



Photometric test report

Family Licross® 11 Protected	Order number: 51TP12DN4EXL3S EAN: 4058352485736	LP number 58523_34
	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 = 89.8 W Luminous efficacy = 156.7 lm/W	serial documentation 04.05.2021
		

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	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 B = 78	H(C0) = 13 H(C90) = 0	H(C180) = 13 H(C270) = 0
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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	

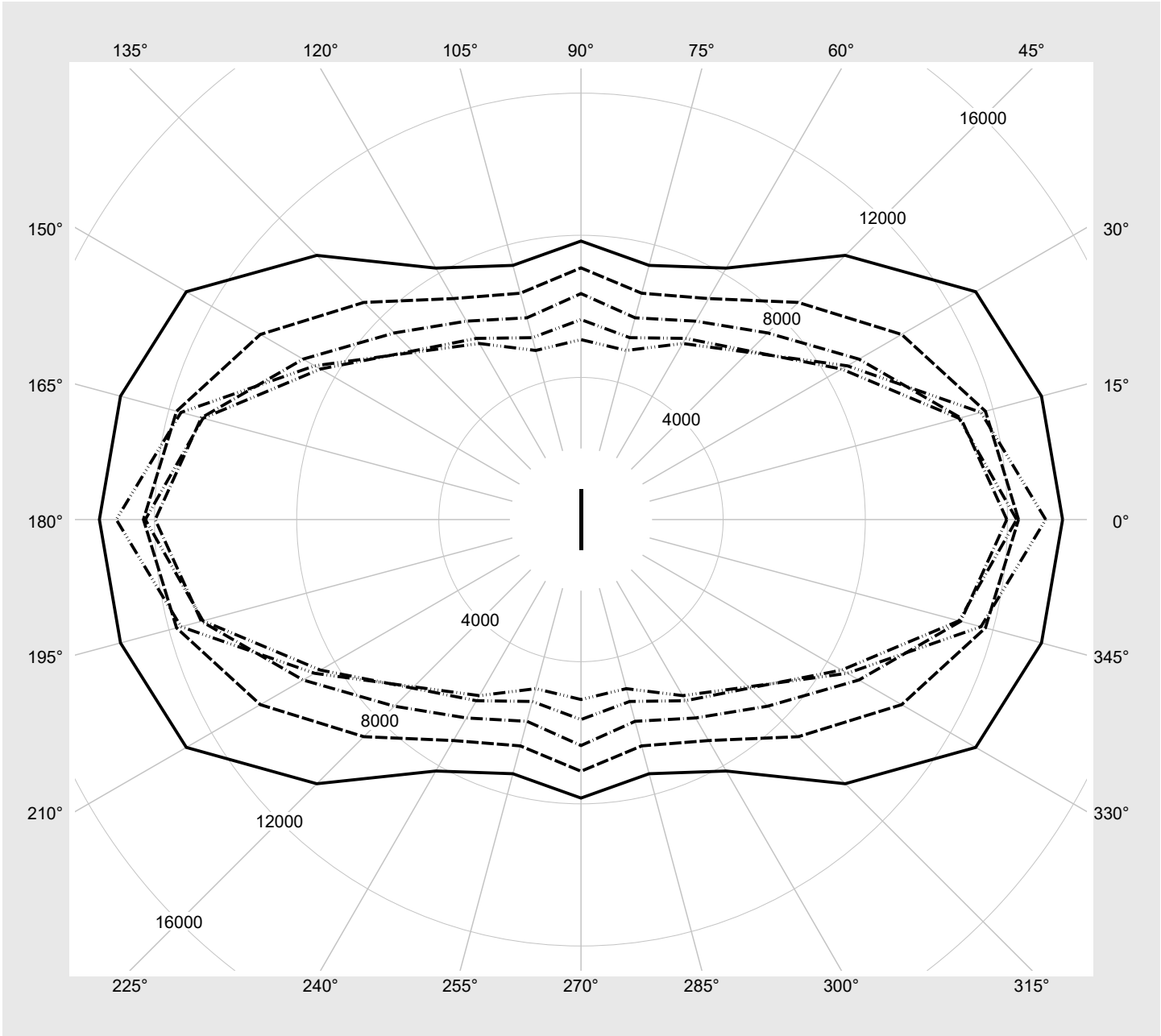
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Luminance values in cd/m²

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	89.8
95	240	252	13363	85.1
90	226	250	12644	80.2
85	213	248	11971	75.8
80	199	245	11235	71.0
75	186	243	10546	66.6
70	173	240	9851	62.3
65	160	237	9145	57.9
60	147	234	8435	53.6
55	134	231	7715	49.3
50	122	227	7047	45.5
45	109	223	6320	41.2
40	97	219	5638	37.3
35	85	214	4951	33.4
30	72	208	4202	29.3
25	60	201	3504	25.5
20	48	193	2801	21.6
15	36	182	2092	17.8
10	24	168	1381	14.2
5	13	145	728	10.7
2	5	110	261	8.1