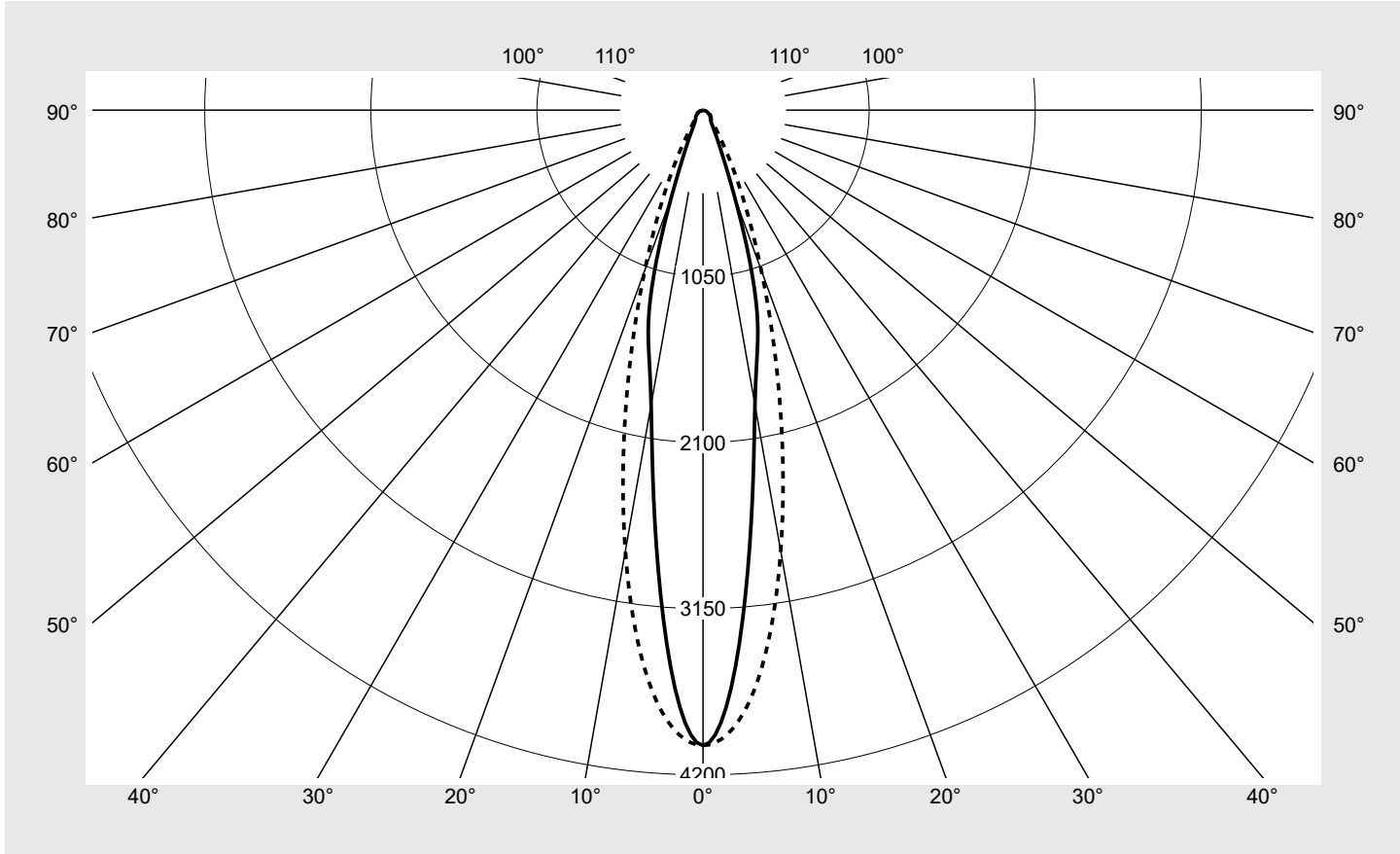


# Lichttechnischer Prüfbefund

<b>Familie</b> <b>Licross® 21 Protected</b>	<b>Bestell-Nr.: 52TP13CN4C5S</b> <b>EAN: 4058352904084</b>	<b>LP-Nummer</b> <b>58527_58</b>
<b>Ausführung</b>	Prismenabdeckung, satiniert, extrem eng strahlend	<b>Seriendokumentation</b> 17.08.2023
<b>Bestückung</b>	LED 4000 K   CRI ≥ 80	
<b>Betriebsgerät</b>	EVG-Multilumen CLOi	
<b>Bemessungswerte</b>	Nettolichtstrom = 12680 lm Systemleistung = 68.9 W Lichtausbeute = 184 lm/W	



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>
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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°	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	14,3	15,4	14,7	15,7	16,0	14,9	16,0	15,2	16,3	16,6
	3H	15,9	16,7	16,3	17,0	17,4	16,4	17,1	16,8	17,5	17,8
	4H	16,3	17,2	16,7	17,6	18,0	16,5	17,4	16,9	17,8	18,2
	6H	16,8	17,8	17,2	18,1	18,5	16,6	17,6	17,0	17,9	18,3
	8H	17,4	18,1	17,8	18,4	18,8	16,7	17,6	17,2	18,0	18,4
	12H	17,4	18,2	17,8	18,6	19,1	16,7	17,6	17,2	18,0	18,4
4H	2H	14,6	15,4	15,0	15,8	16,2	15,0	15,9	15,4	16,3	16,6
	3H	16,1	16,8	16,5	17,2	17,6	16,3	17,1	16,8	17,5	17,9
	4H	16,8	17,5	17,3	17,9	18,4	16,8	17,5	17,3	17,9	18,4
	6H	17,4	18,2	17,8	18,6	19,1	16,9	17,7	17,4	18,2	18,6
	8H	18,0	18,5	18,5	19,0	19,5	17,3	17,8	17,8	18,3	18,7
	12H	18,2	18,8	18,6	19,3	19,8	17,1	17,8	17,6	18,2	18,7
8H	4H	17,0	17,5	17,5	17,9	18,4	17,0	17,5	17,5	18,0	18,4
	6H	18,2	18,4	18,7	18,8	19,4	17,5	17,9	18,0	18,4	18,9
	8H	18,4	18,7	18,9	19,2	19,7	17,6	18,0	18,1	18,5	19,0
	12H	18,6	19,1	19,1	19,6	20,1	17,4	18,0	17,9	18,5	19,0
12H	4H	16,7	17,4	17,2	17,9	18,3	16,8	17,4	17,3	17,9	18,4
	6H	17,7	18,2	18,2	18,7	19,2	17,3	17,8	17,8	18,3	18,8
	8H	18,2	18,7	18,7	19,2	19,7	17,4	18,0	18,0	18,5	19,0

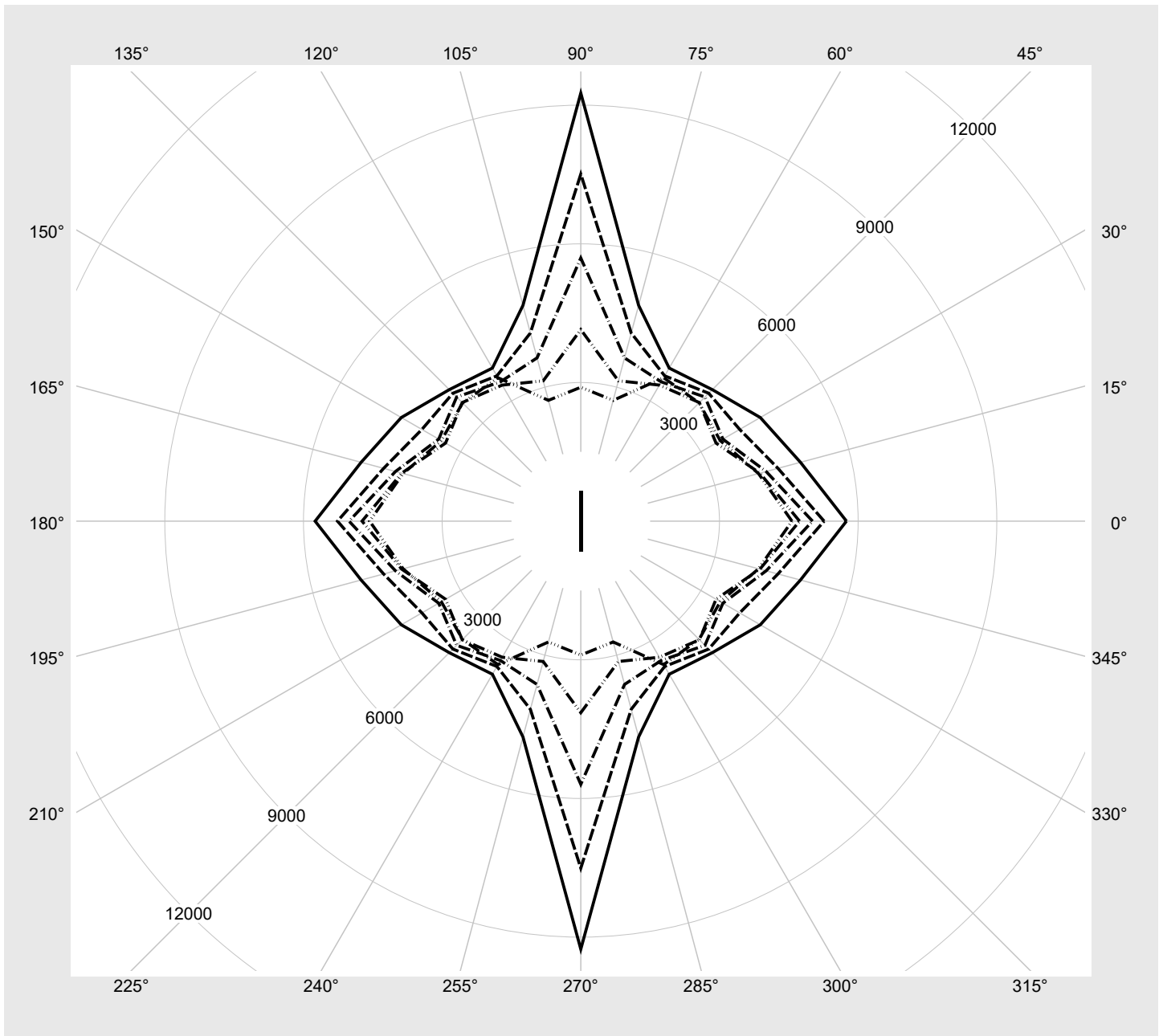
<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 1480 B = 78	H(C0) = 13	H(C90) = 0	H(C180) = 13	H(C270) = 0
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C-Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		8741.0	7782.2	6098.1	5488.7	6129.2	8212.2	11124.8
50°		8275.9	7249.6	5596.3	4853.5	5093.7	7218.6	11106.6
55°		7293.0	6488.5	5256.2	4453.7	4498.4	6329.6	10947.9
60°		6445.7	5662.1	4889.2	4177.3	4093.6	5533.6	10425.4
65°		5747.9	4920.3	4484.5	4024.1	3824.6	4833.8	9260.9
70°		5264.3	4416.1	3969.8	3913.9	3630.0	4214.7	7508.5
75°		5013.9	4151.4	3549.8	3798.8	3480.6	3656.9	5694.1
80°		4733.0	4011.5	3378.8	3628.4	3399.8	3143.3	4144.4
85°		4568.7	3980.4	3484.4	3618.6	3583.6	2706.2	2897.4

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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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<b>Multilumen-Tabelle</b>	Umgebungstemperatur: 25°C	<b>siteco</b>
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DIP-Stufe	Schalterstellung			Lichtstrom [lm]	Systemleistung [W]	Systemleistung [W] Lebensdauerende	Systemleistung [W] Durchschnitt
	1	2	3				
1	A	C	E	12680	68.9	83.2	76.1
2	A	C	F	12239	66.3	80.2	73.2
3	A	D	E	11210	60.3	72.4	66.4
4	A	D	F	10150	54.3	65.0	59.6
5	B	C	E	9164	48.8	58.1	53.4
6	B	C	F	8166	43.3	51.8	47.6
7	B	D	E	7159	37.9	45.0	41.4
8	B	D	F	6141	32.5	38.3	35.4