

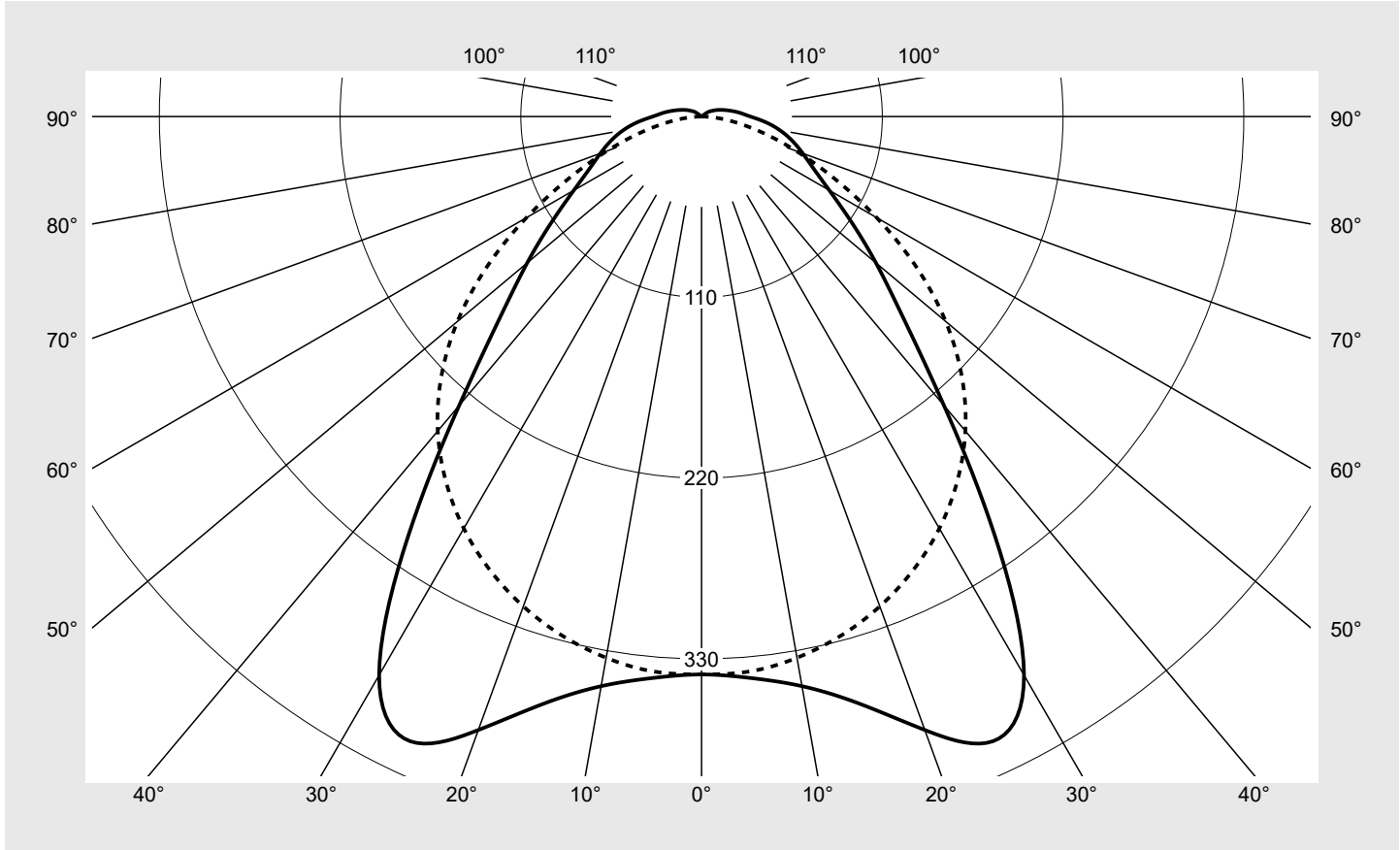


Photometric test report

Family Licross® 11 Protected	Order number: 51TD1BDN4E5M3C EAN: 4058352938522	LP number 58521_170
	Version prismatic cover, frosted, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Setting AC-mode	serial documentation 29.09.2023
	Rated values Net luminous flux = 14500 lm Power consumption = 91.1 W Luminous efficacy = 159.2 lm/W	

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 419 cd/klm**



Classifications	
DIN 5040	A 4 1
CIE	N1=54 N2=82 N3=95 N4=97 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	96.8%
ϕ_o	3.2%

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°	15°	30°	45°	60°	75°	90°	Phi-zone	Total Phi-zone
	180°	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°	339.5	339.5	339.5	339.5	339.5	339.5	339.5	2.0	2.0
5°	343.0	342.0	339.2	339.3	339.7	338.8	338.9	16.2	18.3
10°	352.0	350.9	345.1	341.6	338.4	335.1	334.4	32.6	50.9
15°	369.7	367.9	356.8	346.8	337.2	329.4	327.1	49.3	100.2
20°	397.2	393.9	374.9	354.6	335.9	321.8	317.2	66.8	167.0
25°	419.5	416.9	395.3	365.3	334.4	312.1	304.6	84.4	251.4
30°	392.5	397.1	392.3	370.7	332.1	300.1	289.4	97.4	348.9
35°	311.0	322.2	341.8	350.7	323.8	285.3	271.2	100.3	449.2
40°	229.5	240.6	267.7	298.9	299.5	266.8	249.8	94.7	543.9
45°	174.0	182.0	204.5	237.4	256.3	239.9	224.1	85.2	629.1
50°	138.5	144.4	161.2	187.1	207.0	203.8	193.9	74.9	704.0
55°	110.9	115.6	129.9	149.5	163.4	162.9	159.6	64.1	768.1
60°	89.8	92.9	103.5	120.2	127.5	124.1	123.1	53.4	821.5
65°	75.3	77.0	82.7	94.9	98.6	91.3	89.2	43.6	865.1
70°	65.6	65.8	66.8	73.1	74.5	64.6	61.3	35.1	900.1
75°	57.2	56.6	54.5	55.3	53.6	43.2	39.2	27.5	927.6
80°	48.6	47.5	44.1	40.6	36.2	26.8	21.9	20.7	948.4
85°	39.1	38.1	34.6	29.4	22.8	14.4	9.2	14.9	963.2
90°	29.7	28.9	25.8	20.2	13.1	5.9	0.8	10.0	973.2
95°	24.0	23.5	21.5	16.6	10.0	3.6	0.7	8.0	981.2
100°	19.1	18.8	17.3	13.3	7.4	1.9	0.7	6.2	987.3
105°	15.1	14.8	13.5	10.2	5.0	0.8	0.6	4.6	991.9
110°	11.8	11.4	10.2	7.3	2.9	0.6	0.6	3.3	995.3
115°	9.1	8.6	7.4	4.7	1.4	0.7	0.7	2.3	997.5
120°	6.7	6.2	4.9	2.7	0.8	0.7	0.8	1.5	999.1
125°	4.5	4.0	2.9	1.3	0.8	0.8	0.8	0.9	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	22.4	24.1	22.8	24.4	24.7	24.3	25.9	24.7	26.2	26.6
	3H	23.6	25.1	24.0	25.5	25.8	25.3	26.8	25.7	27.1	27.5
	4H	24.3	25.7	24.7	26.1	26.5	25.7	27.1	26.1	27.4	27.8
	6H	25.1	26.4	25.5	26.8	27.1	25.9	27.2	26.3	27.6	28.0
	8H	25.5	26.7	25.9	27.1	27.5	26.0	27.2	26.5	27.6	28.0
	12H	25.9	27.0	26.3	27.4	27.8	26.1	27.2	26.5	27.6	28.0
4H	2H	23.3	24.7	23.7	25.0	25.4	24.7	26.1	25.1	26.5	26.9
	3H	24.7	25.8	25.1	26.2	26.6	26.0	27.2	26.4	27.6	28.0
	4H	25.5	26.6	25.9	27.0	27.4	26.5	27.6	27.0	28.0	28.4
	6H	26.4	27.3	26.9	27.8	28.2	26.9	27.8	27.3	28.2	28.7
	8H	26.9	27.7	27.3	28.2	28.6	27.0	27.9	27.5	28.3	28.8
	12H	27.4	28.1	27.8	28.6	29.1	27.1	27.9	27.6	28.3	28.8
8H	4H	25.9	26.8	26.4	27.2	27.7	26.8	27.7	27.3	28.1	28.6
	6H	27.0	27.7	27.5	28.2	28.7	27.3	28.0	27.8	28.5	29.0
	8H	27.6	28.2	28.1	28.7	29.2	27.5	28.2	28.0	28.7	29.2
	12H	28.2	28.8	28.7	29.3	29.8	27.7	28.2	28.2	28.7	29.3
12H	4H	26.0	26.7	26.5	27.2	27.7	26.9	27.6	27.3	28.1	28.6
	6H	27.1	27.7	27.6	28.2	28.7	27.5	28.1	28.0	28.6	29.1
	8H	27.8	28.3	28.3	28.8	29.3	27.7	28.3	28.2	28.8	29.3

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

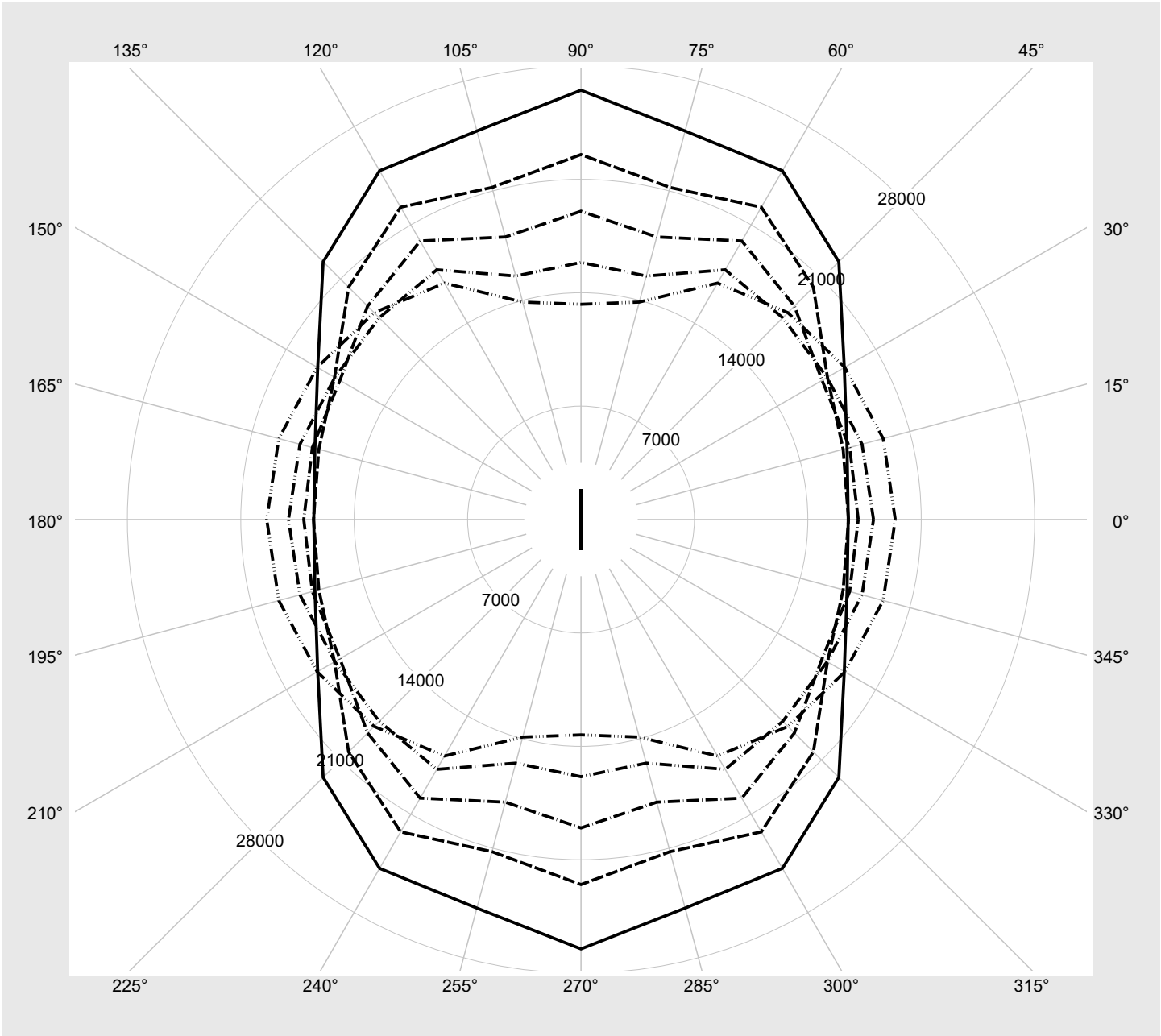
C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		26492.1	27839.9	31750.4	37725.6	42029.5	40849.0	39802.5	
50°		22586.1	23678.1	26882.5	32050.4	36797.7	37879.5	37889.6	
55°		19610.0	20580.6	23586.9	28018.4	31971.9	33608.8	34941.9	
60°		17499.5	18247.9	20803.6	25069.4	27992.1	29018.5	30915.5	
65°		16494.8	17001.6	18765.4	22506.9	24863.1	24831.1	26503.4	
70°		16512.3	16752.3	17565.3	20285.3	22262.2	21223.3	22529.6	
75°		17112.8	17167.8	17182.3	18629.2	19855.6	18057.7	19034.7	
80°		18054.7	17959.0	17545.9	17614.3	17802.4	15564.7	15871.5	
85°		19397.5	19311.0	18799.3	18060.0	16853.4	13898.7	13290.5	

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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	14500	91.1
95	240	252	13769	86.2
90	226	250	13027	81.3
85	213	248	12330	76.7
80	200	245	11625	72.1
75	186	243	10860	67.4
70	173	240	10143	62.9
65	160	237	9422	58.5
60	147	234	8695	54.0
55	134	231	7958	49.7
50	122	227	7274	45.7
45	109	223	6528	41.5
40	96	218	5774	37.2
35	84	213	5071	33.2
30	72	208	4362	29.5
25	60	201	3647	25.6
20	48	193	2924	21.7
15	36	182	2198	17.8
10	24	168	1465	13.9
5	12	142	727	10.2
2	4	102	231	7.8