

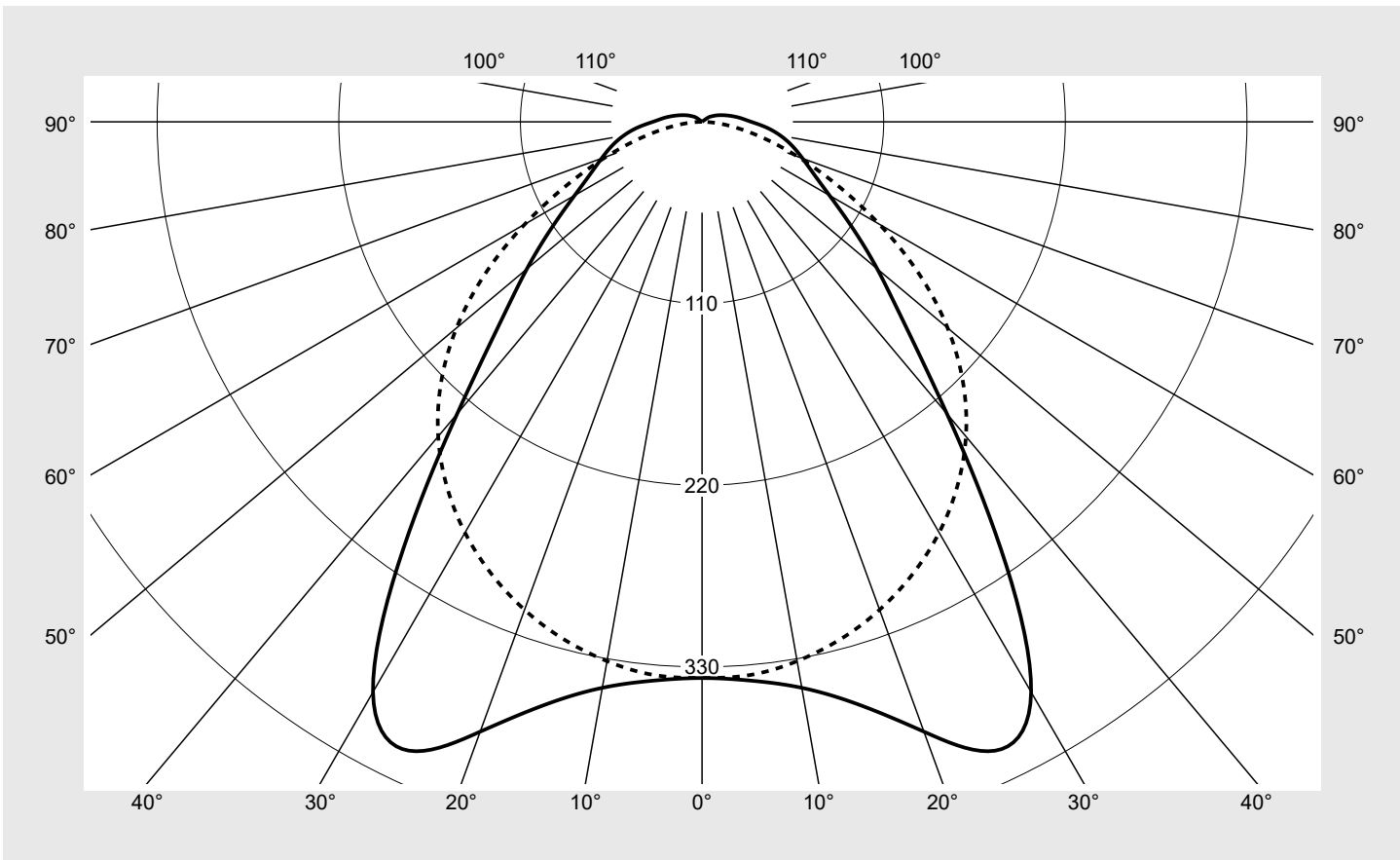


Photometric test report

Family Licross® 21 Protected	Order number: 52TD1BDN4AXG EAN: 4058352903285	LP number 58522_229
	Version prismatic cover, frosted, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 10050 lm Power consumption = 62.0 W Luminous efficacy = 162.1 lm/W	serial documentation 03.08.2023
		

Luminous intensity in cd/klm **C180-0** **C270-90** **Imax: 420 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° 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°	336.7	336.7	336.7	336.7	336.7	336.7	336.7	2.0	2.0
5°	339.6	338.6	335.9	336.3	336.9	336.0	336.1	16.1	18.1
10°	347.9	347.0	341.3	338.0	335.2	332.1	331.5	32.3	50.4
15°	365.1	363.4	352.6	343.0	333.9	326.3	324.2	48.8	99.2
20°	392.9	389.6	370.2	350.5	332.5	318.7	314.4	66.1	165.3
25°	420.1	417.2	393.2	361.7	330.8	309.3	301.9	83.9	249.2
30°	398.6	403.0	395.6	369.9	329.0	297.6	287.2	97.7	346.8
35°	315.4	327.2	346.9	353.5	322.7	283.2	269.5	100.9	447.7
40°	230.7	242.3	270.7	302.4	300.6	265.5	248.6	95.2	542.9
45°	173.9	182.1	205.6	239.8	258.3	240.0	223.6	85.6	628.5
50°	138.5	144.5	161.6	188.3	208.7	204.6	194.1	75.2	703.7
55°	110.6	115.5	130.2	150.3	164.6	163.9	160.4	64.4	768.0
60°	89.1	92.4	103.6	120.9	128.5	124.9	123.9	53.5	821.6
65°	74.6	76.3	82.5	95.4	99.4	91.8	89.8	43.7	865.3
70°	64.8	65.1	66.4	73.4	75.2	65.0	61.7	35.1	900.3
75°	56.7	56.1	54.1	55.3	54.0	43.4	39.3	27.4	927.8
80°	48.3	47.2	43.9	40.6	36.4	26.8	21.9	20.7	948.5
85°	39.1	38.0	34.5	29.4	22.9	14.4	9.1	14.9	963.3
90°	29.8	28.8	25.7	20.2	13.1	5.8	0.8	9.9	973.3
95°	24.0	23.5	21.4	16.6	9.9	3.5	0.7	7.9	981.2
100°	19.2	18.8	17.3	13.3	7.4	1.9	0.6	6.2	987.4
105°	15.1	14.8	13.6	10.2	5.0	0.8	0.6	4.6	992.0
110°	11.8	11.3	10.2	7.3	2.9	0.6	0.6	3.3	995.3
115°	9.0	8.5	7.3	4.7	1.4	0.7	0.7	2.3	997.6
120°	6.6	6.1	4.9	2.7	0.8	0.7	0.7	1.5	999.1
125°	4.4	4.0	2.9	1.3	0.7	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	21.2	22.8	21.5	23.1	23.5	23.1	24.7	23.4	25.0	25.3
	3H	22.4	23.8	22.7	24.2	24.5	24.1	25.6	24.5	25.9	26.2
	4H	23.0	24.4	23.4	24.8	25.2	24.4	25.8	24.8	26.2	26.5
	6H	23.8	25.1	24.2	25.5	25.8	24.7	26.0	25.1	26.3	26.7
	8H	24.2	25.4	24.6	25.8	26.2	24.8	26.0	25.2	26.4	26.8
	12H	24.6	25.7	25.0	26.1	26.5	24.8	26.0	25.3	26.4	26.8
4H	2H	22.0	23.4	22.4	23.8	24.1	23.5	24.9	23.9	25.2	25.6
	3H	23.4	24.6	23.8	24.9	25.4	24.8	26.0	25.2	26.3	26.8
	4H	24.2	25.3	24.6	25.7	26.1	25.3	26.3	25.7	26.8	27.2
	6H	25.1	26.0	25.6	26.5	26.9	25.6	26.6	26.1	27.0	27.5
	8H	25.6	26.4	26.0	26.9	27.3	25.8	26.6	26.2	27.1	27.5
	12H	26.1	26.8	26.5	27.3	27.8	25.9	26.6	26.3	27.1	27.6
8H	4H	24.6	25.5	25.1	25.9	26.4	25.6	26.4	26.0	26.9	27.3
	6H	25.7	26.4	26.2	26.9	27.4	26.1	26.8	26.6	27.3	27.8
	8H	26.3	26.9	26.8	27.4	27.9	26.3	26.9	26.8	27.4	27.9
	12H	26.9	27.5	27.4	28.0	28.5	26.5	27.0	27.0	27.5	28.0
12H	4H	24.7	25.4	25.2	25.9	26.4	25.6	26.4	26.1	26.8	27.3
	6H	25.8	26.4	26.3	26.9	27.4	26.2	26.8	26.7	27.3	27.8
	8H	26.5	27.0	27.0	27.5	28.0	26.5	27.0	27.0	27.5	28.0

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

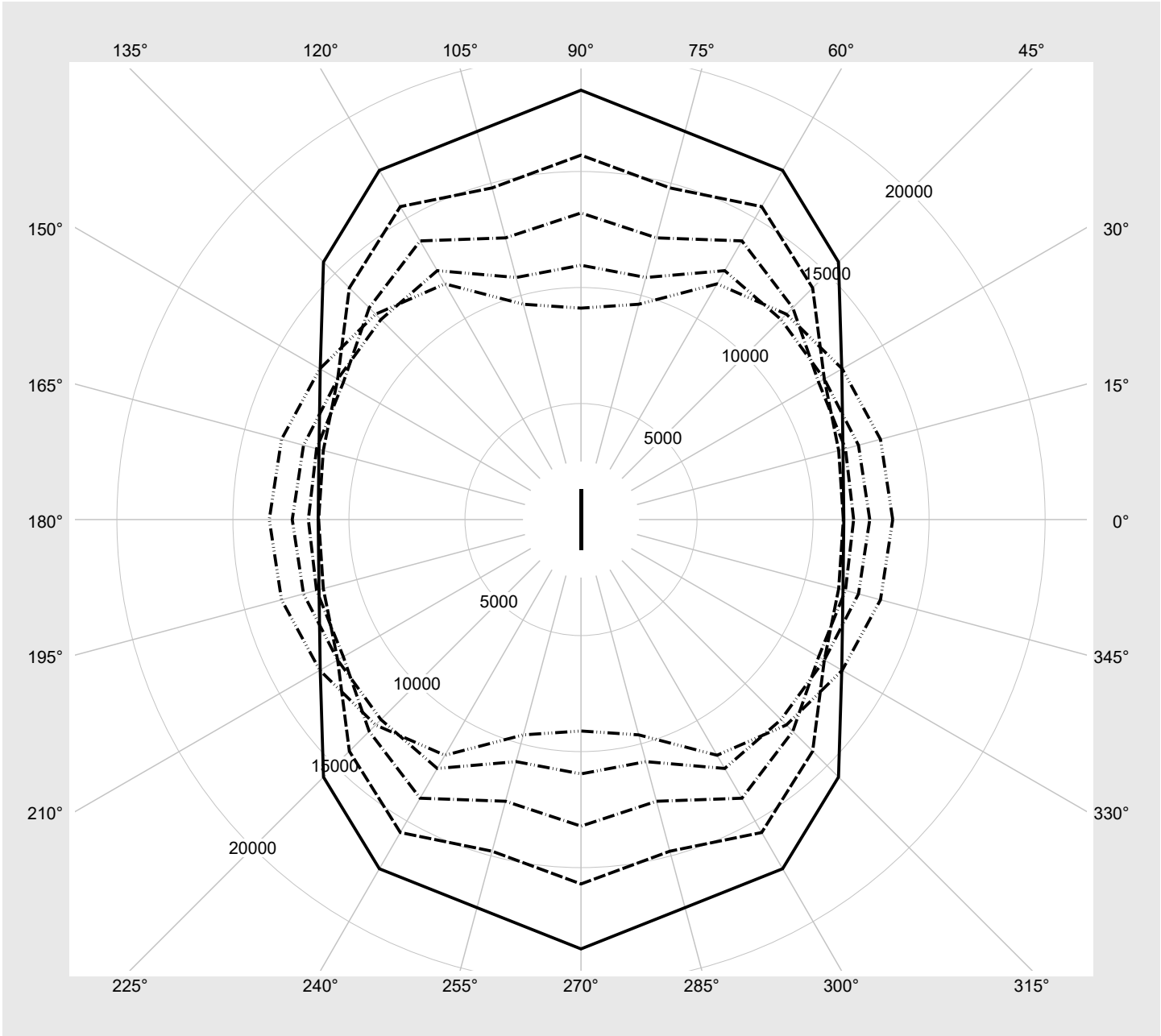
C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		18348.7	19312.4	22118.9	26410.8	29350.0	28324.0	27531.6	
50°		15647.2	16416.7	18676.5	22364.1	25711.0	26361.5	26291.7	
55°		13554.9	14252.2	16389.0	19526.9	22329.8	23433.1	24341.2	
60°		12042.7	12581.7	14430.6	17478.0	19552.3	20232.7	21580.3	
65°		11326.1	11688.3	12975.7	15693.7	17377.4	17315.2	18503.5	
70°		11305.9	11496.9	12108.6	14117.7	15573.1	14797.5	15704.4	
75°		11749.1	11798.0	11826.3	12908.2	13867.0	12568.3	13212.8	
80°		12443.7	12379.0	12108.2	12192.3	12386.6	10800.8	10961.0	
85°		13433.4	13360.6	12996.3	12517.9	11729.2	9606.4	9111.8	

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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	----	----	----	----
100	253	254	10014	61.8
95	240	252	9545	58.6
90	226	250	9034	55.1
85	213	248	8553	51.9
80	199	245	8029	48.5
75	186	243	7537	45.5
70	173	240	7040	42.3
65	160	237	6539	39.2
60	147	234	6033	36.1
55	134	231	5523	33.0
50	121	227	5007	29.9
45	109	223	4528	27.1
40	96	218	4003	24.1
35	84	213	3512	21.4
30	72	208	3019	18.6
25	60	201	2521	15.9
20	48	193	2020	13.0
15	36	182	1517	10.2
10	24	168	1010	7.5
5	12	142	499	4.9
2	4	102	156	3.1