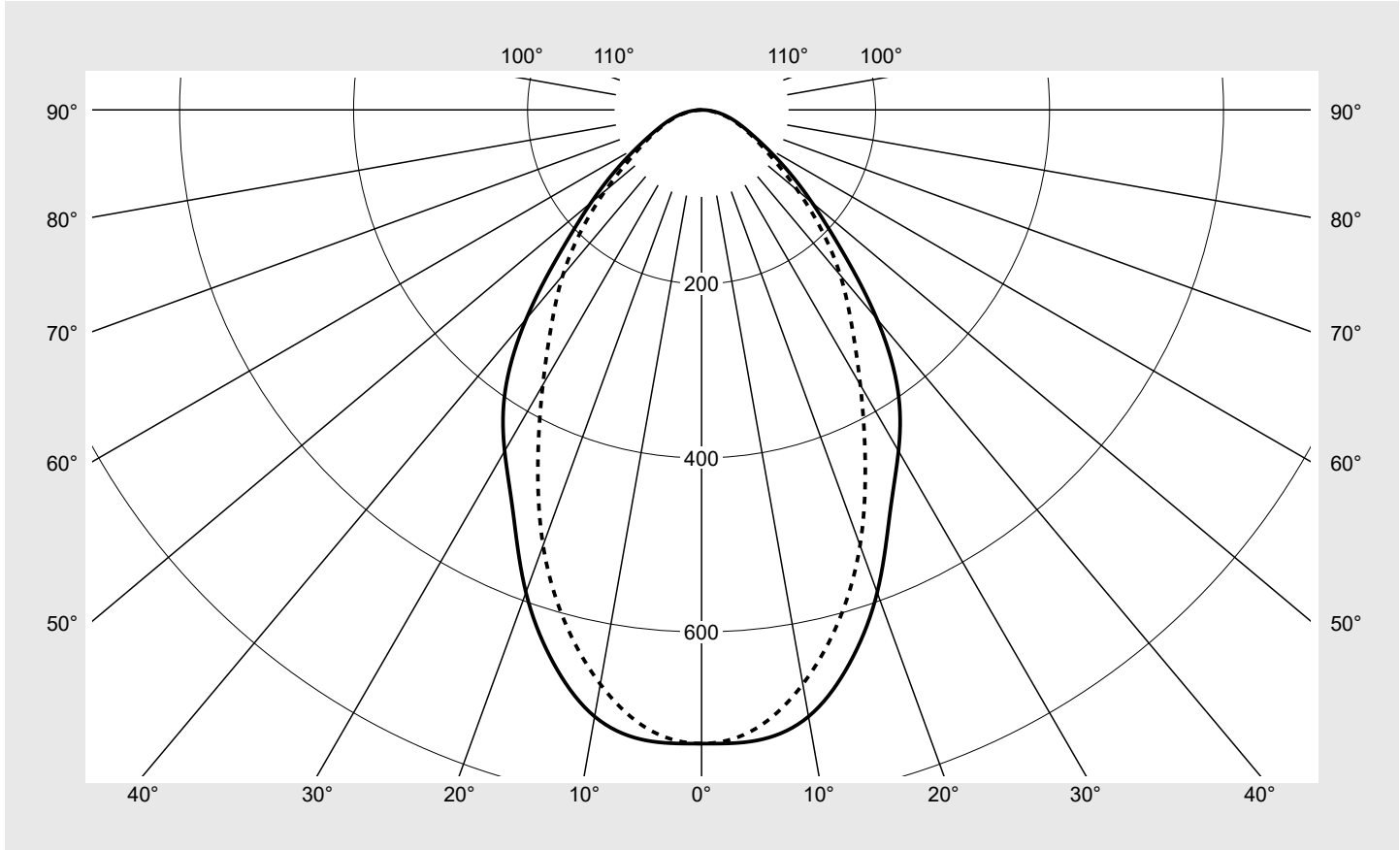


Photometric test report

Family Licross® 21 Recessed	Order number: 52TL12DN5E5M EAN: 4058352971352	LP number 59446_86
	Version cover frosted, wide distribution, high visual comfort Lamps LED 5000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 14860 lm Power consumption = 84.6 W Luminous efficacy = 175.7 lm/W	serial documentation 28.09.2023
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 728 cd/klm**



Classifications	
DIN 5040	A 5 0
CIE	N1=69 N2=91 N3=98 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

Photometric test report

Family Licross® 21 Recessed	Order number: 52TL12DN5E5M EAN: 4058352971352	LP number 59446_86
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°	728.4	728.4	728.4	728.4	728.4	728.4	728.4	4.4	4.4
5°	727.5	724.8	717.6	716.9	716.5	714.4	713.9	34.3	38.7
10°	708.0	704.6	693.5	687.1	680.0	672.5	670.2	65.5	104.1
15°	658.1	653.2	637.7	629.5	623.7	612.7	608.6	89.6	193.8
20°	590.3	582.5	562.9	551.9	546.6	538.5	532.6	104.5	298.2
25°	512.2	499.8	475.2	461.5	453.8	449.4	445.1	108.8	407.1
30°	452.8	433.7	396.2	371.8	363.4	365.0	364.9	106.8	513.9
35°	393.4	374.1	335.3	295.7	285.6	295.2	300.5	101.3	615.2
40°	313.5	300.8	276.8	238.3	224.4	239.2	248.1	91.6	706.8
45°	227.2	217.7	208.5	191.4	176.2	187.2	194.9	77.0	783.8
50°	165.8	151.3	143.3	147.8	138.9	142.4	144.5	61.5	845.3
55°	119.7	105.2	93.7	108.9	109.4	104.2	103.2	47.4	892.7
60°	84.3	73.0	63.0	78.5	83.8	75.4	76.1	35.9	928.6
65°	60.6	51.5	43.5	55.3	61.5	55.5	56.9	27.0	955.6
70°	44.8	36.9	29.5	37.3	40.5	40.0	42.0	19.5	975.1
75°	31.9	25.4	19.2	23.6	27.6	27.0	29.3	13.5	988.6
80°	20.2	15.5	11.1	12.8	15.3	15.6	17.2	8.0	996.7
85°	9.4	7.2	4.9	5.0	5.8	6.0	6.3	3.3	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

Photometric test report

Family Licross® 21 Recessed	Order number: 52TL12DN5E5M EAN: 4058352971352	LP number 59446_86
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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	23.7	25.1	24.1	25.5	25.8	23.3	24.8	23.7	25.1	25.4
	3H	24.4	25.7	24.8	26.0	26.4	24.1	25.4	24.5	25.7	26.1
	4H	24.7	25.9	25.1	26.3	26.6	24.5	25.7	24.9	26.0	26.4
	6H	25.1	26.1	25.5	26.5	26.9	24.8	25.8	25.2	26.2	26.6
	8H	25.3	26.2	25.7	26.6	27.0	24.9	25.9	25.3	26.3	26.7
	12H	25.4	26.3	25.8	26.6	27.1	24.9	25.9	25.4	26.3	26.7
4H	2H	24.0	25.2	24.4	25.5	25.9	23.7	24.9	24.1	25.2	25.6
	3H	24.7	25.7	25.2	26.1	26.5	24.7	25.7	25.1	26.1	26.5
	4H	25.1	26.0	25.6	26.4	26.9	25.1	26.0	25.6	26.4	26.9
	6H	25.5	26.3	26.0	26.7	27.2	25.5	26.3	26.0	26.7	27.2
	8H	25.7	26.4	26.2	26.8	27.3	25.6	26.3	26.1	26.8	27.2
	12H	25.9	26.5	26.4	26.9	27.4	25.7	26.3	26.2	26.8	27.3
8H	4H	25.2	25.9	25.7	26.4	26.9	25.2	25.9	25.7	26.4	26.9
	6H	25.7	26.2	26.2	26.7	27.2	25.7	26.3	26.2	26.7	27.2
	8H	25.9	26.4	26.4	26.9	27.4	25.8	26.4	26.4	26.8	27.4
	12H	26.1	26.5	26.6	27.0	27.5	26.0	26.4	26.5	26.9	27.4
12H	4H	25.3	25.9	25.8	26.3	26.8	25.3	25.8	25.8	26.3	26.8
	6H	25.7	26.2	26.2	26.7	27.2	25.7	26.2	26.2	26.7	27.2
	8H	25.9	26.3	26.4	26.8	27.4	25.9	26.3	26.4	26.8	27.3

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1500 B = 58
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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°		54892.7	52583.7	50364.5	46240.5	42565.5	45207.6	47071.2
50°		44066.5	40200.7	38076.5	39261.9	36919.5	37833.4	38385.0
55°		35653.6	31339.9	27907.6	32433.4	32590.3	31026.3	30735.7
60°		28812.3	24927.6	21513.9	26811.5	28616.3	25758.4	26007.0
65°		24482.7	20813.3	17570.4	22353.6	24864.6	22447.7	23004.7
70°		22357.1	18442.8	14711.8	18648.6	20248.6	19951.5	20990.7
75°		21049.4	16747.3	12679.4	15583.8	18209.7	17824.9	19342.1
80°		19895.8	15278.6	10935.9	12581.5	15019.9	15327.8	16921.3
85°		18447.2	14106.4	9518.6	9867.4	11388.2	11723.3	12344.5

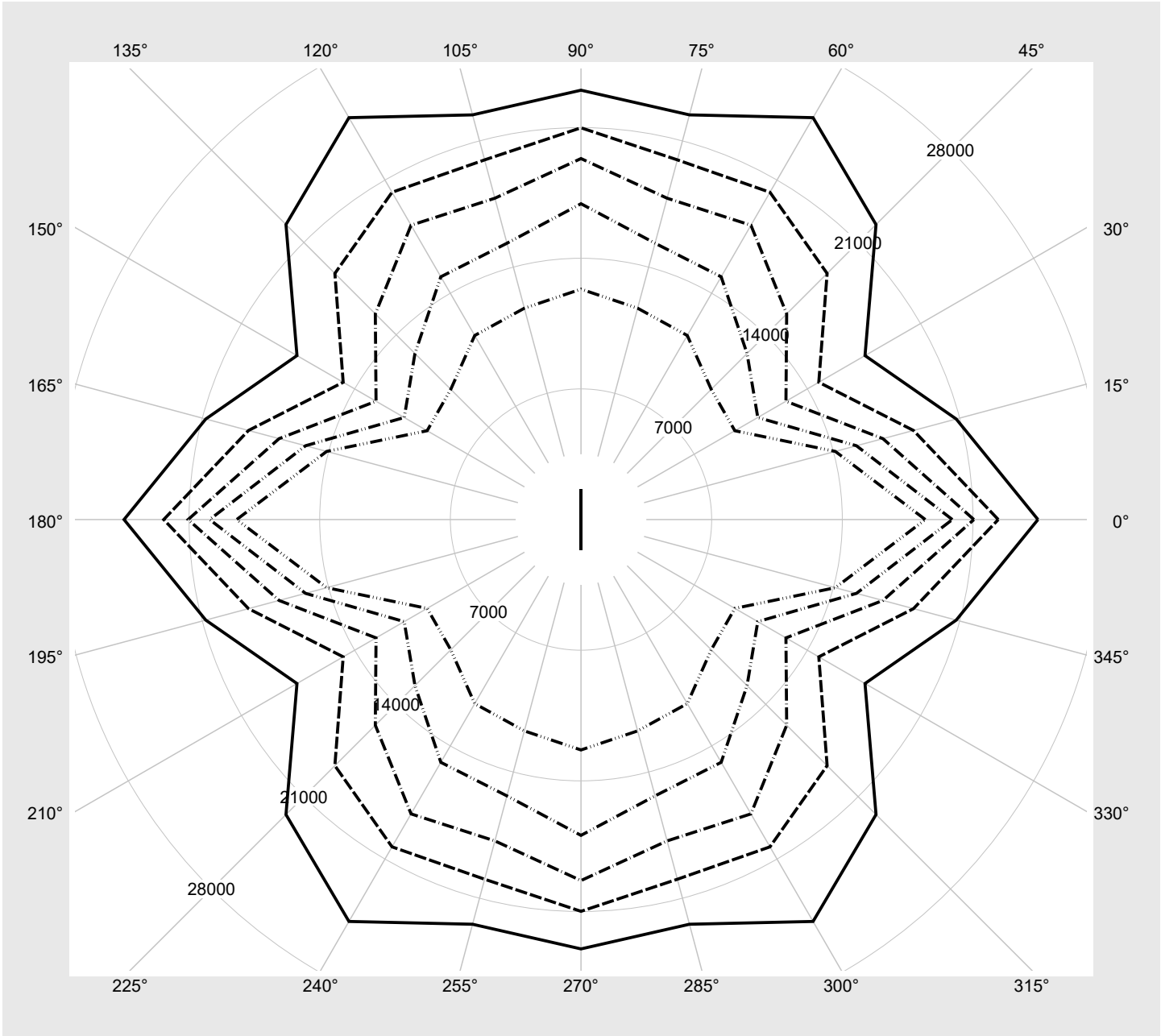
Photometric test report

Family Licross® 21 Recessed	Order number: 52TL12DN5E5M EAN: 4058352971352	LP number 59446_86
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



Photometric test report

Family Licross® 21 Recessed	Order number: 52TL12DN5E5M EAN: 4058352971352	LP number 59446_86
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Dimming levels table	environmental temperature: 25°C	sITeco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	14860	84.6
95	240	252	14112	80.0
90	226	250	13355	75.2
85	213	248	12646	71.0
80	199	245	11873	66.3
75	186	243	11143	62.0
70	173	240	10408	57.8
65	160	237	9663	53.6
60	147	234	8915	49.3
55	134	231	8158	45.1
50	122	227	7451	41.2
45	109	223	6681	37.1
40	97	219	5964	33.2
35	84	213	5177	29.1
30	72	208	4449	25.4
25	60	201	3715	21.6
20	48	193	2973	17.8
15	36	182	2229	14.0
10	24	168	1482	10.2
5	12	142	725	6.5
1	4	102	221	4.1