

Photometric test report

Family
Licross® 21 Recessed

Order number: 52TL18MN4E5M
EAN: 4058352891469

LP number
59104_187



Version cover frosted, medium distribution, high visual comfort
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG Multilumen
Rated values Net luminous flux = 14940 lm
 Power consumption = 83.1 W
 Luminous efficacy = 179.8 lm/W

serial
documentation
24.08.2023

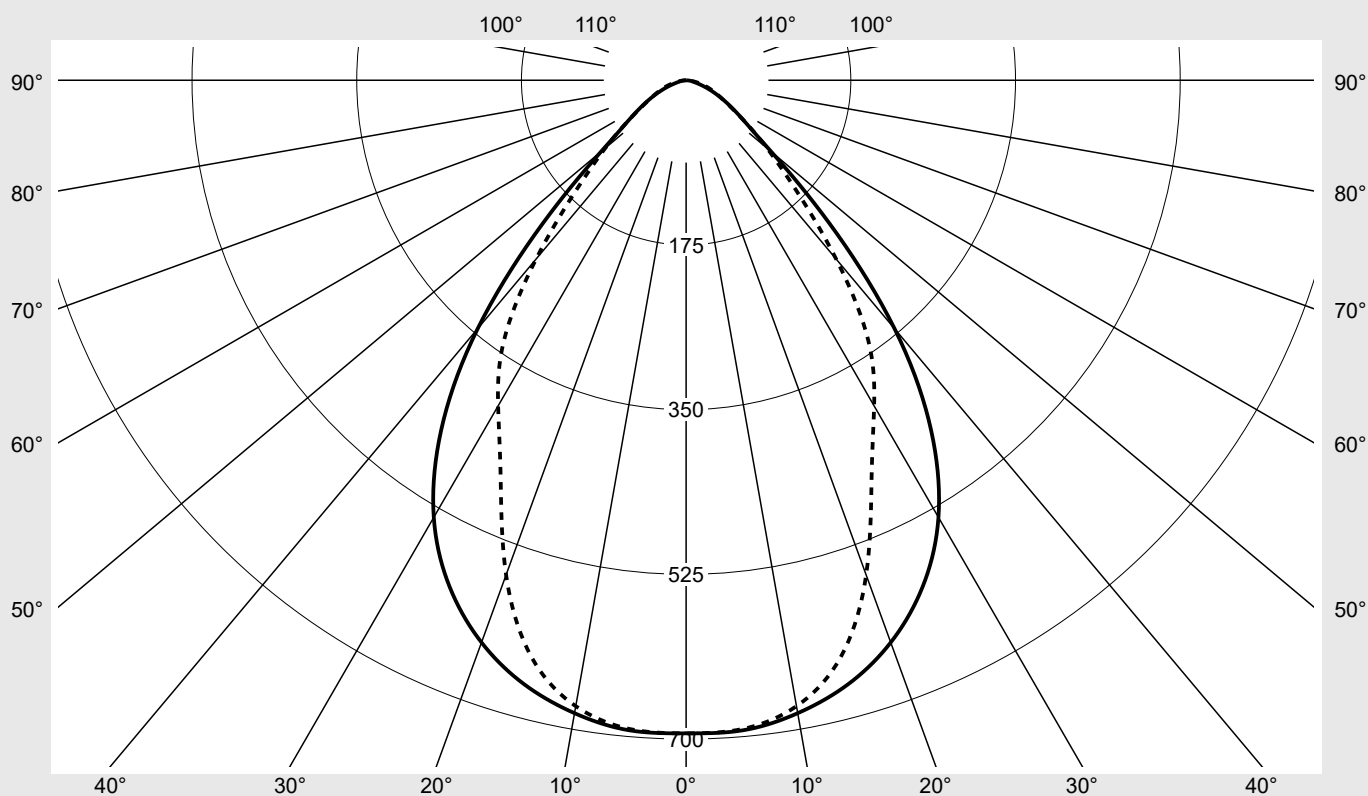
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 694 cd/klm



Classifications

DIN 5040 A 6 0
 CIE N1=75 N2=94 N3=99
 N4=100 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 100.0%
 ϕ_o 0.0%

Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
		siteco

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°	694.0	694.0	694.0	694.0	694.0	694.0	694.0	4.2	4.2
5°	693.3	691.2	687.0	689.0	691.7	691.4	691.9	33.0	37.1
10°	682.9	681.6	676.2	676.6	677.1	675.1	675.3	64.5	101.6
15°	664.5	663.4	655.7	650.8	644.2	637.0	634.6	92.2	193.9
20°	635.7	634.6	621.8	603.7	582.0	564.8	559.4	112.6	306.5
25°	594.3	592.8	570.2	532.2	493.8	471.5	466.3	123.2	429.7
30°	536.3	532.4	496.5	443.5	408.6	399.3	399.5	125.5	555.2
35°	453.8	445.6	398.8	354.7	341.6	338.2	337.4	119.2	674.4
40°	344.5	330.9	285.8	265.8	259.9	251.4	248.0	99.2	773.7
45°	216.1	203.7	174.1	171.5	169.1	165.7	165.2	69.4	843.1
50°	117.9	113.3	108.5	113.4	112.2	111.3	112.1	47.2	890.2
55°	75.1	72.3	72.7	81.4	80.0	76.7	75.3	34.3	924.5
60°	52.8	51.4	52.2	58.3	58.9	53.9	51.6	25.9	950.4
65°	36.0	35.7	38.4	42.9	44.1	39.6	37.5	19.7	970.1
70°	22.2	22.5	25.4	30.3	32.0	29.3	27.4	14.1	984.2
75°	11.8	12.0	13.9	18.9	21.4	20.1	18.3	8.9	993.1
80°	6.2	6.2	6.9	9.4	11.9	11.6	10.1	4.9	998.0
85°	3.0	2.9	3.0	3.8	4.5	4.6	3.6	2.0	1000.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	22.9	24.3	23.2	24.6	24.9	22.2	23.6	22.6	23.9	24.3	
	3H	23.2	24.4	23.5	24.7	25.1	22.8	24.0	23.2	24.3	24.7	
	4H	23.2	24.3	23.6	24.7	25.1	23.0	24.2	23.4	24.5	24.9	
	6H	23.2	24.3	23.6	24.6	25.0	23.2	24.2	23.6	24.6	25.0	
	8H	23.3	24.2	23.7	24.6	25.0	23.3	24.2	23.7	24.6	25.0	
	12H	23.3	24.1	23.7	24.5	24.9	23.3	24.1	23.7	24.5	25.0	
4H	2H	23.1	24.2	23.4	24.6	24.9	22.5	23.6	22.9	24.0	24.4	
	3H	23.5	24.4	23.9	24.8	25.2	23.2	24.2	23.7	24.6	25.0	
	4H	23.5	24.4	24.0	24.8	25.2	23.6	24.4	24.0	24.9	25.3	
	6H	23.6	24.3	24.0	24.7	25.2	23.8	24.6	24.3	25.0	25.5	
	8H	23.6	24.2	24.1	24.7	25.2	23.9	24.6	24.4	25.0	25.5	
	12H	23.6	24.2	24.1	24.6	25.1	24.0	24.5	24.5	25.0	25.5	
8H	4H	23.6	24.3	24.1	24.7	25.2	23.7	24.3	24.2	24.8	25.3	
	6H	23.7	24.2	24.2	24.7	25.2	24.0	24.6	24.5	25.0	25.5	
	8H	23.7	24.2	24.2	24.7	25.2	24.2	24.6	24.7	25.1	25.6	
	12H	23.7	24.1	24.3	24.6	25.2	24.2	24.6	24.8	25.1	25.7	
12H	4H	23.7	24.2	24.1	24.7	25.2	23.7	24.2	24.2	24.7	25.2	
	6H	23.7	24.2	24.2	24.7	25.2	24.0	24.5	24.6	25.0	25.5	
	8H	23.7	24.1	24.3	24.6	25.2	24.2	24.6	24.7	25.1	25.6	

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1500 B = 58	
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°
γ	Luminance in cd/m²						
45°	52482.1	49473.1	42270.1	41644.5	41058.5	40240.5	40131.2
50°	31503.2	30266.8	28992.0	30300.5	29987.9	29732.8	29954.0
55°	22493.9	21636.8	21771.5	24370.5	23960.6	22973.8	22537.3
60°	18147.1	17644.3	17918.0	20026.1	20233.2	18528.0	17705.4
65°	14630.9	14496.0	15617.9	17421.6	17921.4	16079.0	15254.2
70°	11155.9	11304.5	12735.0	15207.7	16089.4	14720.2	13745.7
75°	7807.3	7955.3	9231.8	12550.6	14170.8	13362.0	12132.6
80°	6090.8	6126.4	6804.8	9275.1	11756.3	11496.2	9984.1
85°	5946.4	5786.8	5981.9	7497.0	8896.0	9126.5	7154.2

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Order number: **52TL18MN4E5M**
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Luminance values in cd/m²

γ 65°

γ 70°

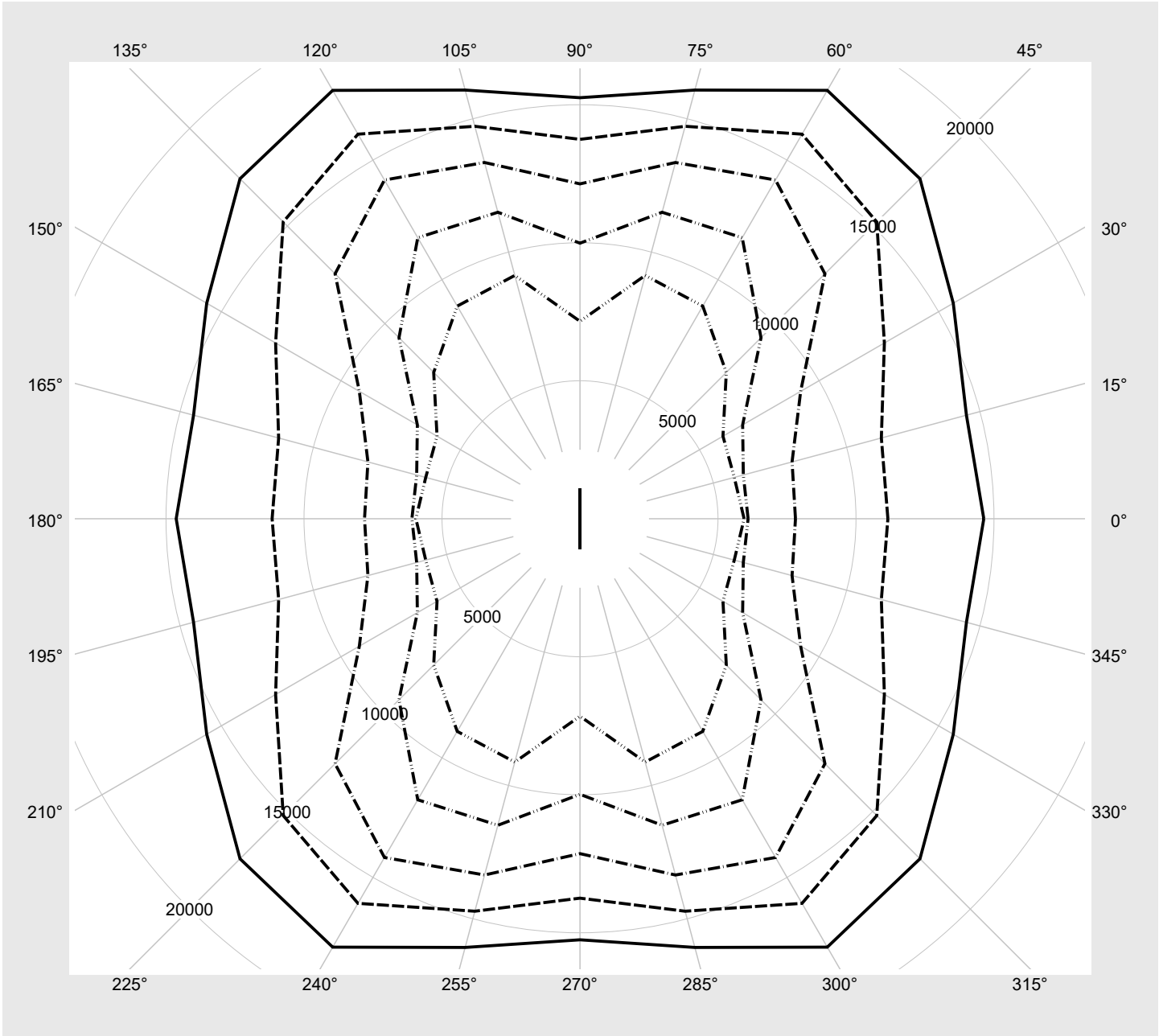
γ 75°

γ 80°

γ 85°

sit

eco



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Family Licross® 21 Recessed	Order number: 52TL18MN4E5M EAN: 4058352891469	LP number 59104_187
Multilumen Table	environmental temperature: 25°C	siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	14940	83.1
2	A	C	F	14030	77.5
3	A	D	E	12970	71.1
4	A	D	F	12030	65.4
5	B	C	E	11010	59.4
6	B	C	F	10040	53.9
7	B	D	E	8990	47.9
8	B	D	F	7990	42.4