

## Lichttechnischer Prüfbefund

**Familie**  
**Licross® 21 Protected**

**Bestell-Nr.: 52TD1BVN45XGD**  
**EAN: 4058352940952**

**LP-Nummer**  
**58522\_244**



**Ausführung** Prismenabdeckung, satiniert, breit strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI CLO  
**Einstellung** AC-Betrieb  
**Bemessungswerte** Nettolichtstrom = 5000 lm  
 Systemleistung = 29.3 W  
 Lichtausbeute = 170.6 lm/W

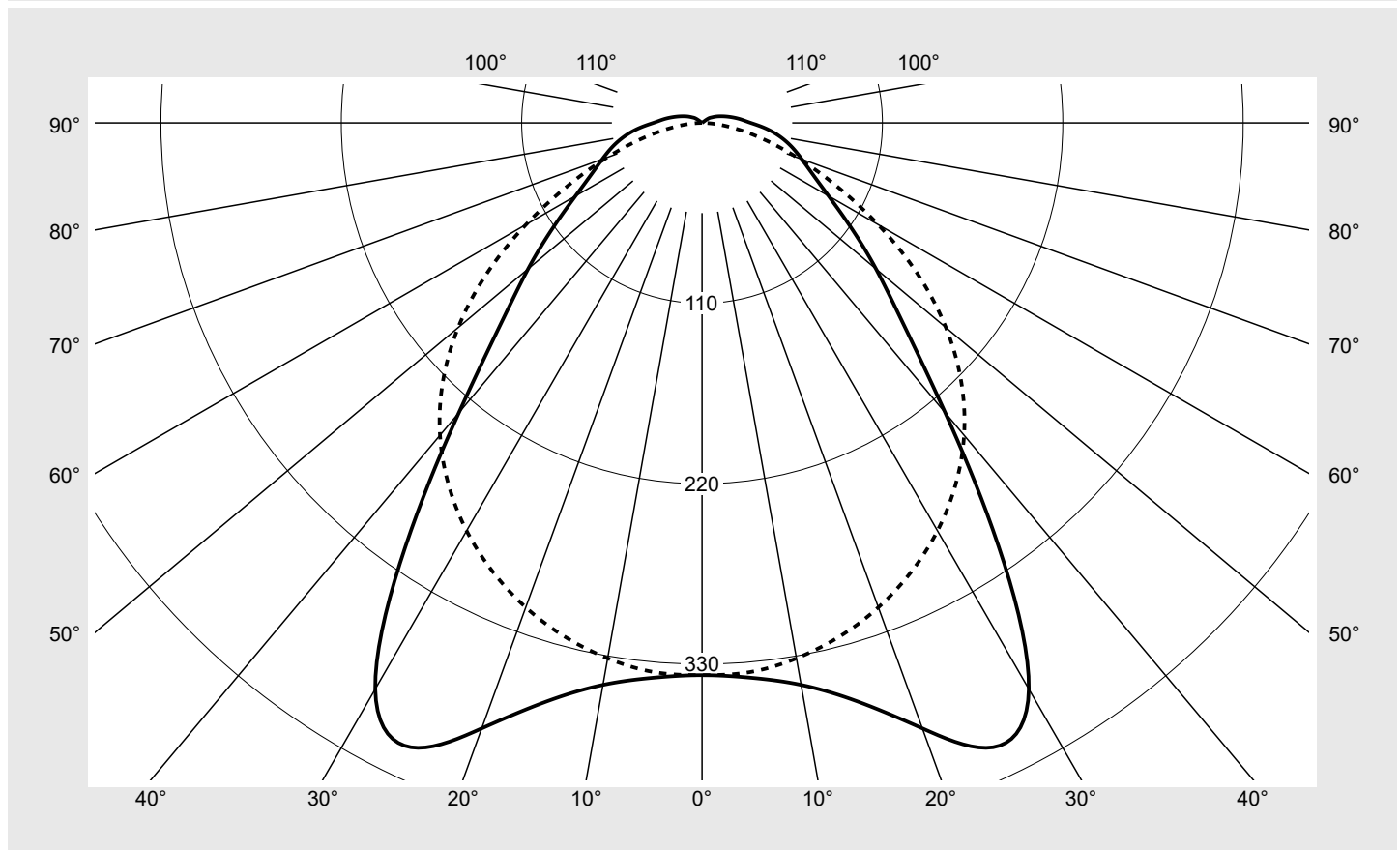
**Seriendokumentation**  
29.08.2023

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**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

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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°	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

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UGR-Tabelle		Standardraum									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
x	y										
2H	2H	18,8	20,4	19,1	20,7	21,0	20,6	22,3	21,0	22,6	22,9
	3H	19,9	21,4	20,3	21,7	22,1	21,7	23,1	22,0	23,5	23,8
	4H	20,6	22,0	21,0	22,4	22,7	22,0	23,4	22,4	23,7	24,1
	6H	21,4	22,7	21,8	23,0	23,4	22,3	23,5	22,7	23,9	24,3
	8H	21,8	23,0	22,2	23,4	23,8	22,4	23,6	22,8	23,9	24,3
	12H	22,2	23,3	22,6	23,7	24,1	22,4	23,5	22,8	23,9	24,3
4H	2H	19,6	21,0	20,0	21,3	21,7	21,1	22,5	21,5	22,8	23,2
	3H	21,0	22,1	21,4	22,5	22,9	22,4	23,5	22,8	23,9	24,3
	4H	21,8	22,8	22,2	23,2	23,7	22,9	23,9	23,3	24,3	24,8
	6H	22,7	23,6	23,1	24,0	24,5	23,2	24,1	23,7	24,6	25,0
	8H	23,1	24,0	23,6	24,4	24,9	23,3	24,2	23,8	24,6	25,1
	12H	23,6	24,4	24,1	24,8	25,3	23,4	24,2	23,9	24,7	25,1
8H	4H	22,2	23,0	22,6	23,5	24,0	23,1	24,0	23,6	24,4	24,9
	6H	23,3	24,0	23,7	24,4	24,9	23,7	24,4	24,1	24,8	25,3
	8H	23,9	24,5	24,3	25,0	25,5	23,9	24,5	24,4	25,0	25,5
	12H	24,5	25,0	25,0	25,5	26,1	24,0	24,6	24,5	25,1	25,6
12H	4H	22,3	23,0	22,7	23,5	24,0	23,2	24,0	23,7	24,4	24,9
	6H	23,4	24,0	23,9	24,5	25,0	23,8	24,4	24,3	24,9	25,4
	8H	24,0	24,6	24,6	25,1	25,6	24,0	24,6	24,6	25,1	25,6

<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
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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°		9128.7	9608.1	11004.4	13139.7	14602.0	14091.6	13697.3
50°		7784.7	8167.5	9291.8	11126.4	12791.5	13115.2	13080.5
55°		6743.7	7090.6	8153.7	9714.9	11109.3	11658.2	12110.0
60°		5991.4	6259.5	7179.4	8695.5	9727.5	10066.0	10736.5
65°		5634.9	5815.1	6455.6	7807.8	8645.5	8614.5	9205.7
70°		5624.8	5719.8	6024.2	7023.7	7747.8	7362.0	7813.1
75°		5845.3	5869.6	5883.7	6422.0	6899.0	6252.9	6573.6
80°		6190.9	6158.7	6024.0	6065.8	6162.5	5373.6	5453.2
85°		6683.3	6647.1	6465.8	6227.8	5835.4	4779.3	4533.2

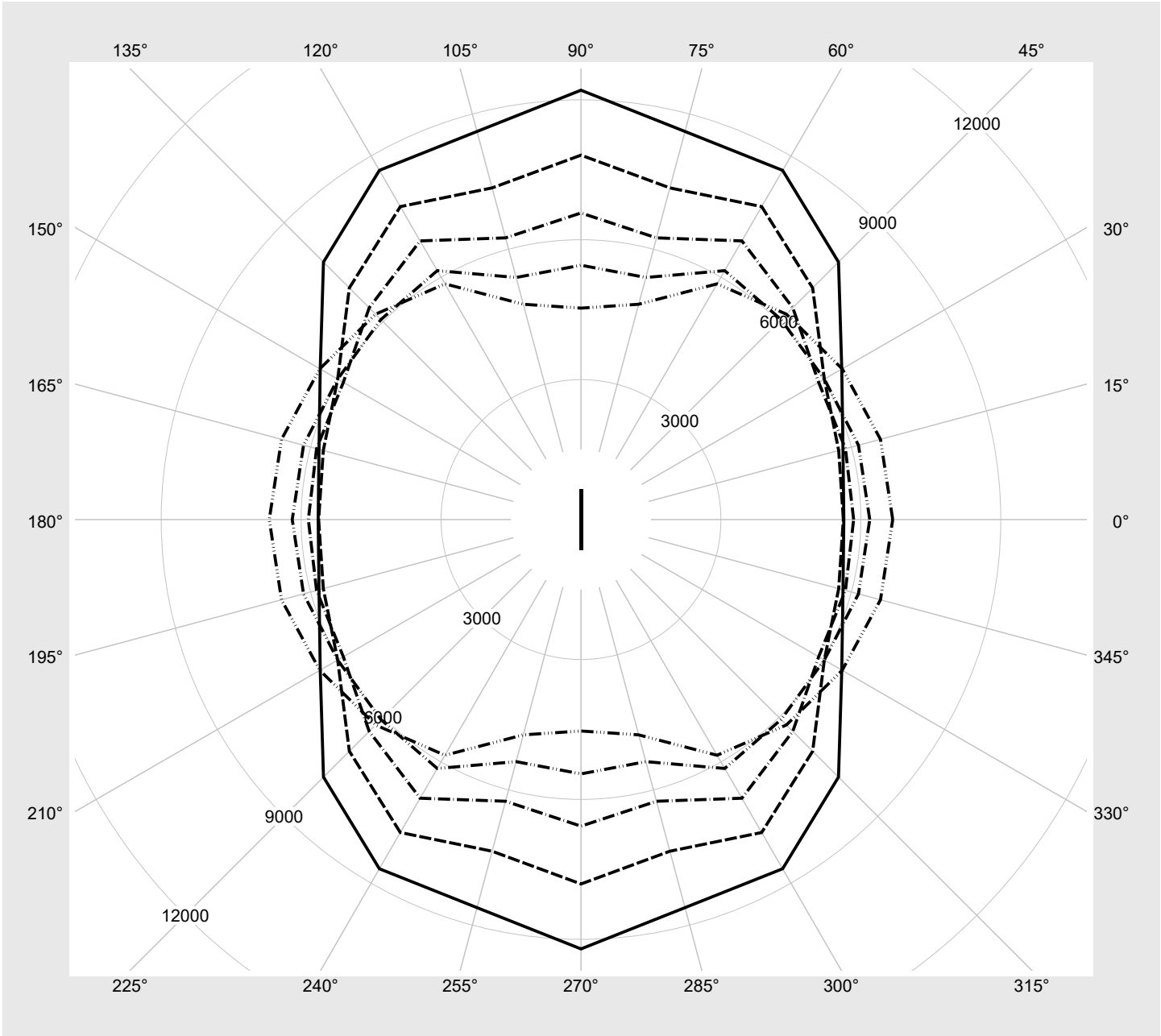
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**Leuchtdichten in cd/m²**

$\gamma$ 65°	$\gamma$ 70°	$\gamma$ 75°	$\gamma$ 80°	$\gamma$ 85°
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<b>Dimmstufen-Tabelle</b>		<b>Umgebungstemperatur: 25°C</b>
<b>siteco</b>		

Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W] Lebensdauerbeginn	Systemleistung [W] Lebensdauerende	Systemleistung [W] Durchschnitt
100	254	254	5000	29.3	33.4	31.4
95	241	252	4754	28.0	31.7	29.8
90	228	250	4506	26.6	30.0	28.3
85	215	248	4256	25.3	28.4	26.8
80	202	246	4006	23.9	26.9	25.4
75	189	243	3753	22.5	25.4	24.0
70	176	241	3501	21.1	23.8	22.5
65	163	238	3246	19.7	22.2	21.0
60	150	235	2992	18.2	20.5	19.4
55	138	232	2755	16.8	19.1	18.0
50	125	228	2499	15.3	17.4	16.4
45	112	224	2242	13.9	15.7	14.8
40	100	220	2003	12.4	14.1	13.2
35	87	215	1744	10.9	12.3	11.6
30	75	209	1503	9.6	10.8	10.2
25	62	202	1242	8.1	9.1	8.6
20	50	194	1001	6.8	7.6	7.2
15	38	184	757	5.4	6.0	5.7