

Photometric test report

Family
Licross® 11 Protected

Order number: 51TP12DN49XF3S
EAN: 4058352484586

LP number
58524_57



Version prismatic cover, frosted, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Setting AC-mode
Rated values Net luminous flux = 9020 lm
 Power consumption = 60.0 W
 Luminous efficacy = 150.3 lm/W

serial
documentation
04.05.2021

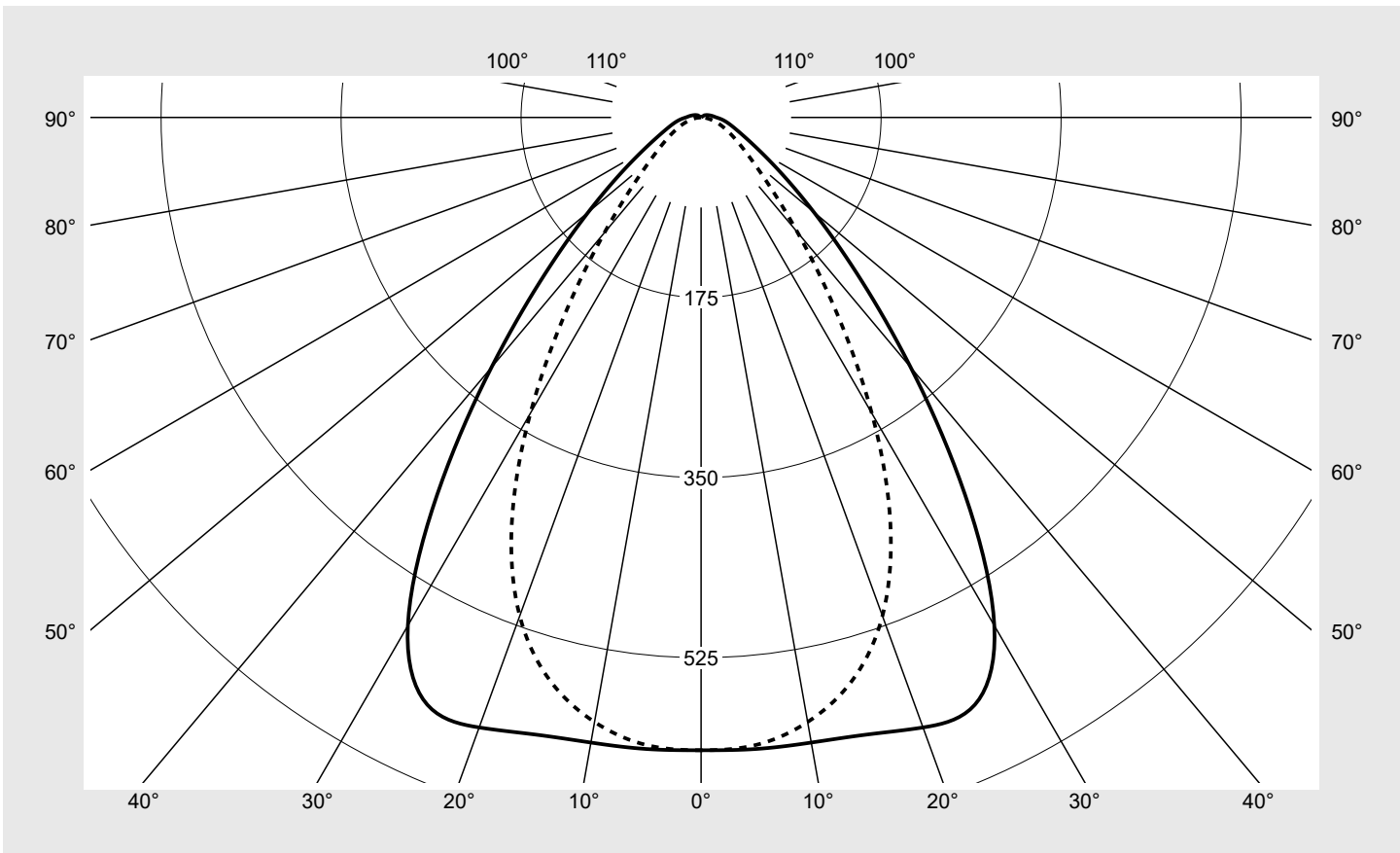
sitEco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 631 cd/klm



Classifications

DIN 5040 A 5 1
 CIE N1=73 N2=92 N3=98
 N4=99 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 98.6%
 ϕ_o 1.4%

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°	615.0	615.0	615.0	615.0	615.0	615.0	615.0	3.7	3.7
5°	616.1	614.1	609.7	611.1	612.9	611.9	612.2	29.3	32.9
10°	616.9	615.1	606.4	602.8	600.3	597.0	596.6	57.6	90.5
15°	620.9	617.8	600.9	587.5	576.7	568.6	566.8	83.8	174.3
20°	630.8	623.5	591.7	561.2	536.7	520.1	515.5	106.4	280.7
25°	629.8	620.7	576.3	523.2	476.9	445.6	435.5	122.6	403.3
30°	570.2	568.9	534.3	469.6	398.0	348.4	331.9	126.5	529.9
35°	447.2	456.9	450.2	394.1	307.5	246.5	227.0	114.9	644.8
40°	317.0	331.0	344.1	303.2	220.2	163.1	146.0	93.6	738.3
45°	213.9	226.3	244.1	214.7	147.7	105.6	94.0	70.6	808.9
50°	143.1	152.0	166.9	144.8	97.7	70.8	64.1	51.5	860.4
55°	96.6	102.1	111.9	95.1	64.8	49.7	46.3	37.0	897.4
60°	67.0	69.6	74.2	63.4	44.8	36.0	34.5	26.8	924.2
65°	49.0	49.5	50.0	42.8	32.0	26.6	25.7	19.7	943.9
70°	37.9	37.0	34.4	29.4	23.3	19.5	18.8	14.8	958.7
75°	30.5	28.7	24.6	20.4	16.6	13.6	12.7	11.1	969.8
80°	24.8	22.7	18.1	14.1	11.2	8.8	7.6	8.2	978.0
85°	19.7	17.8	13.4	9.8	7.1	4.8	3.4	5.9	983.8
90°	14.9	13.4	9.7	6.4	4.0	1.9	0.4	3.9	987.8
95°	12.2	11.1	8.2	5.4	3.1	1.2	0.3	3.2	991.0
100°	10.0	9.2	6.9	4.5	2.4	0.7	0.3	2.6	993.6
105°	8.2	7.6	5.7	3.6	1.7	0.4	0.3	2.1	995.6
110°	6.8	6.2	4.6	2.7	1.1	0.3	0.3	1.6	997.2
115°	5.5	5.0	3.7	2.0	0.7	0.4	0.4	1.2	998.4
120°	4.3	3.8	2.7	1.4	0.6	0.5	0.5	0.9	999.3
125°	3.1	2.7	1.8	0.9	0.6	0.6	0.6	0.6	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	20.9	22.3	21.3	22.6	23.0	17.7	19.1	18.0	19.4	19.7
	3H	21.3	22.6	21.7	22.9	23.3	18.0	19.3	18.4	19.6	20.0
	4H	21.6	22.7	22.0	23.1	23.5	18.2	19.4	18.6	19.7	20.1
	6H	21.9	22.9	22.3	23.3	23.7	18.3	19.4	18.7	19.8	20.1
	8H	22.1	23.0	22.5	23.4	23.8	18.4	19.4	18.8	19.8	20.2
	12H	22.3	23.1	22.7	23.5	23.9	18.4	19.3	18.8	19.7	20.2
4H	2H	21.0	22.2	21.4	22.5	22.9	18.2	19.3	18.6	19.7	20.1
	3H	21.5	22.5	21.9	22.9	23.3	18.7	19.6	19.1	20.0	20.4
	4H	21.9	22.7	22.3	23.1	23.6	18.9	19.8	19.3	20.2	20.6
	6H	22.3	23.0	22.7	23.4	23.9	19.1	19.8	19.5	20.3	20.7
	8H	22.5	23.2	23.0	23.6	24.1	19.1	19.8	19.6	20.3	20.8
	12H	22.8	23.4	23.3	23.8	24.3	19.2	19.8	19.7	20.3	20.8
8H	4H	21.9	22.6	22.3	23.0	23.5	19.1	19.8	19.6	20.2	20.7
	6H	22.4	22.9	22.9	23.4	23.9	19.4	20.0	19.9	20.4	20.9
	8H	22.7	23.2	23.2	23.7	24.2	19.5	20.0	20.0	20.5	21.0
	12H	23.1	23.5	23.6	24.0	24.5	19.6	20.0	20.1	20.5	21.1
12H	4H	21.9	22.5	22.3	22.9	23.4	19.2	19.7	19.7	20.2	20.7
	6H	22.4	22.9	22.9	23.3	23.9	19.5	20.0	20.0	20.4	21.0
	8H	22.7	23.1	23.2	23.6	24.2	19.6	20.1	20.2	20.6	21.1

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°		20262.6	21535.1	23570.5	21221.1	15063.2	11188.4	10391.0	
50°		14508.5	15503.2	17314.8	15438.0	10804.0	8182.5	7786.9	
55°		10624.8	11304.6	12634.9	11088.4	7889.2	6372.9	6308.2	
60°		8129.8	8504.1	9279.2	8225.5	6111.5	5240.2	5385.3	
65°		6679.7	6807.9	7052.7	6310.0	5014.9	4508.8	4751.4	
70°		5940.0	5866.6	5634.9	5078.4	4323.3	3989.6	4286.0	
75°		5678.6	5417.0	4818.4	4281.3	3817.3	3538.3	3848.2	
80°		5740.7	5343.6	4483.9	3804.2	3434.8	3173.8	3421.1	
85°		6069.4	5608.4	4548.2	3730.0	3281.6	2900.8	3089.4	

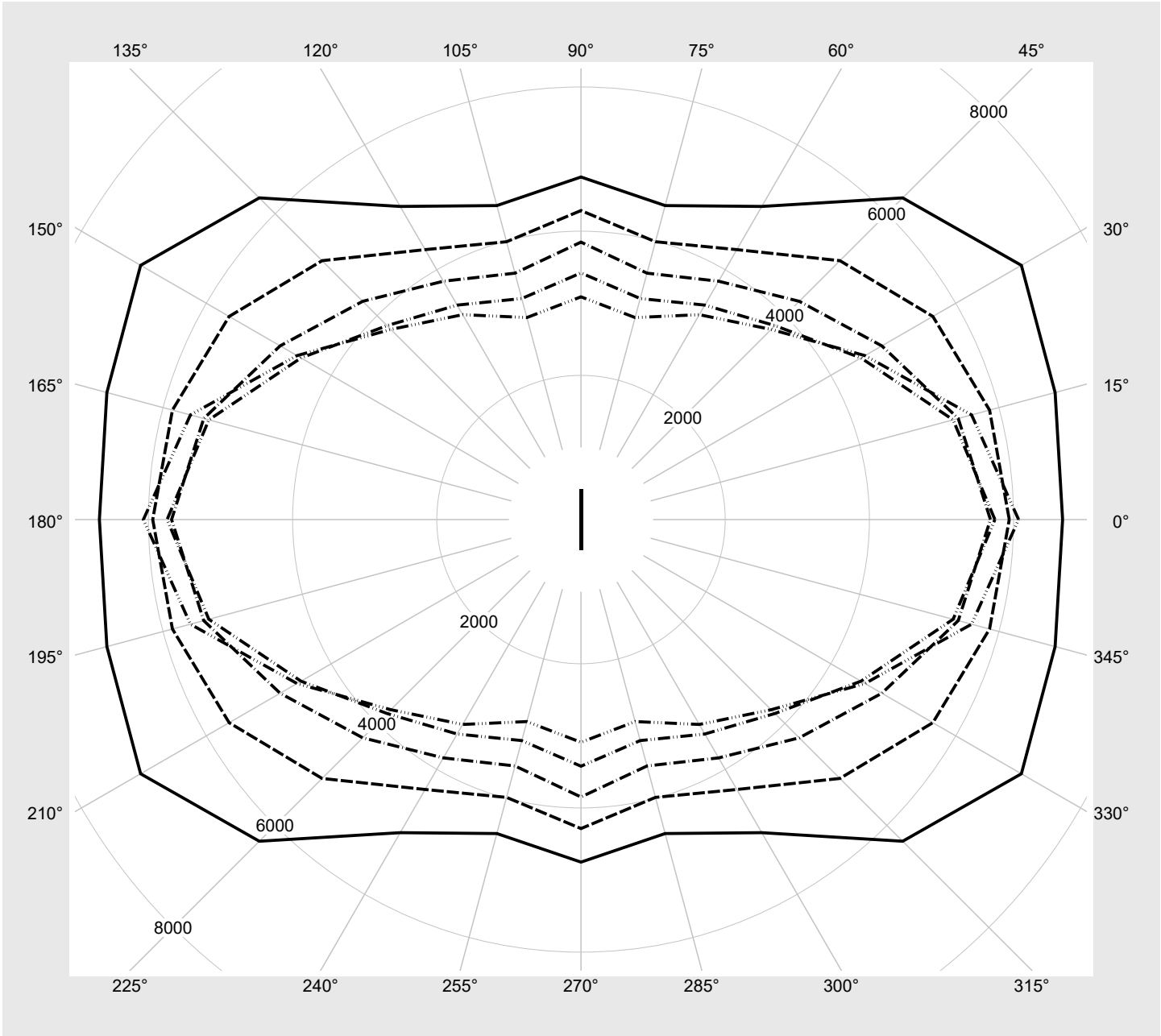
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Luminance values in cd/m²

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	9020	60.0
95	240	252	8554	56.9
90	227	250	8125	53.9
85	213	248	7654	50.9
80	200	245	7213	48.0
75	187	243	6769	45.2
70	174	240	6299	42.3
65	161	237	5849	39.5
60	148	234	5397	36.7
55	136	231	4977	34.2
50	123	227	4516	31.4
45	110	223	4054	28.7
40	98	219	3624	26.2
35	85	214	3155	23.5
30	73	208	2715	20.9
25	60	201	2238	18.2
20	48	193	1790	15.7
15	36	182	1341	13.3
10	24	168	887	10.8
5	12	142	433	8.4
2	5	110	174	7.0