

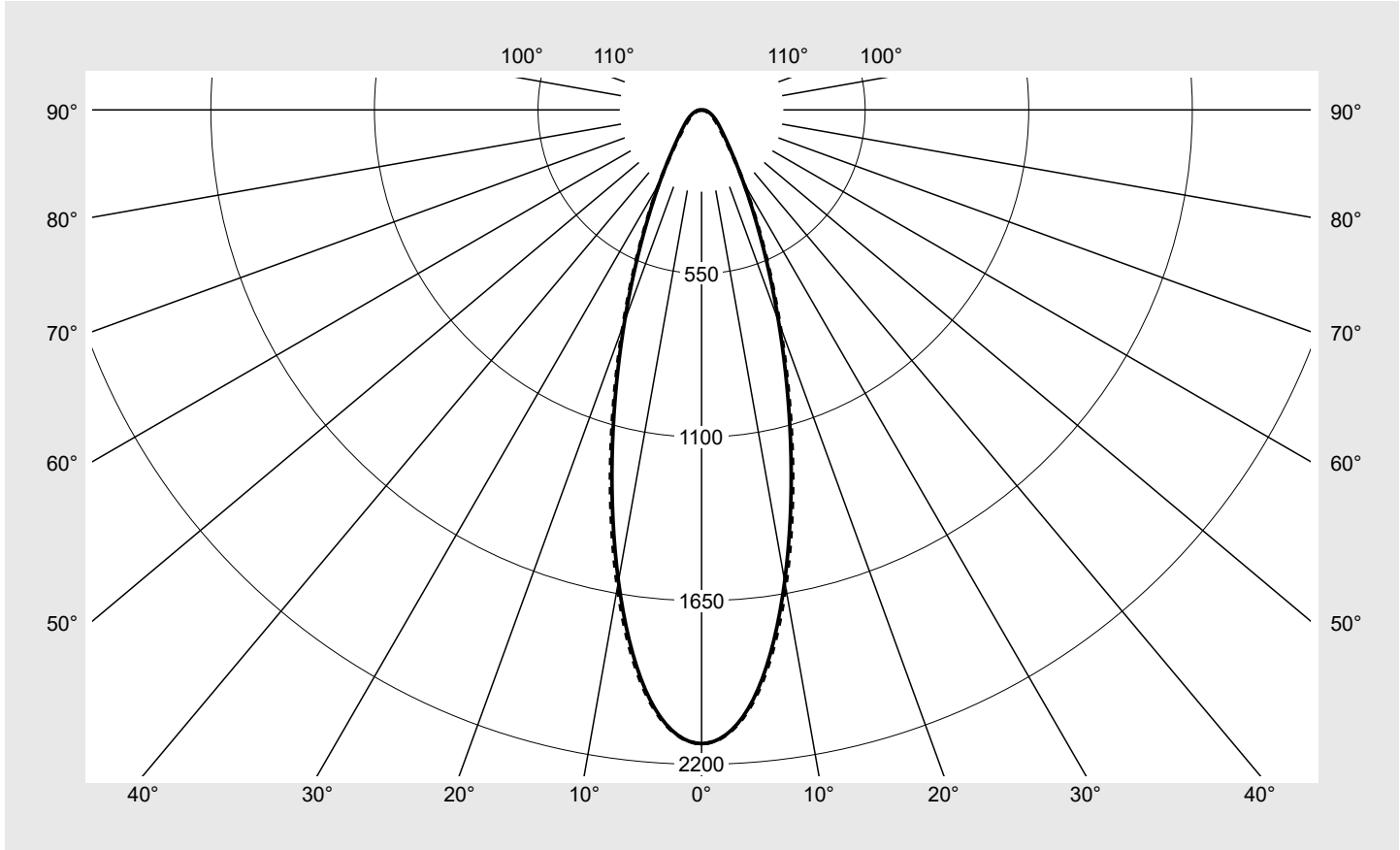


Photometric test report

Family Licross® 21 Protected	Order number: 52TD11DN4DXS EAN: 4058352902639	LP number 58525_148
	Version prismatic cover, frosted, narrow distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 13000 lm Power consumption = 73.1 W Luminous efficacy = 177.8 lm/W	serial documentation 03.08.2023
		

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	17.0	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

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°		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	

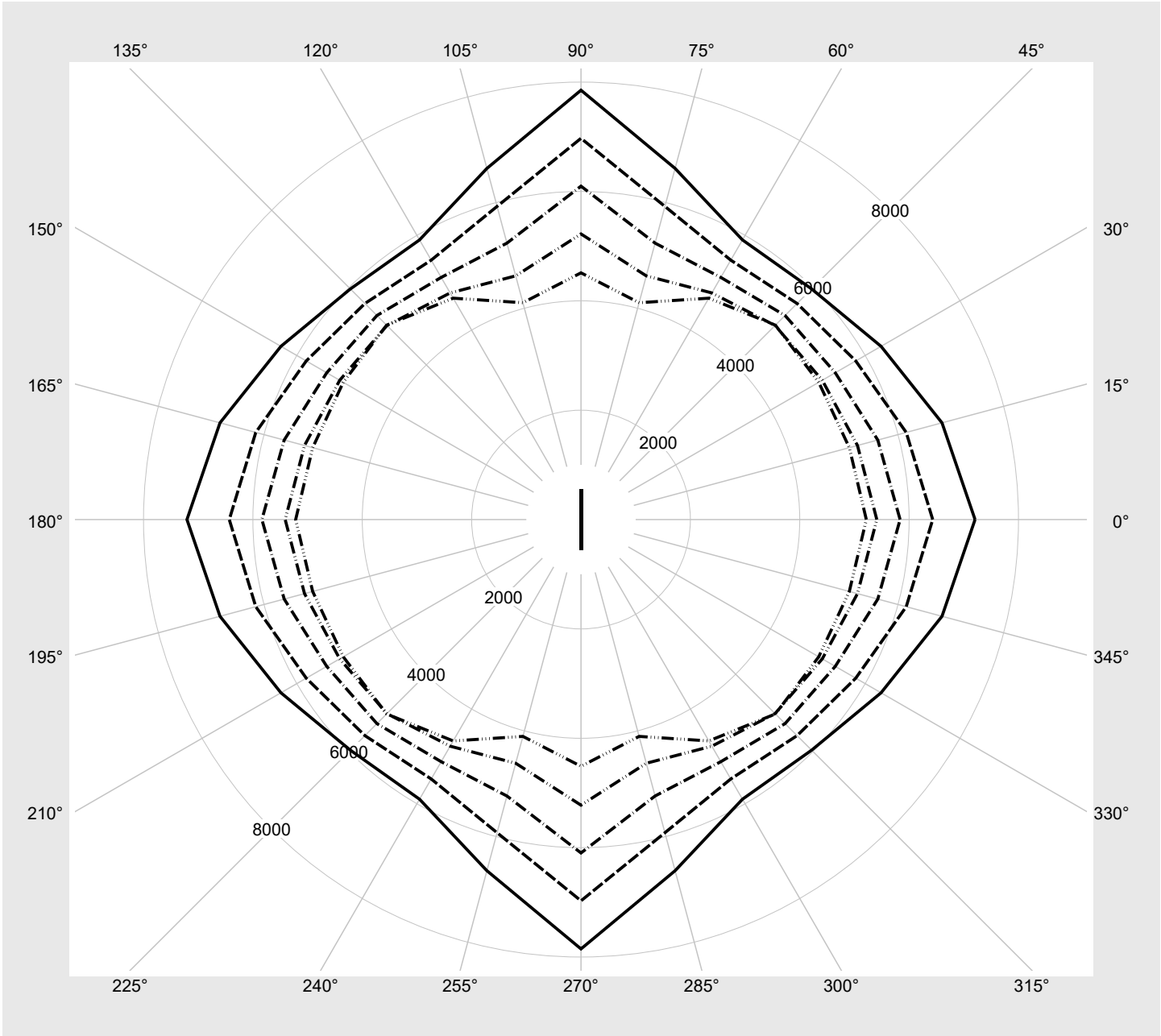
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Family
Licross® 21 Protected

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LP number
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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°



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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	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