

Photometric test report

Family
Licross® Protected

Order number: 51TS12DN48XFD
EAN: 4058352418611

LP number
58522_38



Version prismatic cover, frosted, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Setting AC-mode
Rated values Net luminous flux = 8470 lm
Power consumption = 56.2 W
Luminous efficacy = 150.7 lm/W

serial
documentation
26.08.2020

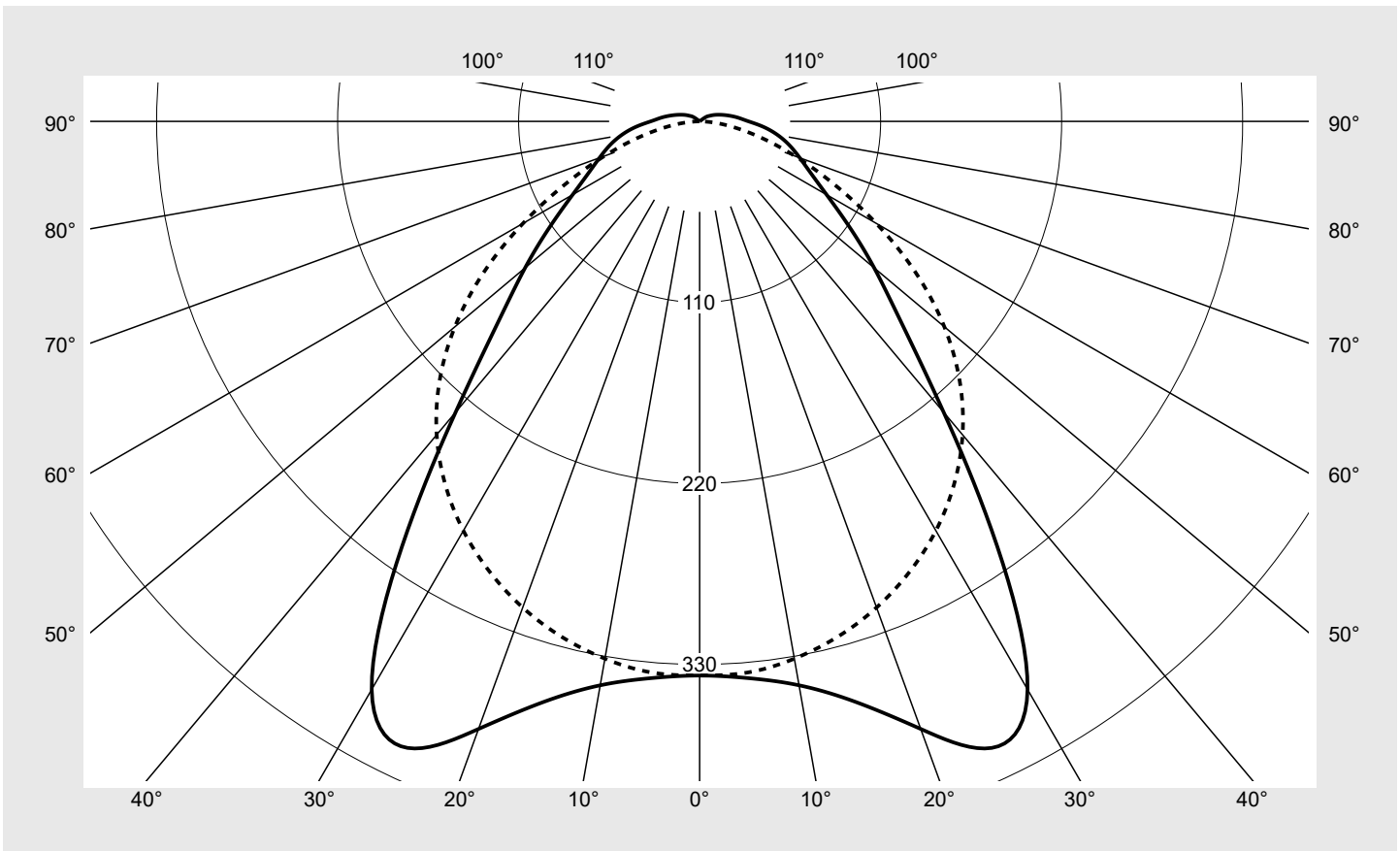
sitEco

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 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°	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
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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	20.6	22.2	21.0	22.5	22.9	22.5	24.1	22.8	24.4	24.7
	3H	21.8	23.2	22.1	23.6	23.9	23.5	25.0	23.9	25.3	25.6
	4H	22.5	23.8	22.8	24.2	24.6	23.8	25.2	24.2	25.6	25.9
	6H	23.2	24.5	23.6	24.9	25.3	24.1	25.4	24.5	25.7	26.1
	8H	23.6	24.8	24.0	25.2	25.6	24.2	25.4	24.6	25.8	26.2
	12H	24.0	25.1	24.4	25.5	25.9	24.3	25.4	24.7	25.8	26.2
4H	2H	21.4	22.8	21.8	23.2	23.5	22.9	24.3	23.3	24.7	25.0
	3H	22.8	24.0	23.2	24.4	24.8	24.2	25.4	24.6	25.8	26.2
	4H	23.6	24.7	24.0	25.1	25.5	24.7	25.8	25.1	26.2	26.6
	6H	24.5	25.4	25.0	25.9	26.3	25.0	26.0	25.5	26.4	26.9
	8H	25.0	25.8	25.4	26.3	26.7	25.2	26.0	25.6	26.5	26.9
	12H	25.5	26.2	25.9	26.7	27.2	25.3	26.0	25.8	26.5	27.0
8H	4H	24.0	24.9	24.5	25.3	25.8	25.0	25.8	25.4	26.3	26.7
	6H	25.1	25.8	25.6	26.3	26.8	25.5	26.2	26.0	26.7	27.2
	8H	25.7	26.3	26.2	26.8	27.3	25.7	26.3	26.2	26.8	27.3
	12H	26.3	26.9	26.8	27.4	27.9	25.9	26.4	26.4	26.9	27.4
12H	4H	24.1	24.8	24.6	25.3	25.8	25.0	25.8	25.5	26.2	26.7
	6H	25.2	25.8	25.7	26.3	26.8	25.6	26.2	26.1	26.7	27.2
	8H	25.9	26.4	26.4	26.9	27.4	25.9	26.4	26.4	26.9	27.4

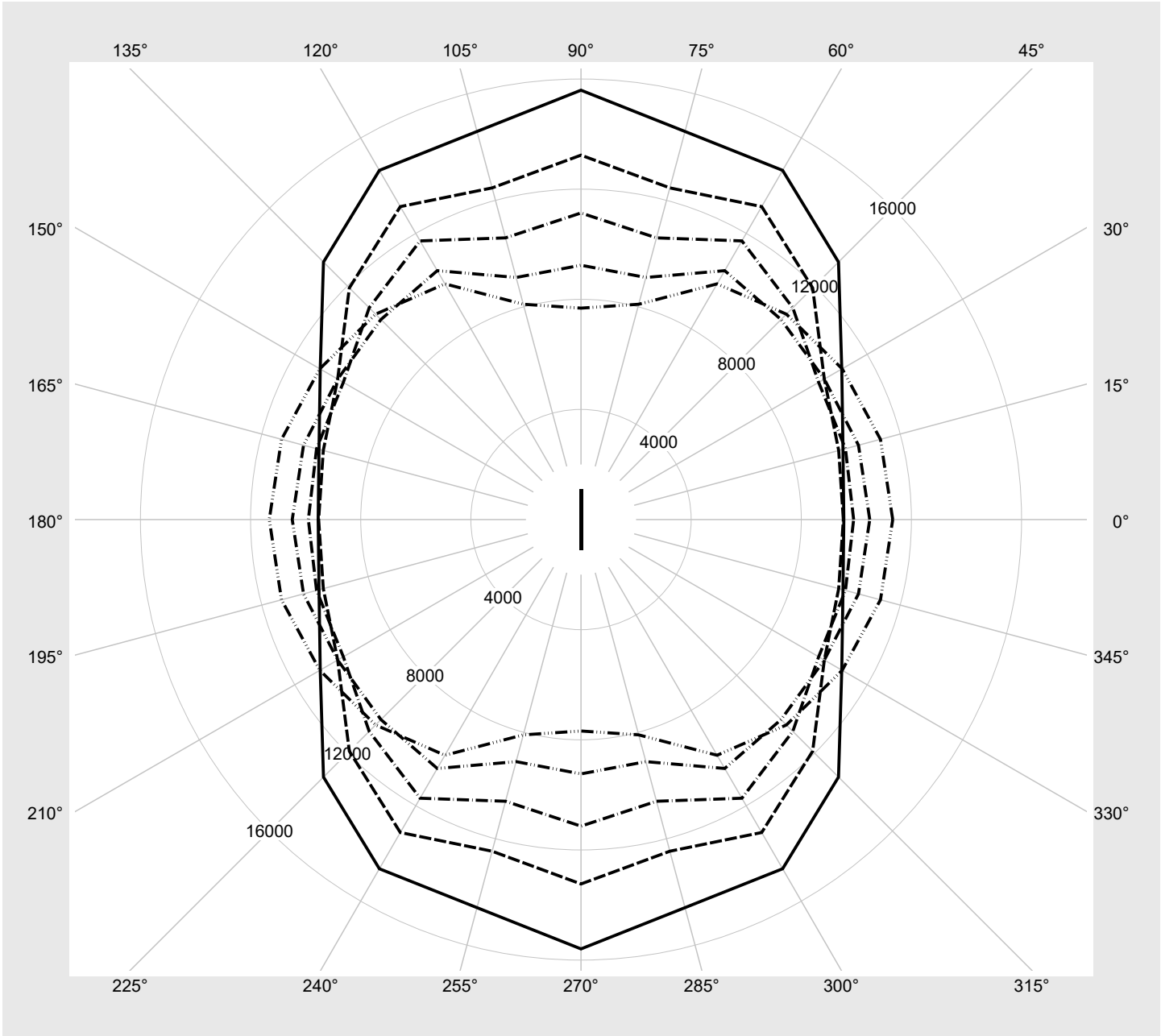
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1480	H(C0) = 13	H(C180) = 13
			B = 78	H(C90) = 0	H(C270) = 0

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°		15464.0	16276.2	18641.5	22258.6	24735.8	23871.1	23203.3	
50°		13187.2	13835.8	15740.3	18848.1	21668.8	22217.1	22158.3	
55°		11423.8	12011.5	13812.5	16457.0	18819.2	19749.1	20514.4	
60°		10149.4	10603.7	12161.9	14730.2	16478.4	17051.8	18187.6	
65°		9545.4	9850.7	10935.7	13226.4	14645.5	14593.0	15594.5	
70°		9528.5	9689.4	10205.0	11898.2	13124.8	12471.2	13235.5	
75°		9902.0	9943.2	9967.0	10878.9	11686.9	10592.4	11135.6	
80°		10487.4	10432.9	10204.6	10275.5	10439.2	9102.8	9237.8	
85°		11321.5	11260.2	10953.1	10549.9	9885.2	8096.2	7679.3	

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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	sITeco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	8470	56.2
95	241	252	8046	53.2
90	227	250	7614	50.1
85	214	248	7192	47.3
80	201	245	6791	44.4
75	187	243	6337	41.4
70	175	240	5926	38.6
65	162	238	5504	35.8
60	149	234	5082	33.0
55	136	231	4659	30.2
50	123	227	4238	27.5
45	111	224	3827	25.0
40	98	219	3404	22.3
35	85	214	2960	19.7
30	73	208	2548	17.1
25	60	201	2102	14.4
20	49	194	1703	12.1
15	36	182	1256	9.5
10	25	169	857	7.3
5	13	145	445	4.7