

Photometric test report

Family
Licross® 11 Protected

Order number: 51TD13MN4GXS
EAN: 4058352928806

LP number
58527_93



Version prismatic cover, frosted, extremely narrow distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG Multilumen
Rated values Net luminous flux = 16110 lm
Power consumption = 87.4 W
Luminous efficacy = 184.3 lm/W

serial
documentation
11.10.2023

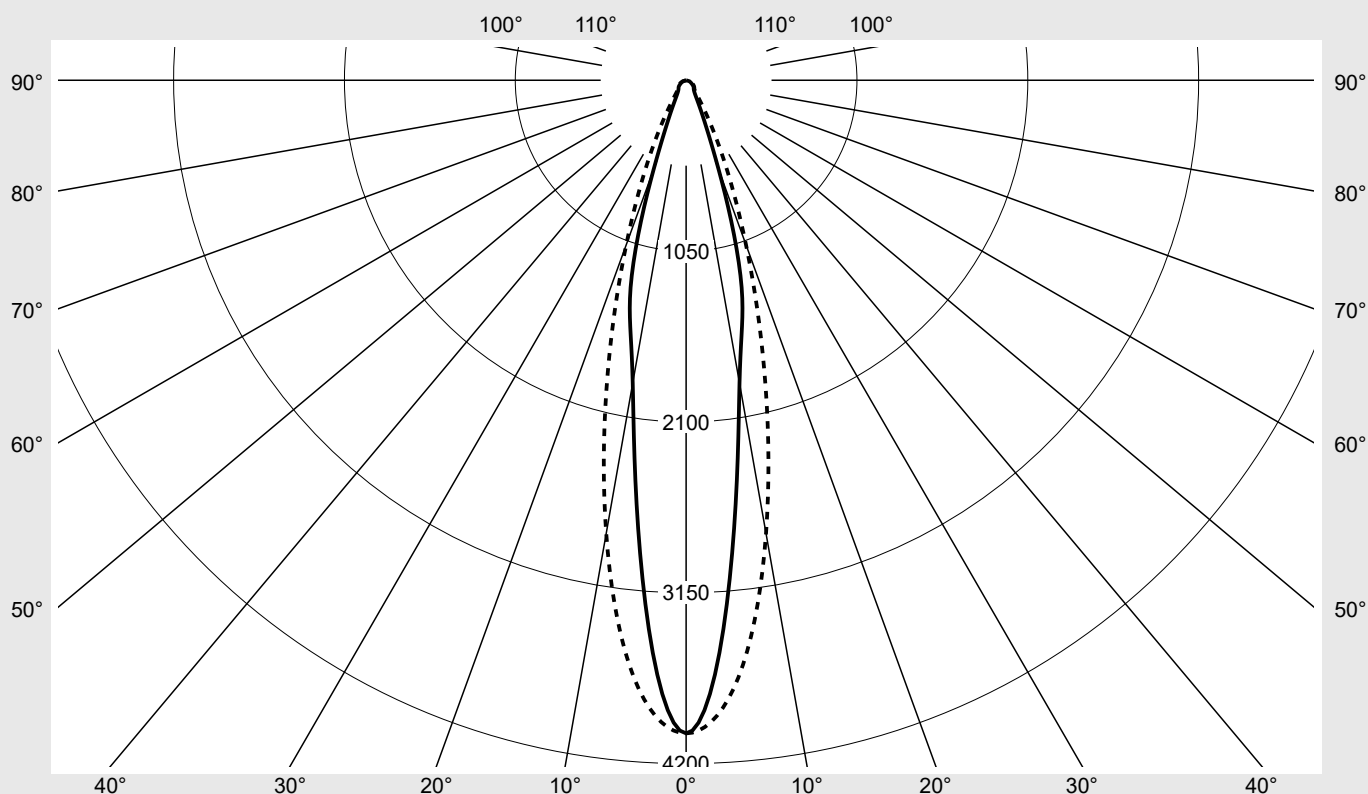
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 4014 cd/klm



Classifications

DIN 5040 A 8 1
CIE N1=89 N2=96 N3=99
N4=100 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 99.7%
 ϕ_o 0.3%

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°	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	24.0	24.0
5°	3075.0	3073.4	3140.6	3286.7	3470.0	3619.0	3684.9	159.0	183.0
10°	1889.9	1876.2	1856.5	1927.7	2182.7	2591.5	2828.1	203.0	386.0
15°	1318.5	1331.1	1324.1	1227.2	1167.4	1498.4	1861.2	192.4	578.4
20°	585.4	606.8	689.8	798.0	693.5	737.0	1075.9	136.1	714.5
25°	239.7	246.3	276.4	361.8	426.5	351.4	567.8	79.8	794.2
30°	128.7	127.4	129.3	152.0	214.6	178.7	273.1	45.8	840.1
35°	88.6	83.8	76.3	80.1	101.4	103.4	134.8	29.2	869.2
40°	73.1	66.6	55.1	52.3	60.4	70.8	85.4	22.6	891.8
45°	65.6	58.2	44.9	39.5	42.7	55.1	71.6	20.0	911.8
50°	58.1	50.6	38.4	32.4	32.8	44.4	65.0	18.2	930.0
55°	47.1	41.7	33.1	27.2	26.3	35.1	57.2	16.1	946.1
60°	37.8	33.0	27.8	22.9	21.3	27.1	47.5	13.8	959.9
65°	30.0	25.5	22.6	19.4	17.3	20.3	35.6	11.4	971.3
70°	23.9	19.8	17.3	16.1	13.9	14.7	23.4	9.1	980.4
75°	19.2	15.7	12.9	12.9	10.8	10.0	13.4	6.9	987.3
80°	14.6	12.1	9.7	9.6	7.9	6.2	6.6	5.0	992.4
85°	10.5	9.0	7.3	6.7	5.6	3.2	2.3	3.5	995.8
90°	7.5	6.5	5.5	4.5	3.7	1.4	0.2	2.3	998.2
95°	6.1	5.4	4.5	3.6	2.8	0.8	0.2	1.8	1000.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	15.1	16.2	15.5	16.5	16.9	15.7	16.8	16.0	17.1	17.4
	3H	16.8	17.5	17.1	17.8	18.2	17.2	17.9	17.6	18.3	18.6
	4H	17.2	18.1	17.6	18.4	18.8	17.4	18.3	17.8	18.6	19.0
	6H	17.6	18.6	18.0	19.0	19.4	17.4	18.4	17.8	18.8	19.2
	8H	18.2	18.9	18.7	19.3	19.7	17.6	18.4	18.0	18.8	19.2
	12H	18.2	19.1	18.7	19.5	19.9	17.6	18.4	18.0	18.8	19.2
4H	2H	15.4	16.3	15.8	16.6	17.0	15.8	16.7	16.2	17.1	17.5
	3H	16.9	17.6	17.3	18.0	18.4	17.2	17.9	17.6	18.3	18.7
	4H	17.7	18.3	18.1	18.7	19.2	17.7	18.3	18.1	18.8	19.2
	6H	18.2	19.0	18.7	19.4	19.9	17.8	18.6	18.2	19.0	19.4
	8H	18.9	19.4	19.3	19.8	20.3	18.2	18.6	18.6	19.1	19.6
	12H	19.0	19.6	19.5	20.1	20.6	17.9	18.6	18.4	19.0	19.5
8H	4H	17.8	18.3	18.3	18.8	19.3	17.8	18.3	18.3	18.8	19.3
	6H	19.1	19.2	19.6	19.7	20.2	18.3	18.7	18.8	19.2	19.7
	8H	19.2	19.6	19.7	20.0	20.6	18.5	18.8	19.0	19.3	19.8
	12H	19.4	19.9	19.9	20.4	21.0	18.3	18.8	18.8	19.3	19.9
12H	4H	17.6	18.2	18.1	18.7	19.2	17.6	18.3	18.1	18.7	19.2
	6H	18.5	19.1	19.0	19.6	20.1	18.1	18.7	18.6	19.1	19.7
	8H	19.0	19.5	19.5	20.0	20.6	18.3	18.8	18.8	19.3	19.9

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°	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°	11105.4	9887.4	7747.6	6973.4	7787.1	10433.6	14134.2			
	50°	10514.5	9210.6	7110.1	6166.4	6471.6	9171.3	14111.0			
	55°	9265.8	8243.6	6678.0	5658.4	5715.3	8041.8	13909.4			
	60°	8189.2	7193.7	6211.8	5307.3	5201.0	7030.4	13245.5			
	65°	7302.8	6251.3	5697.5	5112.6	4859.1	6141.4	11766.1			
	70°	6688.3	5610.7	5043.6	4972.6	4611.9	5354.8	9539.6			
	75°	6370.2	5274.3	4510.0	4826.3	4422.1	4646.1	7234.3			
	80°	6013.3	5096.7	4292.7	4609.9	4319.5	3993.6	5265.5			
	85°	5804.5	5057.1	4426.9	4597.5	4553.0	3438.2	3681.1			

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Luminance values in cd/m²

γ 65°

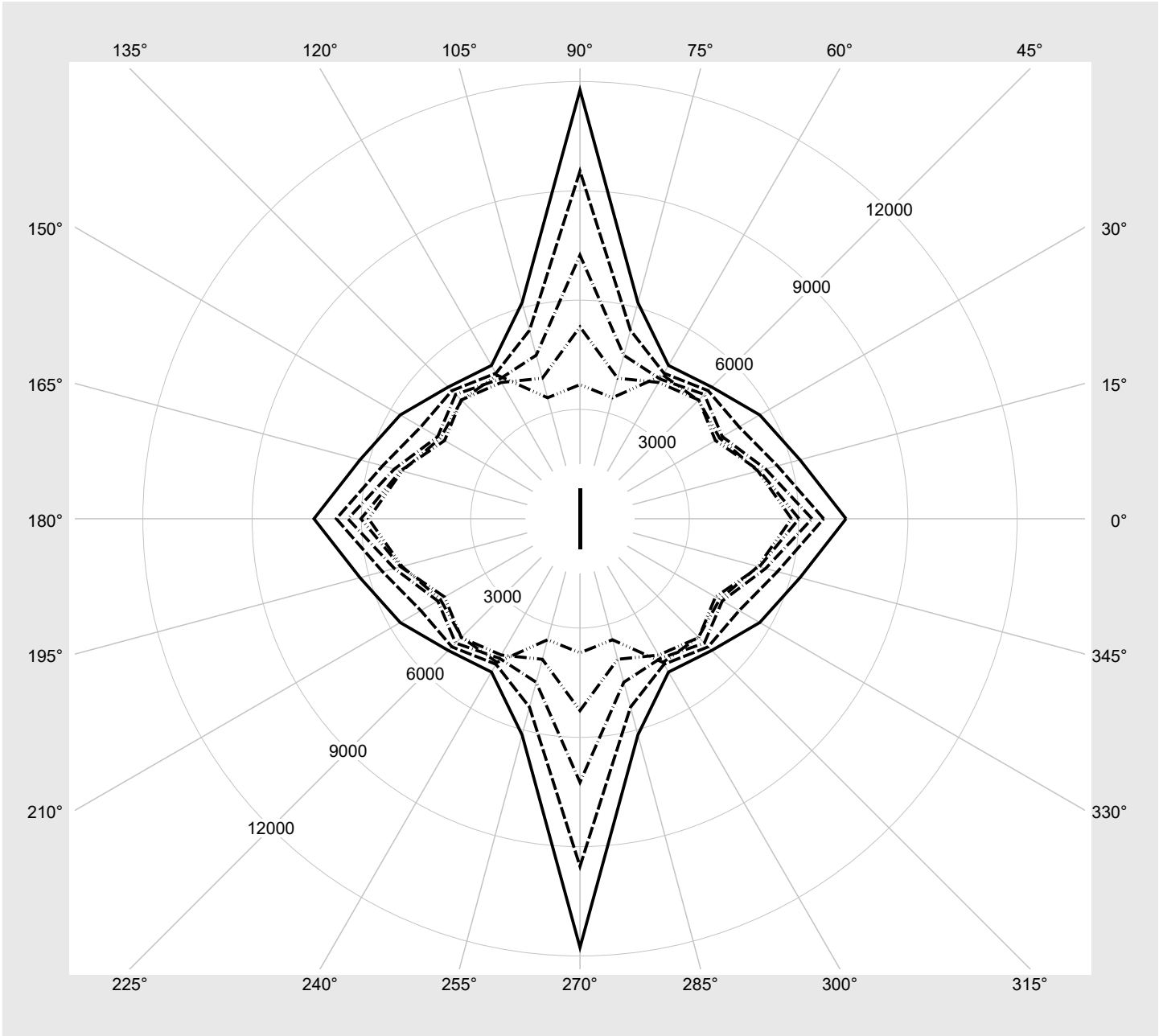
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Multilumen Table	environmental temperature: 25°C	siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	16110	87.4
2	A	C	F	15310	82.6
3	A	D	E	14280	76.2
4	A	D	F	13240	70.1
5	B	C	E	12260	64.3
6	B	C	F	11180	58.3
7	B	D	E	10180	52.6
8	B	D	F	9160	47.0