

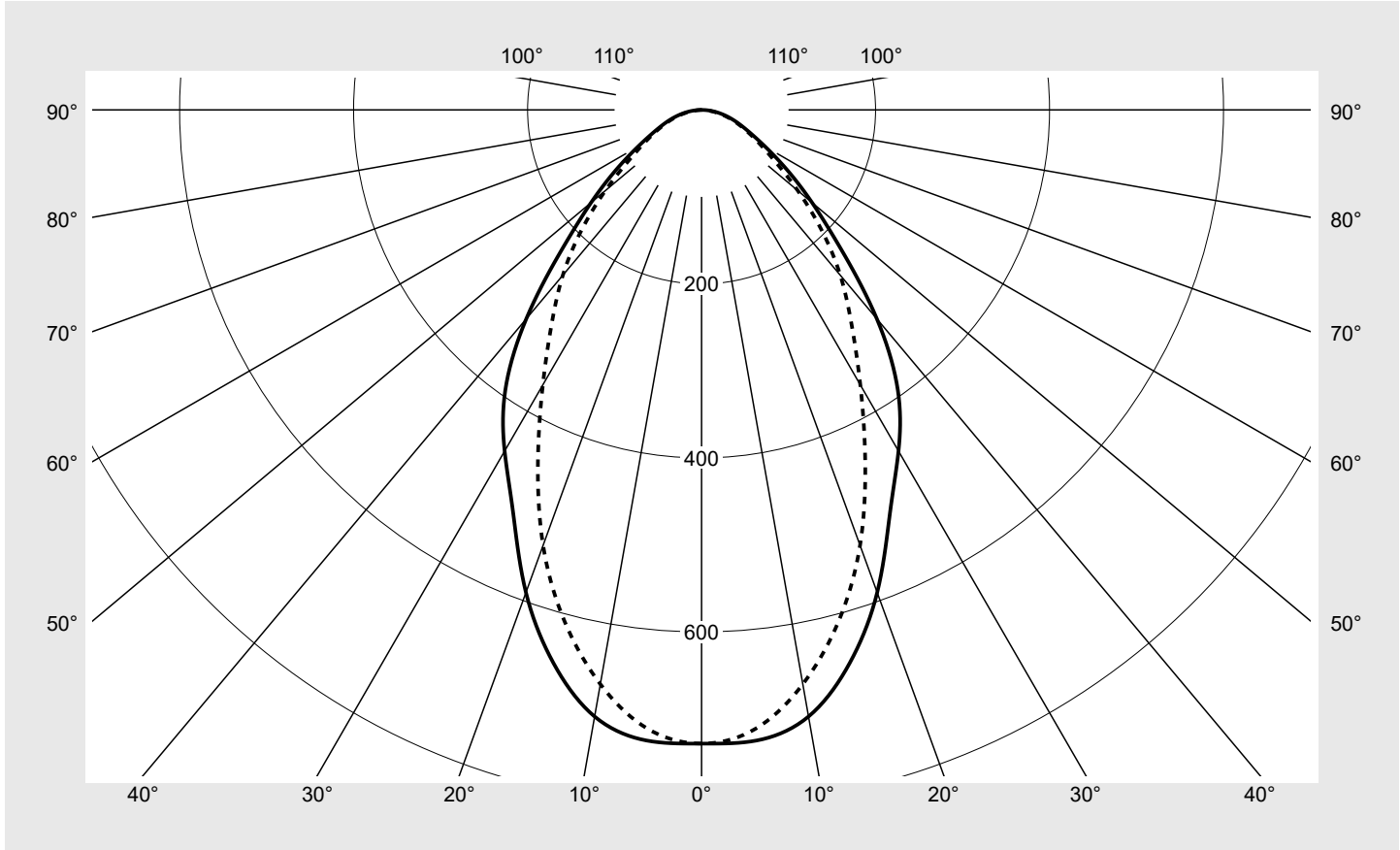
Photometric test report

Family Licross® 21 Recessed	Order number: 52TL12DN4DXM EAN: 4058352890943	LP number 59446_27
	Version cover frosted, wide distribution, high visual comfort Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 13000 lm Power consumption = 72.3 W Luminous efficacy = 179.8 lm/W	serial documentation 03.08.2023





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

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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

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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	23.2	24.7	23.6	25.0	25.3	22.8	24.3	23.2	24.6	24.9
	3H	23.9	25.2	24.3	25.5	25.9	23.6	24.9	24.0	25.3	25.6
	4H	24.3	25.5	24.7	25.8	26.2	24.0	25.2	24.4	25.6	25.9
	6H	24.6	25.7	25.0	26.0	26.4	24.3	25.4	24.7	25.8	26.1
	8H	24.8	25.8	25.2	26.1	26.5	24.4	25.4	24.9	25.8	26.2
	12H	24.9	25.8	25.3	26.2	26.6	24.5	25.4	24.9	25.8	26.2
4H	2H	23.5	24.7	23.9	25.1	25.4	23.2	24.4	23.6	24.8	25.1
	3H	24.3	25.3	24.7	25.7	26.1	24.2	25.2	24.6	25.6	26.0
	4H	24.7	25.6	25.1	26.0	26.4	24.7	25.6	25.1	26.0	26.4
	6H	25.1	25.8	25.5	26.3	26.7	25.0	25.8	25.5	26.2	26.7
	8H	25.2	25.9	25.7	26.4	26.9	25.2	25.9	25.6	26.3	26.8
	12H	25.4	26.0	25.9	26.5	27.0	25.2	25.8	25.7	26.3	26.8
8H	4H	24.8	25.5	25.2	25.9	26.4	24.8	25.5	25.3	25.9	26.4
	6H	25.2	25.8	25.7	26.2	26.8	25.2	25.8	25.7	26.3	26.8
	8H	25.4	25.9	25.9	26.4	26.9	25.4	25.9	25.9	26.4	26.9
	12H	25.6	26.0	26.1	26.5	27.1	25.5	25.9	26.0	26.4	27.0
12H	4H	24.8	25.4	25.3	25.9	26.4	24.8	25.4	25.3	25.8	26.3
	6H	25.2	25.7	25.7	26.2	26.7	25.3	25.7	25.8	26.2	26.7
	8H	25.4	25.9	26.0	26.4	26.9	25.4	25.8	25.9	26.3	26.9

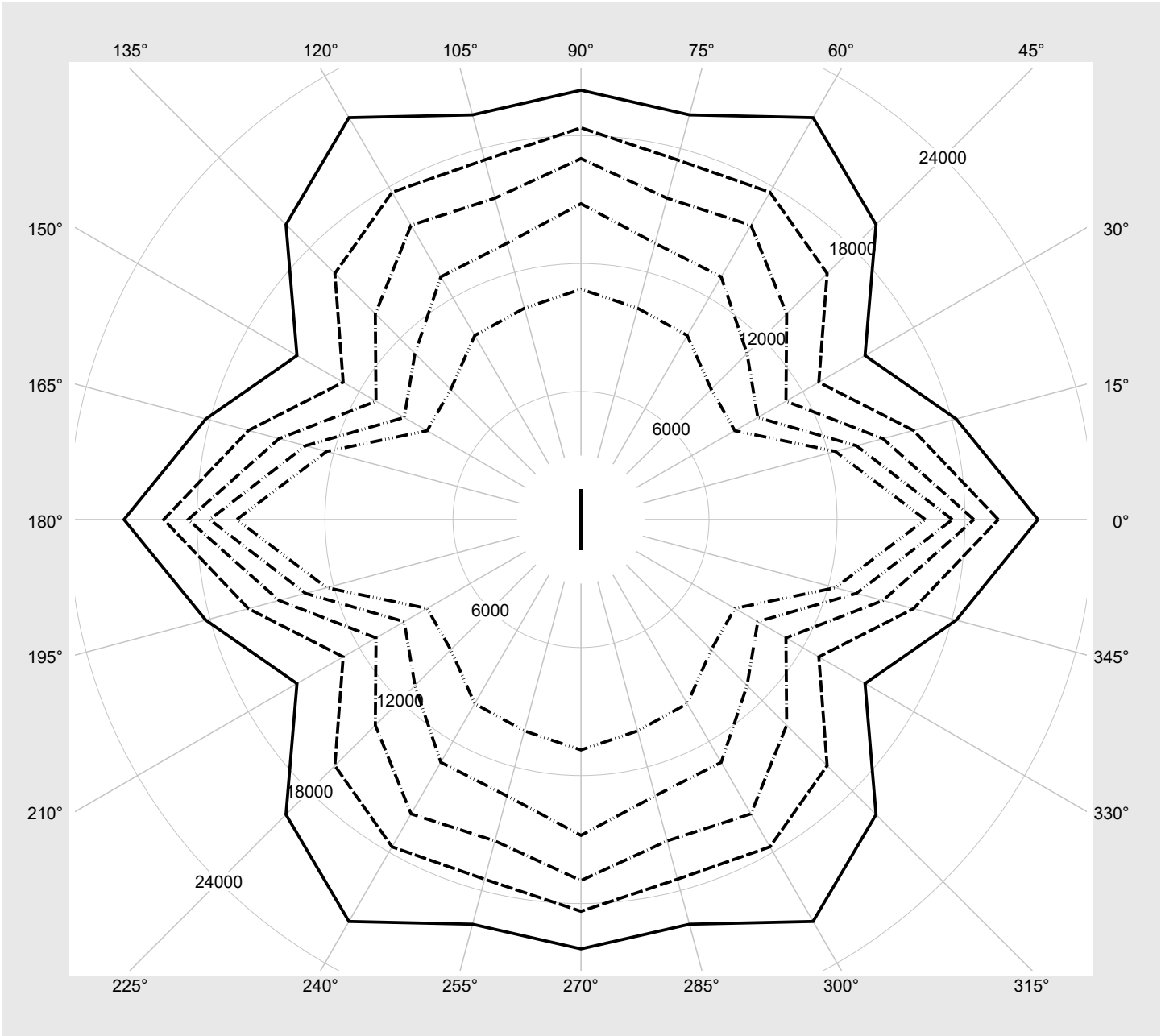
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1500 B = 58
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C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°	45°	48021.9	46001.9	44060.5	40452.6	37237.6	39549.0	41179.4	
50°	50°	38550.7	35168.9	33310.5	34347.6	32298.4	33097.8	33580.4	
55°	55°	31190.9	27417.1	24414.4	28373.7	28511.0	27142.8	26888.5	
60°	60°	25206.0	21807.4	18821.0	23455.6	25034.4	22534.2	22751.8	
65°	65°	21418.2	18208.2	15371.1	19555.6	21752.4	19638.0	20125.2	
70°	70°	19558.7	16134.4	12870.4	16314.4	17714.2	17454.2	18363.4	
75°	75°	18414.7	14651.0	11092.3	13633.2	15930.4	15593.8	16921.1	
80°	80°	17405.5	13366.2	9567.1	11006.7	13139.9	13409.3	14803.3	
85°	85°	16138.2	12340.7	8327.1	8632.3	9962.7	10255.9	10799.4	

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



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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	13000	72.3
95	240	252	12336	68.3
90	227	250	11711	64.7
85	213	248	11034	60.8
80	200	245	10399	57.1
75	187	243	9756	53.6
70	174	240	9110	49.9
65	161	237	8459	46.3
60	148	234	7802	42.7
55	135	231	7137	39.1
50	123	227	6521	35.8
45	110	223	5849	32.3
40	98	219	5221	29.1
35	85	214	4539	25.6
30	73	208	3905	22.3
25	61	202	3265	19.2
20	49	194	2624	15.9
15	36	182	1926	12.4
10	24	168	1278	9.2
5	12	142	623	5.9
2	5	110	241	4.2