

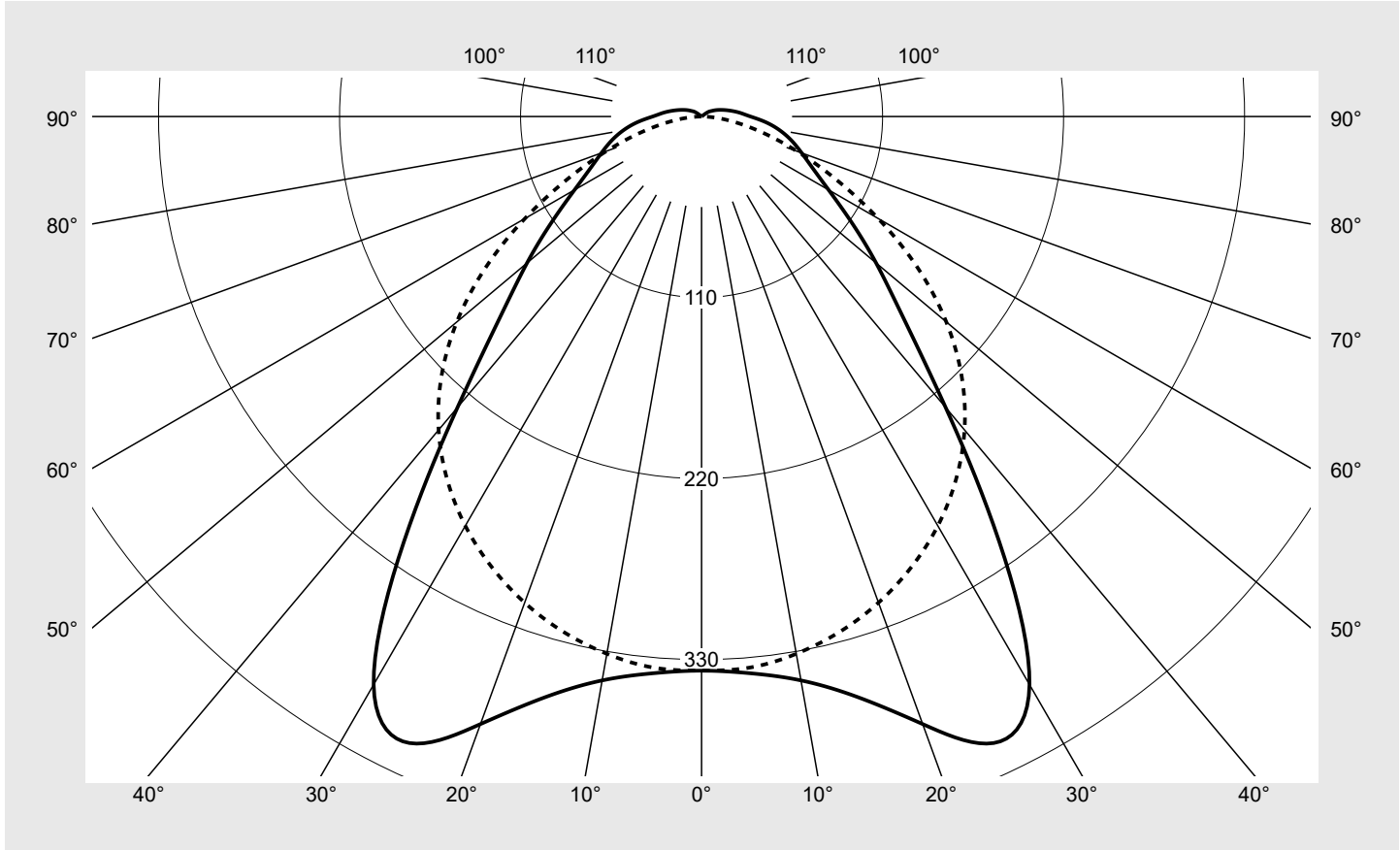
Photometric test report

Family Licross® 21 Protected	Order number: 52TD1BVN48XG EAN: 4058352979570	LP number 58522_257
	Version prismatic cover, frosted, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI CLO Rated values Net luminous flux = 8000 lm Power consumption = 48.3 W Luminous efficacy = 165.6 lm/W	serial documentation 07.11.2023





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	20.4	22.0	20.8	22.3	22.7	22.3	23.9	22.6	24.2	24.5
	3H	21.6	23.0	21.9	23.4	23.7	23.3	24.8	23.7	25.1	25.4
	4H	22.3	23.6	22.6	24.0	24.4	23.6	25.0	24.0	25.4	25.7
	6H	23.0	24.3	23.4	24.7	25.1	23.9	25.2	24.3	25.5	25.9
	8H	23.4	24.6	23.8	25.0	25.4	24.0	25.2	24.4	25.6	26.0
	12H	23.8	24.9	24.2	25.3	25.8	24.1	25.2	24.5	25.6	26.0
4H	2H	21.2	22.6	21.6	23.0	23.3	22.7	24.1	23.1	24.5	24.8
	3H	22.6	23.8	23.0	24.2	24.6	24.0	25.2	24.4	25.6	26.0
	4H	23.4	24.5	23.8	24.9	25.3	24.5	25.6	24.9	26.0	26.4
	6H	24.3	25.2	24.8	25.7	26.1	24.8	25.8	25.3	26.2	26.7
	8H	24.8	25.6	25.2	26.1	26.5	25.0	25.8	25.4	26.3	26.7
	12H	25.3	26.0	25.7	26.5	27.0	25.1	25.8	25.6	26.3	26.8
8H	4H	23.8	24.7	24.3	25.1	25.6	24.8	25.6	25.2	26.1	26.5
	6H	24.9	25.6	25.4	26.1	26.6	25.3	26.0	25.8	26.5	27.0
	8H	25.5	26.1	26.0	26.6	27.1	25.5	26.1	26.0	26.6	27.1
	12H	26.1	26.7	26.6	27.2	27.7	25.7	26.2	26.2	26.7	27.2
12H	4H	23.9	24.6	24.4	25.1	25.6	24.8	25.6	25.3	26.0	26.5
	6H	25.0	25.6	25.5	26.1	26.6	25.4	26.0	25.9	26.5	27.0
	8H	25.7	26.2	26.2	26.7	27.3	25.7	26.2	26.2	26.7	27.2

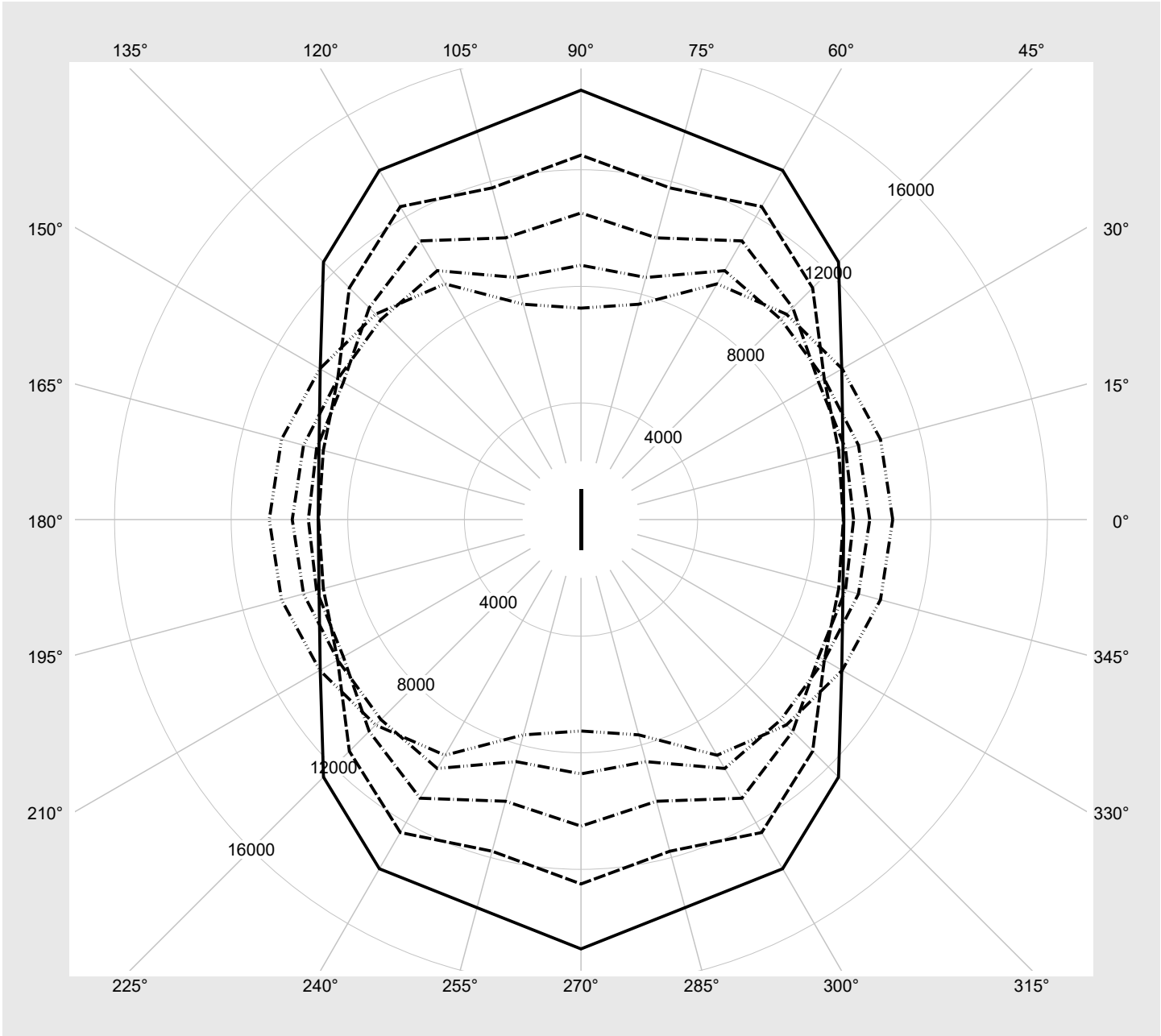
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1480	H(C0) = 13	H(C180) = 13
			B = 78	H(C90) = 0	H(C270) = 0

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°		14605.9	15373.0	17607.1	21023.5	23363.2	22546.5	21915.7	
50°		12455.5	13068.0	14866.9	17802.3	20466.4	20984.3	20928.7	
55°		10789.9	11345.0	13046.0	15543.8	17775.0	18653.2	19376.1	
60°		9586.3	10015.3	11487.1	13912.8	15564.1	16105.6	17178.4	
65°		9015.8	9304.1	10328.9	12492.5	13832.8	13783.2	14729.2	
70°		8999.7	9151.8	9638.7	11238.0	12396.5	11779.1	12501.0	
75°		9352.6	9391.4	9413.9	10275.2	11038.4	10004.6	10517.7	
80°		9905.4	9854.0	9638.4	9705.3	9860.0	8597.7	8725.2	
85°		10693.3	10635.3	10345.3	9964.5	9336.7	7646.9	7253.2	

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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]	Power consumption [W]	Power consumption [W]
				start of lifetime	end of lifetime	average
100	254	254	8000	48.3	57.5	52.9
95	240	252	7586	45.7	54.3	50.0
90	227	250	7198	43.3	51.4	47.3
85	214	248	6808	40.7	48.4	44.6
80	200	245	6388	38.2	45.4	41.8
75	187	243	5992	35.8	42.5	39.2
70	174	240	5593	33.4	39.5	36.4
65	161	237	5193	31.0	36.7	33.8
60	148	234	4788	28.7	33.8	31.2
55	136	231	4411	26.5	31.2	28.8
50	123	227	4002	24.1	28.3	26.2
45	110	223	3588	21.7	25.5	23.6
40	98	219	3203	19.6	22.9	21.2
35	85	214	2784	17.3	20.1	18.7
30	73	208	2395	15.1	17.6	16.4
25	61	202	2004	12.9	15.0	14.0
20	49	194	1612	10.8	12.5	11.6
15	37	183	1216	8.6	9.8	9.2
10	24	168	784	6.3	7.1	6.7
5	12	142	387	4.2	4.7	4.4
2	5	110	152	3.0	3.2	3.1