

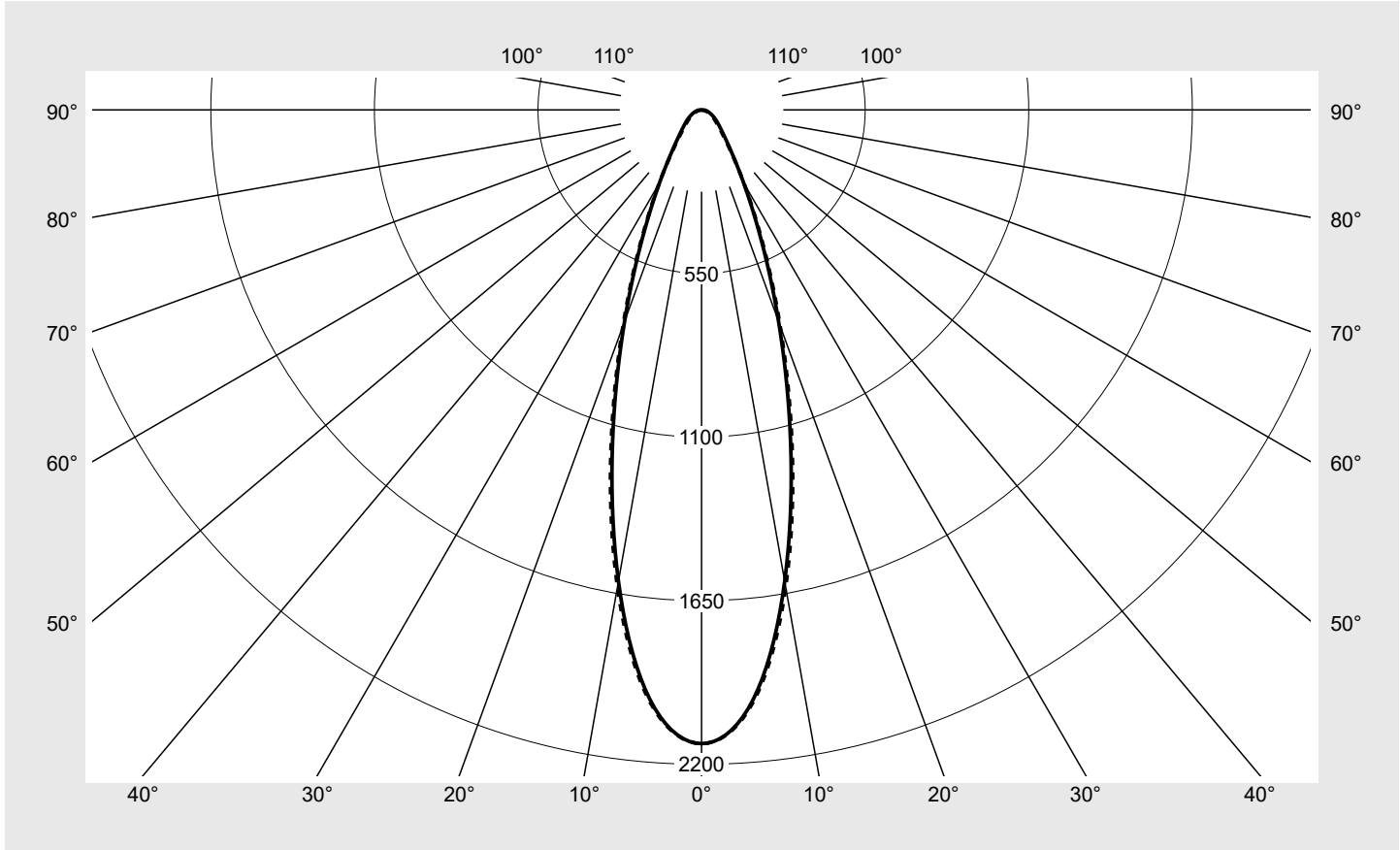
# Photometric test report

<b>Family</b> <b>Licross® Protected</b>	<b>Order number: 51TS11VN4DXR</b> <b>EAN: 4058352534762</b>	<b>LP number</b> <b>58525_46</b>
	<b>Version</b> prismatic cover, frosted, narrow distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI CLO <b>Rated values</b> Net luminous flux = 13190 lm Power consumption = 77.9 W Luminous efficacy = 169.3 lm/W	<b>serial documentation</b> <b>02.08.2021</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 $\gamma$	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	17.0	18.2	17.4	18.5	18.9	16.7	17.9	17.0	18.2	18.5
	3H	18.1	19.2	18.5	19.5	19.9	17.6	18.6	18.0	19.0	19.3
	4H	18.6	19.6	19.0	19.9	20.3	18.0	18.9	18.4	19.3	19.7
	6H	19.1	20.0	19.5	20.3	20.7	18.2	19.1	18.7	19.5	19.9
	8H	19.4	20.1	19.8	20.5	20.9	18.4	19.2	18.8	19.6	20.0
	12H	19.6	20.3	20.0	20.7	21.1	18.5	19.2	18.9	19.6	20.0
4H	2H	17.3	18.3	17.7	18.6	19.0	17.0	17.9	17.4	18.3	18.7
	3H	18.6	19.4	19.0	19.8	20.2	18.0	18.9	18.5	19.3	19.7
	4H	19.2	19.9	19.6	20.3	20.8	18.5	19.3	19.0	19.7	20.1
	6H	19.8	20.4	20.3	20.9	21.3	18.9	19.5	19.4	20.0	20.4
	8H	20.1	20.7	20.6	21.1	21.6	19.1	19.6	19.5	20.1	20.5
	12H	20.4	20.9	20.9	21.3	21.8	19.2	19.6	19.7	20.1	20.6
8H	4H	19.4	19.9	19.9	20.4	20.9	18.8	19.3	19.3	19.8	20.3
	6H	20.1	20.6	20.6	21.1	21.6	19.3	19.7	19.8	20.2	20.7
	8H	20.5	20.9	21.0	21.4	21.9	19.5	19.9	20.0	20.4	20.9
	12H	20.9	21.2	21.4	21.8	22.3	19.7	20.0	20.2	20.5	21.0
12H	4H	19.4	19.9	19.9	20.3	20.8	18.8	19.3	19.3	19.8	20.3
	6H	20.2	20.6	20.7	21.1	21.6	19.4	19.8	19.9	20.3	20.8
	8H	20.6	20.9	21.1	21.5	22.0	19.6	20.0	20.2	20.5	21.0

<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°		12815.5	12227.6	11157.7	10713.1	11116.0	12209.5	13371.4	
50°		10812.0	10188.6	9121.0	8562.5	8837.5	9997.1	11315.3	
55°		9418.9	8832.8	7893.4	7317.6	7471.7	8600.5	10001.8	
60°		8272.0	7780.4	7056.4	6557.6	6578.7	7574.7	8935.0	
65°		7311.2	6934.4	6428.6	6051.5	5991.6	6745.4	7966.7	
70°		6525.7	6247.1	5886.2	5669.7	5558.1	6015.6	7073.9	
75°		5920.5	5701.1	5447.6	5354.6	5188.1	5310.1	6186.2	
80°		5488.6	5310.7	5169.2	5092.0	4855.6	4681.3	5299.4	
85°		5294.0	5154.1	5093.4	5100.8	4743.0	4165.5	4577.9	

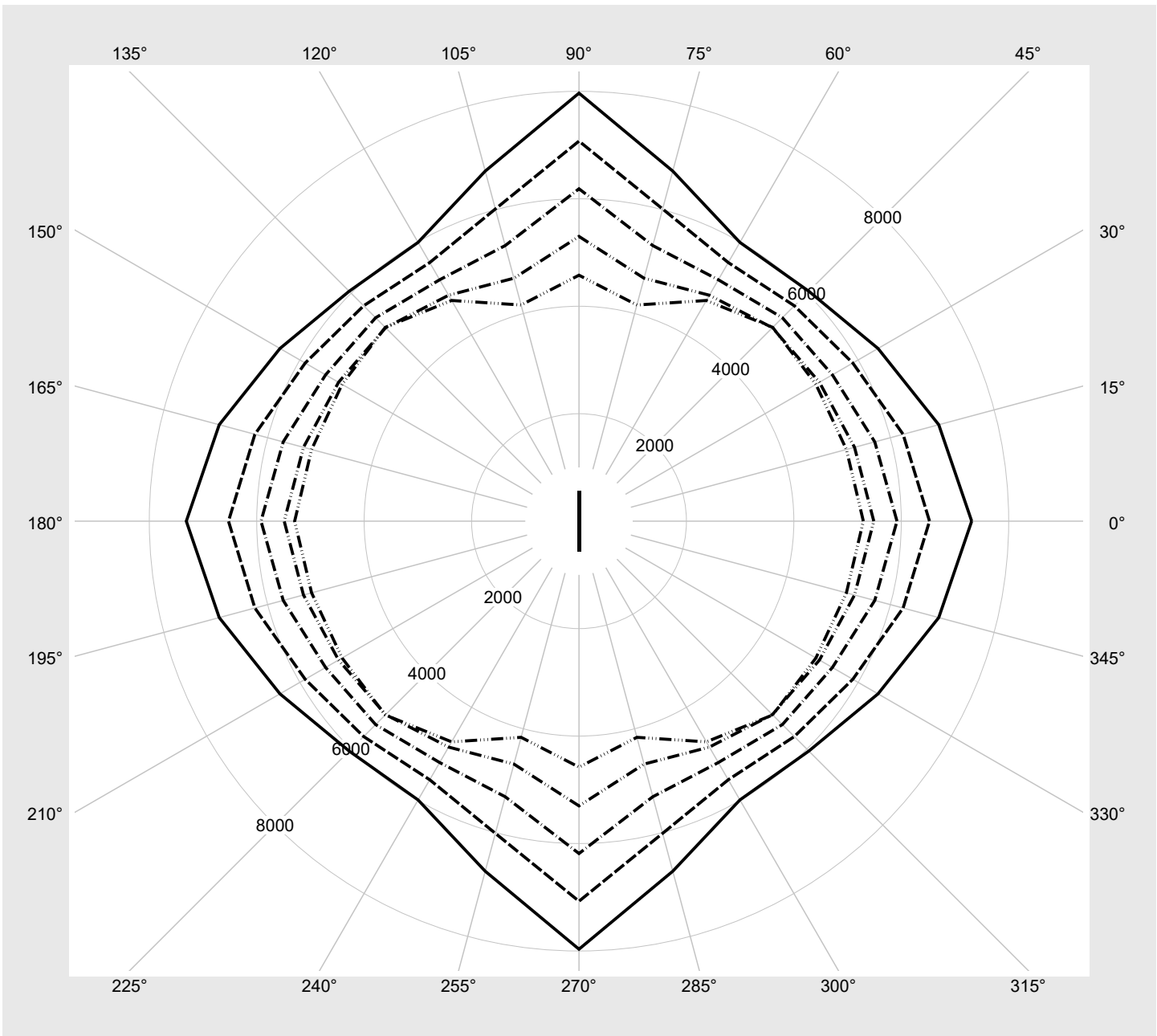
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**Family**  
Licross® Protected

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**EAN: 4058352534762**

**LP number**  
**58525\_46**

**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] start of lifetime	Power consumption [W] end of lifetime	Power consumption [W] average
100	254	254	13190	77.9	84.2	81.1
95	240	252	12518	73.5	79.5	76.5
90	227	250	11887	69.5	75.2	72.4
85	213	248	11198	65.3	70.4	67.8
80	200	245	10556	61.3	66.2	63.8
75	187	243	9906	57.3	61.9	59.6
70	174	240	9251	53.4	57.6	55.5
65	161	237	8590	49.5	53.4	51.4
60	148	234	7920	45.6	49.1	47.4
55	135	231	7247	41.8	45.0	43.4
50	122	227	6572	38.0	40.8	39.4
45	110	223	5937	34.4	37.0	35.7
40	97	219	5250	30.6	32.8	31.7
35	85	214	4610	27.1	29.1	28.1
30	73	208	3962	23.6	25.3	24.5
25	61	202	3313	20.2	21.6	20.9
20	49	194	2656	16.7	17.8	17.2
15	37	183	1995	13.2	14.1	13.6
10	25	169	1333	10.0	10.5	10.2
5	13	145	673	6.5	6.8	6.6
2	6	117	294	4.5	4.6	4.6