

Photometric test report

Family
Licross® Protected 650V DC

Order number: 55TD1BDN495G
EAN: 4069025414403

LP number
58522_288



Version prismatic cover, frosted, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 9650 lm
 Power consumption = 59.1 W
 Luminous efficacy = 163.3 lm/W

serial
documentation
09.04.2025

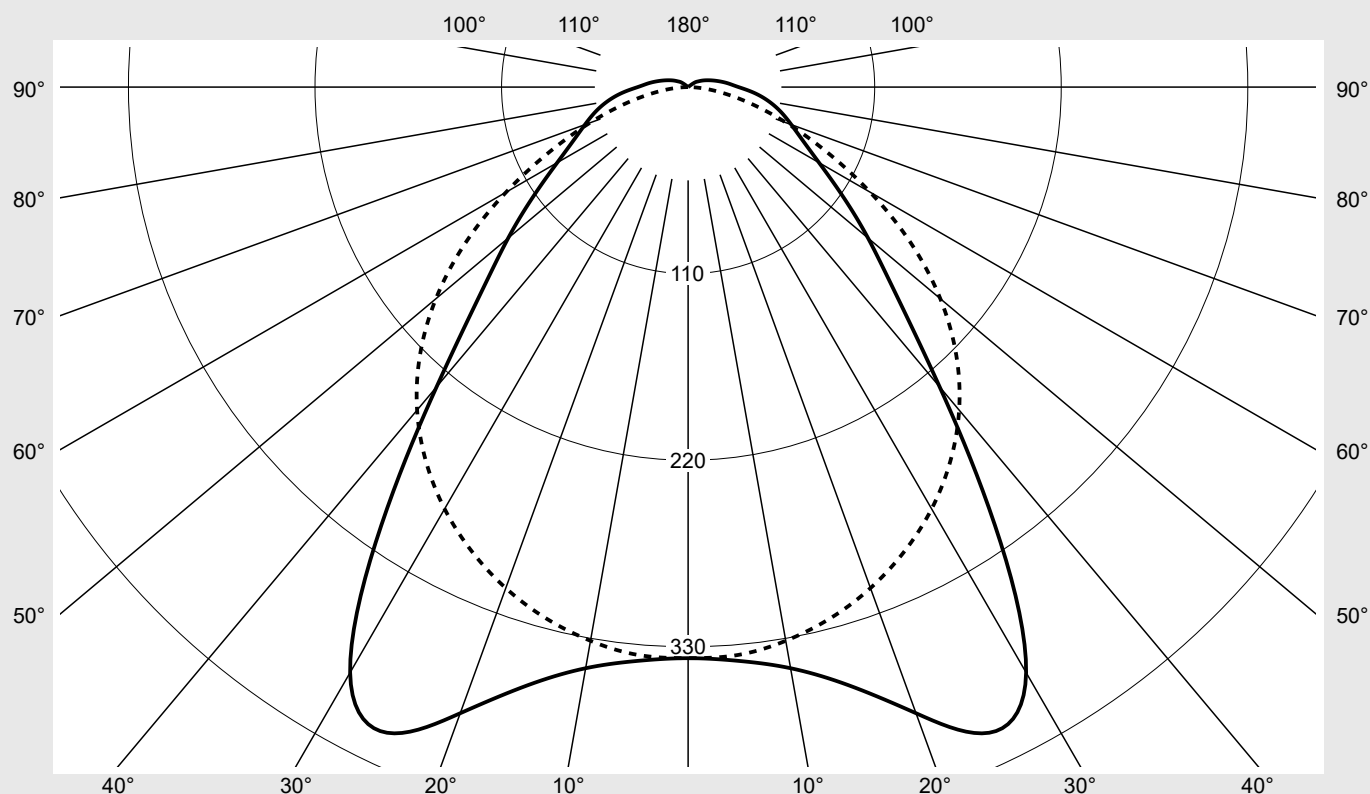
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 420 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	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm							Luminous flux in lm/klm	
0°	336.7	336.7	336.7	336.7	336.7	336.7	336.7	2.0	2.0
5°	339.6	338.6	335.9	336.3	336.9	336.0	336.1	16.1	18.1
10°	347.9	347.0	341.3	338.0	335.2	332.1	331.5	32.3	50.4
15°	365.1	363.4	352.6	343.0	333.9	326.3	324.2	48.8	99.2
20°	392.9	389.6	370.2	350.5	332.5	318.7	314.4	66.1	165.3
25°	420.1	417.2	393.2	361.7	330.8	309.3	301.9	83.9	249.2
30°	398.6	403.0	395.6	369.9	329.0	297.6	287.2	97.7	346.8
35°	315.4	327.2	346.9	353.5	322.7	283.2	269.5	100.9	447.7
40°	230.7	242.3	270.7	302.4	300.6	265.5	248.6	95.2	542.9
45°	173.9	182.1	205.6	239.8	258.3	240.0	223.6	85.6	628.5
50°	138.5	144.5	161.6	188.3	208.7	204.6	194.1	75.2	703.7
55°	110.6	115.5	130.2	150.3	164.6	163.9	160.4	64.4	768.0
60°	89.1	92.4	103.6	120.9	128.5	124.9	123.9	53.5	821.6
65°	74.6	76.3	82.5	95.4	99.4	91.8	89.8	43.7	865.3
70°	64.8	65.1	66.4	73.4	75.2	65.0	61.7	35.1	900.3
75°	56.7	56.1	54.1	55.3	54.0	43.4	39.3	27.4	927.8
80°	48.3	47.2	43.9	40.6	36.4	26.8	21.9	20.7	948.5
85°	39.1	38.0	34.5	29.4	22.9	14.4	9.1	14.9	963.3
90°	29.8	28.8	25.7	20.2	13.1	5.8	0.8	9.9	973.3
95°	24.0	23.5	21.4	16.6	9.9	3.5	0.7	7.9	981.2
100°	19.2	18.8	17.3	13.3	7.4	1.9	0.6	6.2	987.4
105°	15.1	14.8	13.6	10.2	5.0	0.8	0.6	4.6	992.0
110°	11.8	11.3	10.2	7.3	2.9	0.6	0.6	3.3	995.3
115°	9.0	8.5	7.3	4.7	1.4	0.7	0.7	2.3	997.6
120°	6.6	6.1	4.9	2.7	0.8	0.7	0.7	1.5	999.1
125°	4.4	4.0	2.9	1.3	0.7	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							siteco	
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	21.0	22.7	21.4	23.0	23.3	22.9	24.6	23.3	24.9	25.2
	3H	22.2	23.7	22.6	24.0	24.4	23.9	25.4	24.3	25.7	26.1
	4H	22.9	24.3	23.3	24.6	25.0	24.3	25.7	24.7	26.0	26.4
	6H	23.7	24.9	24.1	25.3	25.7	24.5	25.8	25.0	26.2	26.6
	8H	24.1	25.3	24.5	25.7	26.1	24.7	25.8	25.1	26.2	26.6
	12H	24.5	25.6	24.9	26.0	26.4	24.7	25.8	25.1	26.2	26.6
4H	2H	21.9	23.3	22.3	23.6	24.0	23.4	24.8	23.8	25.1	25.5
	3H	23.2	24.4	23.7	24.8	25.2	24.6	25.8	25.1	26.2	26.6
	4H	24.1	25.1	24.5	25.5	26.0	25.1	26.2	25.6	26.6	27.0
	6H	25.0	25.9	25.4	26.3	26.8	25.5	26.4	26.0	26.9	27.3
	8H	25.4	26.3	25.9	26.7	27.2	25.6	26.5	26.1	26.9	27.4
	12H	25.9	26.7	26.4	27.1	27.6	25.7	26.5	26.2	26.9	27.4
8H	4H	24.5	25.3	24.9	25.8	26.2	25.4	26.3	25.9	26.7	27.2
	6H	25.5	26.3	26.0	26.7	27.2	25.9	26.7	26.4	27.1	27.6
	8H	26.1	26.8	26.6	27.3	27.8	26.1	26.8	26.6	27.3	27.8
	12H	26.8	27.3	27.3	27.8	28.3	26.3	26.9	26.8	27.4	27.9
12H	4H	24.5	25.3	25.0	25.8	26.2	25.5	26.2	26.0	26.7	27.2
	6H	25.7	26.3	26.2	26.8	27.3	26.1	26.7	26.6	27.2	27.7
	8H	26.3	26.9	26.8	27.4	27.9	26.3	26.9	26.8	27.4	27.9

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
C-planes	γ	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
			Luminance in cd/m²					
45°		17618.4	18543.7	21238.6	25359.6	28181.8	27196.7	26435.8
50°		15024.4	15763.3	17933.2	21474.0	24687.6	25312.3	25245.3
55°		13015.4	13684.9	15736.7	18749.7	21441.0	22500.4	23372.4
60°		11563.4	12080.9	13856.3	16782.3	18774.1	19427.4	20721.4
65°		10875.3	11223.1	12459.2	15069.0	16685.8	16626.0	17767.0
70°		10855.9	11039.3	11626.7	13555.8	14953.3	14208.6	15079.4
75°		11281.5	11328.4	11355.6	12394.5	13315.0	12068.0	12687.0
80°		11948.4	11886.3	11626.3	11707.0	11893.6	10371.0	10524.7
85°		12898.8	12828.9	12479.0	12019.7	11262.4	9224.1	8749.1

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Luminance values in cd/m²

γ 65°

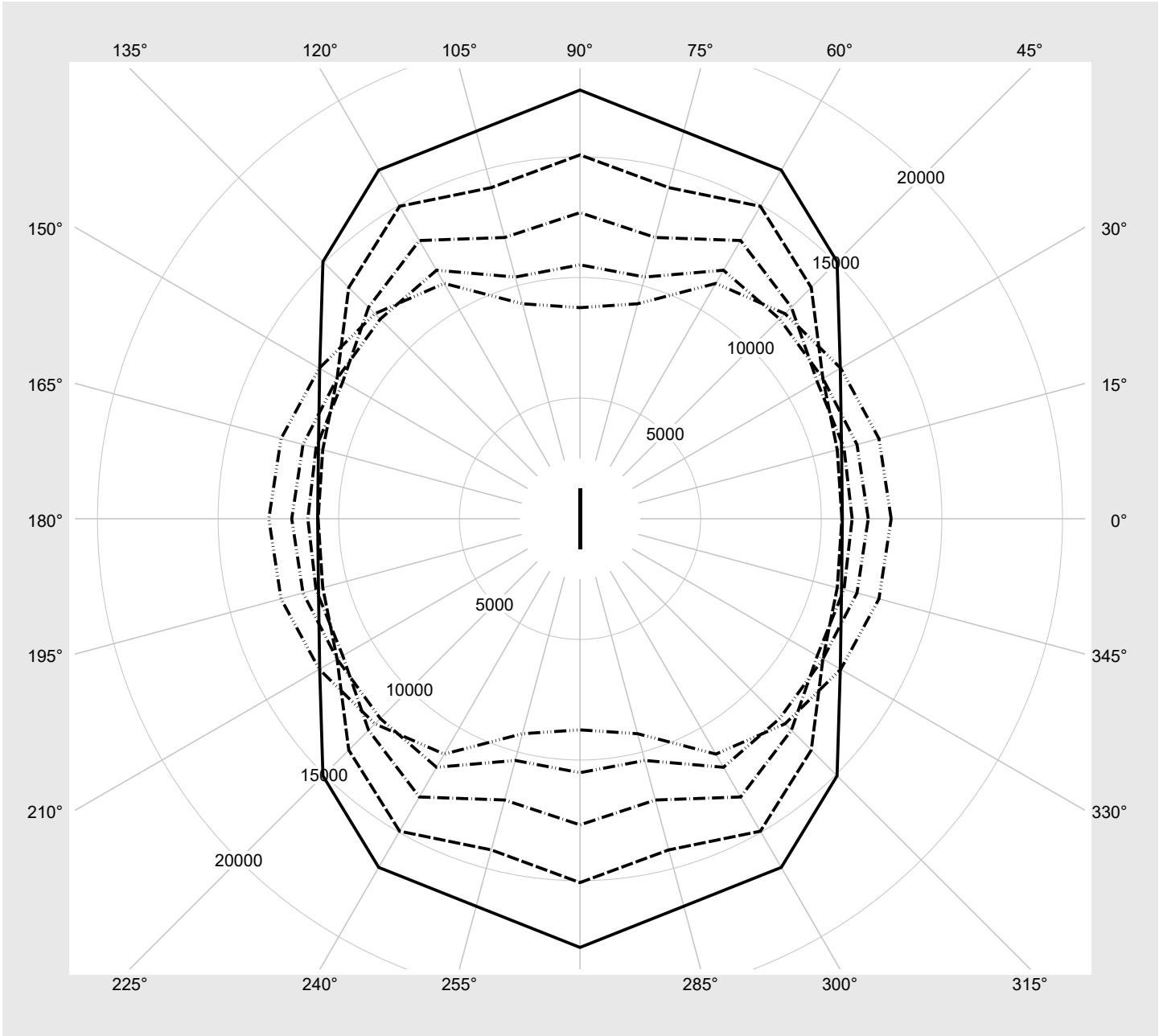
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Dimming levels table		environmental temperature: 25°C
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	9650	59.1
95	240	252	9164	55.9
90	226	250	8670	52.5
85	213	248	8210	49.4
80	199	245	7706	46.2
75	186	243	7234	43.1
70	173	240	6757	40.1
65	160	237	6277	37.0
60	147	234	5789	34.0
55	134	231	5299	31.0
50	122	227	4841	28.2
45	109	223	4342	25.3
40	97	219	3876	22.6
35	84	213	3367	19.7
30	72	208	2895	17.0
25	60	201	2418	14.4
20	48	193	1938	11.7
15	36	182	1454	8.7
10	24	168	967	6.1
5	12	142	478	3.5
2	6	117	232	2.1