

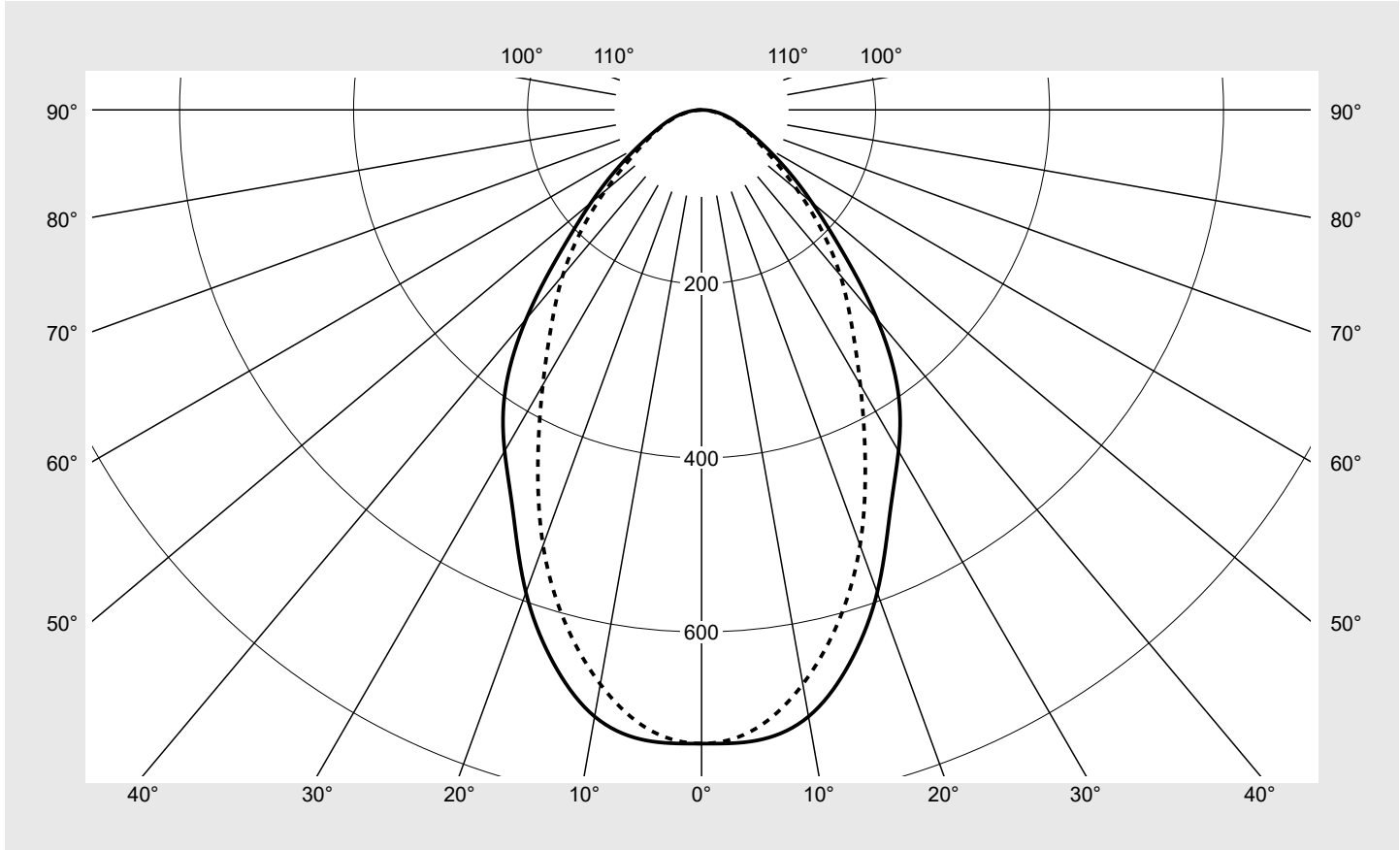


Photometric test report

Family Licross® 21 Recessed	Order number: 52TL12DV4LXM EAN: 4058352891087	LP number 59446_22
	Version cover frosted, wide distribution, high visual comfort Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 20000 lm Power consumption = 109.8 W Luminous efficacy = 182.1 lm/W	serial documentation 02.08.2023
		

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	23.3	24.8	23.7	25.1	25.4	22.9	24.4	23.3	24.7	25.0
	3H	24.0	25.3	24.4	25.6	26.0	23.7	25.0	24.1	25.4	25.7
	4H	24.4	25.5	24.7	25.9	26.3	24.1	25.3	24.5	25.7	26.0
	6H	24.7	25.8	25.1	26.1	26.5	24.4	25.5	24.8	25.8	26.2
	8H	24.9	25.8	25.3	26.2	26.6	24.5	25.5	24.9	25.9	26.3
	12H	25.0	25.9	25.4	26.3	26.7	24.6	25.5	25.0	25.9	26.3
4H	2H	23.6	24.8	24.0	25.2	25.5	23.3	24.5	23.7	24.9	25.2
	3H	24.4	25.4	24.8	25.7	26.2	24.3	25.3	24.7	25.7	26.1
	4H	24.8	25.7	25.2	26.1	26.5	24.8	25.6	25.2	26.1	26.5
	6H	25.2	25.9	25.6	26.4	26.8	25.1	25.9	25.6	26.3	26.8
	8H	25.3	26.0	25.8	26.5	27.0	25.2	25.9	25.7	26.4	26.9
	12H	25.5	26.1	26.0	26.6	27.1	25.3	25.9	25.8	26.4	26.9
8H	4H	24.9	25.6	25.3	26.0	26.5	24.9	25.6	25.3	26.0	26.5
	6H	25.3	25.9	25.8	26.3	26.8	25.3	25.9	25.8	26.4	26.9
	8H	25.5	26.0	26.0	26.5	27.0	25.5	26.0	26.0	26.5	27.0
	12H	25.7	26.1	26.2	26.6	27.2	25.6	26.0	26.1	26.5	27.1
12H	4H	24.9	25.5	25.4	25.9	26.4	24.9	25.5	25.4	25.9	26.4
	6H	25.3	25.8	25.8	26.3	26.8	25.3	25.8	25.8	26.3	26.8
	8H	25.5	25.9	26.1	26.4	27.0	25.5	25.9	26.0	26.4	27.0

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 2250 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°		49253.2	47181.4	45190.2	41489.9	38192.4	40563.1	42235.2
50°		39539.2	36070.6	34164.6	35228.3	33126.5	33946.5	34441.5
55°		31990.7	28120.1	25040.4	29101.3	29242.1	27838.8	27578.0
60°		25852.3	22366.6	19303.6	24057.0	25676.3	23112.0	23335.2
65°		21967.4	18675.0	15765.2	20057.0	22310.1	20141.5	20641.3
70°		20060.2	16548.1	13200.4	16732.7	18168.4	17901.7	18834.2
75°		18886.8	15026.7	11376.8	13982.8	16338.9	15993.7	17355.0
80°		17851.7	13709.0	9812.4	11289.0	13476.8	13753.1	15182.9
85°		16552.0	12657.1	8540.7	8853.7	10218.2	10518.9	11076.3

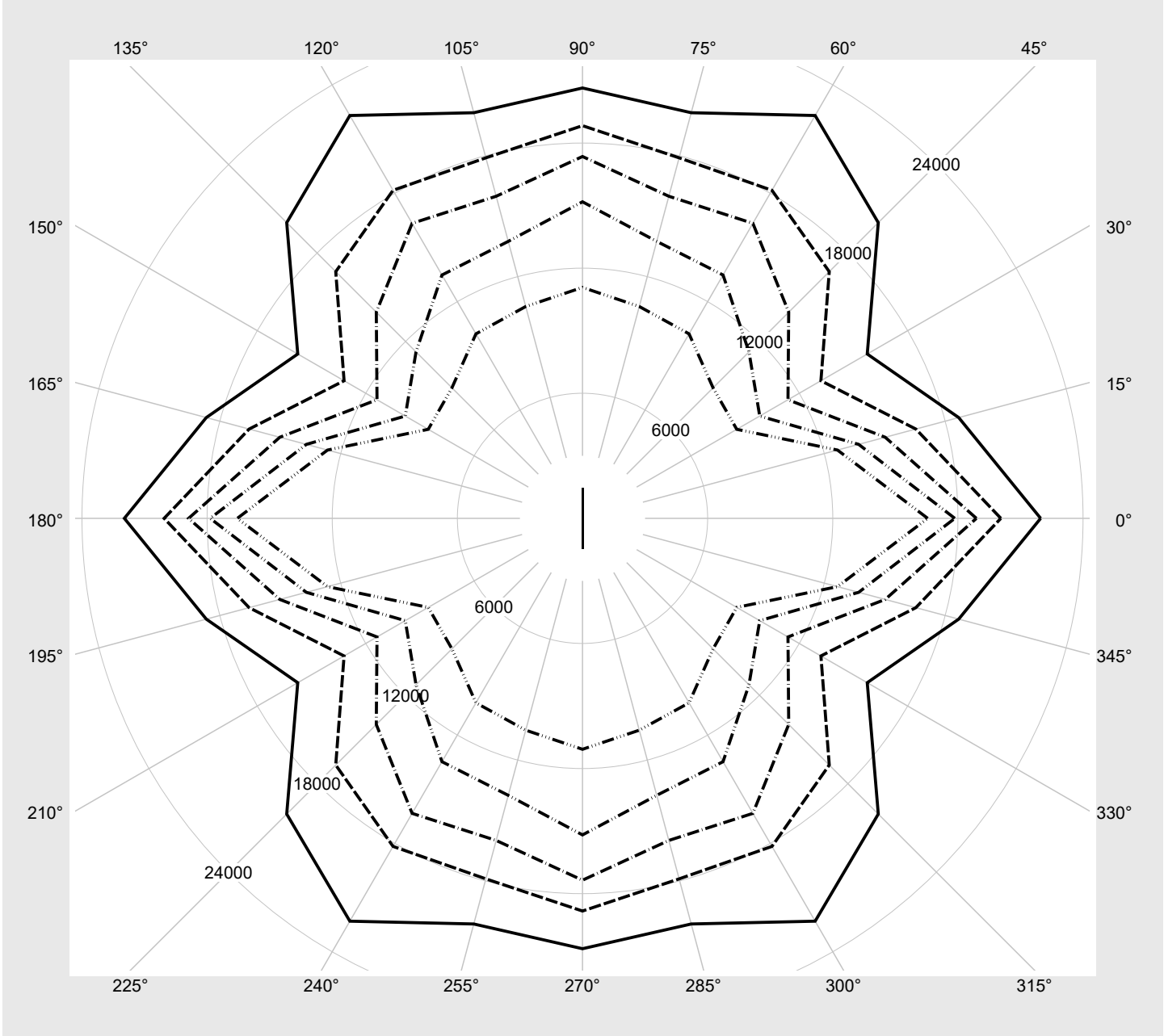
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



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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	20000	109.8
95	240	252	18982	103.9
90	227	250	18029	98.4
85	213	248	16984	92.5
80	200	245	16008	86.9
75	187	243	15024	81.4
70	174	240	14025	75.9
65	161	237	13026	70.4
60	148	234	12017	64.9
55	135	231	10994	59.4
50	122	227	9967	54.0
45	110	223	9012	48.9
40	97	219	7964	43.5
35	85	214	6995	38.5
30	73	208	6020	33.5
25	61	202	5033	28.4
20	48	193	3964	23.0
15	36	182	2970	17.8
10	24	168	1972	12.4
5	12	142	962	6.8
2	5	110	374	3.0