



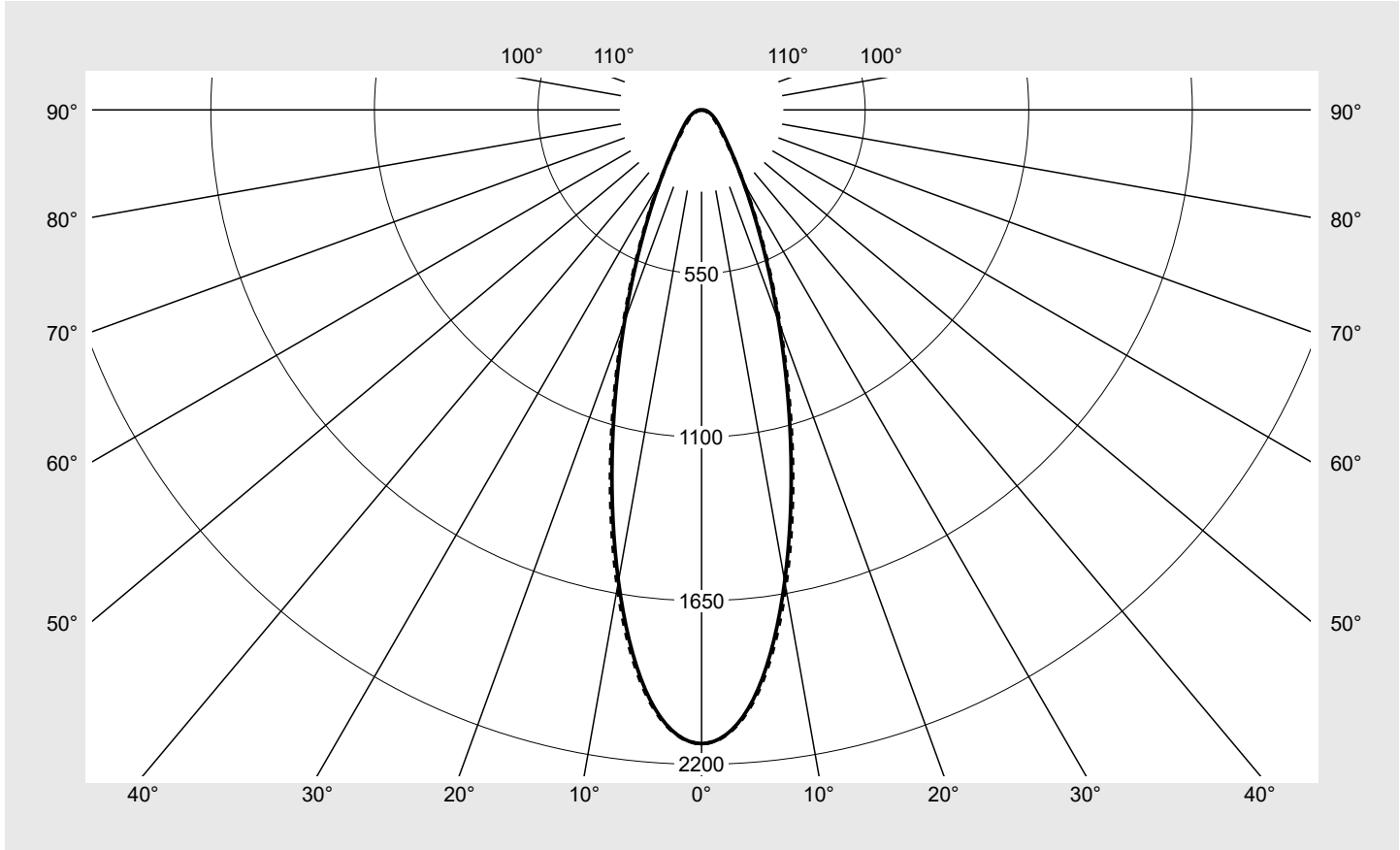
Photometric test report

Family Licross® Protected	Order number: 51TP11DN4EXR EAN: 4058352210512	LP number 58525_10
	Version prismatic cover, frosted, narrow distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 14140 lm Power consumption = 84.2 W Luminous efficacy = 167.9 lm/W	serial documentation 12.12.2019





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	
η_{LB}	100.0%
ϕ_u	99.1%
ϕ_o	0.9%

Measurement conditions
 DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
		sITeco

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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UGR-Table	Standard room	siteco
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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

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

C-planes	γ	Luminance in cd/m ²							
		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	

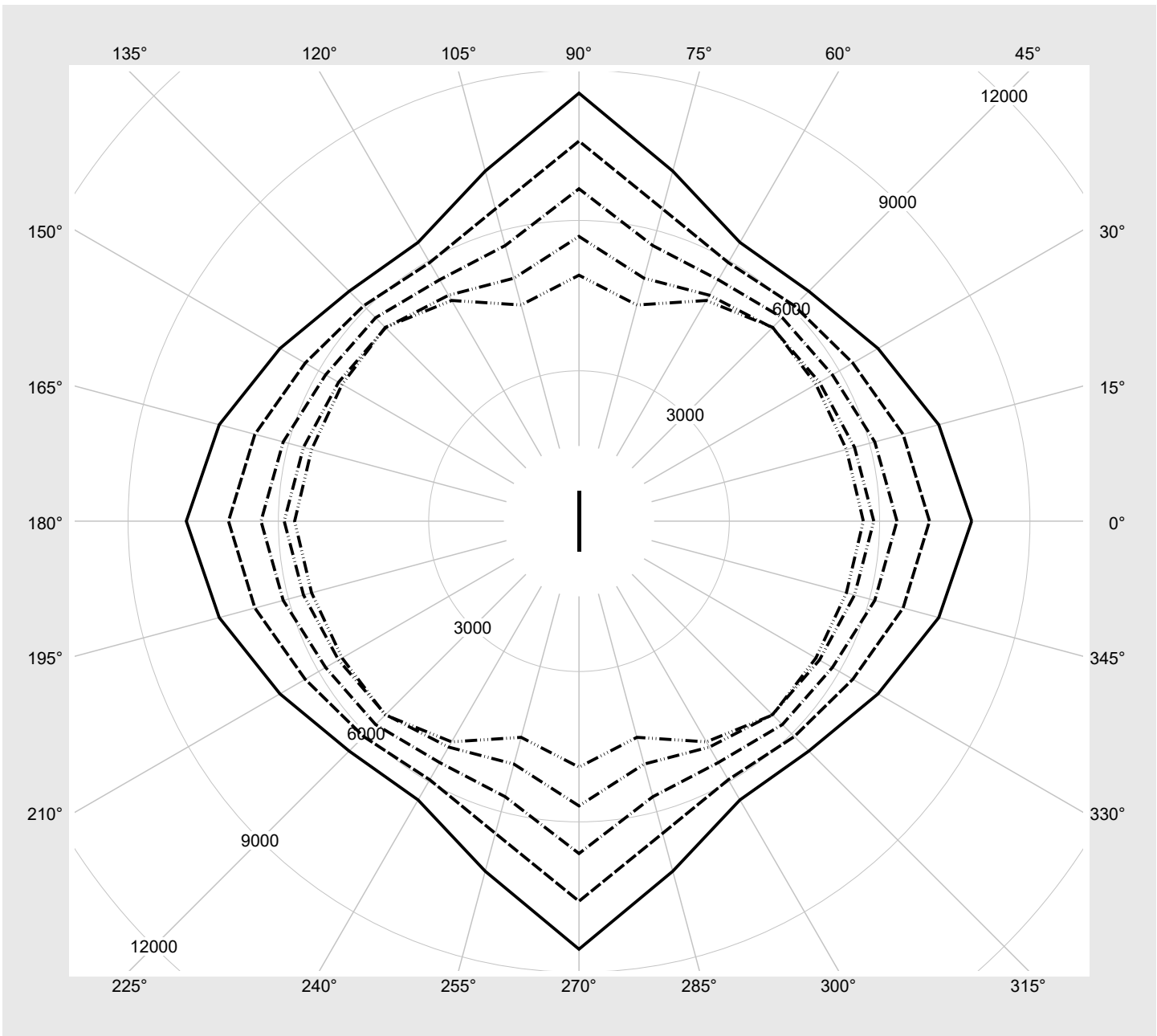
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Family
Licross® Protected

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EAN: 4058352210512

LP number
58525_10

Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



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Dimming levels table	environmental temperature: 25°C	sITeco
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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	240	252	13435	79.5
90	226	250	12728	75.0
85	213	248	12021	70.4
80	199	245	11314	65.9
75	186	243	10607	61.6
70	173	240	9899	57.3
65	160	237	9192	53.1
60	147	234	8485	48.9
55	134	231	7778	44.8
50	122	227	7071	40.8
45	109	223	6364	36.8
40	97	219	5657	32.8
35	84	214	4950	29.0
30	72	208	4243	25.0
25	60	201	3536	21.4
20	48	193	2828	17.5
15	36	183	2121	13.7
10	24	168	1414	10.4
5	12	143	707	6.6