

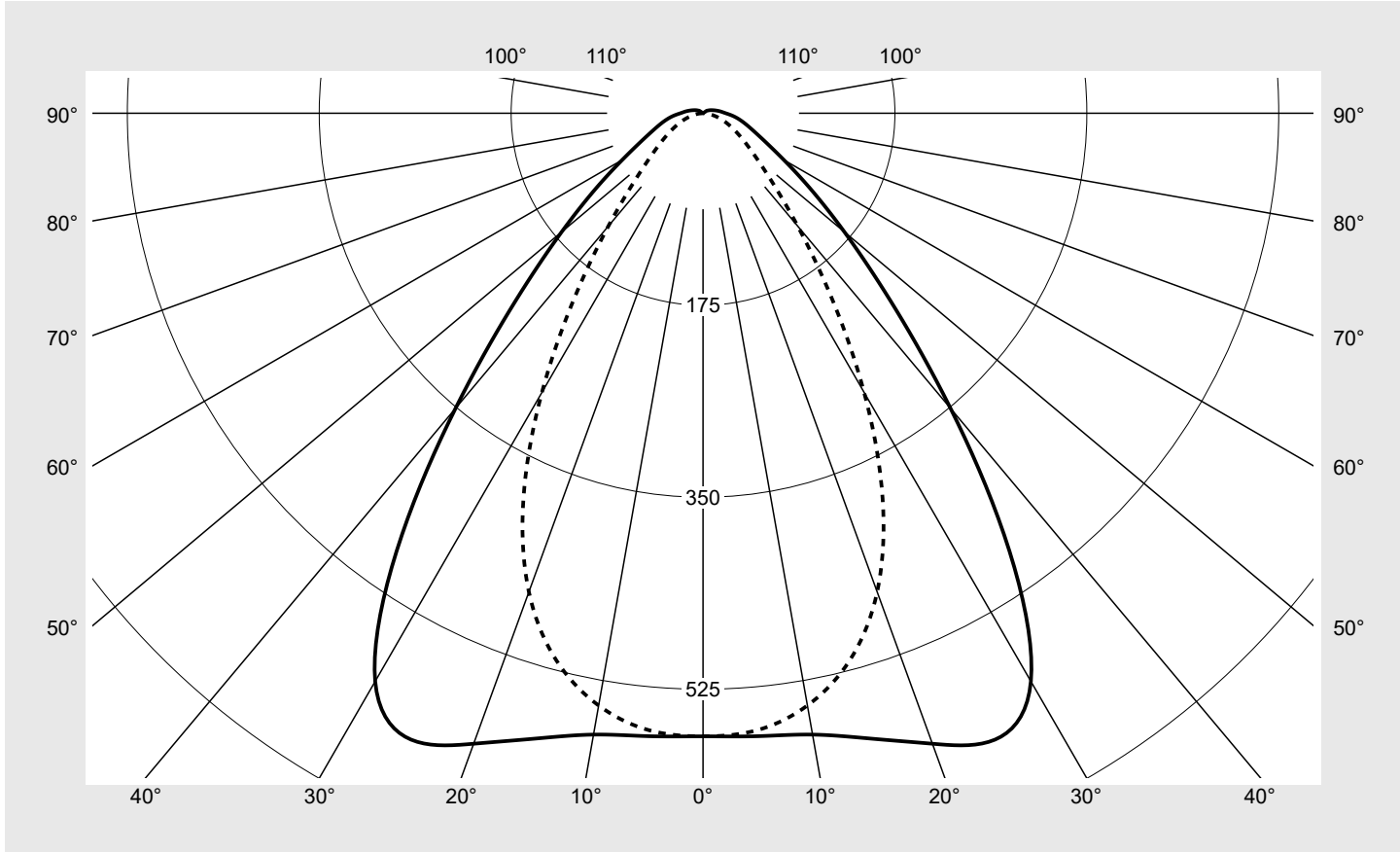


Photometric test report

Family Licross® Protected	Order number: 51TP12DN4EXLD EAN: 4058352418512	LP number 58523_23
	Version prismatic cover, frosted, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Setting AC-mode Rated values Net luminous flux = 14070 lm Power consumption = 86.1 W Luminous efficacy = 163.4 lm/W	serial documentation 26.08.2020
		

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
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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	23.2	24.6	23.5	24.9	25.2	19.0	20.4	19.3	20.8	21.1
	3H	23.8	25.0	24.1	25.4	25.7	19.4	20.7	19.8	21.1	21.4
	4H	24.1	25.3	24.5	25.6	26.0	19.6	20.8	20.0	21.2	21.6
	6H	24.5	25.6	24.9	25.9	26.3	19.8	20.9	20.2	21.3	21.7
	8H	24.8	25.7	25.2	26.1	26.5	19.8	20.9	20.3	21.3	21.7
	12H	25.0	25.9	25.5	26.3	26.7	19.9	20.9	20.3	21.3	21.7
4H	2H	23.2	24.4	23.6	24.8	25.1	19.7	20.8	20.1	21.2	21.6
	3H	23.9	25.0	24.4	25.3	25.8	20.2	21.2	20.6	21.6	22.0
	4H	24.4	25.3	24.8	25.7	26.1	20.5	21.4	20.9	21.8	22.2
	6H	25.0	25.7	25.4	26.2	26.6	20.7	21.5	21.2	21.9	22.4
	8H	25.3	26.0	25.7	26.4	26.9	20.8	21.5	21.2	22.0	22.4
	12H	25.7	26.2	26.1	26.7	27.2	20.8	21.5	21.3	22.0	22.4
8H	4H	24.4	25.1	24.9	25.6	26.0	20.8	21.5	21.3	21.9	22.4
	6H	25.1	25.6	25.5	26.1	26.6	21.1	21.7	21.6	22.2	22.7
	8H	25.5	26.0	26.0	26.5	27.0	21.2	21.8	21.7	22.3	22.8
	12H	26.0	26.4	26.5	26.9	27.4	21.4	21.8	21.9	22.3	22.8
12H	4H	24.4	25.0	24.9	25.5	26.0	20.9	21.5	21.4	21.9	22.4
	6H	25.1	25.6	25.6	26.1	26.6	21.3	21.7	21.8	22.2	22.8
	8H	25.5	25.9	26.0	26.4	27.0	21.4	21.9	22.0	22.4	22.9

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°	35710.9	37214.2	38731.4	32668.1	22337.1	16623.8	15501.6	
	50°	26625.6	27685.2	28951.0	24024.6	16279.6	12579.3	12081.6	
	55°	20404.2	21051.1	21730.4	17712.2	12264.7	10082.4	10098.6	
	60°	16096.0	16362.8	16454.4	13385.5	9731.9	8478.4	8790.6	
	65°	13551.9	13415.0	12823.7	10513.6	8171.0	7405.1	7837.2	
	70°	12312.2	11781.5	10418.5	8641.7	7180.8	6594.0	7082.6	
	75°	11981.2	11061.1	9030.1	7427.6	6446.9	5877.8	6359.2	
	80°	12259.5	11013.0	8470.5	6706.0	5886.8	5299.2	5627.7	
	85°	13076.4	11651.4	8653.0	6656.6	5721.2	4926.7	5063.7	

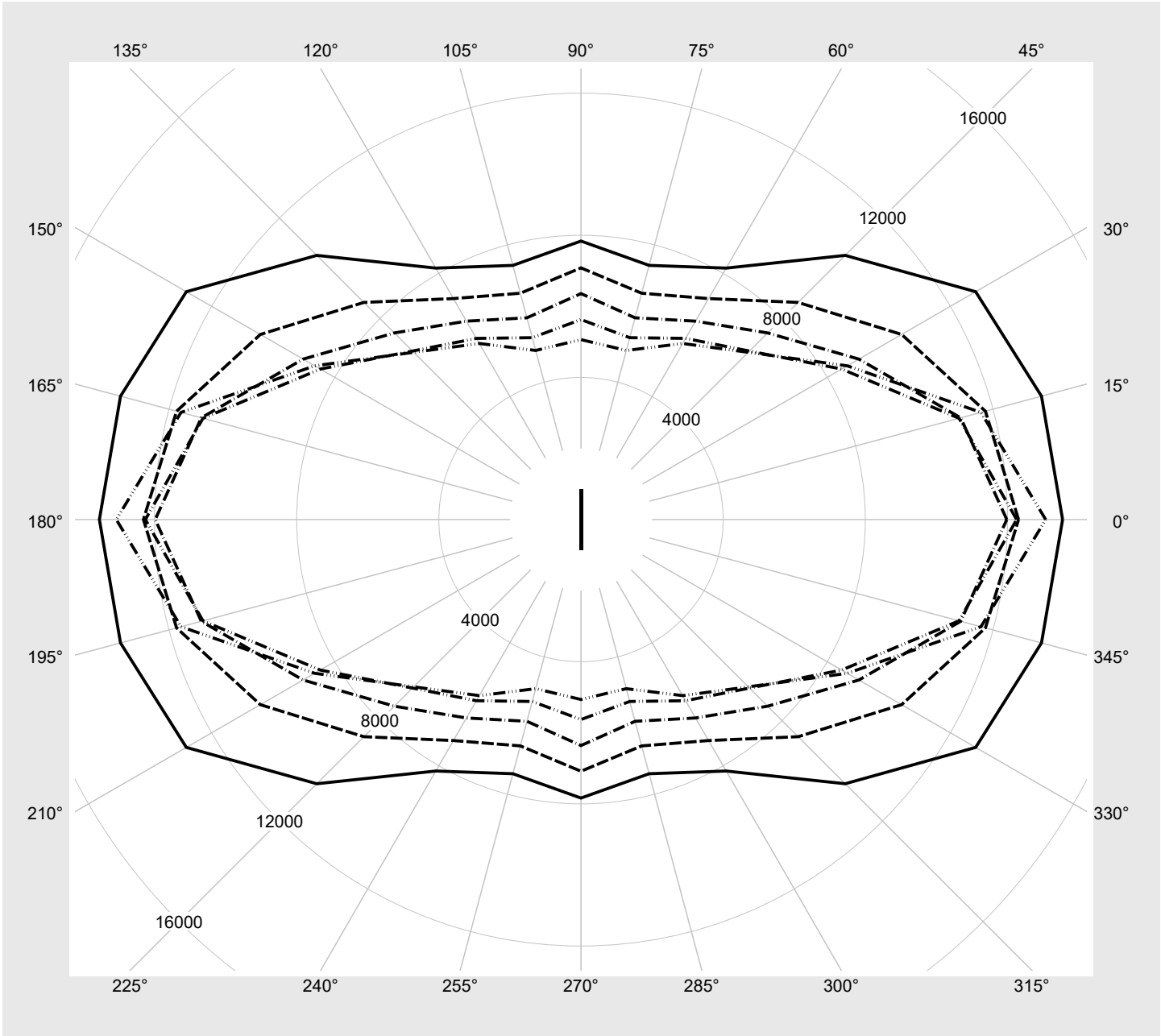
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Luminance values in cd/m²

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	14070	86.1
95	240	252	13351	81.2
90	226	250	12654	76.5
85	213	248	11982	72.0
80	199	245	11231	67.1
75	186	243	10560	62.9
70	173	240	9861	58.5
65	160	237	9162	54.2
60	147	234	8435	49.7
55	135	231	7764	45.7
50	121	227	7009	41.3
45	109	223	6337	37.4
40	97	219	5637	33.4
35	84	213	4907	29.4
30	72	208	4206	25.5
25	60	201	3506	21.6
20	48	193	2804	17.9
15	36	182	2103	14.1
10	25	169	1431	10.4
5	13	145	728	6.9