

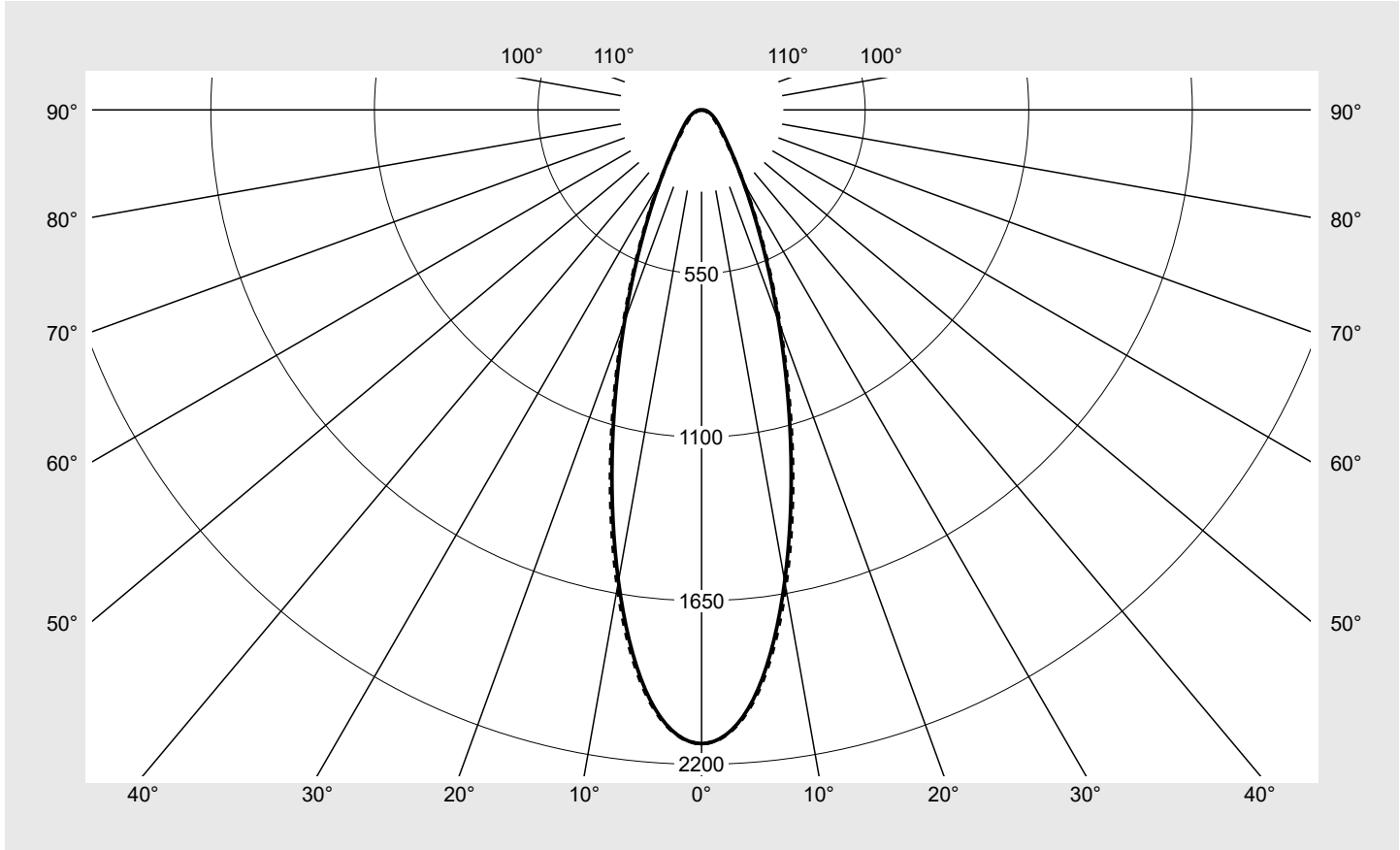


# Photometric test report

<b>Family</b> <b>Licross® Protected</b>	<b>Order number: 51TP11DN4EXRD</b> <b>EAN: 4058352418444</b>	<b>LP number</b> <b>58525_15</b>
	<b>Version</b> prismatic cover, frosted, narrow distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Setting</b> AC-mode <b>Rated values</b> Net luminous flux = 14140 lm Power consumption = 84.2 W Luminous efficacy = 167.9 lm/W	<b>serial documentation</b> <b>26.08.2020</b>
		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 2130 cd/klm**



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

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	99.1%
$\phi_o$	0.9%

**Measurement conditions**  
DIN EN 13032 and DIN 5032

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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>sITeco</b>

C-planes γ	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Luminous intensity in cd/klm								Luminous flux 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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<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
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Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	View crosswise (C0)					View endwise (C90)					
x	y										
2H	2H	17.3	18.5	17.6	18.8	19.1	16.9	18.1	17.3	18.4	18.7
	3H	18.3	19.4	18.7	19.7	20.1	17.8	18.9	18.2	19.2	19.6
	4H	18.8	19.8	19.2	20.2	20.6	18.2	19.2	18.6	19.5	19.9
	6H	19.3	20.2	19.7	20.6	21.0	18.5	19.4	18.9	19.7	20.1
	8H	19.6	20.4	20.1	20.8	21.2	18.7	19.4	19.1	19.8	20.2
	12H	19.8	20.5	20.3	20.9	21.3	18.7	19.4	19.1	19.8	20.2
4H	2H	17.5	18.5	17.9	18.9	19.2	17.2	18.2	17.6	18.5	18.9
	3H	18.8	19.6	19.2	20.0	20.4	18.3	19.1	18.7	19.5	19.9
	4H	19.4	20.2	19.9	20.6	21.0	18.8	19.5	19.2	19.9	20.4
	6H	20.1	20.7	20.5	21.1	21.6	19.2	19.8	19.6	20.2	20.7
	8H	20.4	20.9	20.8	21.4	21.8	19.3	19.9	19.8	20.3	20.8
	12H	20.7	21.1	21.1	21.6	22.1	19.4	19.9	19.9	20.3	20.8
8H	4H	19.6	20.2	20.1	20.6	21.1	19.0	19.6	19.5	20.0	20.5
	6H	20.4	20.8	20.9	21.3	21.8	19.5	20.0	20.0	20.5	21.0
	8H	20.7	21.2	21.3	21.6	22.2	19.7	20.1	20.2	20.6	21.2
	12H	21.2	21.5	21.7	22.0	22.5	19.9	20.2	20.4	20.7	21.3
12H	4H	19.6	20.1	20.1	20.6	21.1	19.1	19.5	19.6	20.0	20.5
	6H	20.4	20.8	20.9	21.3	21.8	19.6	20.0	20.1	20.5	21.0
	8H	20.9	21.2	21.4	21.7	22.2	19.9	20.2	20.4	20.7	21.3

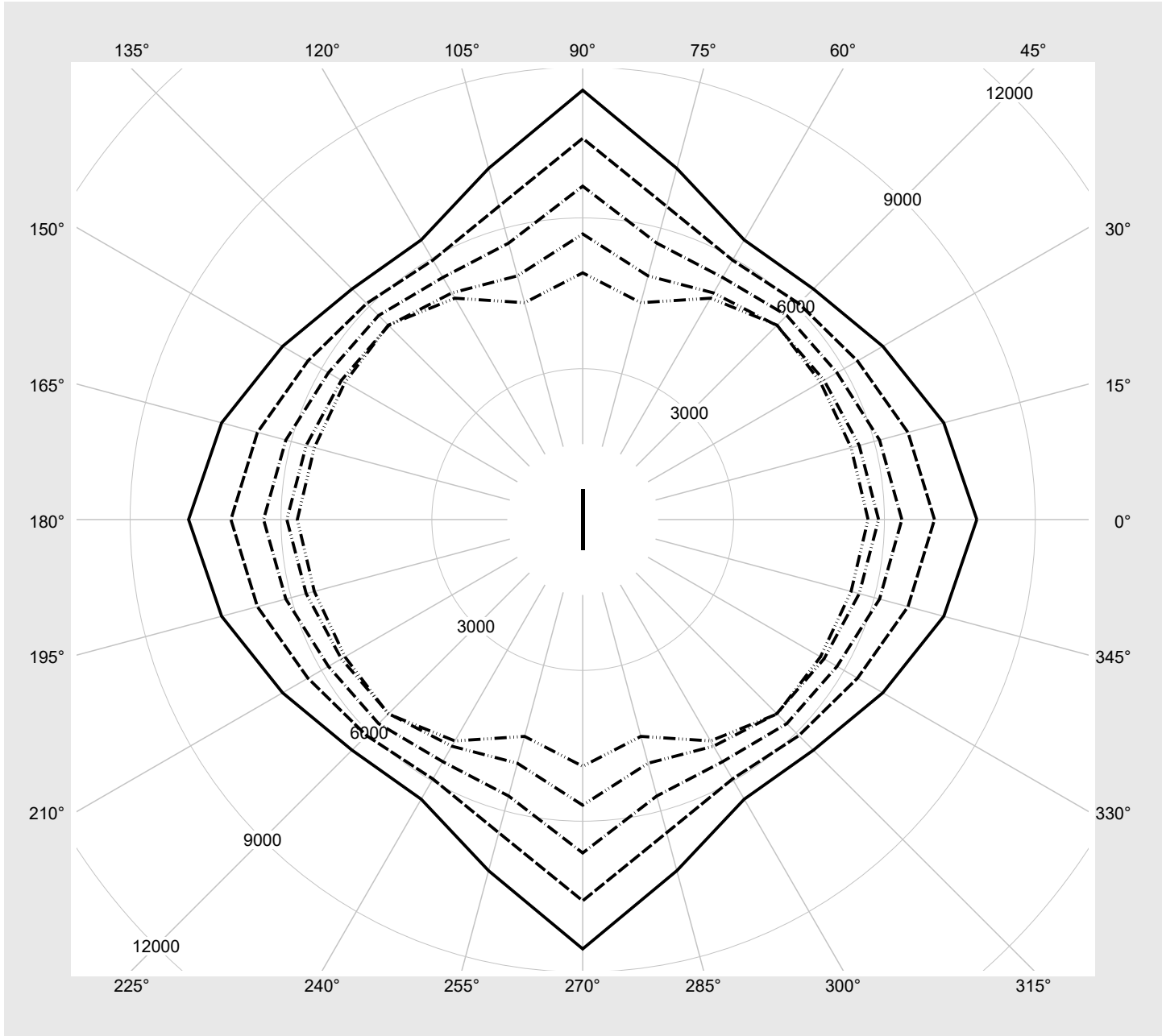
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1480</b>	<b>H(C0) = 13</b>	<b>H(C180) = 13</b>
			<b>B = 78</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

C-planes	$\gamma$	Luminance 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°		13738.5	13108.3	11961.3	11484.7	11916.6	13088.9	14334.5	
50°		11590.7	10922.4	9778.0	9179.2	9474.0	10717.1	12130.3	
55°		10097.2	9469.0	8461.9	7844.6	8009.9	9219.9	10722.2	
60°		8867.7	8340.8	7564.7	7029.9	7052.5	8120.3	9578.6	
65°		7837.8	7433.9	6891.6	6487.3	6423.1	7231.3	8540.5	
70°		6995.8	6697.0	6310.1	6078.1	5958.5	6448.8	7583.4	
75°		6346.9	6111.7	5839.9	5740.2	5561.7	5692.6	6631.7	
80°		5883.9	5693.2	5541.6	5458.7	5205.3	5018.4	5681.1	
85°		5675.2	5525.4	5460.3	5468.2	5084.6	4465.5	4907.6	

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**Luminance values in cd/m<sup>2</sup>**      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**



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<b>Dimming levels table</b>	environmental temperature: 25°C	<b>sITeco</b>
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	14140	84.2
95	241	252	13427	79.4
90	227	250	12714	74.9
85	214	248	12027	70.4
80	200	245	11286	65.7
75	187	243	10598	61.5
70	174	240	9882	57.2
65	161	237	9194	53.1
60	148	234	8478	48.9
55	135	231	7762	44.7
50	122	227	7045	40.7
45	110	223	6355	36.7
40	98	219	5665	32.8
35	85	214	4949	29.0
30	73	208	4259	25.1
25	60	201	3510	21.3
20	49	194	2848	17.6
15	36	182	2099	13.6
10	25	169	1438	10.5
5	13	145	747	6.8