

## Lichttechnischer Prüfbefund

**Familie**  
**Licross® Protected**

**Bestell-Nr.: 51TS12DN48XF**  
**EAN: 4058352210031**

**LP-Nummer**  
**58522\_26**



**Ausführung** Prismenabdeckung, satiniert, breit strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 8470 lm  
 Systemleistung = 56.2 W  
 Lichtausbeute = 150.7 lm/W

**Seriendokumentation**  
12.12.2019

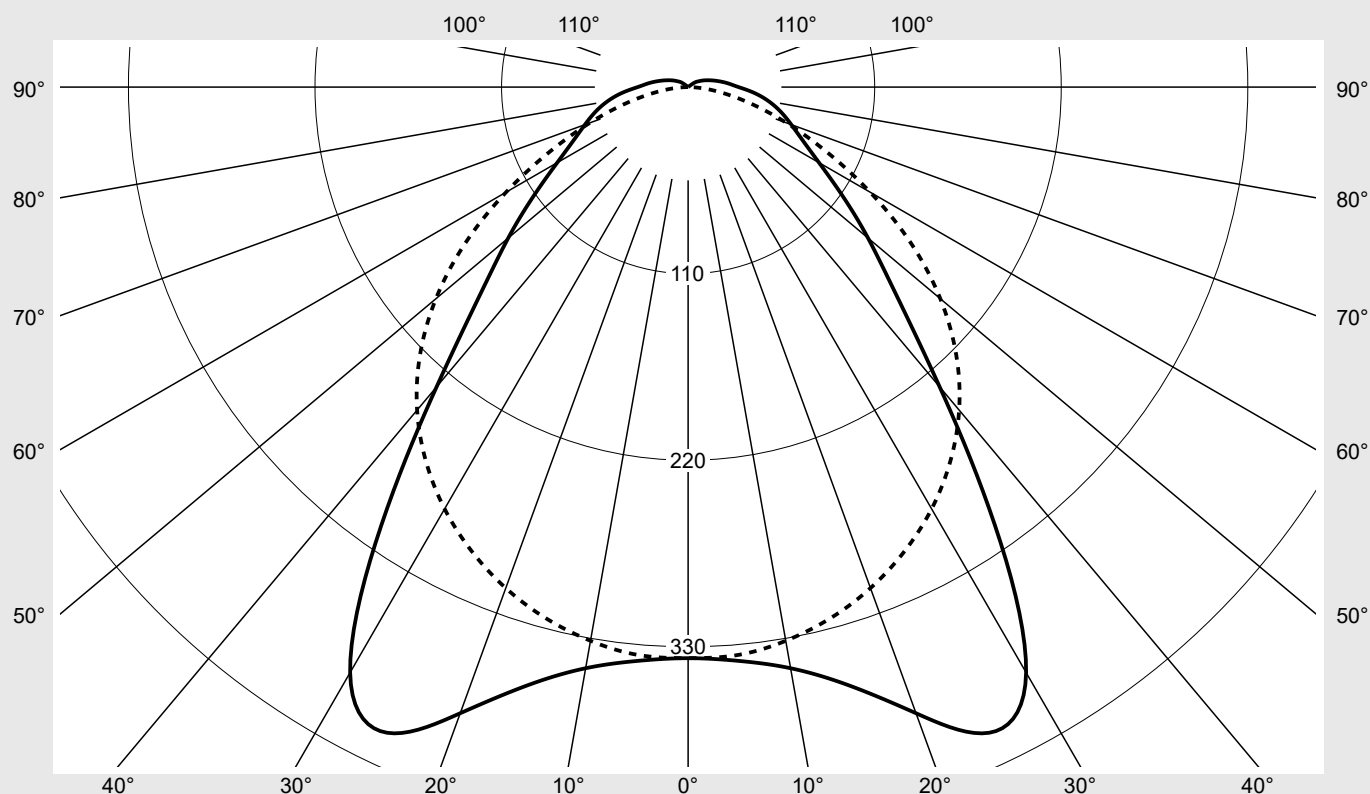
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 420 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

## Lichttechnischer Prüfbefund

<b>Familie</b> <b>Licross® Protected</b>	<b>Bestell-Nr.: 51TS12DN48XF</b> <b>EAN: 4058352210031</b>	<b>LP-Nummer</b> <b>58522_26</b>
<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°	336.7	336.7	336.7	336.7	336.7	336.7	336.7	2.0	2.0
5°	339.6	338.6	335.9	336.3	336.9	336.0	336.1	16.1	18.1
10°	347.9	347.0	341.3	338.0	335.2	332.1	331.5	32.3	50.4
15°	365.1	363.4	352.6	343.0	333.9	326.3	324.2	48.8	99.2
20°	392.9	389.6	370.2	350.5	332.5	318.7	314.4	66.1	165.3
25°	420.1	417.2	393.2	361.7	330.8	309.3	301.9	83.9	249.2
30°	398.6	403.0	395.6	369.9	329.0	297.6	287.2	97.7	346.8
35°	315.4	327.2	346.9	353.5	322.7	283.2	269.5	100.9	447.7
40°	230.7	242.3	270.7	302.4	300.6	265.5	248.6	95.2	542.9
45°	173.9	182.1	205.6	239.8	258.3	240.0	223.6	85.6	628.5
50°	138.5	144.5	161.6	188.3	208.7	204.6	194.1	75.2	703.7
55°	110.6	115.5	130.2	150.3	164.6	163.9	160.4	64.4	768.0
60°	89.1	92.4	103.6	120.9	128.5	124.9	123.9	53.5	821.6
65°	74.6	76.3	82.5	95.4	99.4	91.8	89.8	43.7	865.3
70°	64.8	65.1	66.4	73.4	75.2	65.0	61.7	35.1	900.3
75°	56.7	56.1	54.1	55.3	54.0	43.4	39.3	27.4	927.8
80°	48.3	47.2	43.9	40.6	36.4	26.8	21.9	20.7	948.5
85°	39.1	38.0	34.5	29.4	22.9	14.4	9.1	14.9	963.3
90°	29.8	28.8	25.7	20.2	13.1	5.8	0.8	9.9	973.3
95°	24.0	23.5	21.4	16.6	9.9	3.5	0.7	7.9	981.2
100°	19.2	18.8	17.3	13.3	7.4	1.9	0.6	6.2	987.4
105°	15.1	14.8	13.6	10.2	5.0	0.8	0.6	4.6	992.0
110°	11.8	11.3	10.2	7.3	2.9	0.6	0.6	3.3	995.3
115°	9.0	8.5	7.3	4.7	1.4	0.7	0.7	2.3	997.6
120°	6.6	6.1	4.9	2.7	0.8	0.7	0.7	1.5	999.1
125°	4.4	4.0	2.9	1.3	0.7	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

## Lichttechnischer Prüfbefund

<b>Familie</b> Licross® Protected	<b>Bestell-Nr.: 51TS12DN48XF</b> <b>EAN: 4058352210031</b>	<b>LP-Nummer</b> 58522_26
--------------------------------------	---	------------------------------

UGR-Tabelle		Standardraum									
Raumabmessungen		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
x	y										
2H	2H	20,6	22,2	21,0	22,5	22,9	22,5	24,1	22,8	24,4	24,7
	3H	21,8	23,2	22,1	23,6	23,9	23,5	25,0	23,9	25,3	25,6
	4H	22,5	23,8	22,8	24,2	24,6	23,8	25,2	24,2	25,6	25,9
	6H	23,2	24,5	23,6	24,9	25,3	24,1	25,4	24,5	25,7	26,1
	8H	23,6	24,8	24,0	25,2	25,6	24,2	25,4	24,6	25,8	26,2
	12H	24,0	25,1	24,4	25,5	25,9	24,3	25,4	24,7	25,8	26,2
4H	2H	21,4	22,8	21,8	23,2	23,5	22,9	24,3	23,3	24,7	25,0
	3H	22,8	24,0	23,2	24,4	24,8	24,2	25,4	24,6	25,8	26,2
	4H	23,6	24,7	24,0	25,1	25,5	24,7	25,8	25,1	26,2	26,6
	6H	24,5	25,4	25,0	25,9	26,3	25,0	26,0	25,5	26,4	26,9
	8H	25,0	25,8	25,4	26,3	26,7	25,2	26,0	25,6	26,5	26,9
	12H	25,5	26,2	25,9	26,7	27,2	25,3	26,0	25,8	26,5	27,0
8H	4H	24,0	24,9	24,5	25,3	25,8	25,0	25,8	25,4	26,3	26,7
	6H	25,1	25,8	25,6	26,3	26,8	25,5	26,2	26,0	26,7	27,2
	8H	25,7	26,3	26,2	26,8	27,3	25,7	26,3	26,2	26,8	27,3
	12H	26,3	26,9	26,8	27,4	27,9	25,9	26,4	26,4	26,9	27,4
12H	4H	24,1	24,8	24,6	25,3	25,8	25,0	25,8	25,5	26,2	26,7
	6H	25,2	25,8	25,7	26,3	26,8	25,6	26,2	26,1	26,7	27,2
	8H	25,9	26,4	26,4	26,9	27,4	25,9	26,4	26,4	26,9	27,4

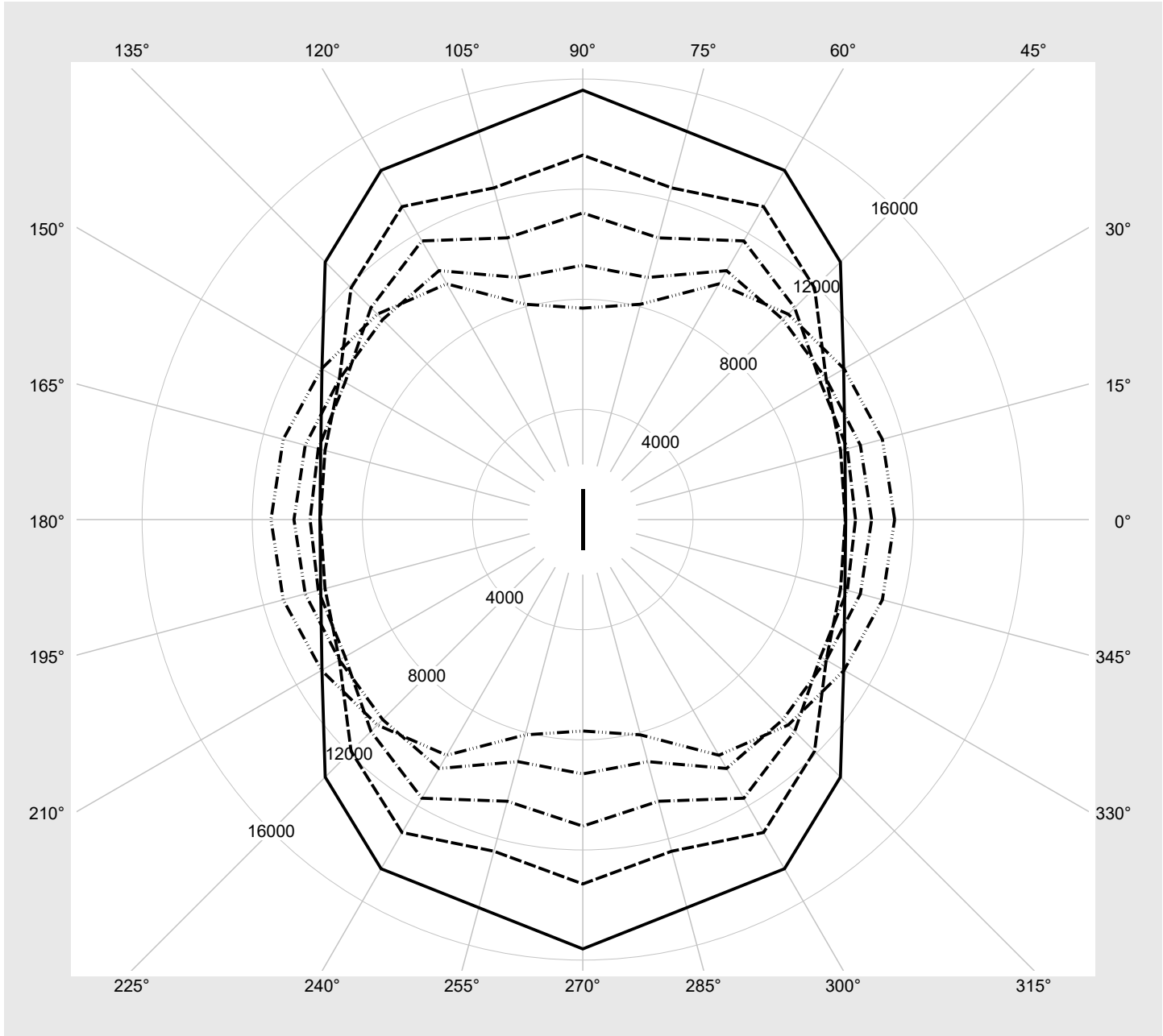
<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 1480 B = 78	H(C0) = 13	H(C180) = 13	H(C90) = 0	H(C270) = 0
--	---	------------	--------------	------------	-------------

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°		15464.0	16276.2	18641.5	22258.6	24735.8	23871.1	23203.3
50°		13187.2	13835.8	15740.3	18848.1	21668.8	22217.1	22158.3
55°		11423.8	12011.5	13812.5	16457.0	18819.2	19749.1	20514.4
60°		10149.4	10603.7	12161.9	14730.2	16478.4	17051.8	18187.6
65°		9545.4	9850.7	10935.7	13226.4	14645.5	14593.0	15594.5
70°		9528.5	9689.4	10205.0	11898.2	13124.8	12471.2	13235.5
75°		9902.0	9943.2	9967.0	10878.9	11686.9	10592.4	11135.6
80°		10487.4	10432.9	10204.6	10275.5	10439.2	9102.8	9237.8
85°		11321.5	11260.2	10953.1	10549.9	9885.2	8096.2	7679.3

**Lichttechnischer Prüfbefund**

<b>Familie</b> <b>Licross® Protected</b>	<b>Bestell-Nr.: 51TS12DN48XF</b> <b>EAN: 4058352210031</b>	<b>LP-Nummer</b> <b>58522_26</b>
---	---	-------------------------------------

Leuchtdichten in cd/m<sup>2</sup>       $\gamma$  65°     $\gamma$  70°     $\gamma$  75°     $\gamma$  80°     $\gamma$  85°



## Lichttechnischer Prüfbefund

<b>Familie</b> Licross® Protected	<b>Bestell-Nr.: 51TS12DN48XF</b> <b>EAN: 4058352210031</b>	<b>LP-Nummer</b> <b>58522_26</b>
--------------------------------------	---	-------------------------------------

<b>Dimmstufen-Tabelle</b>	Umgebungstemperatur: 25°C	<b>sITeco</b>
---------------------------	---------------------------	---------------

Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	8470	56.2
95	240	252	8045	53.2
90	227	250	7621	50.2
85	213	248	7198	47.3
80	200	245	6774	44.3
75	187	243	6351	41.5
70	174	240	5928	38.6
65	161	238	5504	35.8
60	148	234	5081	33.0
55	135	231	4657	30.2
50	122	227	4234	27.5
45	109	224	3811	24.9
40	97	219	3387	22.2
35	84	214	2964	19.7
30	72	208	2540	17.0
25	60	201	2117	14.5
20	48	194	1694	12.0
15	36	183	1270	9.6
10	24	169	847	7.2
5	12	143	423	4.6