

Photometric test report

Family
Licross® 21 Protected



Order number: 52TD13MN4FXS
EAN: 4058352902943

LP number
58527_73

Version prismatic cover, frosted, extremely narrow distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG Multilumen
Rated values Net luminous flux = 15060 lm
Power consumption = 83.2 W
Luminous efficacy = 181 lm/W

serial
documentation
24.08.2023

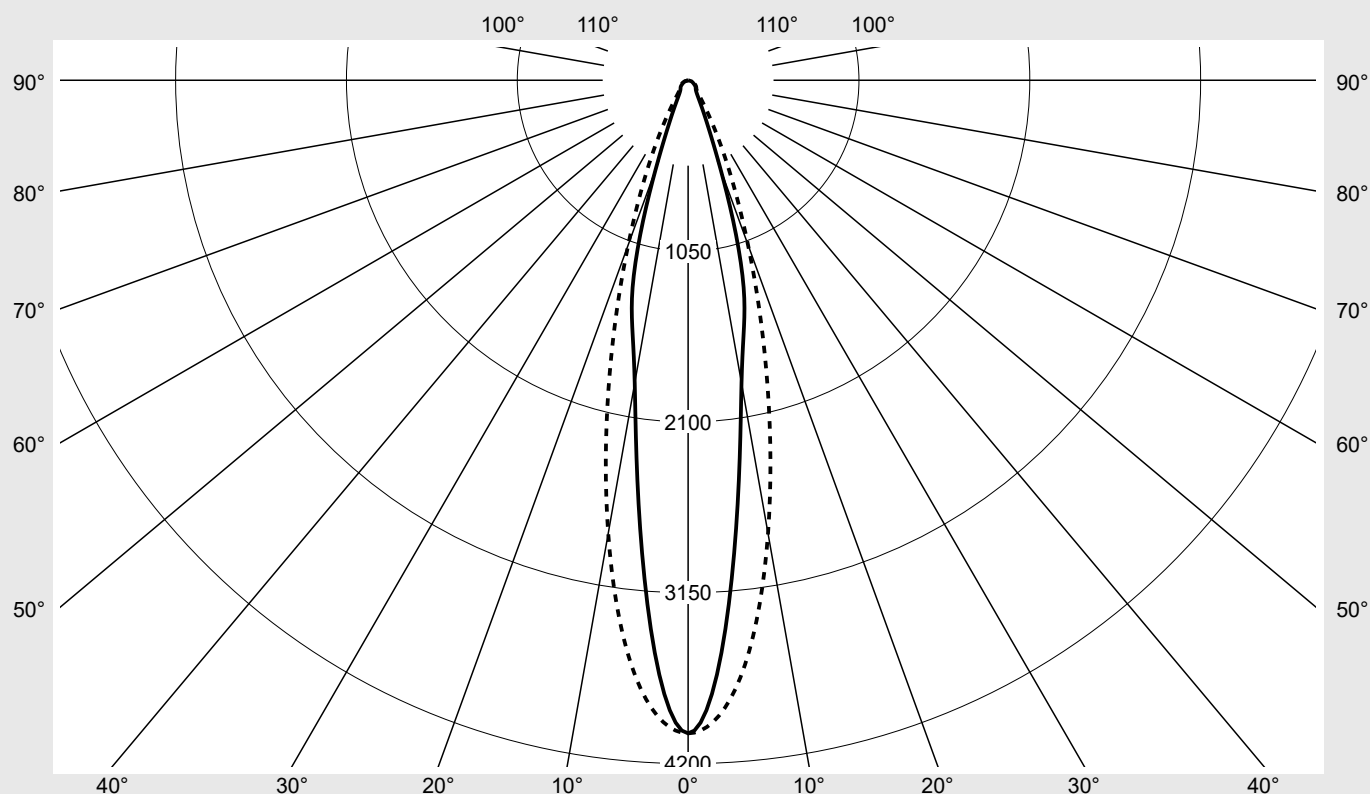
siteco

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	14.9	16.0	15.3	16.3	16.6	15.5	16.5	15.8	16.9	17.2
	3H	16.5	17.3	16.9	17.6	18.0	17.0	17.7	17.4	18.0	18.4
	4H	16.9	17.8	17.3	18.2	18.6	17.1	18.0	17.5	18.4	18.8
	6H	17.4	18.4	17.8	18.7	19.1	17.2	18.2	17.6	18.5	18.9
	8H	18.0	18.7	18.4	19.0	19.4	17.3	18.2	17.8	18.6	19.0
	12H	18.0	18.8	18.4	19.2	19.6	17.3	18.2	17.8	18.6	19.0
4H	2H	15.2	16.0	15.6	16.4	16.8	15.6	16.5	16.0	16.9	17.2
	3H	16.6	17.4	17.1	17.8	18.2	16.9	17.7	17.4	18.1	18.5
	4H	17.4	18.1	17.9	18.5	19.0	17.4	18.1	17.9	18.5	19.0
	6H	18.0	18.8	18.4	19.2	19.7	17.5	18.3	18.0	18.8	19.2
	8H	18.6	19.1	19.1	19.6	20.1	17.9	18.4	18.4	18.9	19.3
	12H	18.8	19.4	19.2	19.9	20.4	17.7	18.4	18.2	18.8	19.3
8H	4H	17.6	18.1	18.1	18.5	19.0	17.6	18.1	18.1	18.6	19.0
	6H	18.8	18.9	19.3	19.4	20.0	18.1	18.5	18.6	19.0	19.5
	8H	19.0	19.3	19.5	19.8	20.3	18.2	18.6	18.7	19.1	19.6
	12H	19.2	19.7	19.7	20.2	20.7	18.0	18.6	18.5	19.1	19.6
12H	4H	17.3	18.0	17.8	18.4	18.9	17.4	18.0	17.9	18.5	19.0
	6H	18.3	18.8	18.8	19.3	19.8	17.8	18.4	18.3	18.9	19.4
	8H	18.7	19.3	19.3	19.8	20.3	18.0	18.6	18.6	19.1	19.6

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	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°					
		Luminance in cd/m²									
γ											
45°	10381.6	9242.9	7242.7	6518.9	7279.6	9753.6	13212.9				
50°	9829.2	8610.3	6646.7	5764.5	6049.8	8573.5	13191.3				
55°	8661.9	7706.3	6242.7	5289.6	5342.8	7517.7	13002.8				
60°	7655.5	6724.9	5806.9	4961.4	4862.0	6572.2	12382.2				
65°	6826.8	5843.8	5326.2	4779.4	4542.4	5741.1	10999.2				
70°	6252.4	5245.0	4714.9	4648.5	4311.4	5005.8	8917.9				
75°	5955.0	4930.6	4216.0	4511.8	4133.9	4343.3	6762.8				
80°	5621.4	4764.5	4013.0	4309.4	4038.0	3733.3	4922.3				
85°	5426.2	4727.5	4138.4	4297.8	4256.3	3214.1	3441.2				

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Luminance values in cd/m²

γ 65°

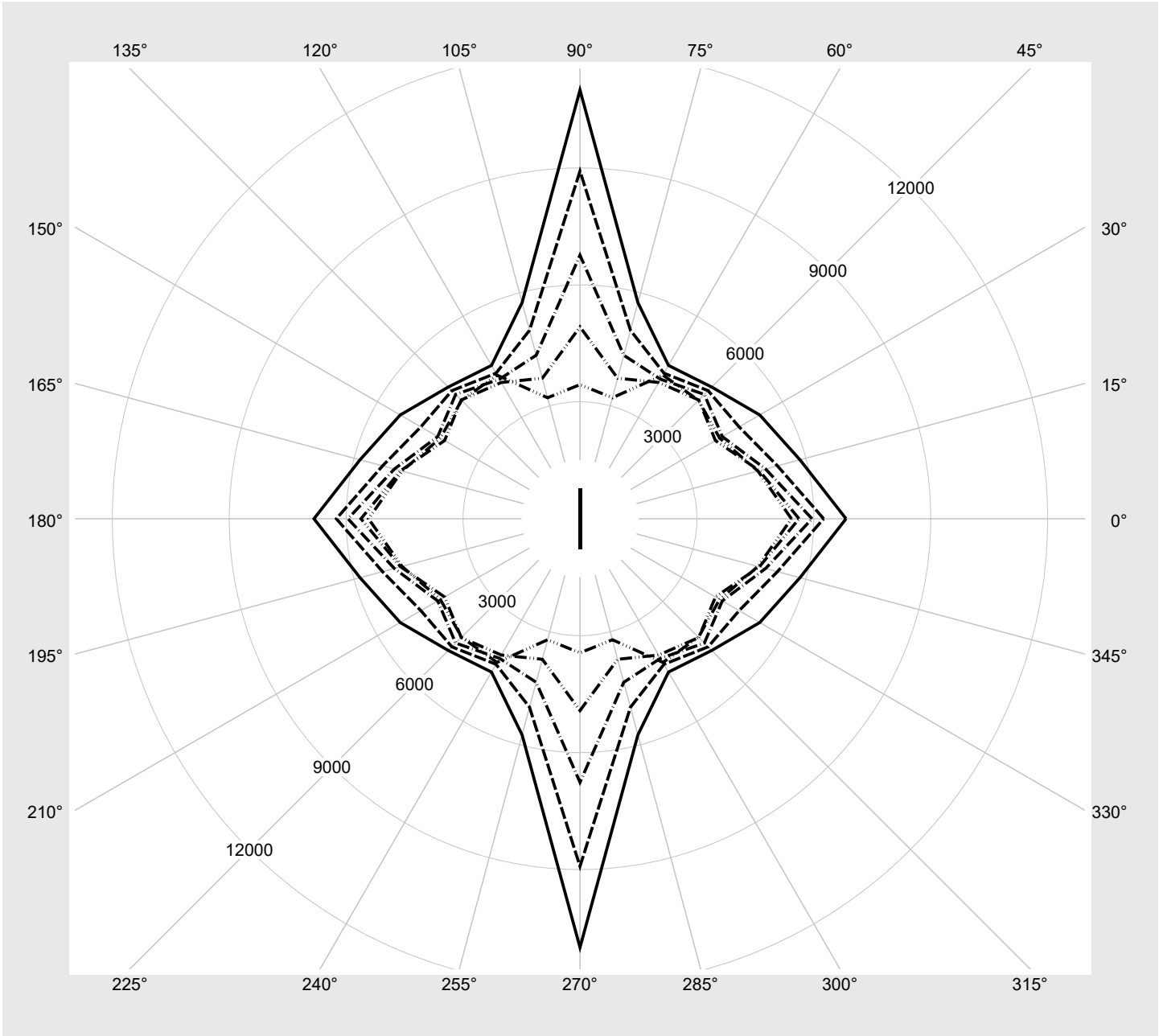
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Family Licross® 21 Protected	Order number: 52TD13MN4FXS EAN: 4058352902943	LP number 58527_73
Multilumen Table	environmental temperature: 25°C	siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	15060	83.2
2	A	C	F	14140	78.5
3	A	D	E	13140	72.4
4	A	D	F	12130	66.3
5	B	C	E	11110	60.3
6	B	C	F	10060	54.3
7	B	D	E	9080	48.8
8	B	D	F	8100	43.3