

Photometric test report

Family
Licross® Protected

Order number: 51TS12CN4C5L
EAN: 4058352298527

LP number
58521_10



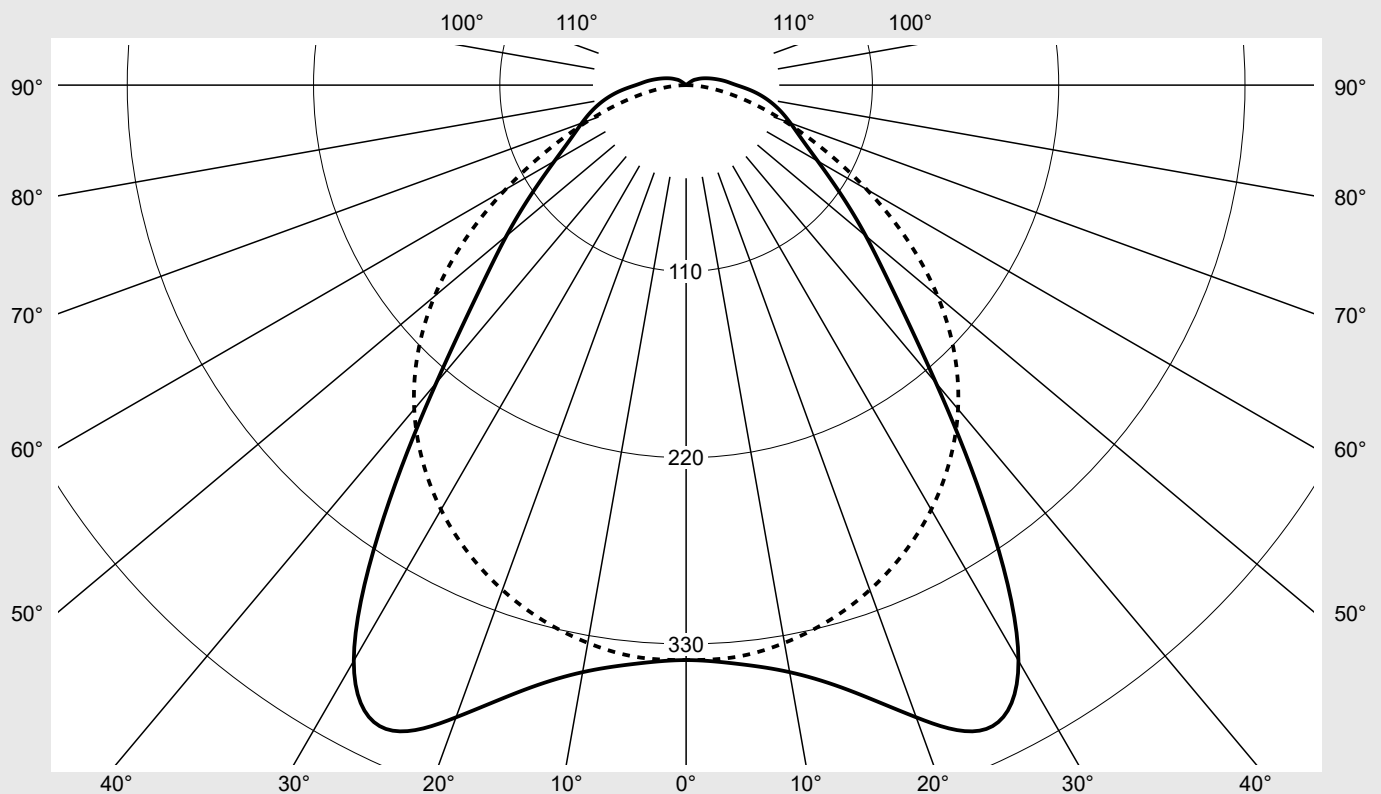
Version prismatic cover, frosted, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-Multilumen CLOi
Rated values Net luminous flux = 12600 lm
Power consumption = 78.7 W
Luminous efficacy = 160.1 lm/W

serial
documentation
12.12.2019

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
		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°	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	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	22.0	23.6	22.3	23.9	24.2	23.8	25.5	24.2	25.8	26.1
	3H	23.2	24.6	23.5	25.0	25.3	24.8	26.3	25.2	26.6	27.0
	4H	23.9	25.2	24.2	25.6	26.0	25.2	26.6	25.6	26.9	27.3
	6H	24.6	25.9	25.0	26.3	26.7	25.4	26.7	25.9	27.1	27.5
	8H	25.0	26.2	25.5	26.6	27.0	25.6	26.7	26.0	27.1	27.5
	12H	25.4	26.6	25.8	26.9	27.4	25.6	26.7	26.0	27.1	27.5
4H	2H	22.8	24.2	23.2	24.5	24.9	24.3	25.6	24.7	26.0	26.4
	3H	24.2	25.4	24.6	25.7	26.1	25.5	26.7	26.0	27.1	27.5
	4H	25.0	26.1	25.4	26.5	26.9	26.0	27.1	26.5	27.5	27.9
	6H	25.9	26.8	26.4	27.3	27.7	26.4	27.3	26.8	27.8	28.2
	8H	26.4	27.2	26.8	27.7	28.1	26.5	27.4	27.0	27.8	28.3
	12H	26.9	27.6	27.3	28.1	28.6	26.6	27.4	27.1	27.8	28.3
8H	4H	25.4	26.3	25.9	26.7	27.2	26.3	27.2	26.8	27.6	28.1
	6H	26.5	27.2	27.0	27.7	28.2	26.8	27.6	27.3	28.0	28.5
	8H	27.1	27.7	27.6	28.2	28.7	27.0	27.7	27.5	28.2	28.7
	12H	27.7	28.3	28.2	28.8	29.3	27.2	27.8	27.7	28.3	28.8
12H	4H	25.5	26.2	26.0	26.7	27.2	26.4	27.1	26.9	27.6	28.1
	6H	26.6	27.2	27.1	27.7	28.2	27.0	27.6	27.5	28.1	28.6
	8H	27.3	27.8	27.8	28.3	28.9	27.2	27.8	27.7	28.3	28.8

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°	23020.7	24191.9	27590.0	32782.3	36522.2	35496.4	34587.0	
	50°	19626.6	20575.5	23360.0	27850.7	31975.9	32916.0	32924.7	
	55°	17040.4	17883.8	20496.2	24347.0	27782.5	29204.9	30363.3	
	60°	15206.4	15856.8	18077.6	21784.5	24324.2	25216.0	26864.5	
	65°	14333.4	14773.8	16306.5	19557.7	21605.2	21577.4	23030.5	
	70°	14348.6	14557.2	15263.7	17627.2	19345.1	18442.3	19577.4	
	75°	14870.4	14918.2	14930.8	16188.2	17253.9	15691.5	16540.5	
	80°	15688.9	15605.7	15246.8	15306.2	15469.7	13525.2	13791.8	
	85°	16855.7	16780.6	16335.9	15693.6	14645.0	12077.5	11549.0	

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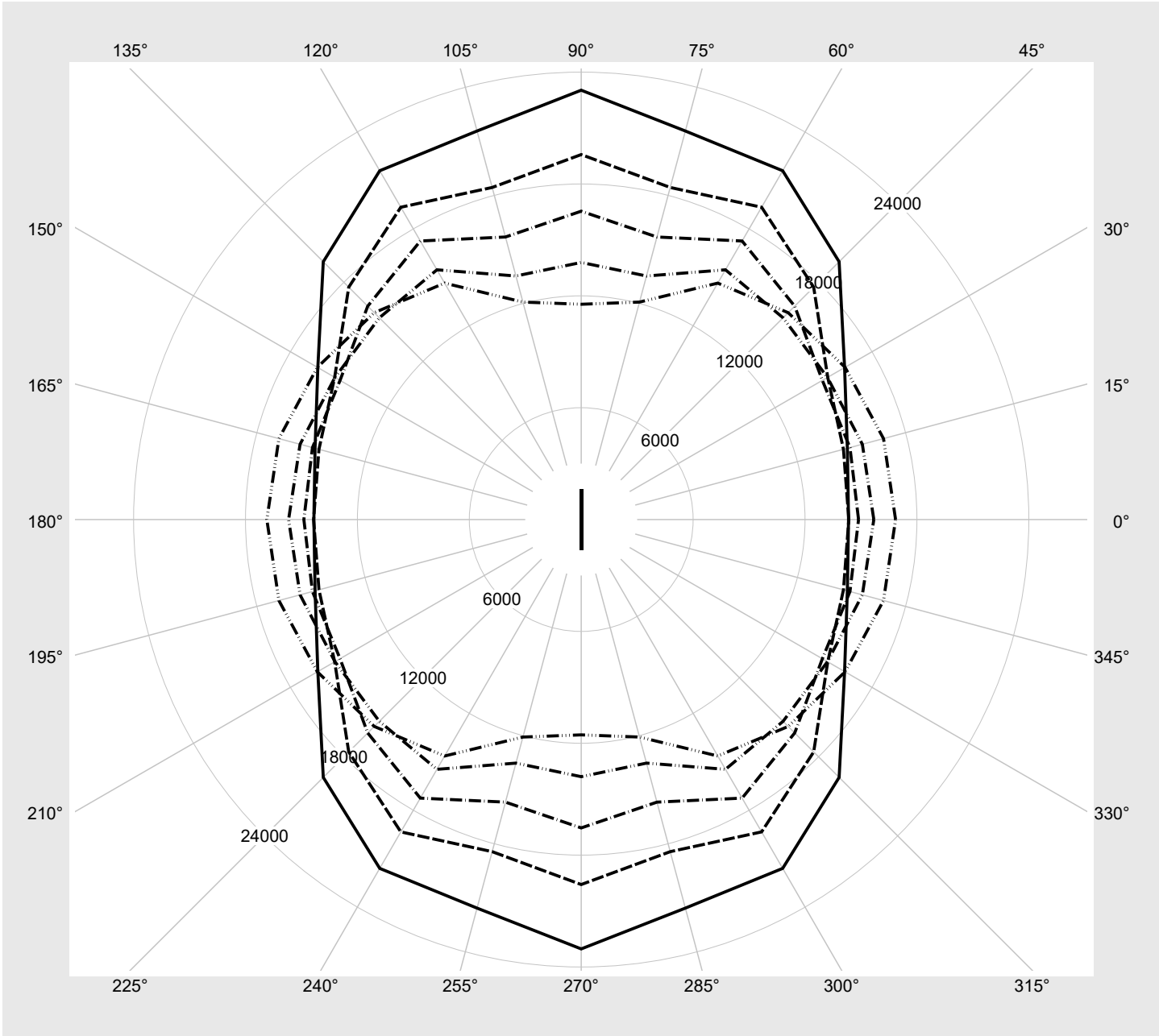
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



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Multilumen Table	environmental temperature: 25°C	sITeco
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]	Power consumption	Power consumption
	1	2	3			end of lifetime [W]	average [W]
1	A	C	E	12600	78.7	87.9	83.3
2	A	C	F	11060	67.9	75.6	71.8
3	A	D	E	10070	61.3	68.0	64.6
4	A	D	F	9070	54.7	60.5	57.6
5	B	C	E	8060	48.2	53.5	50.8
6	B	C	F	7100	42.2	46.5	44.4
7	B	D	E	6050	35.8	39.2	37.5
8	B	D	F	5060	30.0	32.9	31.4