

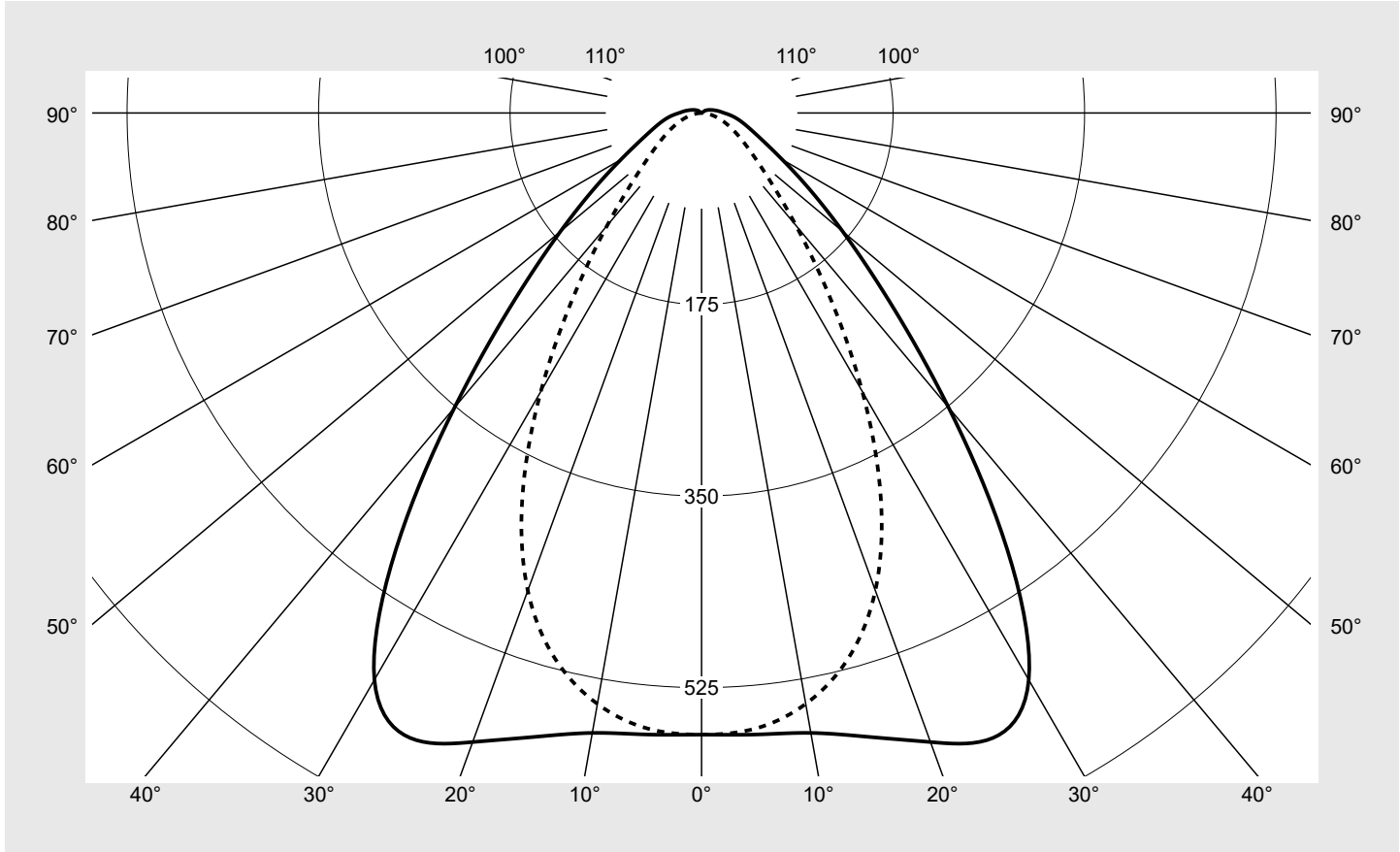


Photometric test report

Family Licross® 21 Protected	Order number: 52TP12DN4DXM EAN: 4058352903988	LP number 58523_170
	Version prismatic cover, frosted, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 13000 lm Power consumption = 74.3 W Luminous efficacy = 175 lm/W	serial documentation 03.08.2023
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 630 cd/klm**



Classifications	
DIN 5040	A 5 1
CIE	N1=70 N2=91 N3=97 N4=98 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	98.3%
ϕ_o	1.7%

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°	568.0	568.0	568.0	568.0	568.0	568.0	568.0	3.4	3.4
5°	570.0	568.0	563.9	564.4	565.6	564.2	564.6	27.0	30.4
10°	575.1	572.9	563.4	557.9	553.3	549.0	548.2	53.3	83.7
15°	590.1	586.0	566.8	548.5	532.2	519.9	516.5	78.2	161.9
20°	611.6	603.6	568.7	531.0	496.5	471.9	464.3	100.3	262.2
25°	630.0	617.6	564.2	499.9	441.6	401.0	387.5	117.1	379.3
30°	598.0	589.4	536.5	452.4	368.0	311.9	293.8	123.5	502.8
35°	487.1	490.1	463.2	383.1	284.6	222.1	203.0	114.7	617.4
40°	351.1	360.8	359.1	297.2	205.7	150.3	134.3	94.9	712.3
45°	241.7	250.7	257.1	211.9	140.4	100.6	89.9	72.8	785.1
50°	168.3	174.0	178.9	144.5	94.4	69.8	63.7	54.4	839.5
55°	118.9	121.8	123.3	97.4	64.6	50.4	47.5	40.5	880.0
60°	85.1	85.8	84.4	66.1	45.7	37.4	36.1	30.1	910.0
65°	63.8	62.6	58.2	45.7	33.4	28.1	27.2	22.6	932.7
70°	50.4	47.7	40.8	32.1	24.8	20.7	19.9	17.3	949.9
75°	41.3	37.6	29.5	22.7	17.9	14.5	13.5	13.2	963.2
80°	34.0	30.0	21.9	15.9	12.4	9.4	8.0	10.0	973.1
85°	27.2	23.7	16.4	11.2	8.0	5.3	3.6	7.3	980.4
90°	20.7	17.9	12.0	7.4	4.6	2.2	0.4	5.0	985.4
95°	16.6	14.7	10.2	6.3	3.6	1.3	0.3	4.0	989.4
100°	13.2	11.9	8.5	5.2	2.7	0.8	0.3	3.2	992.6
105°	10.4	9.5	6.9	4.1	1.9	0.4	0.3	2.5	995.1
110°	8.2	7.4	5.5	3.1	1.2	0.3	0.3	1.9	997.0
115°	6.5	5.8	4.2	2.2	0.7	0.4	0.4	1.4	998.4
120°	4.9	4.3	3.0	1.4	0.6	0.5	0.5	1.0	999.4
125°	3.5	3.0	2.0	0.9	0.6	0.5	0.5	0.7	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	22.9	24.3	23.2	24.6	25.0	18.7	20.2	19.1	20.5	20.8
	3H	23.5	24.8	23.9	25.1	25.5	19.1	20.5	19.5	20.8	21.1
	4H	23.8	25.0	24.2	25.4	25.7	19.3	20.6	19.7	20.9	21.3
	6H	24.2	25.3	24.6	25.7	26.1	19.5	20.6	19.9	21.0	21.4
	8H	24.5	25.5	25.0	25.8	26.3	19.6	20.6	20.0	21.0	21.4
	12H	24.8	25.6	25.2	26.0	26.4	19.6	20.6	20.0	21.0	21.4
4H	2H	22.9	24.1	23.3	24.5	24.9	19.4	20.6	19.8	20.9	21.3
	3H	23.7	24.7	24.1	25.1	25.5	19.9	20.9	20.4	21.3	21.7
	4H	24.1	25.0	24.6	25.4	25.9	20.2	21.1	20.6	21.5	22.0
	6H	24.7	25.4	25.1	25.9	26.3	20.4	21.2	20.9	21.6	22.1
	8H	25.0	25.7	25.5	26.1	26.6	20.5	21.2	21.0	21.7	22.2
	12H	25.4	26.0	25.9	26.4	26.9	20.6	21.2	21.1	21.7	22.2
8H	4H	24.1	24.8	24.6	25.3	25.8	20.5	21.2	21.0	21.7	22.1
	6H	24.8	25.4	25.3	25.8	26.3	20.8	21.4	21.3	21.9	22.4
	8H	25.2	25.7	25.7	26.2	26.7	21.0	21.5	21.5	22.0	22.5
	12H	25.7	26.1	26.2	26.6	27.1	21.1	21.5	21.6	22.0	22.6
12H	4H	24.1	24.8	24.6	25.2	25.7	20.6	21.2	21.1	21.7	22.2
	6H	24.8	25.3	25.3	25.8	26.3	21.0	21.5	21.5	22.0	22.5
	8H	25.2	25.7	25.7	26.2	26.7	21.2	21.6	21.7	22.1	22.6

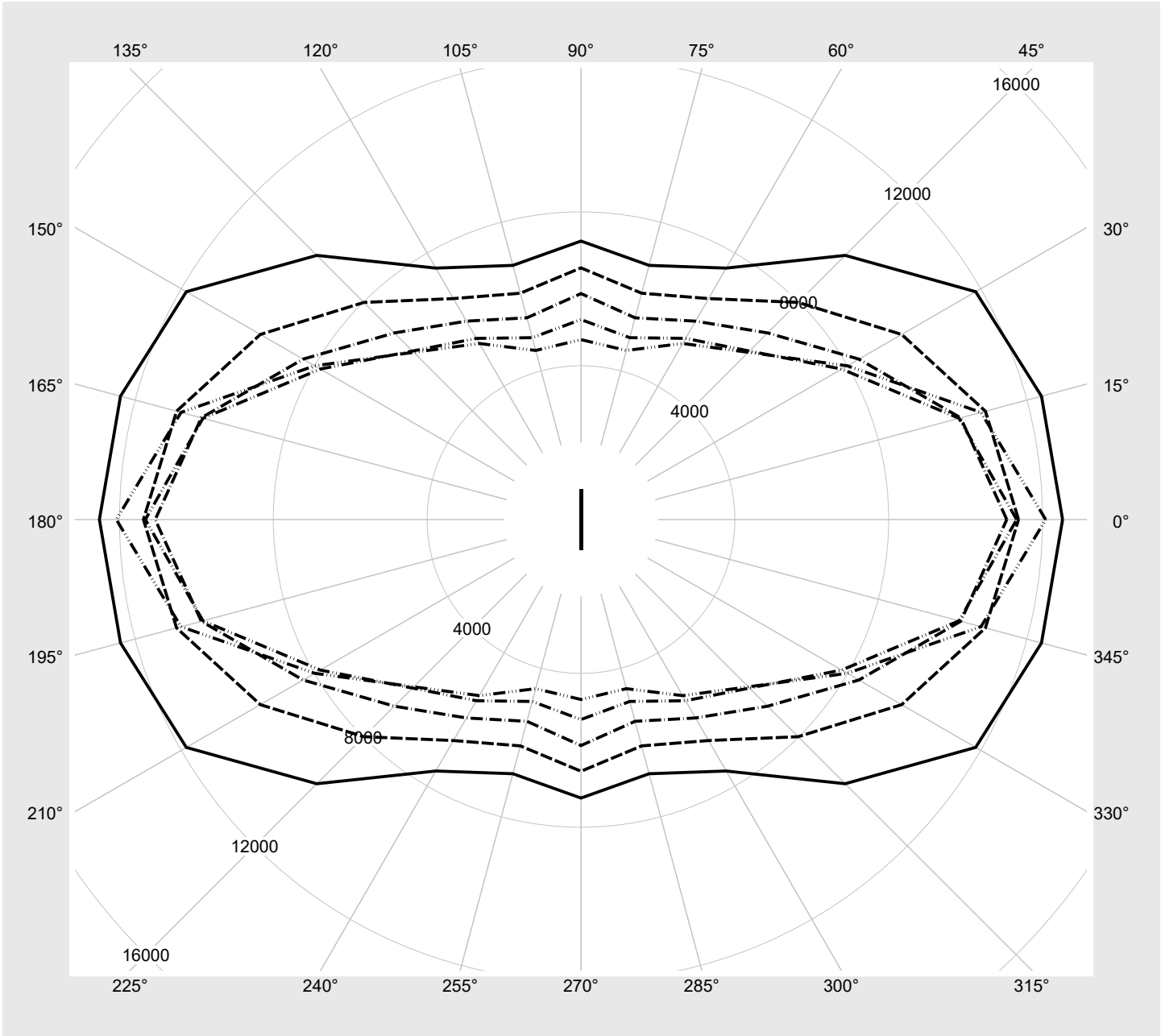
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1480	H(C0) = 13	H(C180) = 13
			B = 78	H(C90) = 0	H(C270) = 0

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°	32995.1	34384.1	35785.9	30183.7	20638.4	15359.6	14322.7	
	50°	24600.8	25579.8	26749.4	22197.6	15041.5	11622.6	11162.8	
	55°	18852.5	19450.2	20077.9	16365.2	11332.0	9315.7	9330.6	
	60°	14871.9	15118.4	15203.1	12367.6	8991.8	7833.6	8122.1	
	65°	12521.3	12394.8	11848.5	9714.1	7549.6	6841.9	7241.2	
	70°	11375.9	10885.5	9626.2	7984.5	6634.7	6092.6	6544.0	
	75°	11070.1	10220.0	8343.3	6862.7	5956.7	5430.8	5875.6	
	80°	11327.2	10175.4	7826.4	6196.0	5439.2	4896.2	5199.8	
	85°	12082.0	10765.3	7995.0	6150.4	5286.1	4552.0	4678.6	

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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]
100	254	254	13000	74.3
95	240	252	12331	70.2
90	227	250	11705	66.4
85	214	248	11074	62.7
80	200	245	10386	58.6
75	187	243	9742	54.9
70	174	240	9095	51.3
65	161	237	8440	47.6
60	148	234	7783	43.8
55	136	231	7170	40.4
50	123	227	6504	36.8
45	110	223	5831	33.1
40	98	219	5205	29.8
35	85	214	4526	26.3
30	73	208	3892	22.9
25	61	202	3255	19.6
20	49	194	2616	16.4
15	37	183	1973	13.1
10	25	169	1325	9.7
5	12	142	624	6.1
2	5	110	241	4.4