

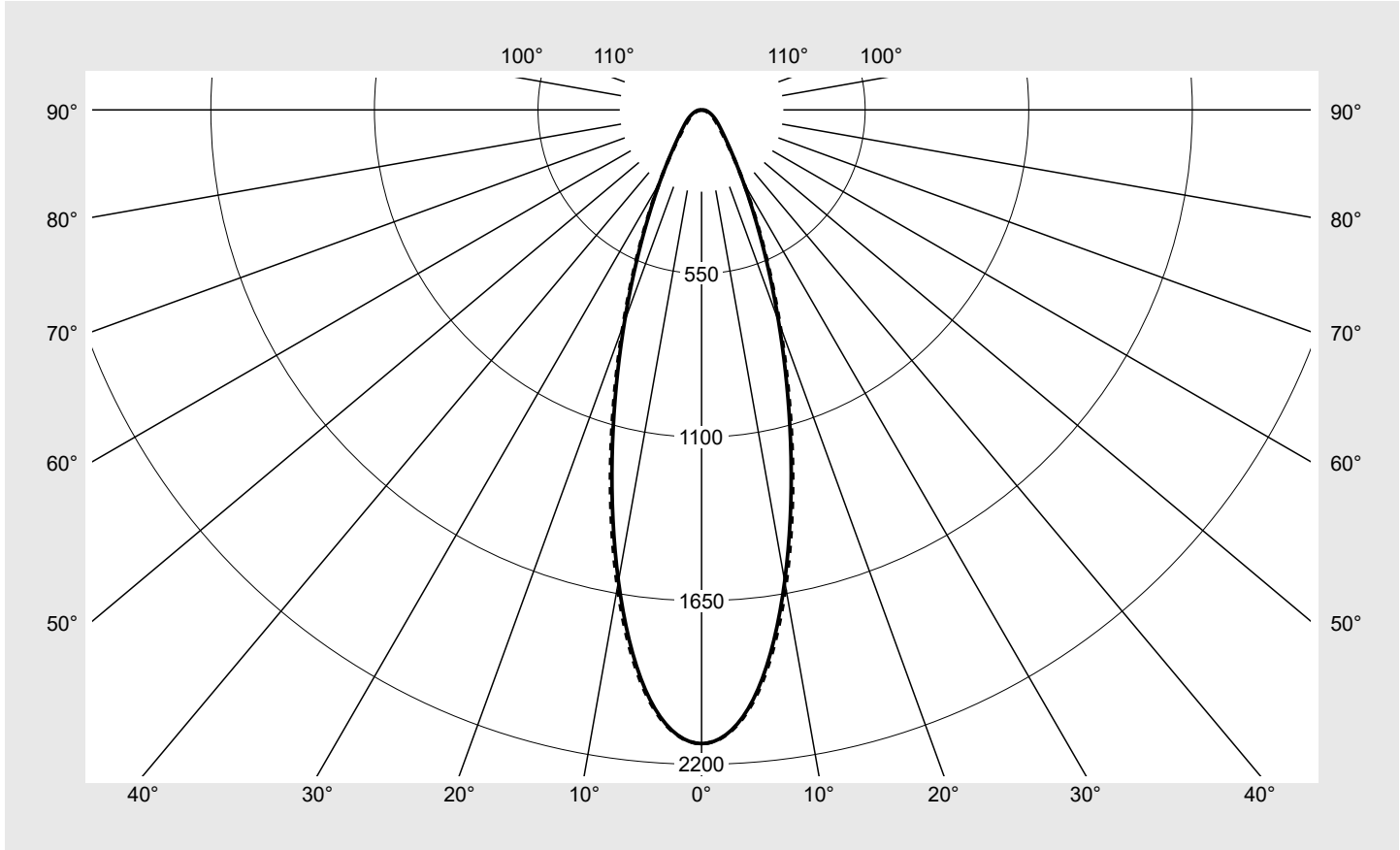


Photometric test report

Family Licross® 21 Protected	Order number: 52TP11DN4E5S EAN: 4058352903766	LP number 58525_149
	Version prismatic cover, frosted, narrow distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 14920 lm Power consumption = 84.9 W Luminous efficacy = 175.7 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	17.4	18.7	17.8	19.0	19.3	17.1	18.3	17.4	18.6	18.9
	3H	18.5	19.6	18.9	19.9	20.3	18.0	19.1	18.4	19.4	19.8
	4H	19.0	20.0	19.4	20.4	20.7	18.4	19.4	18.8	19.7	20.1
	6H	19.5	20.4	19.9	20.8	21.2	18.7	19.6	19.1	19.9	20.3
	8H	19.8	20.6	20.2	20.9	21.4	18.8	19.6	19.3	20.0	20.4
	12H	20.0	20.7	20.4	21.1	21.5	18.9	19.6	19.3	20.0	20.4
4H	2H	17.7	18.7	18.1	19.0	19.4	17.4	18.4	17.8	18.7	19.1
	3H	19.0	19.8	19.4	20.2	20.6	18.5	19.3	18.9	19.7	20.1
	4H	19.6	20.4	20.1	20.8	21.2	19.0	19.7	19.4	20.1	20.5
	6H	20.2	20.9	20.7	21.3	21.8	19.3	20.0	19.8	20.4	20.9
	8H	20.5	21.1	21.0	21.5	22.0	19.5	20.0	20.0	20.5	21.0
	12H	20.8	21.3	21.3	21.8	22.3	19.6	20.1	20.1	20.5	21.0
8H	4H	19.8	20.4	20.3	20.8	21.3	19.2	19.8	19.7	20.2	20.7
	6H	20.6	21.0	21.1	21.5	22.0	19.7	20.2	20.2	20.6	21.2
	8H	20.9	21.3	21.4	21.8	22.4	19.9	20.3	20.4	20.8	21.3
	12H	21.3	21.7	21.9	22.2	22.7	20.1	20.4	20.6	20.9	21.5
12H	4H	19.8	20.3	20.3	20.8	21.3	19.3	19.7	19.8	20.2	20.7
	6H	20.6	21.0	21.1	21.5	22.0	19.8	20.2	20.3	20.7	21.2
	8H	21.0	21.4	21.6	21.9	22.4	20.1	20.4	20.6	20.9	21.4

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

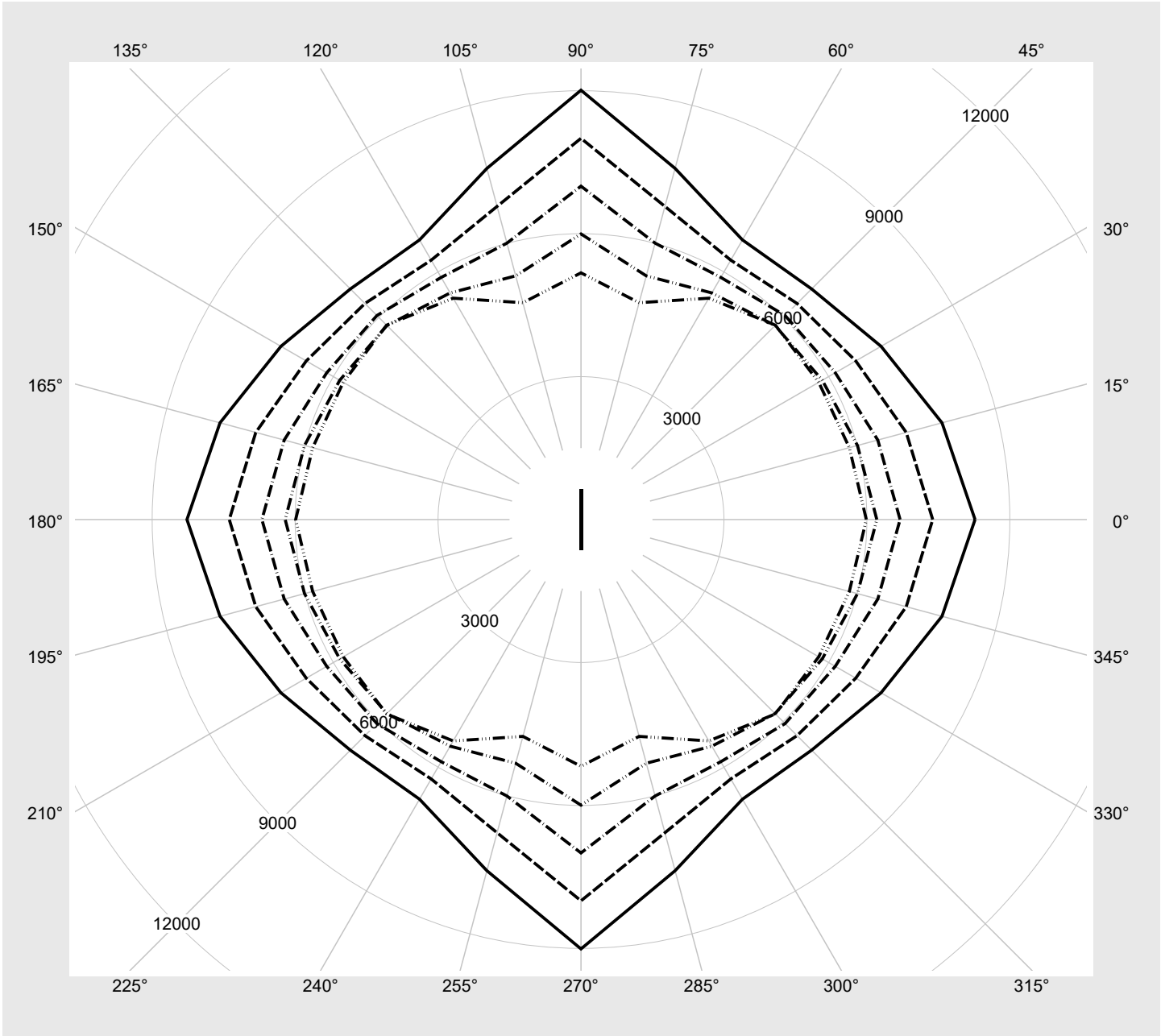
C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		14496.3	13831.4	12621.2	12118.2	12574.0	13810.9	15125.2	
50°		12230.1	11524.9	10317.3	9685.6	9996.6	11308.3	12799.4	
55°		10654.2	9991.3	8928.7	8277.4	8451.7	9728.5	11313.7	
60°		9356.9	8800.9	7981.9	7417.7	7441.6	8568.2	10106.9	
65°		8270.1	7843.9	7271.7	6845.2	6777.4	7630.2	9011.6	
70°		7381.7	7066.4	6658.2	6413.4	6287.2	6804.6	8001.7	
75°		6697.0	6448.8	6162.1	6056.9	5868.5	6006.6	6997.6	
80°		6208.5	6007.2	5847.2	5759.8	5492.4	5295.3	5994.5	
85°		5988.3	5830.2	5761.5	5769.8	5365.1	4711.8	5178.3	

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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	14920	84.9
95	240	252	14163	80.1
90	227	250	13452	75.8
85	213	248	12679	71.1
80	200	245	11955	66.8
75	186	243	11165	62.2
70	173	240	10424	58.0
65	160	237	9676	53.7
60	148	234	8980	49.8
55	135	231	8220	45.5
50	122	227	7455	41.4
45	110	223	6741	37.5
40	97	219	5961	33.3
35	85	214	5236	29.5
30	72	208	4446	25.5
25	60	201	3711	21.6
20	48	193	2971	17.9
15	36	182	2226	14.1
10	24	168	1480	10.3
5	12	142	726	6.6
1	4	102	221	4.3