

## Lichttechnischer Prüfbefund

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



**Bestell-Nr.: 51TS12VN4CXLD**  
**EAN: 4058352493571**

**LP-Nummer**  
**58521\_38**

**Ausführung** Prismenabdeckung, satiniert, breit strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI CLO  
**Bemessungswerte** Nettolichtstrom = 12430 lm  
 Systemleistung = 79.4 W  
 Lichtausbeute = 156.5 lm/W

**Seriendokumentation**  
**15.03.2021**

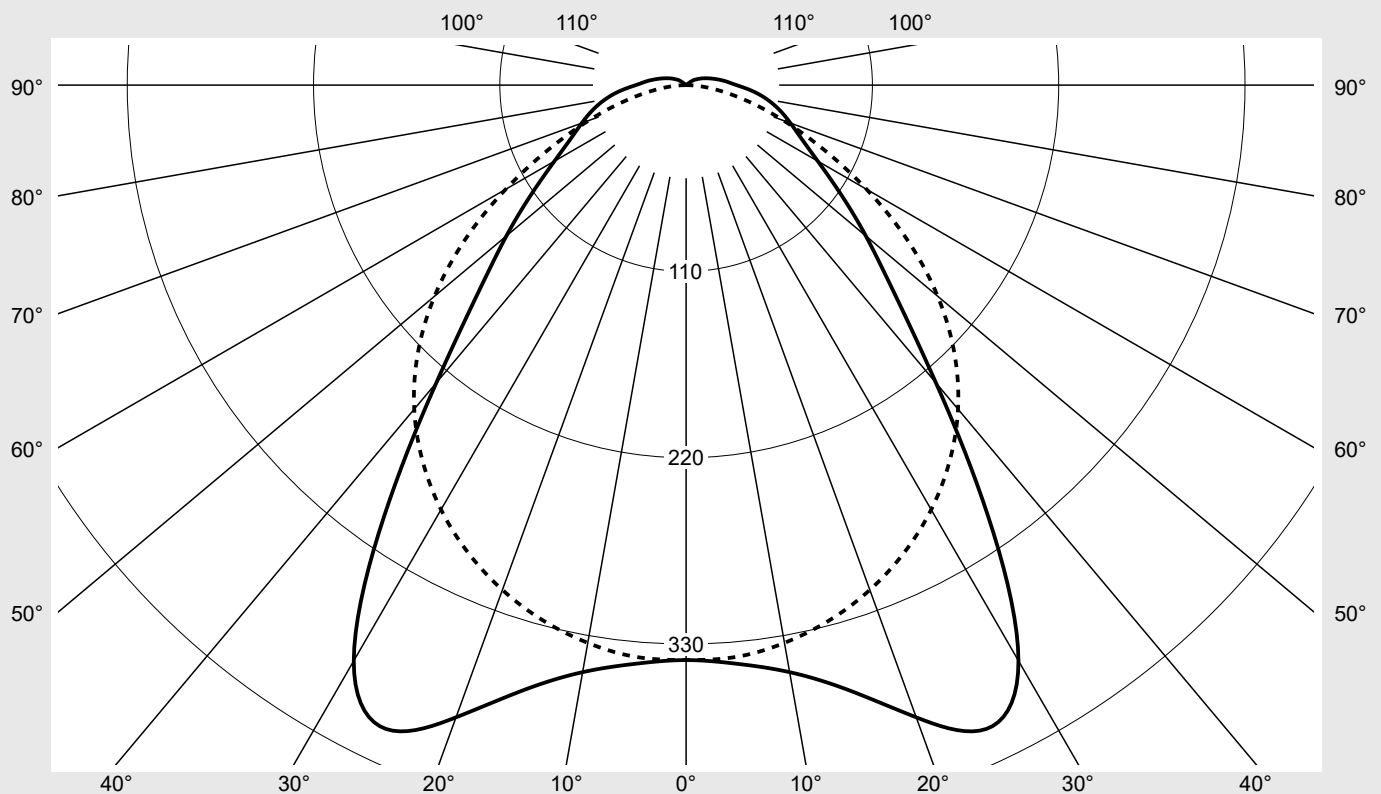
**sitEco**

**Lichtstärke in cd/klm**

**C180-0**

**C270-90**

**Imax: 419 cd/klm**



**Klassifizierungen**

DIN 5040 A 4 1  
 CIE N1=54 N2=82 N3=95  
 N4=97 N5=100

**Leuchtenbetriebswirkungsgrade**

$\eta_{LB}$  100,0%  
 $\phi_u$  96,8%  
 $\phi_o$  3,2%

**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°	339.5	339.5	339.5	339.5	339.5	339.5	339.5	2.0	2.0
5°	343.0	342.0	339.2	339.3	339.7	338.8	338.9	16.2	18.3
10°	352.0	350.9	345.1	341.6	338.4	335.1	334.4	32.6	50.9
15°	369.7	367.9	356.8	346.8	337.2	329.4	327.1	49.3	100.2
20°	397.2	393.9	374.9	354.6	335.9	321.8	317.2	66.8	167.0
25°	419.5	416.9	395.3	365.3	334.4	312.1	304.6	84.4	251.4
30°	392.5	397.1	392.3	370.7	332.1	300.1	289.4	97.4	348.9
35°	311.0	322.2	341.8	350.7	323.8	285.3	271.2	100.3	449.2
40°	229.5	240.6	267.7	298.9	299.5	266.8	249.8	94.7	543.9
45°	174.0	182.0	204.5	237.4	256.3	239.9	224.1	85.2	629.1
50°	138.5	144.4	161.2	187.1	207.0	203.8	193.9	74.9	704.0
55°	110.9	115.6	129.9	149.5	163.4	162.9	159.6	64.1	768.1
60°	89.8	92.9	103.5	120.2	127.5	124.1	123.1	53.4	821.5
65°	75.3	77.0	82.7	94.9	98.6	91.3	89.2	43.6	865.1
70°	65.6	65.8	66.8	73.1	74.5	64.6	61.3	35.1	900.1
75°	57.2	56.6	54.5	55.3	53.6	43.2	39.2	27.5	927.6
80°	48.6	47.5	44.1	40.6	36.2	26.8	21.9	20.7	948.4
85°	39.1	38.1	34.6	29.4	22.8	14.4	9.2	14.9	963.2
90°	29.7	28.9	25.8	20.2	13.1	5.9	0.8	10.0	973.2
95°	24.0	23.5	21.5	16.6	10.0	3.6	0.7	8.0	981.2
100°	19.1	18.8	17.3	13.3	7.4	1.9	0.7	6.2	987.3
105°	15.1	14.8	13.5	10.2	5.0	0.8	0.6	4.6	991.9
110°	11.8	11.4	10.2	7.3	2.9	0.6	0.6	3.3	995.3
115°	9.1	8.6	7.4	4.7	1.4	0.7	0.7	2.3	997.5
120°	6.7	6.2	4.9	2.7	0.8	0.7	0.8	1.5	999.1
125°	4.5	4.0	2.9	1.3	0.8	0.8	0.8	0.9	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	21,9	23,6	22,3	23,9	24,2	23,8	25,4	24,1	25,7	26,0
	3H	23,1	24,6	23,5	24,9	25,3	24,8	26,3	25,2	26,6	26,9
	4H	23,8	25,2	24,2	25,5	25,9	25,1	26,5	25,5	26,9	27,2
	6H	24,6	25,9	25,0	26,2	26,6	25,4	26,7	25,8	27,0	27,4
	8H	25,0	26,2	25,4	26,6	27,0	25,5	26,7	25,9	27,1	27,5
	12H	25,4	26,5	25,8	26,9	27,3	25,6	26,7	26,0	27,1	27,5
4H	2H	22,8	24,1	23,1	24,5	24,9	24,2	25,6	24,6	26,0	26,3
	3H	24,1	25,3	24,6	25,7	26,1	25,5	26,7	25,9	27,0	27,5
	4H	25,0	26,0	25,4	26,4	26,9	26,0	27,0	26,4	27,5	27,9
	6H	25,9	26,8	26,3	27,2	27,7	26,3	27,3	26,8	27,7	28,2
	8H	26,3	27,2	26,8	27,6	28,1	26,5	27,3	26,9	27,8	28,2
	12H	26,8	27,6	27,3	28,0	28,5	26,6	27,3	27,1	27,8	28,3
8H	4H	25,4	26,2	25,8	26,7	27,1	26,3	27,1	26,7	27,6	28,0
	6H	26,5	27,2	26,9	27,6	28,1	26,8	27,5	27,3	28,0	28,5
	8H	27,0	27,7	27,5	28,2	28,7	27,0	27,6	27,5	28,1	28,6
	12H	27,7	28,2	28,2	28,7	29,3	27,2	27,7	27,7	28,2	28,7
12H	4H	25,4	26,2	25,9	26,6	27,1	26,3	27,1	26,8	27,5	28,0
	6H	26,6	27,2	27,1	27,7	28,2	26,9	27,5	27,4	28,0	28,5
	8H	27,2	27,8	27,7	28,3	28,8	27,2	27,7	27,7	28,2	28,8

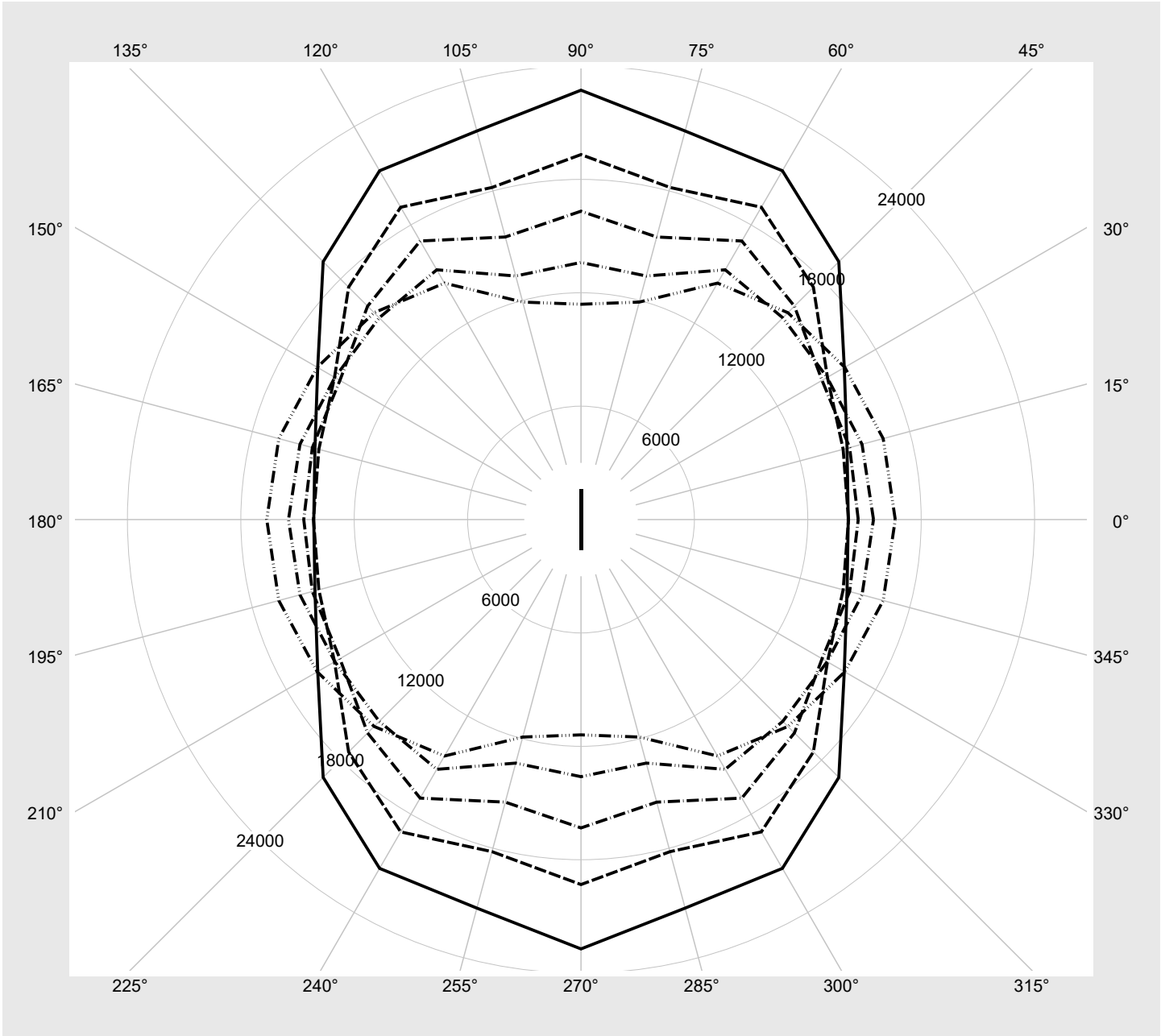
<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 1480, B = 78	H(C0) = 13, H(C90) = 0	H(C180) = 13, H(C270) = 0
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C-Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		22710.1	23865.5	27217.7	32340.0	36029.4	35017.4	34120.4
50°		19361.8	20297.9	23044.8	27474.9	31544.5	32471.9	32480.5
55°		16810.5	17642.6	20219.6	24018.5	27407.6	28810.9	29953.7
60°		15001.3	15642.9	17833.7	21490.6	23996.0	24875.8	26502.0
65°		14140.0	14574.5	16086.5	19293.8	21313.7	21286.2	22719.8
70°		14155.0	14360.8	15057.7	17389.4	19084.1	18193.5	19313.3
75°		14669.8	14716.9	14729.4	15969.7	17021.1	15479.8	16317.3
80°		15477.2	15395.2	15041.1	15099.7	15261.0	13342.7	13605.7
85°		16628.3	16554.2	16115.5	15481.8	14447.4	11914.5	11393.2

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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>Dimmstufen-Tabelle</b>	Umgebungstemperatur: 25°C	<b>sITeco</b>
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Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W] Lebensdauerbeginn	Systemleistung [W] Lebensdauerende	Systemleistung [W] Durchschnitt
100	254	254	12430	79.4	88.8	84.1
95	240	252	11799	74.9	83.8	79.4
90	227	250	11206	70.8	79.2	75.0
85	213	248	10558	66.5	74.2	70.4
80	200	245	9953	62.4	69.6	66.0
75	187	243	9342	58.4	65.1	61.8
70	174	240	8722	54.4	60.5	57.4
65	161	237	8100	50.4	56.1	53.2
60	148	234	7475	46.4	51.7	49.0
55	135	231	6835	42.5	47.3	44.9
50	122	227	6198	38.6	42.9	40.8
45	110	223	5601	35.0	38.8	36.9
40	97	219	4954	31.1	34.5	32.8
35	85	214	4350	27.6	30.5	29.0
30	73	208	3737	24.0	26.5	25.2
25	61	202	3125	20.6	22.6	21.6
20	49	194	2507	17.0	18.7	17.8
15	37	183	1884	13.4	14.7	14.0
10	25	169	1259	10.1	10.8	10.4
5	13	145	636	6.6	7.0	6.8
2	5	110	227	4.2	4.4	4.3