

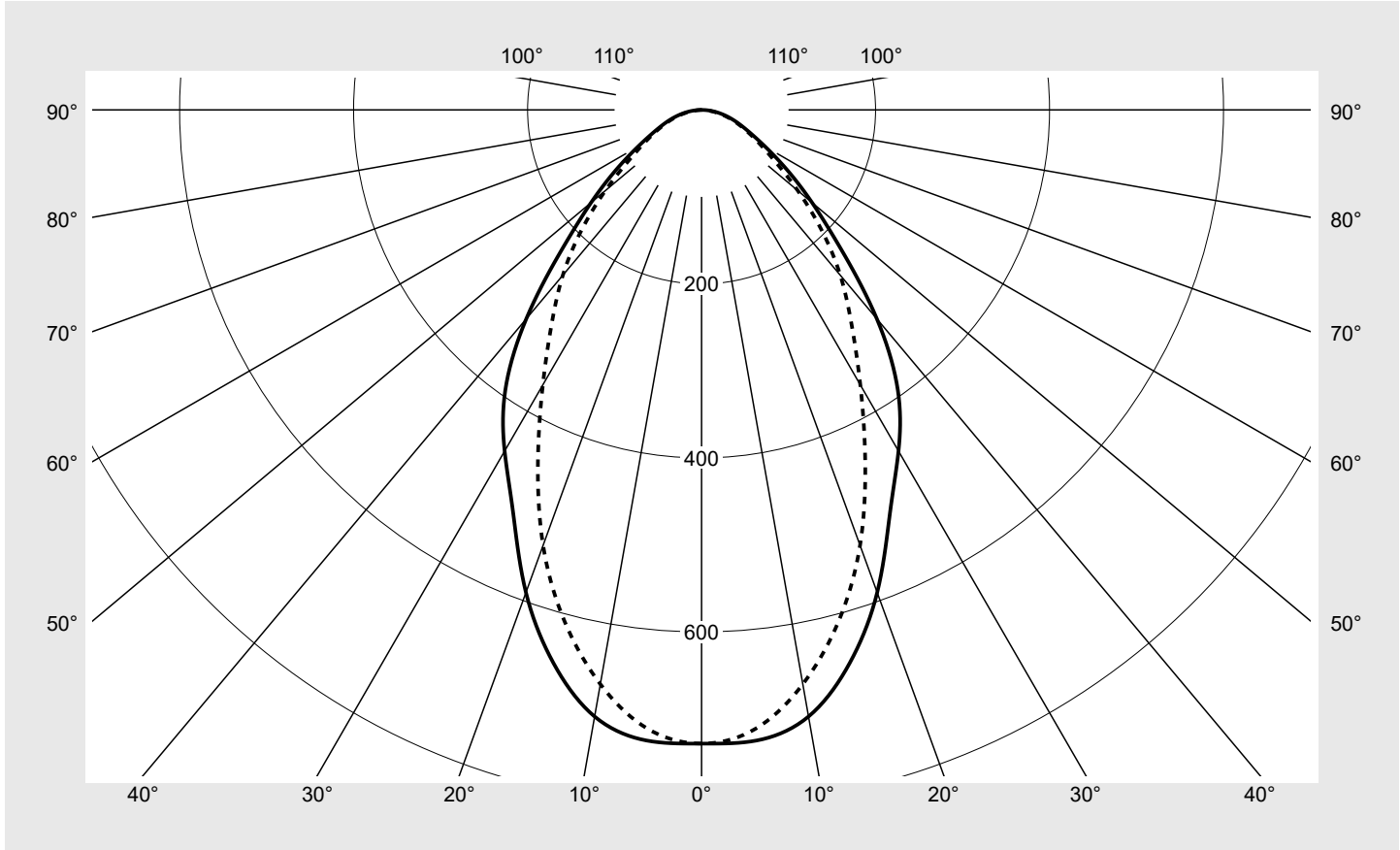
Photometric test report

Family Licross® 21 Recessed	Order number: 52TE12DV4L2M EAN: 4058352889664	LP number 59446_23
	Version cover frosted, wide distribution, high visual comfort Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 22710 lm Power consumption = 125.6 W Luminous efficacy = 180.8 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	23.8	25.2	24.1	25.5	25.8	23.4	24.8	23.7	25.1	25.5
	3H	24.4	25.7	24.8	26.1	26.4	24.2	25.5	24.6	25.8	26.2
	4H	24.8	26.0	25.2	26.3	26.7	24.5	25.7	24.9	26.1	26.5
	6H	25.1	26.2	25.5	26.6	27.0	24.8	25.9	25.2	26.3	26.7
	8H	25.3	26.3	25.7	26.7	27.1	25.0	26.0	25.4	26.3	26.7
12H	25.4	26.3	25.9	26.7	27.1	25.0	25.9	25.4	26.3	26.7	
4H	2H	24.0	25.2	24.4	25.6	26.0	23.8	24.9	24.2	25.3	25.7
	3H	24.8	25.8	25.2	26.2	26.6	24.7	25.7	25.2	26.1	26.5
	4H	25.2	26.1	25.6	26.5	26.9	25.2	26.1	25.6	26.5	26.9
	6H	25.6	26.4	26.1	26.8	27.3	25.6	26.3	26.0	26.8	27.2
	8H	25.8	26.5	26.3	26.9	27.4	25.7	26.4	26.2	26.8	27.3
12H	26.0	26.5	26.4	27.0	27.5	25.8	26.4	26.3	26.8	27.3	
8H	4H	25.3	26.0	25.8	26.4	26.9	25.3	26.0	25.8	26.4	26.9
	6H	25.7	26.3	26.2	26.8	27.3	25.8	26.3	26.3	26.8	27.3
	8H	25.9	26.4	26.4	26.9	27.4	25.9	26.4	26.4	26.9	27.4
	12H	26.1	26.6	26.7	27.1	27.6	26.0	26.4	26.6	27.0	27.5
12H	4H	25.3	25.9	25.8	26.4	26.9	25.3	25.9	25.8	26.4	26.9
	6H	25.8	26.2	26.3	26.7	27.3	25.8	26.3	26.3	26.7	27.3
	8H	26.0	26.4	26.5	26.9	27.4	26.0	26.4	26.5	26.9	27.4

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°		55927.0	53574.5	51313.5	47111.8	43367.5	46059.4	47958.1
50°		44896.8	40958.2	38794.0	40001.7	37615.2	38546.2	39108.3
55°		36325.5	31930.4	28433.4	33044.5	33204.4	31610.9	31314.8
60°		29355.2	25397.3	21919.2	27316.7	29155.5	26243.7	26497.1
65°		24944.0	21205.5	17901.4	22774.8	25333.1	22870.7	23438.1
70°		22778.4	18790.3	14989.0	19000.0	20630.2	20327.4	21386.3
75°		21446.0	17062.8	12918.3	15877.4	18552.8	18160.8	19706.6
80°		20270.7	15566.5	11142.0	12818.6	15303.0	15616.6	17240.1
85°		18794.8	14372.2	9697.9	10053.3	11602.8	11944.2	12577.1

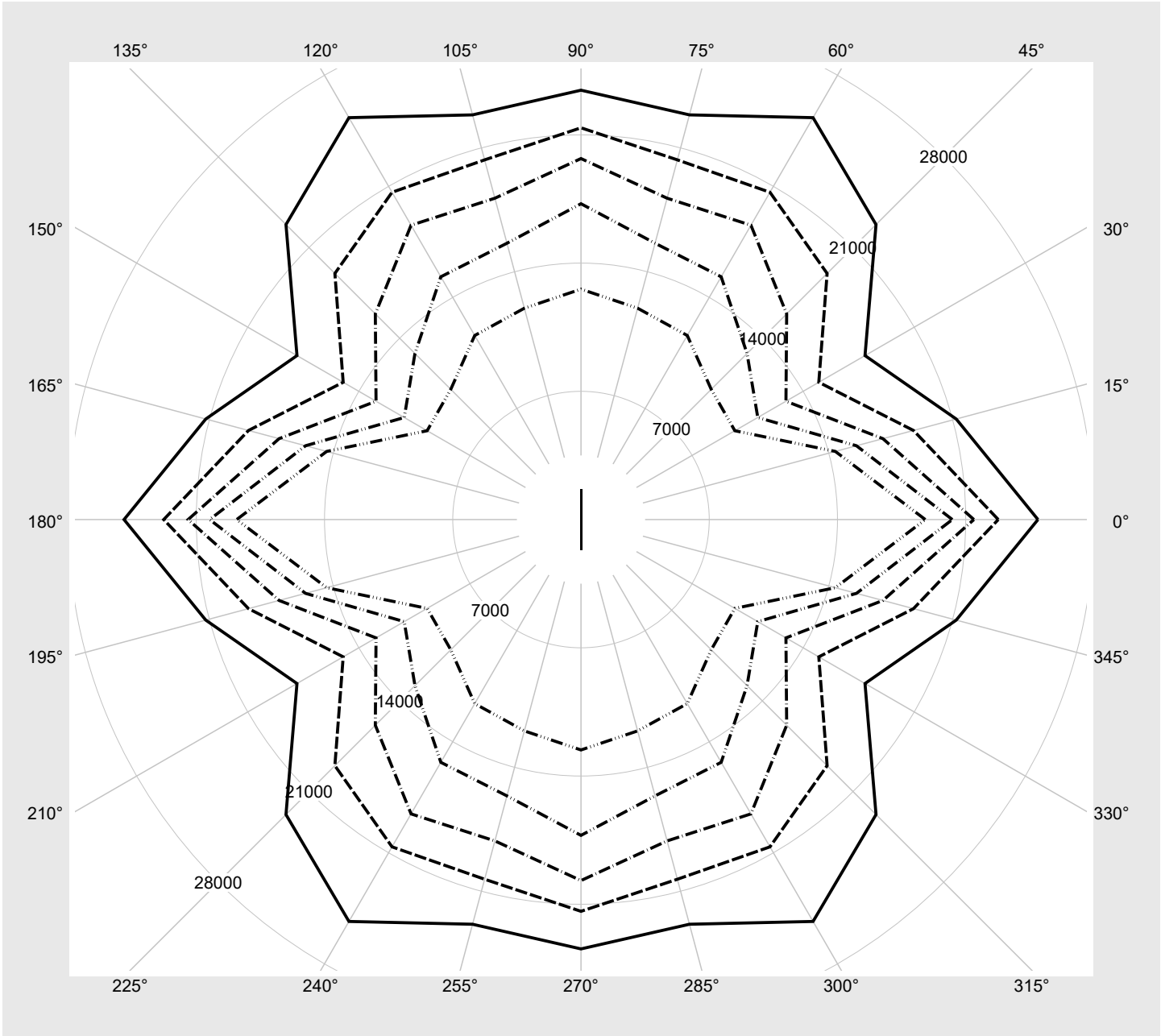
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Luminance values in cd/m²

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	22710	125.6
95	240	252	21570	118.9
90	226	250	20420	112.2
85	213	248	19335	106.0
80	199	245	18156	99.1
75	186	243	17045	92.8
70	173	240	15923	86.4
65	160	237	14788	80.1
60	147	234	13642	73.8
55	134	231	12488	67.4
50	121	227	11315	61.2
45	109	223	10228	55.4
40	96	218	9040	49.1
35	84	213	7929	43.3
30	72	208	6813	37.6
25	60	201	5691	31.8
20	48	193	4555	26.0
15	36	182	3416	20.2
10	24	168	2271	14.0
5	12	142	1113	7.6
1	4	102	340	2.8