

Photometric test report

Family
Licross® 11 Performance

Order number: 51TD16VND8XG
EAN: 4058352971215

LP number
58520_356



Version cover frosted, direct-/ indirect distribution
Lamps LED 4000 K | CRI ≥ 90
Controlgear ECG-DALI CLO
Rated values Net luminous flux = 8000 lm
 Power consumption = 48.3 W
 Luminous efficacy = 165.6 lm/W

serial
documentation
05.10.2023

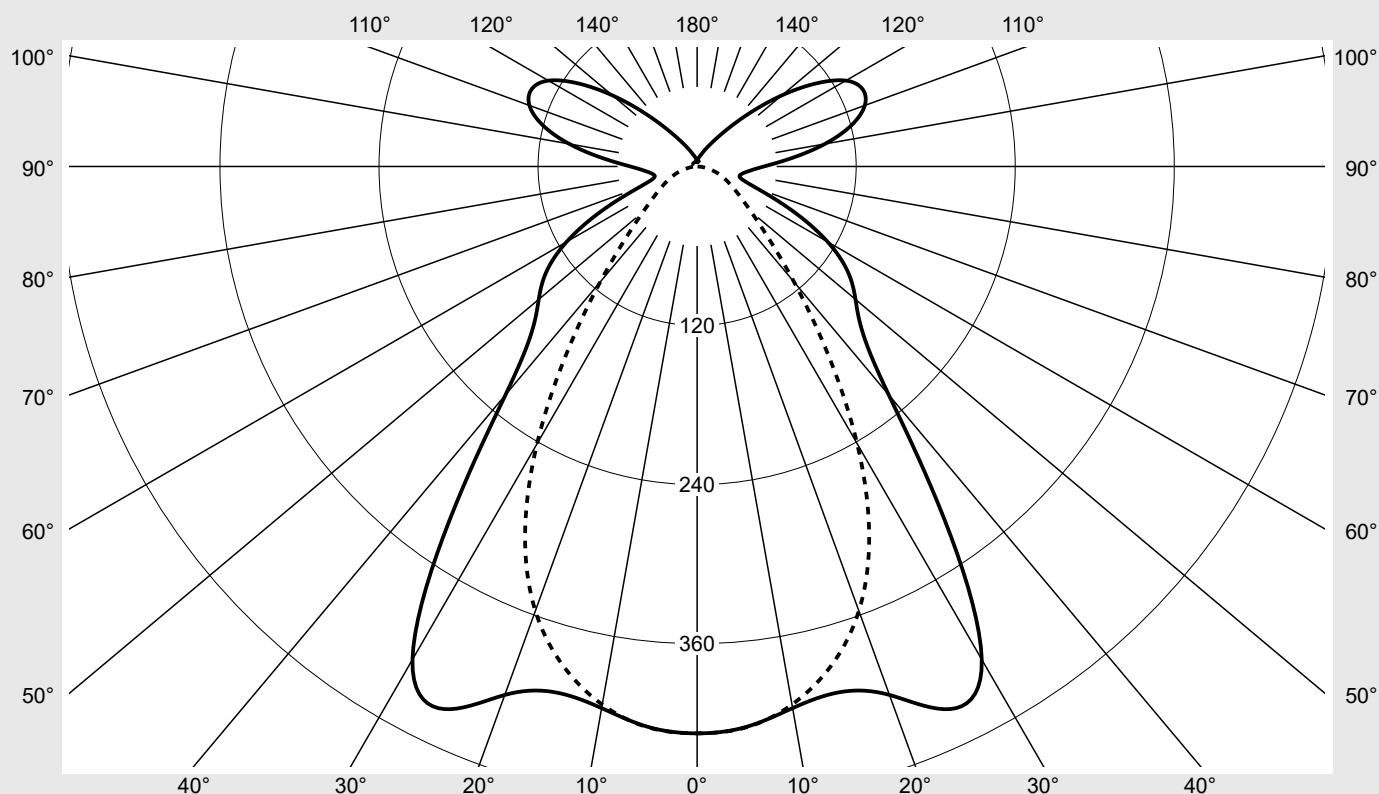
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Luminous intensity in cd/klm

C180-0

C270-90

Imax: 452 cd/klm



Classifications

DIN 5040 B 5 1
 CIE N1=65 N2=88 N3=96
 N4=79 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 79.3%
 ϕ_o 20.7%

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	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°	427.7	427.7	427.7	427.7	427.7	427.7	427.7	2.6	2.6
5°	424.4	422.4	420.2	422.1	424.3	424.4	424.8	20.2	22.8
10°	414.9	412.5	408.9	409.5	411.2	411.6	412.2	39.1	61.9
15°	410.8	406.7	398.1	393.2	390.9	389.7	390.1	56.3	118.2
20°	424.3	415.5	394.5	375.8	364.0	357.7	356.8	71.8	190.0
25°	451.7	439.9	403.9	360.3	329.2	311.6	307.2	85.9	275.8
30°	429.5	430.9	412.5	347.4	284.5	251.0	241.5	94.2	370.0
35°	325.6	344.5	379.3	329.0	231.5	183.8	171.0	89.9	460.0
40°	224.9	238.5	293.1	289.7	177.2	125.7	113.8	76.0	535.9
45°	176.4	174.8	199.5	224.7	128.0	84.3	75.7	60.6	596.5
50°	156.0	144.3	136.6	154.2	90.2	58.9	53.2	48.2	644.7
55°	139.0	122.9	98.4	99.7	63.9	43.4	39.8	38.7	683.4
60°	113.7	99.1	72.2	64.7	46.3	33.0	30.8	30.7	714.1
65°	79.7	70.2	51.6	43.8	34.5	25.6	24.0	23.0	737.1
70°	47.7	43.4	35.6	31.1	26.2	19.7	18.2	16.2	753.3
75°	33.9	31.2	26.1	23.2	19.9	14.4	12.7	12.2	765.5
80°	33.7	30.7	23.7	18.2	15.1	9.9	7.5	10.6	776.1
85°	39.3	35.6	26.3	17.2	11.4	6.2	3.2	10.7	786.9
90°	50.4	45.6	32.3	18.9	10.0	3.9	0.6	12.4	799.3
95°	71.3	63.5	42.3	22.5	11.4	4.6	1.0	16.4	815.7
100°	97.9	84.6	52.5	26.5	12.9	5.3	1.6	20.8	836.6
105°	120.7	101.7	62.6	30.2	14.2	6.1	2.4	24.4	860.9
110°	134.6	112.6	69.4	33.2	15.3	6.7	2.9	26.3	887.2
115°	137.8	115.5	72.0	34.6	16.0	7.2	3.2	26.1	913.3
120°	129.6	108.9	68.7	33.6	15.7	7.4	3.5	23.8	937.1
125°	109.1	92.2	59.5	30.3	14.7	7.4	3.7	19.5	956.6
130°	83.4	71.0	47.4	25.5	13.2	7.2	3.7	14.5	971.2
135°	58.6	50.3	35.1	20.5	11.4	6.8	3.7	10.0	981.2
140°	39.2	34.3	25.3	16.3	9.8	6.3	3.7	6.7	987.9
145°	26.6	23.8	18.6	13.0	8.2	5.4	3.7	4.4	992.3
150°	18.7	17.2	14.2	10.0	6.9	5.0	3.7	2.9	995.2
155°	13.8	12.8	10.8	7.8	6.8	4.4	3.6	2.0	997.2
160°	10.2	9.8	7.9	6.8	5.6	4.6	3.5	1.3	998.5
165°	8.2	7.8	6.5	5.6	5.0	4.1	3.7	0.8	999.3
170°	6.4	5.6	4.7	4.7	5.0	4.1	3.9	0.5	999.8
175°	4.2	3.7	4.1	4.1	4.1	4.2	4.2	0.2	1000.0
180°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	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	18.3	19.6	18.9	20.1	20.8	14.5	15.8	15.1	16.3	17.0
	3H	18.9	20.0	19.5	20.6	21.3	14.9	16.0	15.5	16.6	17.3
	4H	19.1	20.1	19.7	20.7	21.4	15.1	16.2	15.7	16.8	17.5
	6H	19.3	20.2	20.0	20.9	21.6	15.2	16.2	15.9	16.8	17.6
	8H	19.6	20.4	20.3	21.0	21.8	15.2	16.1	15.9	16.8	17.5
	12H	19.9	20.6	20.6	21.3	22.1	15.3	16.1	15.9	16.8	17.5
4H	2H	18.3	19.4	18.9	20.0	20.6	15.0	16.0	15.6	16.6	17.3
	3H	19.0	19.8	19.6	20.5	21.3	15.5	16.4	16.2	17.0	17.8
	4H	19.2	20.0	19.9	20.7	21.5	15.8	16.6	16.5	17.3	18.1
	6H	19.7	20.3	20.4	21.0	21.9	16.0	16.7	16.7	17.4	18.2
	8H	20.0	20.6	20.7	21.3	22.2	16.1	16.7	16.8	17.4	18.3
	12H	20.5	21.0	21.3	21.8	22.7	16.1	16.7	16.9	17.4	18.3
8H	4H	19.2	19.8	19.9	20.5	21.4	16.0	16.6	16.7	17.3	18.1
	6H	19.8	20.3	20.5	21.0	21.9	16.4	16.8	17.1	17.6	18.5
	8H	20.3	20.7	21.0	21.5	22.3	16.5	17.0	17.3	17.7	18.6
	12H	21.0	21.4	21.8	22.2	23.1	16.6	17.0	17.4	17.8	18.7
12H	4H	19.1	19.7	19.9	20.4	21.3	16.0	16.5	16.8	17.2	18.1
	6H	19.7	20.2	20.5	20.9	21.8	16.5	16.9	17.2	17.6	18.6
	8H	20.3	20.7	21.1	21.4	22.4	16.7	17.1	17.5	17.8	18.8

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1480 B = 115		H(C0) = 36 H(C90) = 0		H(C180) = 36 H(C270) = 0	
C- planes	γ	0°	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°	8931.2	8921.7	10433.5	12229.7	7359.8	5184.5	5029.2			
	50°	8308.1	7754.4	7547.0	8922.8	5560.5	3929.9	3888.0			
	55°	7871.4	7035.6	5814.1	6209.4	4279.4	3187.5	3259.7			
	60°	6930.0	6115.8	4616.8	4397.1	3427.6	2724.5	2895.1			
	65°	5306.8	4733.0	3626.9	3303.4	2876.7	2428.3	2673.1			
	70°	3522.9	3257.2	2804.1	2661.5	2513.3	2213.0	2505.7			
	75°	2843.3	2659.9	2357.0	2307.4	2284.6	2012.7	2308.4			
	80°	3289.8	3063.7	2528.0	2181.5	2168.8	1839.6	2032.0			
	85°	4626.2	4314.3	3459.1	2628.3	2198.9	1739.1	1730.1			

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Luminance values in cd/m²

γ 65°

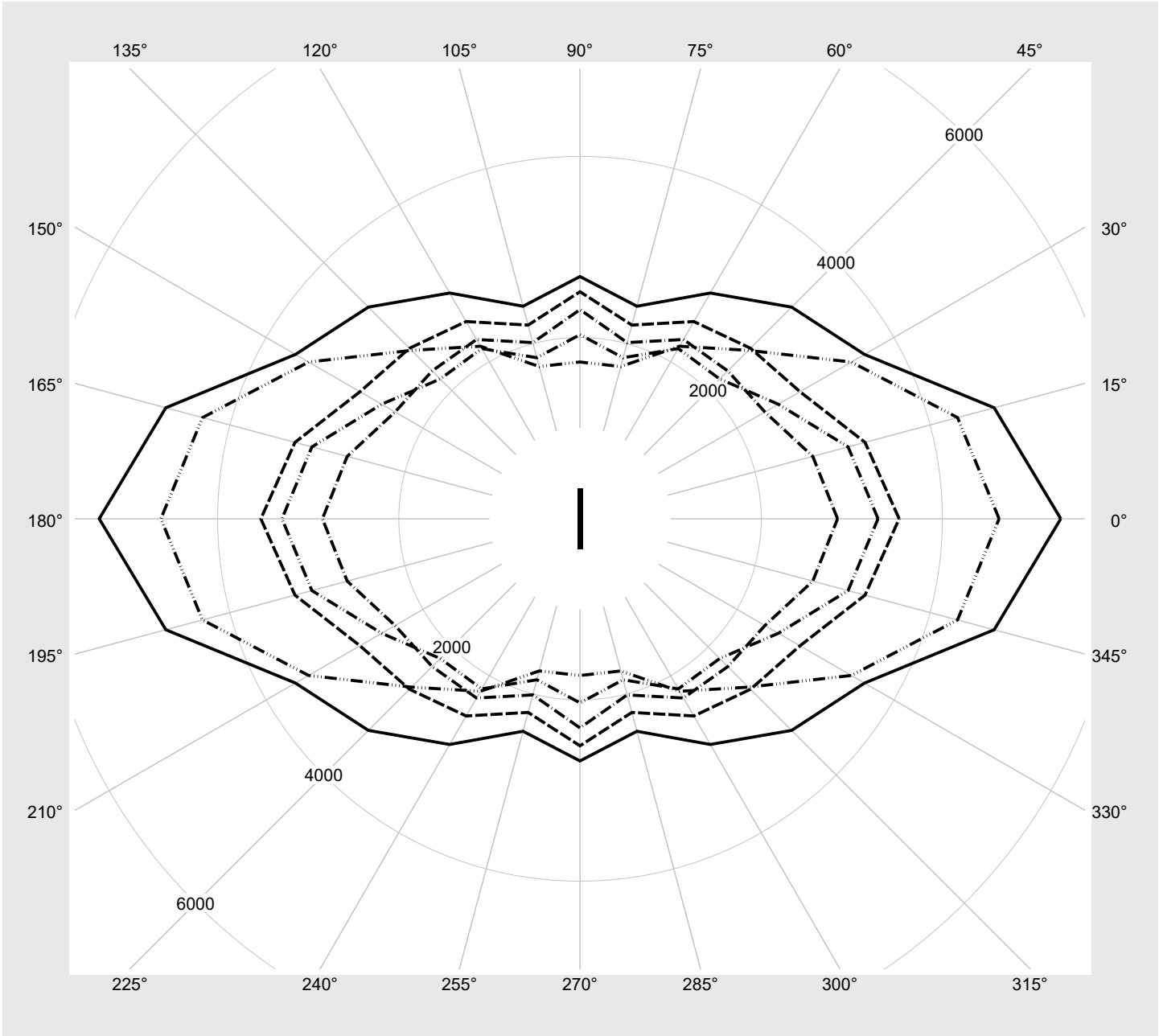
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C

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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W] start of lifetime	Power consumption [W] end of lifetime	Power consumption [W] average
100	254	254	8000	48.3	53.0	50.6
95	240	252	7597	45.7	50.1	47.9
90	226	250	7191	43.1	47.2	45.2
85	213	248	6810	40.7	44.6	42.7
80	199	245	6392	38.0	41.8	39.9
75	186	243	6003	35.6	39.0	37.3
70	173	240	5611	33.2	36.3	34.8
65	160	237	5215	30.9	33.7	32.3
60	147	234	4814	28.6	31.1	29.8
55	134	231	4408	26.1	28.6	27.4
50	121	227	3999	23.8	25.9	24.8
45	108	223	3588	21.5	23.4	22.4
40	96	218	3203	19.3	21.0	20.2
35	84	213	2813	17.2	18.6	17.9
30	71	207	2390	14.8	16.1	15.4
25	59	201	1996	12.7	13.7	13.2
20	47	192	1597	10.5	11.3	10.9
15	35	181	1196	8.4	9.0	8.7
10	23	166	788	6.2	6.6	6.4
5	12	142	413	4.3	4.5	4.4
2	5	110	174	3.1	3.2	3.2