

Photometric test report

Family
Licross® Protected

Order number: 51TS12DN4DXLD
EAN: 4058352418635

LP number
58521_22



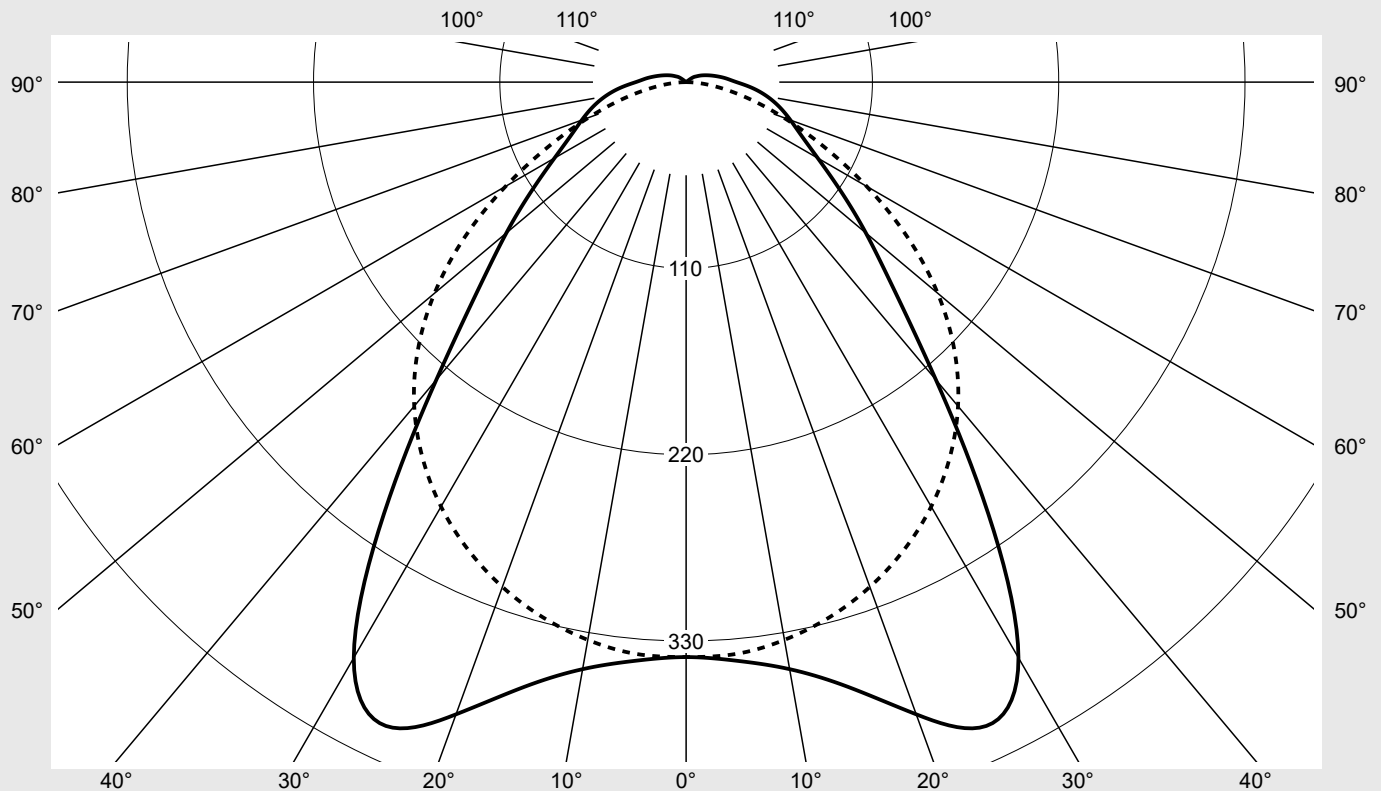
Version prismatic cover, frosted, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Setting AC-mode
Rated values Net luminous flux = 13360 lm
Power consumption = 86.1 W
Luminous efficacy = 155.2 lm/W

serial
documentation
26.08.2020

sitEco

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

Imax: 419 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
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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°	339.5	339.5	339.5	339.5	339.5	339.5	339.5	2.0	2.0
5°	343.0	342.0	339.2	339.3	339.7	338.8	338.9	16.2	18.3
10°	352.0	350.9	345.1	341.6	338.4	335.1	334.4	32.6	50.9
15°	369.7	367.9	356.8	346.8	337.2	329.4	327.1	49.3	100.2
20°	397.2	393.9	374.9	354.6	335.9	321.8	317.2	66.8	167.0
25°	419.5	416.9	395.3	365.3	334.4	312.1	304.6	84.4	251.4
30°	392.5	397.1	392.3	370.7	332.1	300.1	289.4	97.4	348.9
35°	311.0	322.2	341.8	350.7	323.8	285.3	271.2	100.3	449.2
40°	229.5	240.6	267.7	298.9	299.5	266.8	249.8	94.7	543.9
45°	174.0	182.0	204.5	237.4	256.3	239.9	224.1	85.2	629.1
50°	138.5	144.4	161.2	187.1	207.0	203.8	193.9	74.9	704.0
55°	110.9	115.6	129.9	149.5	163.4	162.9	159.6	64.1	768.1
60°	89.8	92.9	103.5	120.2	127.5	124.1	123.1	53.4	821.5
65°	75.3	77.0	82.7	94.9	98.6	91.3	89.2	43.6	865.1
70°	65.6	65.8	66.8	73.1	74.5	64.6	61.3	35.1	900.1
75°	57.2	56.6	54.5	55.3	53.6	43.2	39.2	27.5	927.6
80°	48.6	47.5	44.1	40.6	36.2	26.8	21.9	20.7	948.4
85°	39.1	38.1	34.6	29.4	22.8	14.4	9.2	14.9	963.2
90°	29.7	28.9	25.8	20.2	13.1	5.9	0.8	10.0	973.2
95°	24.0	23.5	21.5	16.6	10.0	3.6	0.7	8.0	981.2
100°	19.1	18.8	17.3	13.3	7.4	1.9	0.7	6.2	987.3
105°	15.1	14.8	13.5	10.2	5.0	0.8	0.6	4.6	991.9
110°	11.8	11.4	10.2	7.3	2.9	0.6	0.6	3.3	995.3
115°	9.1	8.6	7.4	4.7	1.4	0.7	0.7	2.3	997.5
120°	6.7	6.2	4.9	2.7	0.8	0.7	0.8	1.5	999.1
125°	4.5	4.0	2.9	1.3	0.8	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									
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	22.2	23.8	22.5	24.1	24.4	24.0	25.7	24.4	26.0	26.3
	3H	23.4	24.8	23.7	25.2	25.5	25.0	26.5	25.4	26.8	27.2
	4H	24.1	25.4	24.5	25.8	26.2	25.4	26.8	25.8	27.1	27.5
	6H	24.8	26.1	25.2	26.5	26.9	25.6	26.9	26.1	27.3	27.7
	8H	25.2	26.4	25.7	26.8	27.2	25.8	26.9	26.2	27.3	27.7
	12H	25.6	26.8	26.1	27.1	27.6	25.8	26.9	26.2	27.3	27.7
4H	2H	23.0	24.4	23.4	24.7	25.1	24.5	25.9	24.9	26.2	26.6
	3H	24.4	25.6	24.8	25.9	26.3	25.7	26.9	26.2	27.3	27.7
	4H	25.2	26.3	25.6	26.7	27.1	26.2	27.3	26.7	27.7	28.1
	6H	26.1	27.0	26.6	27.5	27.9	26.6	27.5	27.1	28.0	28.4
	8H	26.6	27.4	27.0	27.9	28.4	26.7	27.6	27.2	28.0	28.5
	12H	27.1	27.8	27.6	28.3	28.8	26.8	27.6	27.3	28.0	28.5
8H	4H	25.6	26.5	26.1	26.9	27.4	26.5	27.4	27.0	27.8	28.3
	6H	26.7	27.4	27.2	27.9	28.4	27.0	27.8	27.5	28.2	28.7
	8H	27.3	27.9	27.8	28.4	28.9	27.2	27.9	27.7	28.4	28.9
	12H	27.9	28.5	28.4	29.0	29.5	27.4	28.0	27.9	28.5	29.0
12H	4H	25.7	26.4	26.2	26.9	27.4	26.6	27.3	27.1	27.8	28.3
	6H	26.8	27.4	27.3	27.9	28.4	27.2	27.8	27.7	28.3	28.8
	8H	27.5	28.0	28.0	28.5	29.1	27.4	28.0	27.9	28.5	29.0

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	0°	15°	30°	45°	60°	75°	90°
		180°	165°	150°	135°	120°	105°	270°
		195°	210°	225°	240°	255°	285°	
		345°	330°	315°	300°			
		Luminance in cd/m ²						
45°		24409.3	25651.1	29254.1	34759.6	38725.1	37637.4	36673.2
50°		20810.4	21816.5	24769.0	29530.5	33904.6	34901.4	34910.7
55°		18068.3	18962.6	21732.5	25815.5	29458.2	30966.5	32194.8
60°		16123.6	16813.3	19168.0	23098.5	25791.3	26737.0	28484.9
65°		15198.0	15664.9	17290.1	20737.4	22908.4	22878.9	24419.7
70°		15214.1	15435.2	16184.3	18690.5	20511.9	19554.7	20758.3
75°		15767.4	15818.0	15831.4	17164.6	18294.6	16638.0	17538.1
80°		16635.2	16547.0	16166.4	16229.4	16402.8	14341.0	14623.7
85°		17872.4	17792.8	17321.3	16640.2	15528.3	12805.9	12245.6

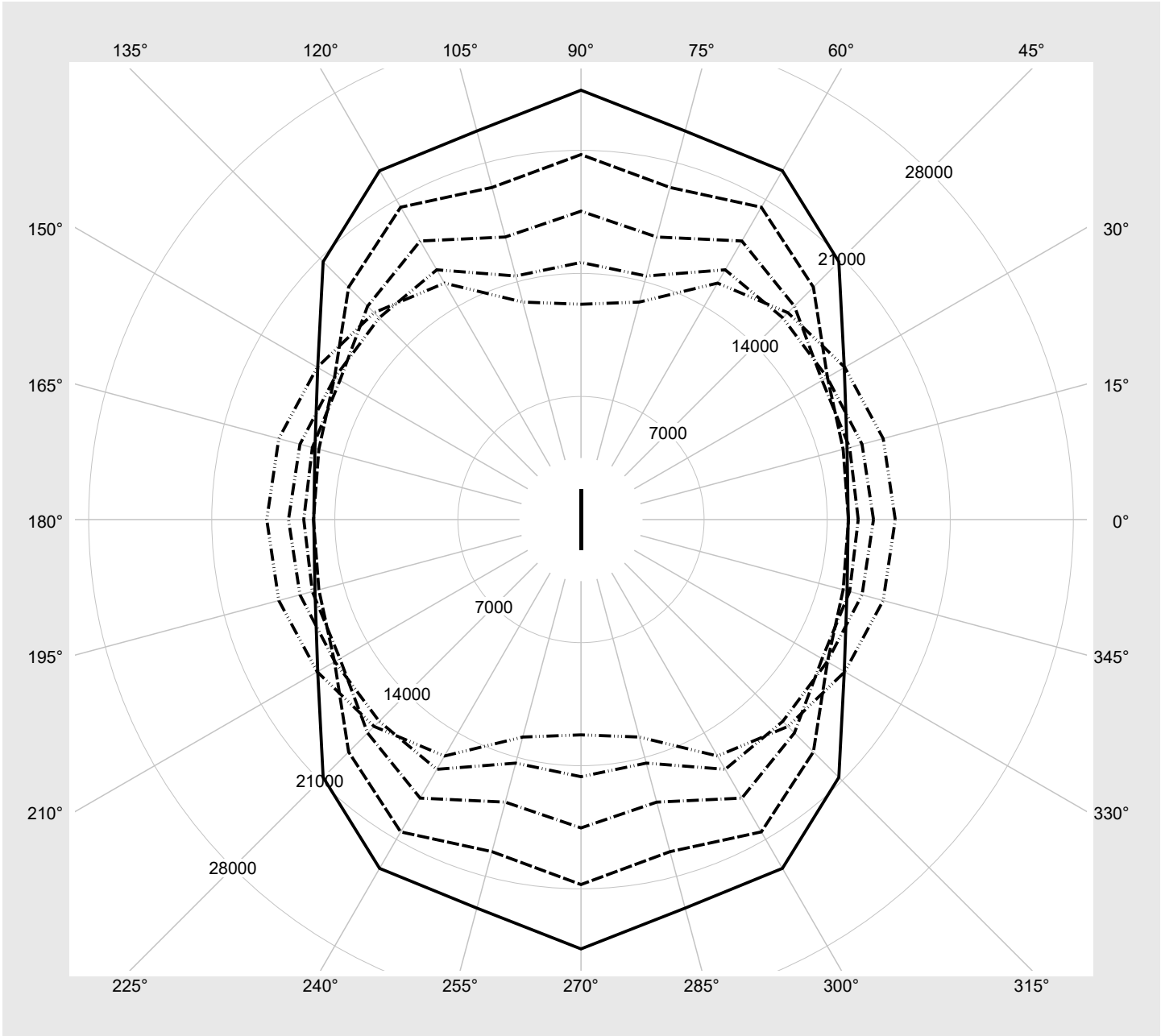
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Luminance values in cd/m²

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	13360	86.1
95	240	252	12671	81.2
90	226	250	12009	76.5
85	213	248	11346	71.9
80	200	245	10709	67.5
75	186	243	10022	62.9
70	173	240	9359	58.5
65	160	237	8696	54.2
60	147	234	8005	49.7
55	135	231	7368	45.7
50	122	227	6704	41.7
45	109	223	6015	37.4
40	97	219	5349	33.4
35	84	213	4657	29.4
30	72	208	3992	25.5
25	60	201	3326	21.6
20	48	193	2661	17.9
15	36	182	1996	14.1
10	25	169	1358	10.4
5	13	145	692	6.9