

## Lichttechnischer Prüfbefund

**Familie**  
Licross® 21 Protected

**Bestell-Nr.:** 52TP12DN4E5MD  
**EAN:** 4058352904022

**LP-Nummer**  
58523\_174



**Ausführung** Prismenabdeckung, satiniert, breit strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Einstellung** AC-Betrieb  
**Bemessungswerte** Nettolichtstrom = 14690 lm  
 Systemleistung = 84.9 W  
 Lichtausbeute = 173 lm/W

**Seriendokumentation**  
10.08.2023

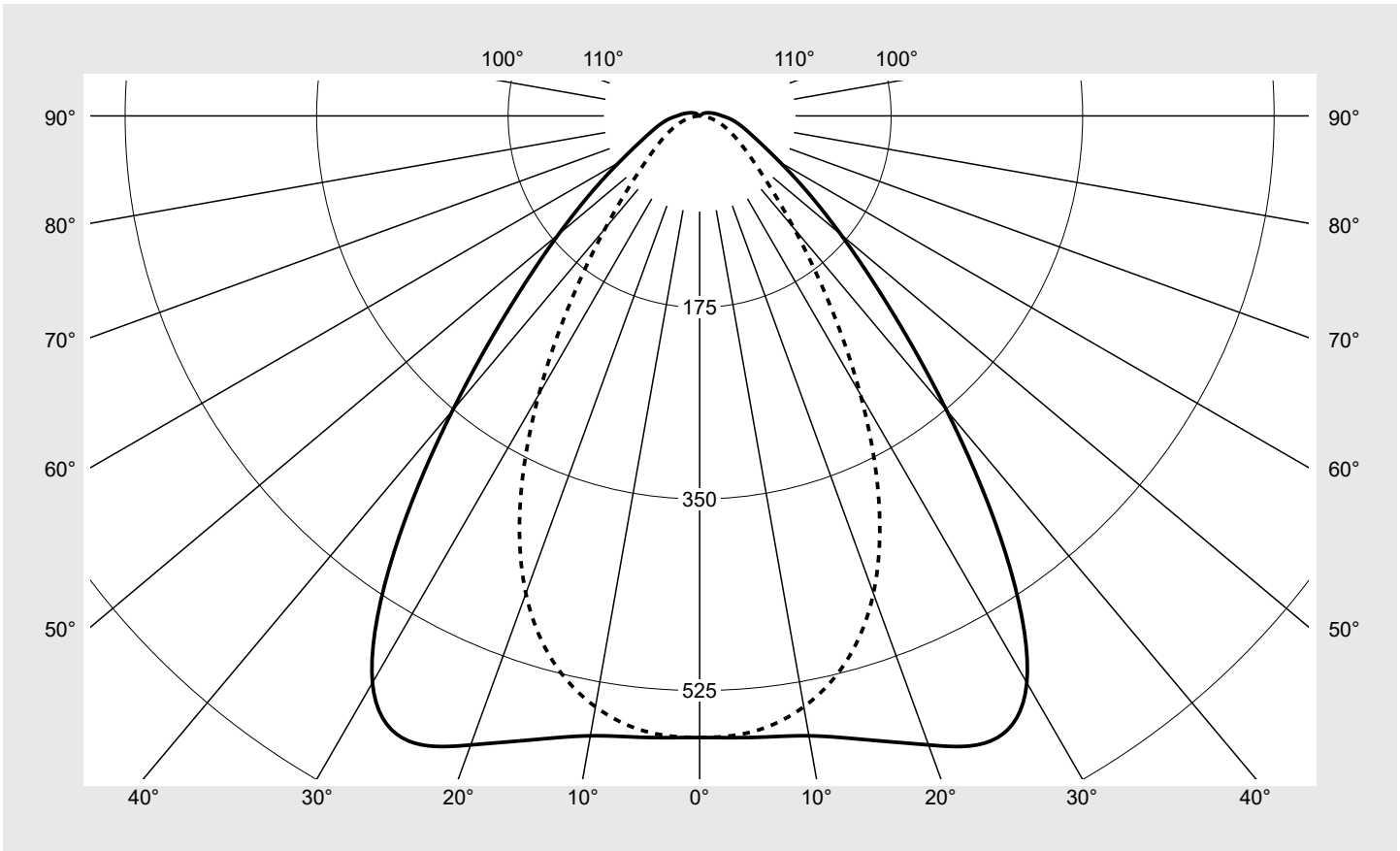
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 630 cd/klm



**Klassifizierungen**

DIN 5040 A 5 1  
 CIE N1=70 N2=91 N3=97  
 N4=98 N5=100

**Leuchtenbetriebswirkungsgrade**

$\eta_{LB}$  100,0%  
 $\phi_u$  98,3%  
 $\phi_o$  1,7%

**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°			
γ		Lichtstärke in cd/klm						Lichtstrom in lm/klm	
0°	568.0	568.0	568.0	568.0	568.0	568.0	568.0	3.4	3.4
5°	570.0	568.0	563.9	564.4	565.6	564.2	564.6	27.0	30.4
10°	575.1	572.9	563.4	557.9	553.3	549.0	548.2	53.3	83.7
15°	590.1	586.0	566.8	548.5	532.2	519.9	516.5	78.2	161.9
20°	611.6	603.6	568.7	531.0	496.5	471.9	464.3	100.3	262.2
25°	630.0	617.6	564.2	499.9	441.6	401.0	387.5	117.1	379.3
30°	598.0	589.4	536.5	452.4	368.0	311.9	293.8	123.5	502.8
35°	487.1	490.1	463.2	383.1	284.6	222.1	203.0	114.7	617.4
40°	351.1	360.8	359.1	297.2	205.7	150.3	134.3	94.9	712.3
45°	241.7	250.7	257.1	211.9	140.4	100.6	89.9	72.8	785.1
50°	168.3	174.0	178.9	144.5	94.4	69.8	63.7	54.4	839.5
55°	118.9	121.8	123.3	97.4	64.6	50.4	47.5	40.5	880.0
60°	85.1	85.8	84.4	66.1	45.7	37.4	36.1	30.1	910.0
65°	63.8	62.6	58.2	45.7	33.4	28.1	27.2	22.6	932.7
70°	50.4	47.7	40.8	32.1	24.8	20.7	19.9	17.3	949.9
75°	41.3	37.6	29.5	22.7	17.9	14.5	13.5	13.2	963.2
80°	34.0	30.0	21.9	15.9	12.4	9.4	8.0	10.0	973.1
85°	27.2	23.7	16.4	11.2	8.0	5.3	3.6	7.3	980.4
90°	20.7	17.9	12.0	7.4	4.6	2.2	0.4	5.0	985.4
95°	16.6	14.7	10.2	6.3	3.6	1.3	0.3	4.0	989.4
100°	13.2	11.9	8.5	5.2	2.7	0.8	0.3	3.2	992.6
105°	10.4	9.5	6.9	4.1	1.9	0.4	0.3	2.5	995.1
110°	8.2	7.4	5.5	3.1	1.2	0.3	0.3	1.9	997.0
115°	6.5	5.8	4.2	2.2	0.7	0.4	0.4	1.4	998.4
120°	4.9	4.3	3.0	1.4	0.6	0.5	0.5	1.0	999.4
125°	3.5	3.0	2.0	0.9	0.6	0.5	0.5	0.7	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	23,3	24,8	23,7	25,1	25,4	19,1	20,6	19,5	20,9	21,2
	3H	23,9	25,2	24,3	25,5	25,9	19,6	20,9	19,9	21,2	21,6
	4H	24,3	25,4	24,6	25,8	26,2	19,8	21,0	20,1	21,3	21,7
	6H	24,7	25,7	25,1	26,1	26,5	19,9	21,0	20,3	21,4	21,8
	8H	25,0	25,9	25,4	26,3	26,7	20,0	21,0	20,4	21,4	21,8
	12H	25,2	26,1	25,6	26,4	26,9	20,0	21,0	20,5	21,4	21,8
4H	2H	23,3	24,6	23,7	24,9	25,3	19,8	21,0	20,2	21,3	21,7
	3H	24,1	25,1	24,5	25,5	25,9	20,4	21,4	20,8	21,8	22,2
	4H	24,5	25,4	25,0	25,9	26,3	20,6	21,5	21,1	21,9	22,4
	6H	25,1	25,9	25,6	26,3	26,8	20,8	21,6	21,3	22,1	22,5
	8H	25,4	26,1	25,9	26,6	27,0	20,9	21,7	21,4	22,1	22,6
	12H	25,8	26,4	26,3	26,8	27,3	21,0	21,6	21,5	22,1	22,6
8H	4H	24,5	25,3	25,0	25,7	26,2	20,9	21,6	21,4	22,1	22,6
	6H	25,2	25,8	25,7	26,3	26,8	21,3	21,8	21,8	22,3	22,8
	8H	25,6	26,1	26,1	26,6	27,1	21,4	21,9	21,9	22,4	22,9
	12H	26,1	26,5	26,6	27,0	27,6	21,5	22,0	22,0	22,5	23,0
12H	4H	24,5	25,2	25,0	25,6	26,1	21,1	21,6	21,5	22,1	22,6
	6H	25,2	25,7	25,7	26,2	26,7	21,4	21,9	21,9	22,4	22,9
	8H	25,6	26,1	26,2	26,6	27,1	21,6	22,0	22,1	22,5	23,0

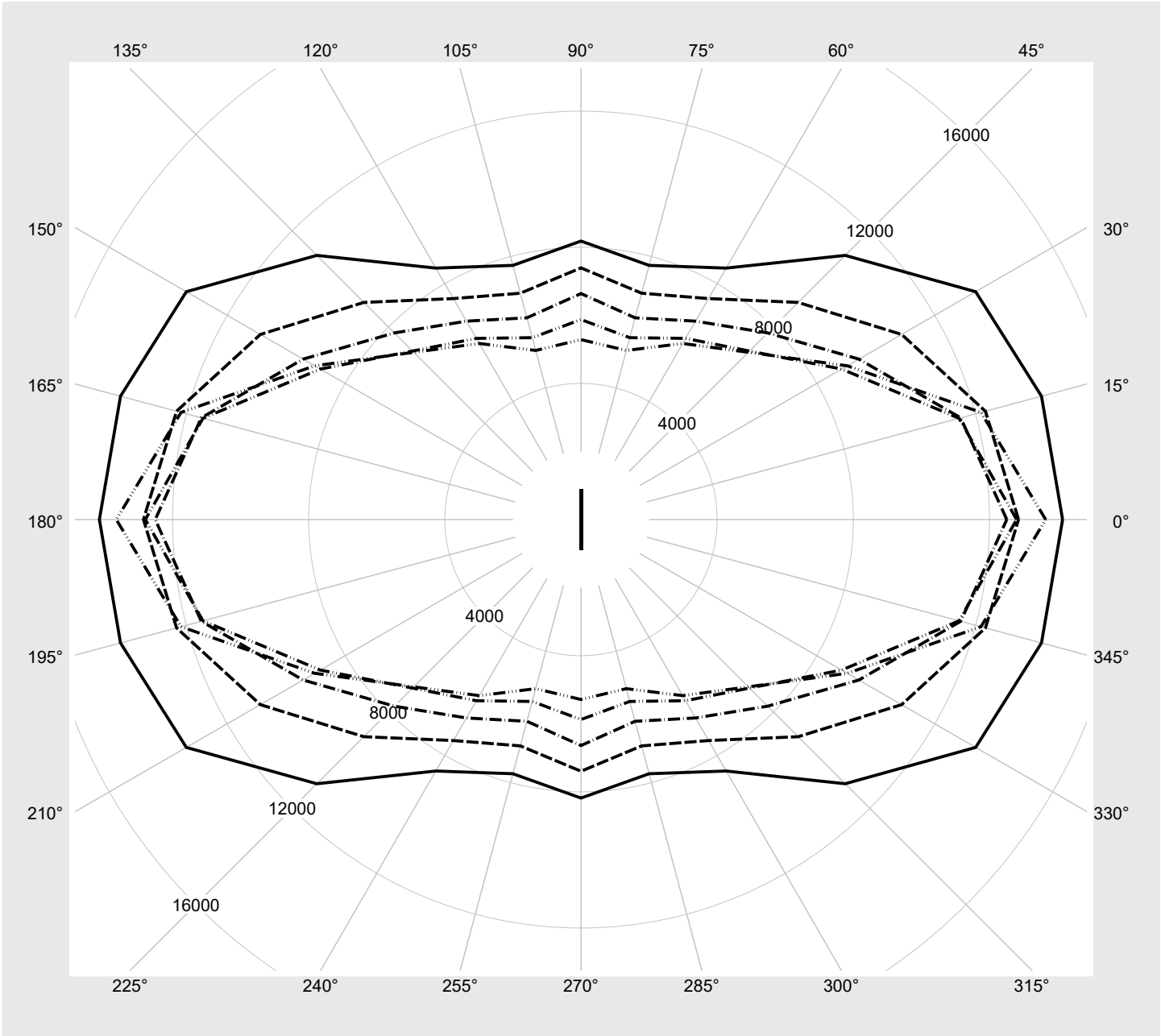
<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 1480 B = 78	H(C0) = 13	H(C180) = 13	H(C90) = 0	H(C270) = 0
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C-Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		37284.5	38854.0	40438.1	34107.6	23321.4	17356.4	16184.7	
50°		27798.9	28905.2	30226.8	25083.2	16996.9	13133.6	12614.0	
55°		21303.3	21978.8	22688.0	18492.7	12805.1	10526.7	10543.6	
60°		16805.3	17083.8	17179.5	13975.4	10160.7	8852.0	9177.9	
65°		14149.1	14006.1	13388.8	10976.9	8531.1	7731.4	8182.5	
70°		12854.7	12300.6	10877.6	9022.5	7497.2	6884.6	7394.7	
75°		12509.2	11548.6	9428.0	7754.9	6731.0	6136.8	6639.4	
80°		12799.7	11498.2	8843.8	7001.5	6146.3	5532.7	5875.7	
85°		13652.6	12164.8	9034.3	6949.9	5973.3	5143.8	5286.9	

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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	14690	84.9
95	240	252	13945	80.1
90	227	250	13245	75.8
85	213	248	12484	71.1
80	200	245	11771	66.8
75	186	243	10993	62.2
70	173	240	10264	58.0
65	160	237	9527	53.7
60	148	234	8841	49.8
55	135	231	8094	45.5
50	122	227	7340	41.4
45	110	223	6637	37.5
40	97	219	5869	33.3
35	85	214	5155	29.5
30	72	208	4378	25.5
25	60	201	3654	21.6
20	48	193	2925	17.9
15	36	182	2191	14.1
10	24	168	1457	10.3
5	12	142	715	6.6
1	4	102	217	4.3