

Photometric test report

Family
Licross® 21 Performance

Order number: 52TD16MN4A5G
EAN: 4058352903186

LP number
58520_330



Version cover frosted, direct-/ indirect distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG Multilumen
Rated values Net luminous flux = 10890 lm
 Power consumption = 60.5 W
 Luminous efficacy = 180 lm/W

serial
documentation
24.08.2023

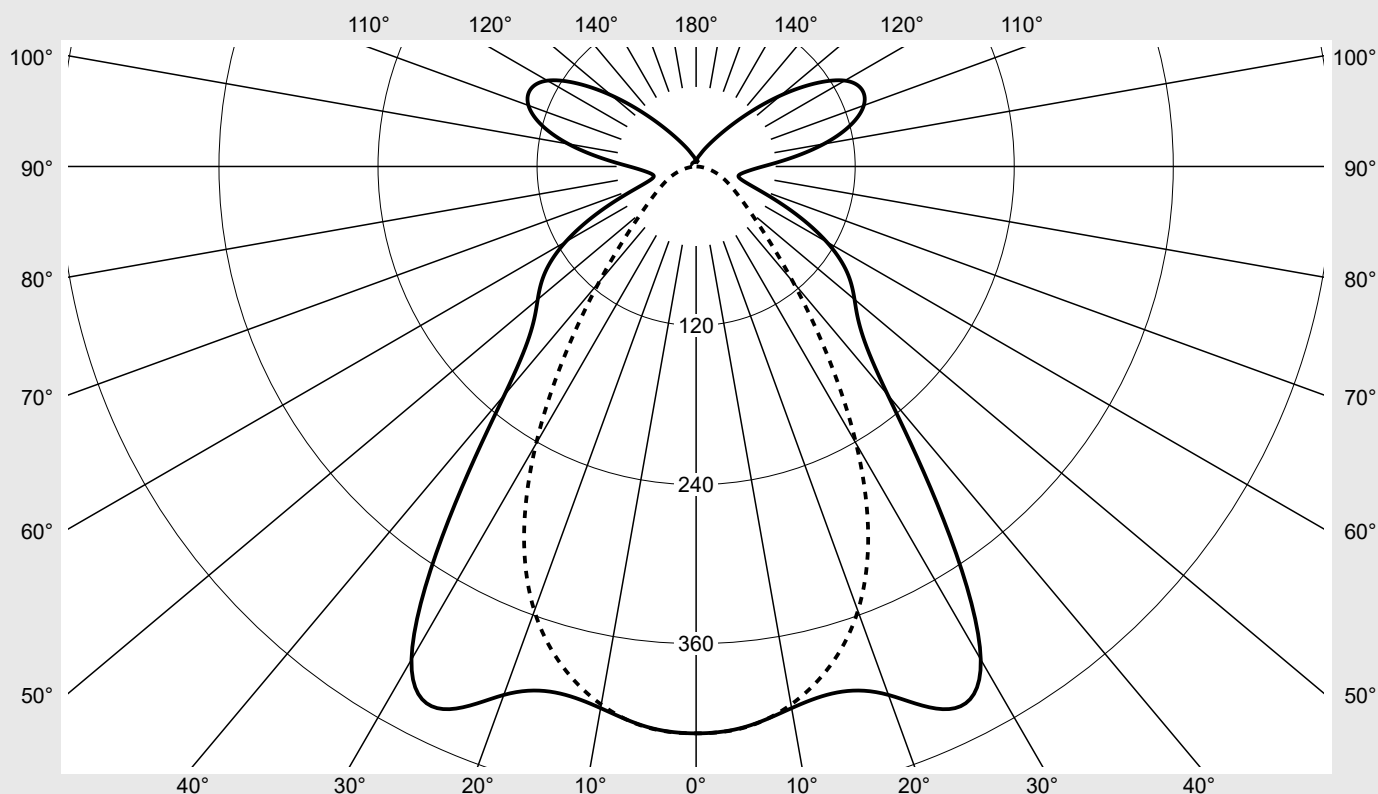
siteco

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	19.4	20.6	19.9	21.2	21.8	15.6	16.8	16.1	17.4	18.0
	3H	20.0	21.1	20.6	21.7	22.4	16.0	17.1	16.6	17.7	18.4
	4H	20.1	21.1	20.8	21.8	22.5	16.2	17.2	16.8	17.8	18.5
	6H	20.4	21.3	21.1	21.9	22.7	16.3	17.3	16.9	17.9	18.6
	8H	20.6	21.4	21.3	22.1	22.9	16.3	17.2	17.0	17.9	18.6
	12H	21.0	21.7	21.7	22.4	23.2	16.3	17.2	17.0	17.8	18.6
4H	2H	19.4	20.4	20.0	21.0	21.7	16.0	17.0	16.7	17.7	18.4
	3H	20.1	20.9	20.7	21.6	22.3	16.6	17.5	17.3	18.1	18.9
	4H	20.3	21.1	21.0	21.8	22.5	16.9	17.7	17.6	18.3	19.1
	6H	20.7	21.4	21.4	22.1	22.9	17.1	17.8	17.8	18.5	19.3
	8H	21.1	21.7	21.8	22.4	23.3	17.2	17.8	17.9	18.5	19.3
	12H	21.6	22.1	22.4	22.9	23.7	17.2	17.7	17.9	18.5	19.3
8H	4H	20.3	20.9	21.0	21.6	22.4	17.0	17.6	17.8	18.4	19.2
	6H	20.8	21.3	21.6	22.1	22.9	17.4	17.9	18.2	18.7	19.6
	8H	21.3	21.8	22.1	22.5	23.4	17.6	18.0	18.4	18.8	19.7
	12H	22.1	22.4	22.9	23.2	24.1	17.7	18.1	18.5	18.9	19.8
12H	4H	20.2	20.8	21.0	21.5	22.4	17.1	17.6	17.8	18.3	19.2
	6H	20.8	21.2	21.6	22.0	22.9	17.5	18.0	18.3	18.7	19.6
	8H	21.4	21.7	22.1	22.5	23.4	17.8	18.1	18.5	18.9	19.8

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° 180°	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°		12157.6	12144.6	14202.6	16647.6	10018.6	7057.5	6846.0
50°		11309.4	10555.7	10273.3	12146.1	7569.2	5349.6	5292.6
55°		10715.0	9577.2	7914.4	8452.5	5825.3	4339.0	4437.2
60°		9433.5	8325.1	6284.6	5985.5	4665.8	3708.7	3941.0
65°		7223.9	6442.8	4937.1	4496.8	3915.9	3305.5	3638.7
70°		4795.6	4433.9	3817.1	3622.9	3421.3	3012.4	3410.9
75°		3870.4	3620.8	3208.5	3140.9	3109.9	2739.8	3142.3
80°		4478.2	4170.5	3441.3	2969.6	2952.3	2504.2	2766.1
85°		6297.4	5872.8	4708.7	3577.8	2993.3	2367.3	2355.1

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Luminance values in cd/m²

γ 65°

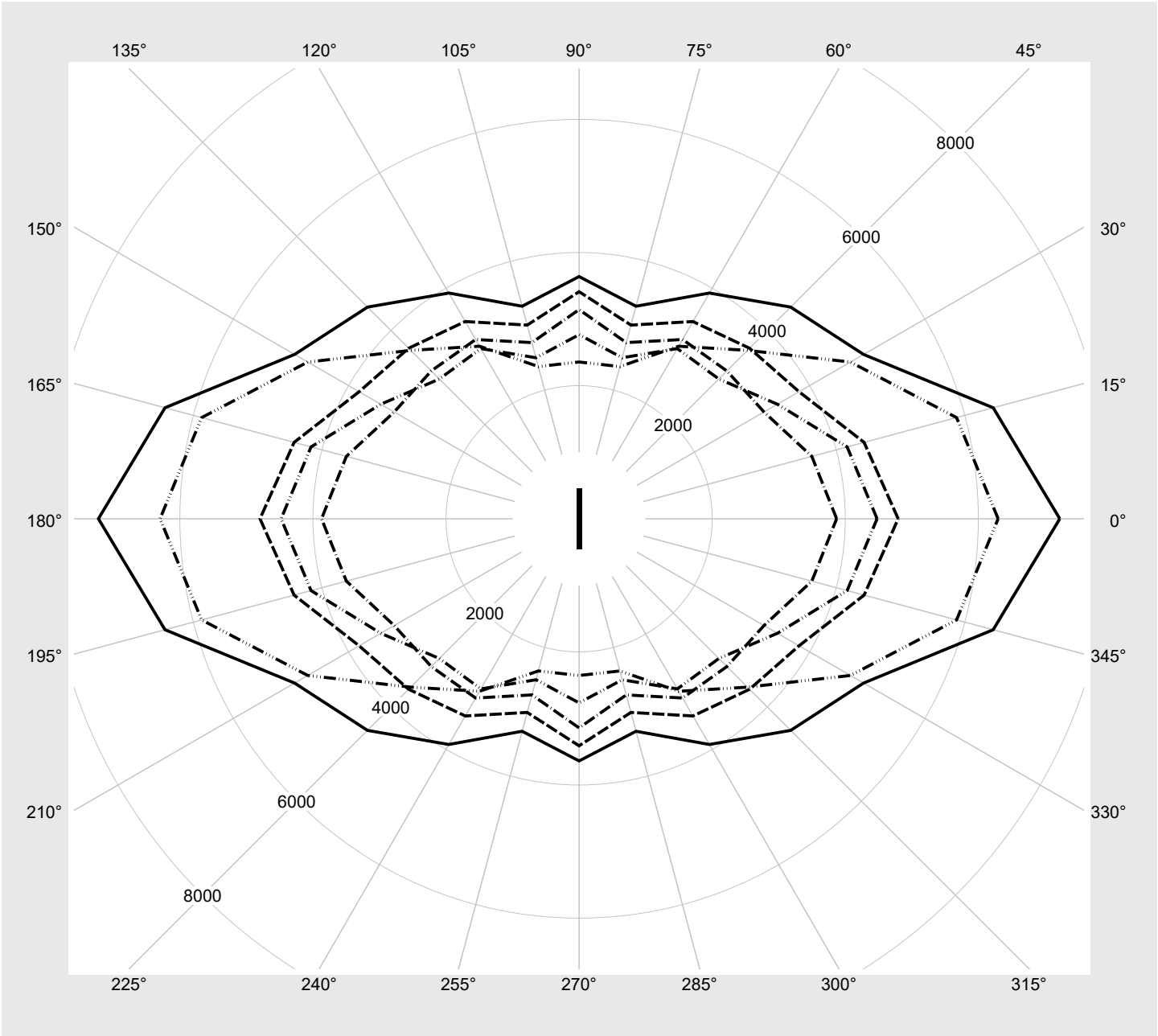
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Family Licross® 21 Performance	Order number: 52TD16MN4A5G EAN: 4058352903186	LP number 58520_330
Multilumen Table	environmental temperature: 25°C	siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	10890	60.5
2	A	C	F	9990	56.1
3	A	D	E	9500	53.1
4	A	D	F	9000	50.0
5	B	C	E	8490	47.0
6	B	C	F	7980	43.9
7	B	D	E	7460	41.0
8	B	D	F	7020	38.4