

## Lichttechnischer Prüfbefund

**Familie**  
Licross® 21 Protected

**Bestell-Nr.:** 52TP11DN4DXS  
**EAN:** 4058352903759

**LP-Nummer**  
58525\_151



**Ausführung** Prismenabdeckung, satiniert, eng strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 13000 lm  
Systemleistung = 73.1 W  
Lichtausbeute = 177.8 lm/W

**Seriendokumentation**  
03.08.2023

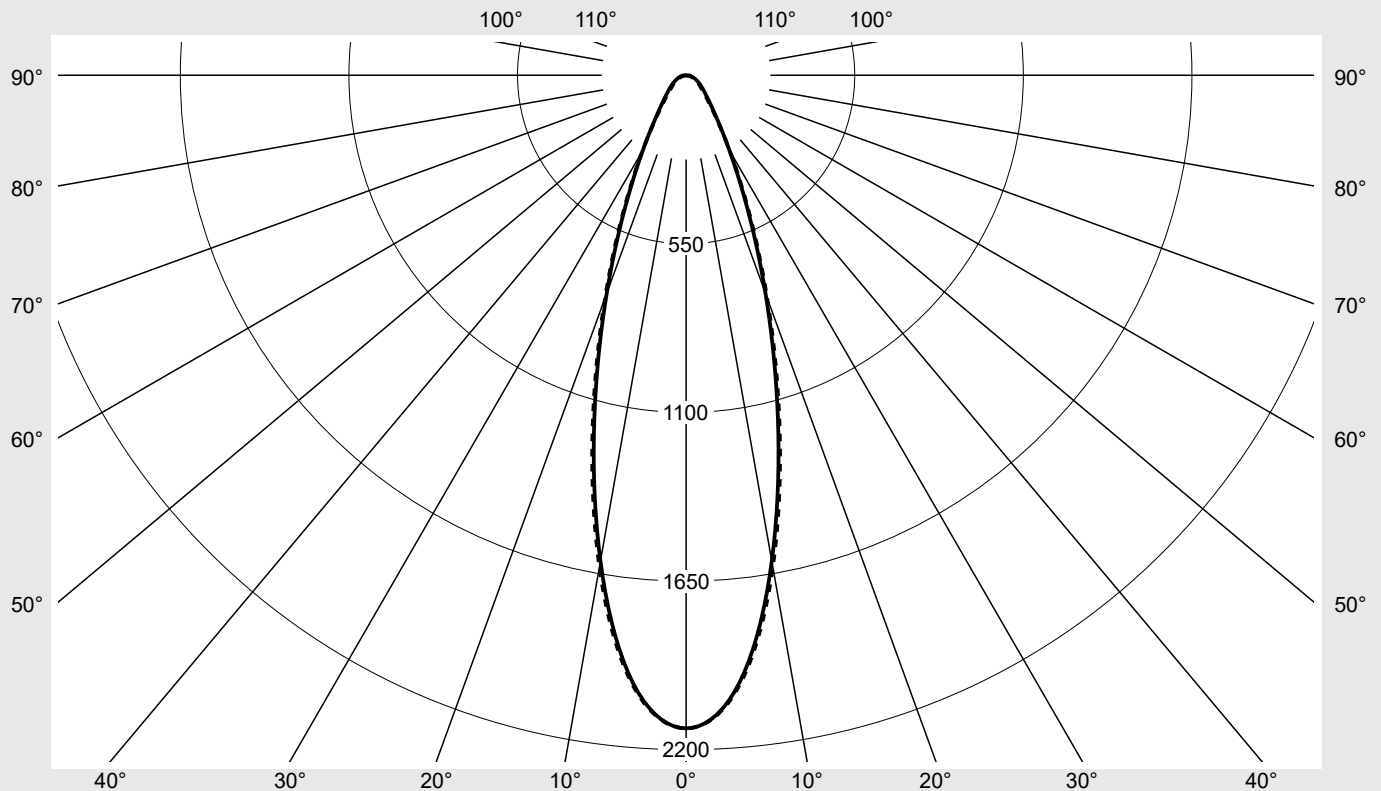
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 2130 cd/klm



#### Klassifizierungen

DIN 5040 A 7 1  
CIE N1=84 N2=94 N3=98  
N4=99 N5=100

#### Leuchtenbetriebswirkungsgrade

$\eta_{LB}$  100,0%  
 $\phi_u$  99,1%  
 $\phi_o$  0,9%

#### 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°	2130.5	2130.5	2130.5	2130.5	2130.5	2130.5	2130.5	12.7	12.7
5°	1990.0	1982.4	1972.8	1980.9	1991.5	1994.0	1997.3	94.9	107.6
10°	1609.4	1602.7	1594.9	1604.0	1616.7	1623.6	1628.9	153.3	260.9
15°	1156.5	1152.7	1146.1	1151.7	1161.7	1170.4	1176.7	164.3	425.2
20°	757.1	754.5	751.0	754.8	760.5	766.7	772.3	142.2	567.4
25°	464.1	463.3	461.4	464.7	468.5	471.4	475.4	108.1	675.5
30°	281.8	280.0	276.3	277.8	280.6	282.2	284.6	76.7	752.2
35°	178.8	175.8	169.5	168.1	169.9	172.0	174.0	54.1	806.3
40°	123.8	119.7	111.6	107.8	108.9	112.2	115.0	39.9	846.2
45°	92.5	87.9	79.0	74.1	74.5	78.8	82.8	31.1	877.3
50°	72.9	68.3	60.1	54.9	54.7	59.1	63.7	25.6	902.9
55°	58.5	54.5	47.8	42.9	42.0	45.8	50.2	21.5	924.4
60°	46.6	43.5	38.6	34.6	32.9	35.6	39.1	18.0	942.5
65°	36.7	34.5	31.1	28.0	26.1	27.3	29.5	14.9	957.4
70°	28.5	27.0	24.6	22.5	20.4	20.1	21.2	12.0	969.4
75°	21.8	20.7	19.0	17.5	15.4	14.0	14.0	9.2	978.6
80°	16.2	15.4	14.3	12.9	10.9	8.9	8.1	6.7	985.3
85°	11.7	11.2	10.3	9.1	7.1	4.7	3.5	4.6	989.8
90°	8.1	7.7	6.9	5.8	3.9	1.7	0.3	2.8	992.6
95°	6.9	6.6	5.8	4.7	3.0	1.1	0.2	2.3	994.8
100°	6.0	5.6	4.9	3.8	2.2	0.6	0.2	1.8	996.7
105°	5.1	4.8	4.0	2.9	1.5	0.3	0.2	1.4	998.1
110°	4.3	4.0	3.2	2.2	0.9	0.2	0.2	1.1	999.2
115°	3.6	3.2	2.5	1.6	0.5	0.3	0.3	0.8	1000.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	17,0	18,2	17,3	18,5	18,8	16,6	17,8	17,0	18,1	18,4
	3H	18,0	19,1	18,4	19,5	19,8	17,5	18,6	17,9	18,9	19,3
	4H	18,6	19,5	19,0	19,9	20,3	17,9	18,9	18,3	19,2	19,6
	6H	19,0	19,9	19,5	20,3	20,7	18,2	19,1	18,6	19,4	19,8
	8H	19,3	20,1	19,8	20,5	20,9	18,4	19,1	18,8	19,5	19,9
	12H	19,5	20,2	20,0	20,6	21,0	18,4	19,1	18,8	19,5	19,9
4H	2H	17,2	18,2	17,6	18,6	18,9	16,9	17,9	17,3	18,2	18,6
	3H	18,5	19,3	18,9	19,7	20,1	18,0	18,8	18,4	19,2	19,6
	4H	19,1	19,9	19,6	20,3	20,7	18,5	19,2	18,9	19,6	20,1
	6H	19,8	20,4	20,2	20,8	21,3	18,9	19,5	19,3	19,9	20,4
	8H	20,1	20,6	20,5	21,1	21,5	19,0	19,6	19,5	20,0	20,5
	12H	20,4	20,8	20,9	21,3	21,8	19,1	19,6	19,6	20,1	20,6
8H	4H	19,3	19,9	19,8	20,3	20,8	18,7	19,3	19,2	19,7	20,2
	6H	20,1	20,5	20,6	21,0	21,5	19,2	19,7	19,7	20,2	20,7
	8H	20,5	20,9	21,0	21,4	21,9	19,4	19,8	19,9	20,3	20,9
	12H	20,9	21,2	21,4	21,7	22,2	19,6	19,9	20,1	20,4	21,0
12H	4H	19,3	19,8	19,8	20,3	20,8	18,8	19,2	19,3	19,7	20,2
	6H	20,1	20,5	20,7	21,0	21,5	19,3	19,7	19,9	20,2	20,7
	8H	20,6	20,9	21,1	21,4	21,9	19,6	19,9	20,1	20,4	21,0

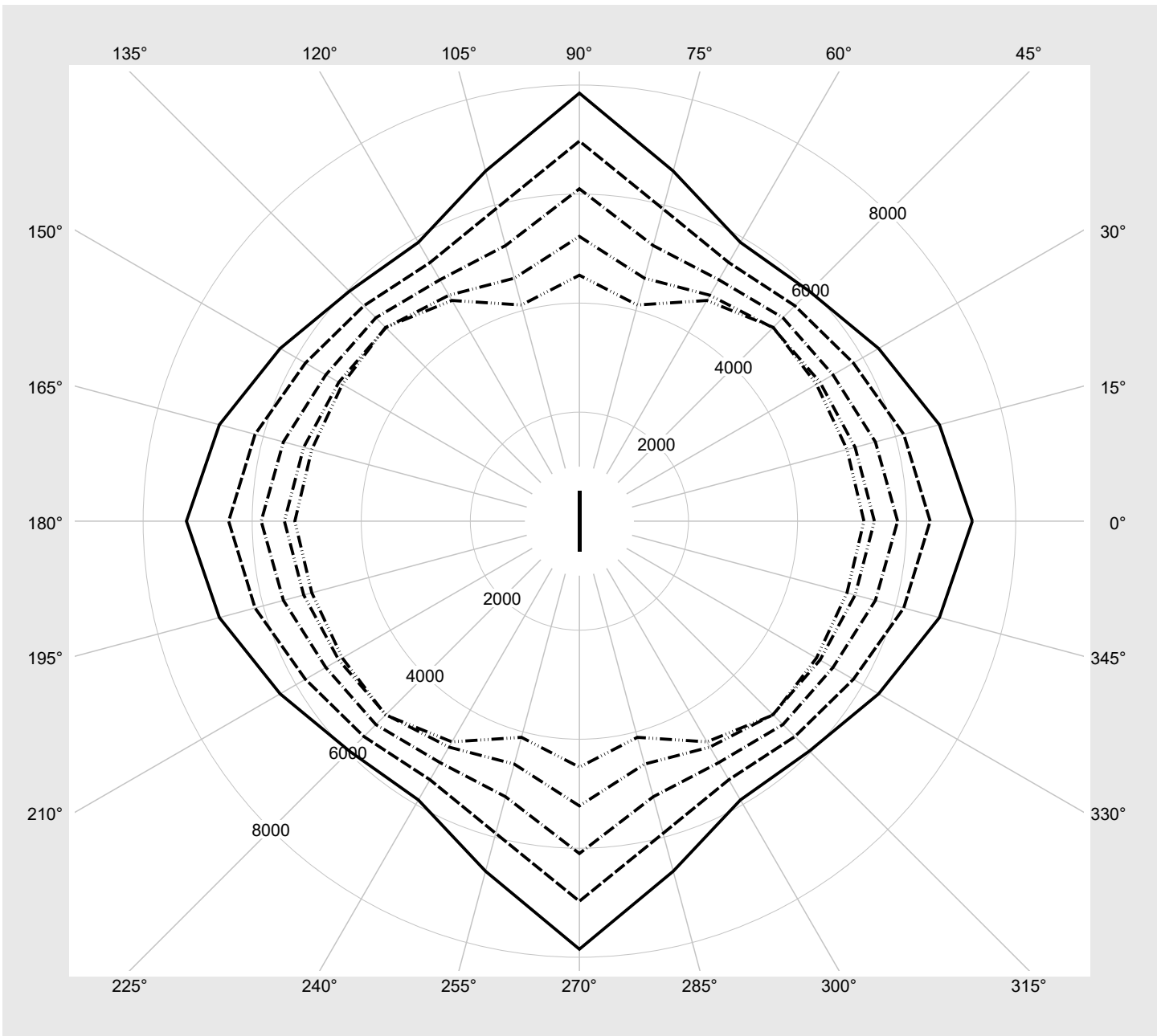
<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 1480, B = 78	H(C0) = 13, H(C90) = 0	H(C180) = 13, H(C270) = 0
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C-Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		12630.9	12051.5	10997.0	10558.7	10955.9	12033.6	13178.8	
50°		10656.3	10041.8	8989.6	8439.2	8710.2	9853.1	11152.3	
55°		9283.2	8705.6	7779.7	7212.2	7364.1	8476.6	9857.7	
60°		8152.8	7668.3	6954.8	6463.1	6483.9	7465.6	8806.3	
65°		7205.9	6834.5	6336.0	5964.3	5905.3	6648.3	7851.9	
70°		6431.7	6157.1	5801.4	5588.0	5478.1	5928.9	6972.0	
75°		5835.2	5618.9	5369.1	5277.5	5113.3	5233.6	6097.1	
80°		5409.5	5234.2	5094.8	5018.6	4785.6	4613.8	5223.1	
85°		5217.7	5079.9	5020.0	5027.3	4674.7	4105.4	4512.0	

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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	13000	73.1
95	240	252	12331	69.1
90	227	250	11701	65.3
85	214	248	11070	61.7
80	200	245	10383	57.8
75	187	243	9738	54.1
70	174	240	9088	50.5
65	161	237	8437	46.8
60	148	234	7778	43.1
55	136	231	7165	39.7
50	123	227	6500	36.2
45	110	223	5826	32.6
40	98	219	5200	29.3
35	86	214	4574	26.2
30	73	208	3888	22.6
25	61	202	3251	19.3
20	49	194	2613	16.2
15	37	183	1970	12.9
10	25	169	1324	9.5
5	13	145	676	6.3
2	5	110	240	4.4