

## Lichttechnischer Prüfbefund

**Familie**  
**Licross® Protected**

**Bestell-Nr.: 51TS12DN4DXL**  
**EAN: 4058352265017**

**LP-Nummer**  
**58521\_13**



**Ausführung** Prismenabdeckung, satiniert, breit strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 13360 lm  
 Systemleistung = 86.1 W  
 Lichtausbeute = 155.2 lm/W

**Seriendokumentation**  
**12.12.2019**

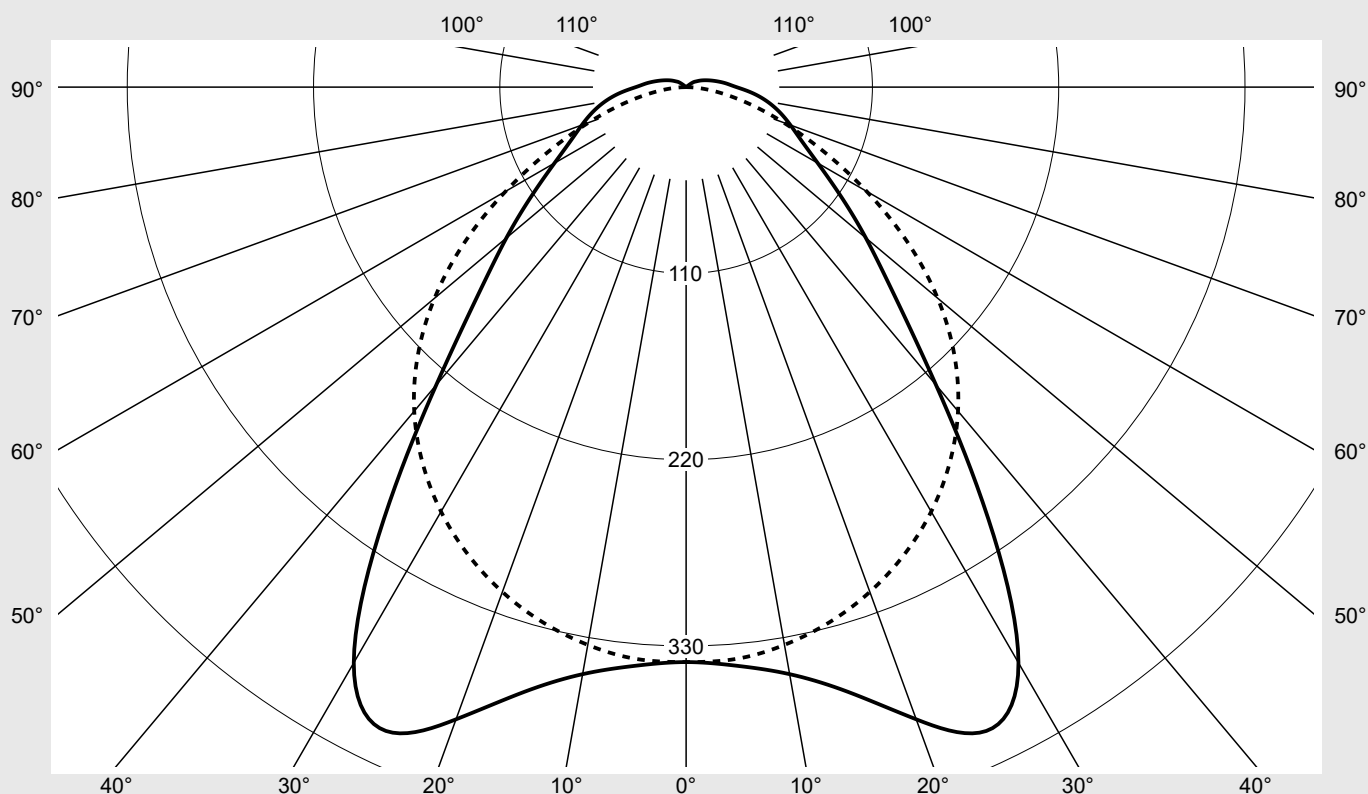
**sITeco**

**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>
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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°			
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	22,2	23,8	22,5	24,1	24,4	24,0	25,7	24,4	26,0	26,3
	3H	23,4	24,8	23,7	25,2	25,5	25,0	26,5	25,4	26,8	27,2
	4H	24,1	25,4	24,5	25,8	26,2	25,4	26,8	25,8	27,1	27,5
	6H	24,8	26,1	25,2	26,5	26,9	25,6	26,9	26,1	27,3	27,7
	8H	25,2	26,4	25,7	26,8	27,2	25,8	26,9	26,2	27,3	27,7
	12H	25,6	26,8	26,1	27,1	27,6	25,8	26,9	26,2	27,3	27,7
4H	2H	23,0	24,4	23,4	24,7	25,1	24,5	25,9	24,9	26,2	26,6
	3H	24,4	25,6	24,8	25,9	26,3	25,7	26,9	26,2	27,3	27,7
	4H	25,2	26,3	25,6	26,7	27,1	26,2	27,3	26,7	27,7	28,1
	6H	26,1	27,0	26,6	27,5	27,9	26,6	27,5	27,1	28,0	28,4
	8H	26,6	27,4	27,0	27,9	28,4	26,7	27,6	27,2	28,0	28,5
	12H	27,1	27,8	27,6	28,3	28,8	26,8	27,6	27,3	28,0	28,5
8H	4H	25,6	26,5	26,1	26,9	27,4	26,5	27,4	27,0	27,8	28,3
	6H	26,7	27,4	27,2	27,9	28,4	27,0	27,8	27,5	28,2	28,7
	8H	27,3	27,9	27,8	28,4	28,9	27,2	27,9	27,7	28,4	28,9
	12H	27,9	28,5	28,4	29,0	29,5	27,4	28,0	27,9	28,5	29,0
12H	4H	25,7	26,4	26,2	26,9	27,4	26,6	27,3	27,1	27,8	28,3
	6H	26,8	27,4	27,3	27,9	28,4	27,2	27,8	27,7	28,3	28,8
	8H	27,5	28,0	28,0	28,5	29,1	27,4	28,0	27,9	28,5	29,0

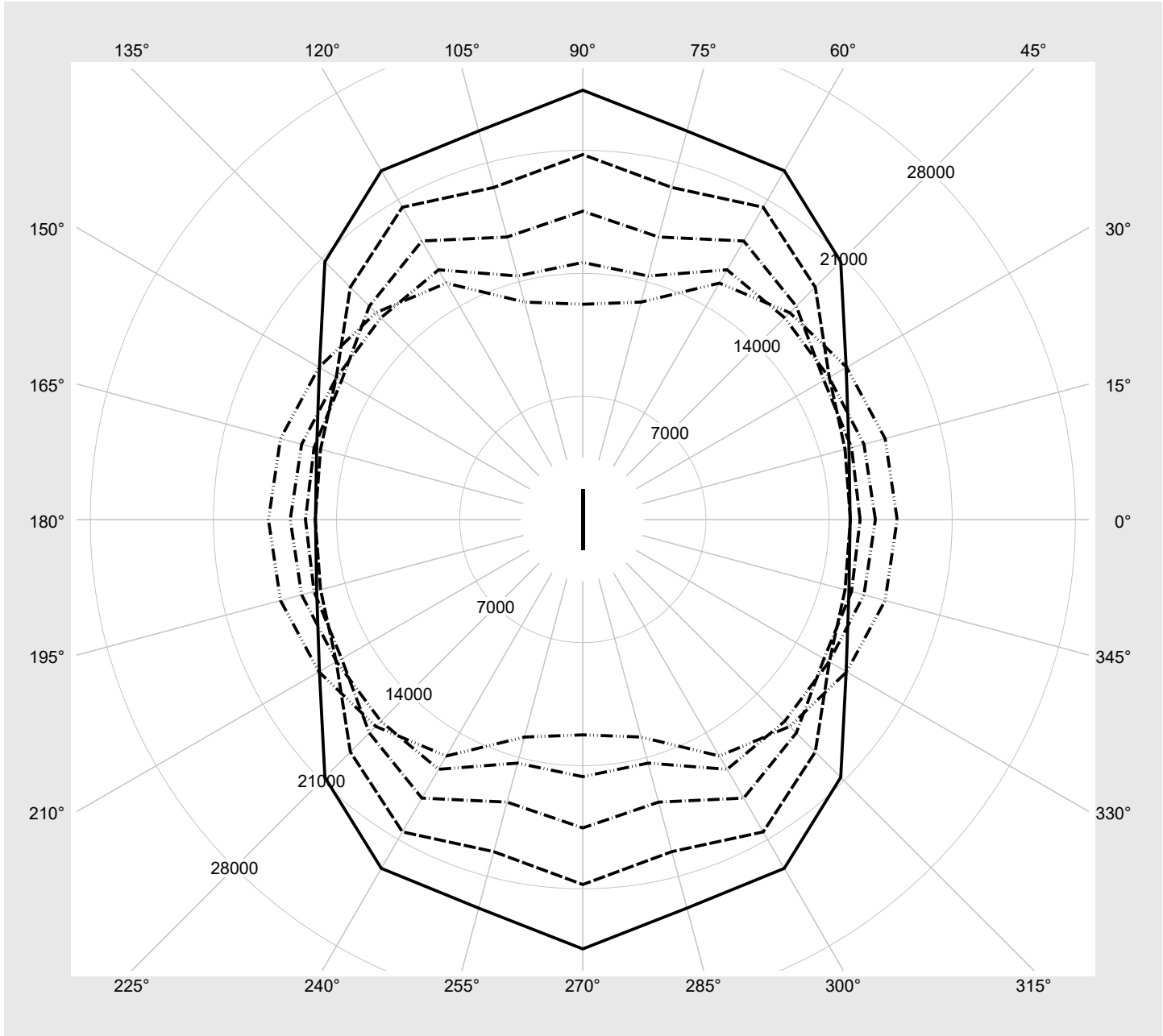
<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 1480 B = 78	H(C0) = 13	H(C180) = 13
		H(C90) = 0	H(C270) = 0

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°		24409.3	25651.1	29254.1	34759.6	38725.1	37637.4	36673.2	
50°		20810.4	21816.5	24769.0	29530.5	33904.6	34901.4	34910.7	
55°		18068.3	18962.6	21732.5	25815.5	29458.2	30966.5	32194.8	
60°		16123.6	16813.3	19168.0	23098.5	25791.3	26737.0	28484.9	
65°		15198.0	15664.9	17290.1	20737.4	22908.4	22878.9	24419.7	
70°		15214.1	15435.2	16184.3	18690.5	20511.9	19554.7	20758.3	
75°		15767.4	15818.0	15831.4	17164.6	18294.6	16638.0	17538.1	
80°		16635.2	16547.0	16166.4	16229.4	16402.8	14341.0	14623.7	
85°		17872.4	17792.8	17321.3	16640.2	15528.3	12805.9	12245.6	

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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]
100	254	254	13360	86.1
95	240	252	12689	81.3
90	226	250	12021	76.6
85	212	248	11353	72.0
80	199	245	10686	67.3
75	186	243	10018	62.9
70	172	240	9350	58.4
65	159	237	8682	54.1
60	146	234	8014	49.8
55	134	231	7346	45.6
50	121	227	6679	41.5
45	109	223	6011	37.4
40	96	219	5343	33.4
35	84	214	4675	29.5
30	72	208	4007	25.6
25	60	201	3339	21.7
20	48	193	2671	18.0
15	36	183	2004	14.1
10	24	169	1336	10.3
5	12	144	668	6.8