

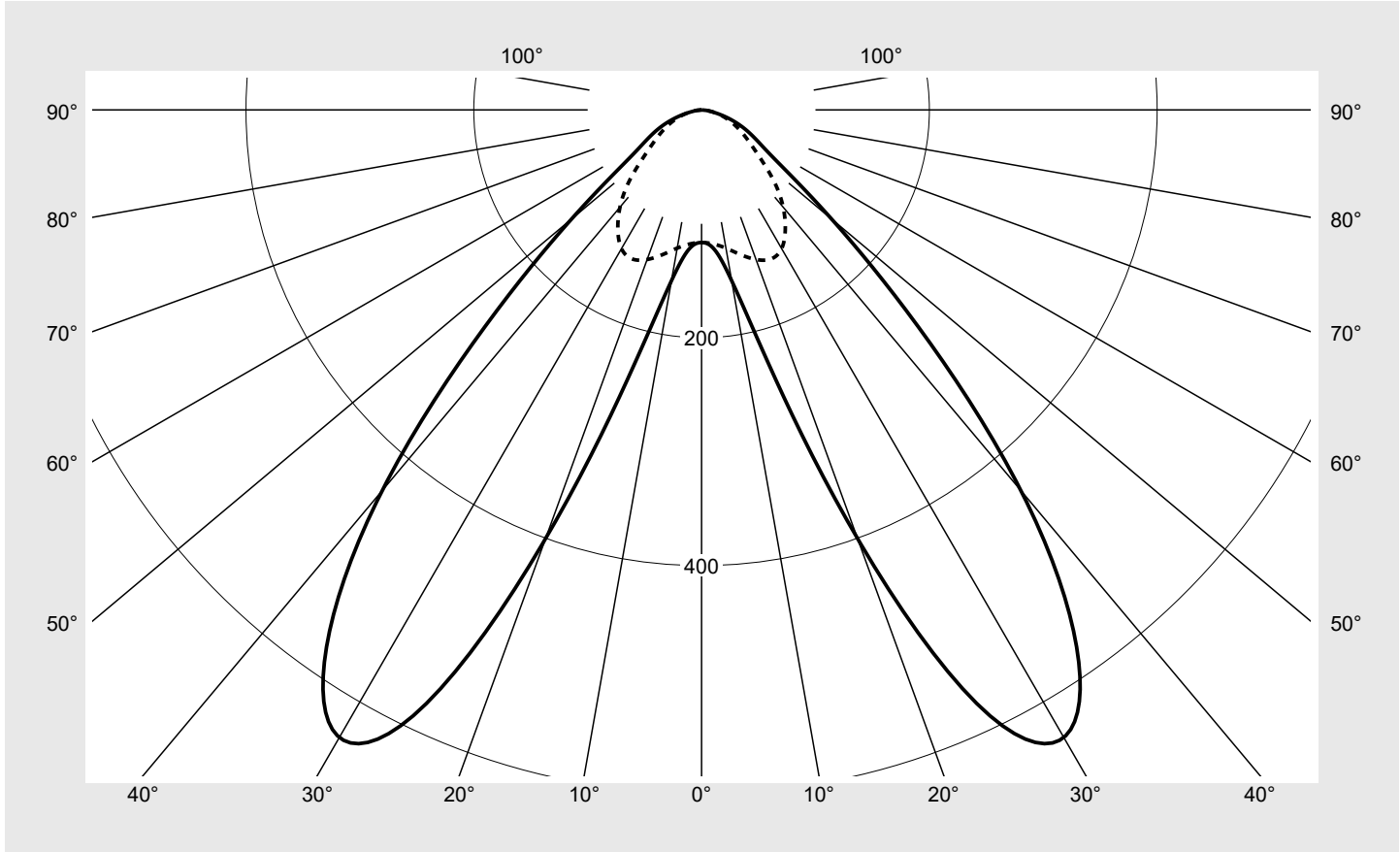


Photometric test report

Family Licross® 21 Recessed	Order number: 52TL19DE445G EAN: 4058352891520	LP number 58532_350
	Version cover frosted, double asymmetric distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 4930 lm Power consumption = 29.9 W Luminous efficacy = 164.9 lm/W	serial documentation 02.08.2023
		

Luminous intensity in cd/klm C180-0 C270-90 Imax: 703 cd/klm



Classifications	
DIN 5040	A 4 0
CIE	N1=55 N2=89 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
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C-planes γ	0° 180°	15° 165° 195° 345°	Luminous intensity in cd/klm					90° 270°	Phi-zone	Total Phi-zone
			30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	Luminous flux in lm/klm			
0°	116.4	116.4	116.4	116.4	116.4	116.4	116.4	116.4	0.7	0.7
5°	122.3	121.8	120.5	120.1	119.3	118.4	118.1	118.1	5.7	6.4
10°	152.3	149.6	141.1	133.1	127.4	124.1	123.2	123.2	12.9	19.3
15°	235.7	226.2	196.7	164.2	142.2	133.3	131.4	131.4	24.7	44.1
20°	400.4	377.8	306.4	227.1	167.8	143.8	139.7	139.7	46.6	90.7
25°	577.7	557.7	476.8	343.4	212.9	153.0	144.3	144.3	81.3	172.0
30°	636.1	636.8	610.4	517.3	280.0	157.9	140.6	140.6	118.3	290.3
35°	573.7	597.7	662.3	665.7	347.9	155.6	128.2	128.2	145.7	436.0
40°	436.2	470.5	613.4	703.5	376.1	144.6	111.4	111.4	151.6	587.6
45°	268.7	299.8	459.0	605.2	334.0	122.5	91.2	91.2	129.2	716.8
50°	149.1	168.3	276.5	419.8	259.3	97.4	69.0	69.0	93.1	809.9
55°	85.3	95.5	151.2	245.9	199.7	79.3	53.1	53.1	62.9	872.9
60°	59.3	63.7	88.0	138.5	152.7	65.0	42.1	42.1	44.2	917.1
65°	44.9	47.0	60.8	84.9	110.7	51.4	33.0	33.0	32.6	949.7
70°	31.7	33.1	42.5	56.3	76.3	38.4	24.7	24.7	23.6	973.3
75°	19.0	20.1	26.0	34.9	49.6	26.3	17.0	17.0	15.4	988.7
80°	8.8	9.4	12.7	18.2	27.0	15.2	9.8	9.8	8.3	997.0
85°	3.4	3.6	4.7	6.8	9.5	5.9	3.7	3.7	3.1	1000.0
90°	0.0	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	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	25.1	26.7	25.5	27.0	27.4	23.9	25.6	24.3	25.9	26.2
	3H	25.3	26.7	25.6	27.0	27.4	24.2	25.7	24.6	26.0	26.4
	4H	25.3	26.7	25.7	27.0	27.4	24.3	25.7	24.7	26.0	26.4
	6H	25.3	26.6	25.7	26.9	27.3	24.3	25.6	24.7	26.0	26.4
	8H	25.4	26.5	25.8	26.9	27.3	24.3	25.5	24.7	25.9	26.3
	12H	25.3	26.4	25.8	26.8	27.2	24.3	25.5	24.7	25.9	26.3
4H	2H	25.5	26.9	25.9	27.2	27.6	24.6	26.0	25.0	26.3	26.7
	3H	25.8	26.9	26.2	27.3	27.7	25.4	26.5	25.8	26.9	27.3
	4H	25.9	26.9	26.3	27.3	27.7	25.6	26.6	26.1	27.0	27.5
	6H	25.9	26.8	26.4	27.2	27.7	25.7	26.6	26.2	27.1	27.5
	8H	25.9	26.7	26.4	27.1	27.6	25.7	26.6	26.2	27.0	27.5
	12H	25.9	26.6	26.4	27.1	27.6	25.7	26.5	26.2	27.0	27.4
8H	4H	26.0	26.8	26.5	27.3	27.8	25.8	26.6	26.3	27.1	27.5
	6H	26.1	26.8	26.6	27.2	27.7	26.1	26.8	26.6	27.2	27.7
	8H	26.1	26.7	26.6	27.2	27.7	26.2	26.8	26.7	27.3	27.8
	12H	26.1	26.6	26.6	27.1	27.6	26.2	26.7	26.7	27.2	27.8
12H	4H	26.0	26.8	26.5	27.2	27.7	25.8	26.5	26.3	27.0	27.5
	6H	26.1	26.7	26.6	27.2	27.7	26.1	26.7	26.6	27.2	27.7
	8H	26.1	26.7	26.7	27.2	27.7	26.3	26.8	26.8	27.3	27.8

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 750
			B = 58

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°		43061.0	48044.6	73569.6	96994.7	53527.6	19635.9	14615.1	
50°		26282.5	29680.6	48755.8	74011.5	45722.1	17175.9	12161.7	
55°		16862.2	18868.7	29879.5	48592.9	39457.7	15660.0	10484.8	
60°		13440.0	14449.5	19948.7	31385.9	34606.3	14744.0	9543.8	
65°		12039.2	12616.8	16305.2	22770.5	29692.0	13776.4	8838.1	
70°		10517.5	10965.2	14094.9	18639.6	25294.4	12732.7	8179.1	
75°		8322.5	8810.7	11396.0	15289.7	21728.8	11524.7	7440.1	
80°		5734.9	6103.0	8284.9	11893.4	17616.6	9932.2	6418.9	
85°		4482.3	4676.1	6057.0	8780.0	12414.5	7617.5	4868.5	

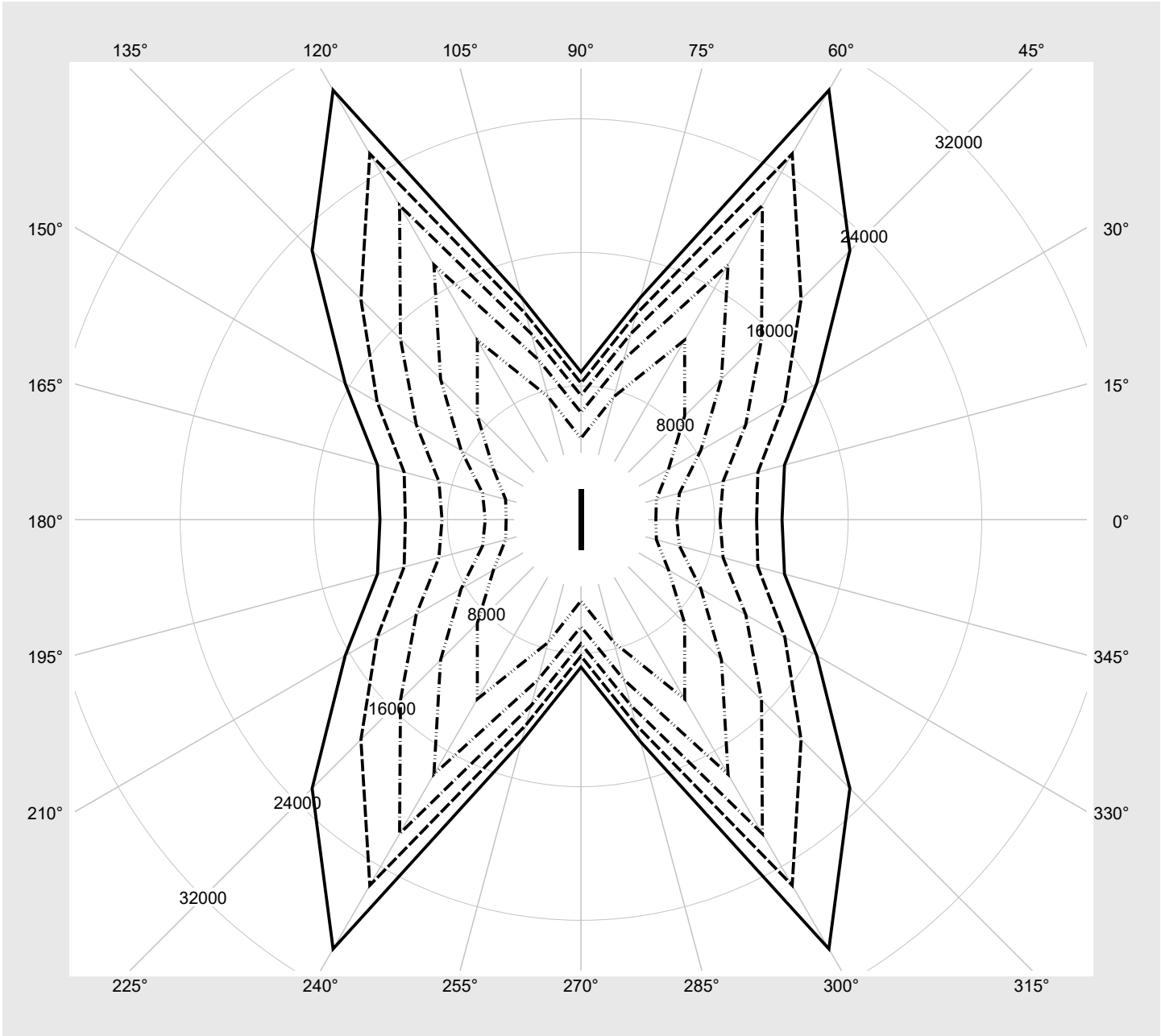
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Luminance values in cd/m²

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	4930	29.9
95	240	252	4681	28.3
90	226	250	4430	26.7
85	213	248	4194	25.2
80	199	245	3937	23.6
75	186	243	3695	22.1
70	173	240	3452	20.6
65	160	237	3207	19.1
60	147	234	2959	17.6
55	134	231	2708	16.0
50	122	227	2474	14.8
45	109	223	2218	13.4
40	97	219	1981	12.2
35	84	213	1722	10.8
30	72	208	1479	9.4
25	60	201	1235	8.0
20	48	193	991	6.6
17	40	186	826	5.6