



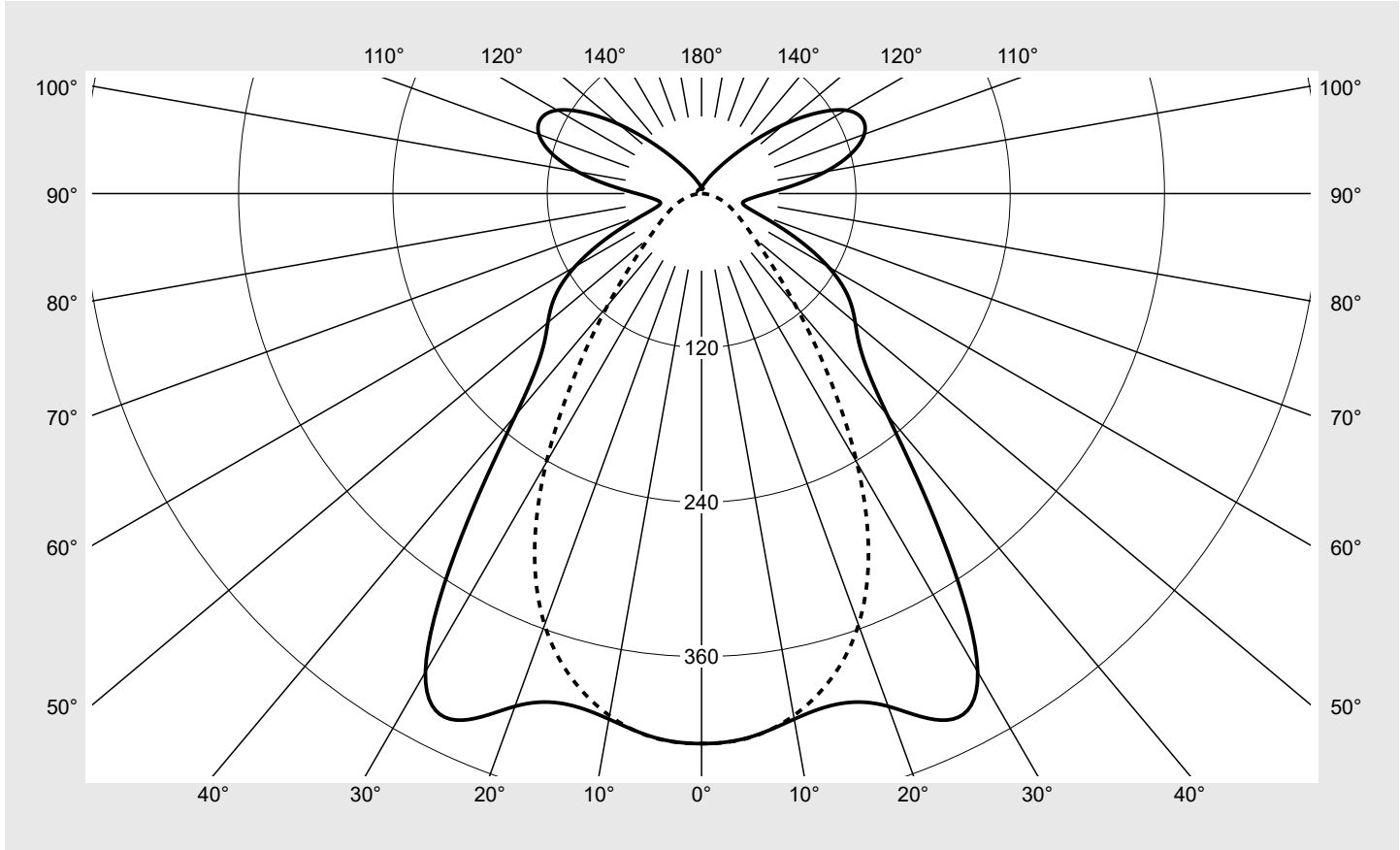
Photometric test report

Family Licross® 21 Performance	Order number: 52TD16VN48XG EAN: 4058352979501	LP number 58520_370
	Version cover frosted, direct-/ indirect distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI CLO Rated values Net luminous flux = 8000 lm Power consumption = 44.6 W Luminous efficacy = 179.4 lm/W	serial documentation 07.11.2023





Luminous intensity in cd/klm C180-0 C270-90 **Imax: 452 cd/klm**



Classifications	
DIN 5040	B 5 1
CIE	N1=65 N2=88 N3=96 N4=79 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	79.3%
ϕ_o	20.7%

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°	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°	427.7	427.7	427.7	427.7	427.7	427.7	427.7	2.6	2.6
5°	424.4	422.4	420.2	422.1	424.3	424.4	424.8	20.2	22.8
10°	414.9	412.5	408.9	409.5	411.2	411.6	412.2	39.1	61.9
15°	410.8	406.7	398.1	393.2	390.9	389.7	390.1	56.3	118.2
20°	424.3	415.5	394.5	375.8	364.0	357.7	356.8	71.8	190.0
25°	451.7	439.9	403.9	360.3	329.2	311.6	307.2	85.9	275.8
30°	429.5	430.9	412.5	347.4	284.5	251.0	241.5	94.2	370.0
35°	325.6	344.5	379.3	329.0	231.5	183.8	171.0	89.9	460.0
40°	224.9	238.5	293.1	289.7	177.2	125.7	113.8	76.0	535.9
45°	176.4	174.8	199.5	224.7	128.0	84.3	75.7	60.6	596.5
50°	156.0	144.3	136.6	154.2	90.2	58.9	53.2	48.2	644.7
55°	139.0	122.9	98.4	99.7	63.9	43.4	39.8	38.7	683.4
60°	113.7	99.1	72.2	64.7	46.3	33.0	30.8	30.7	714.1
65°	79.7	70.2	51.6	43.8	34.5	25.6	24.0	23.0	737.1
70°	47.7	43.4	35.6	31.1	26.2	19.7	18.2	16.2	753.3
75°	33.9	31.2	26.1	23.2	19.9	14.4	12.7	12.2	765.5
80°	33.7	30.7	23.7	18.2	15.1	9.9	7.5	10.6	776.1
85°	39.3	35.6	26.3	17.2	11.4	6.2	3.2	10.7	786.9
90°	50.4	45.6	32.3	18.9	10.0	3.9	0.6	12.4	799.3
95°	71.3	63.5	42.3	22.5	11.4	4.6	1.0	16.4	815.7
100°	97.9	84.6	52.5	26.5	12.9	5.3	1.6	20.8	836.6
105°	120.7	101.7	62.6	30.2	14.2	6.1	2.4	24.4	860.9
110°	134.6	112.6	69.4	33.2	15.3	6.7	2.9	26.3	887.2
115°	137.8	115.5	72.0	34.6	16.0	7.2	3.2	26.1	913.3
120°	129.6	108.9	68.7	33.6	15.7	7.4	3.5	23.8	937.1
125°	109.1	92.2	59.5	30.3	14.7	7.4	3.7	19.5	956.6
130°	83.4	71.0	47.4	25.5	13.2	7.2	3.7	14.5	971.2
135°	58.6	50.3	35.1	20.5	11.4	6.8	3.7	10.0	981.2
140°	39.2	34.3	25.3	16.3	9.8	6.3	3.7	6.7	987.9
145°	26.6	23.8	18.6	13.0	8.2	5.4	3.7	4.4	992.3
150°	18.7	17.2	14.2	10.0	6.9	5.0	3.7	2.9	995.2
155°	13.8	12.8	10.8	7.8	6.8	4.4	3.6	2.0	997.2
160°	10.2	9.8	7.9	6.8	5.6	4.6	3.5	1.3	998.5
165°	8.2	7.8	6.5	5.6	5.0	4.1	3.7	0.8	999.3
170°	6.4	5.6	4.7	4.7	5.0	4.1	3.9	0.5	999.8
175°	4.2	3.7	4.1	4.1	4.1	4.2	4.2	0.2	1000.0
180°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	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	18.3	19.6	18.9	20.1	20.8	14.5	15.8	15.1	16.3	17.0
	3H	18.9	20.0	19.5	20.6	21.3	14.9	16.0	15.5	16.6	17.3
	4H	19.1	20.1	19.7	20.7	21.4	15.1	16.2	15.7	16.8	17.5
	6H	19.3	20.2	20.0	20.9	21.6	15.2	16.2	15.9	16.8	17.6
	8H	19.6	20.4	20.3	21.0	21.8	15.2	16.1	15.9	16.8	17.5
	12H	19.9	20.6	20.6	21.3	22.1	15.3	16.1	15.9	16.8	17.5
4H	2H	18.3	19.4	18.9	20.0	20.6	15.0	16.0	15.6	16.6	17.3
	3H	19.0	19.8	19.6	20.5	21.3	15.5	16.4	16.2	17.0	17.8
	4H	19.2	20.0	19.9	20.7	21.5	15.8	16.6	16.5	17.3	18.1
	6H	19.7	20.3	20.4	21.0	21.9	16.0	16.7	16.7	17.4	18.2
	8H	20.0	20.6	20.7	21.3	22.2	16.1	16.7	16.8	17.4	18.3
	12H	20.5	21.0	21.3	21.8	22.7	16.1	16.7	16.9	17.4	18.3
8H	4H	19.2	19.8	19.9	20.5	21.4	16.0	16.6	16.7	17.3	18.1
	6H	19.8	20.3	20.5	21.0	21.9	16.4	16.8	17.1	17.6	18.5
	8H	20.3	20.7	21.0	21.5	22.3	16.5	17.0	17.3	17.7	18.6
	12H	21.0	21.4	21.8	22.2	23.1	16.6	17.0	17.4	17.8	18.7
12H	4H	19.1	19.7	19.9	20.4	21.3	16.0	16.5	16.8	17.2	18.1
	6H	19.7	20.2	20.5	20.9	21.8	16.5	16.9	17.2	17.6	18.6
	8H	20.3	20.7	21.1	21.4	22.4	16.7	17.1	17.5	17.8	18.8

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1480	H(C0) = 36	H(C180) = 36
			B = 115	H(C90) = 0	H(C270) = 0

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°		8931.2	8921.7	10433.5	12229.7	7359.8	5184.5	5029.2	
50°		8308.1	7754.4	7547.0	8922.8	5560.5	3929.9	3888.0	
55°		7871.4	7035.6	5814.1	6209.4	4279.4	3187.5	3259.7	
60°		6930.0	6115.8	4616.8	4397.1	3427.6	2724.5	2895.1	
65°		5306.8	4733.0	3626.9	3303.4	2876.7	2428.3	2673.1	
70°		3522.9	3257.2	2804.1	2661.5	2513.3	2213.0	2505.7	
75°		2843.3	2659.9	2357.0	2307.4	2284.6	2012.7	2308.4	
80°		3289.8	3063.7	2528.0	2181.5	2168.8	1839.6	2032.0	
85°		4626.2	4314.3	3459.1	2628.3	2198.9	1739.1	1730.1	

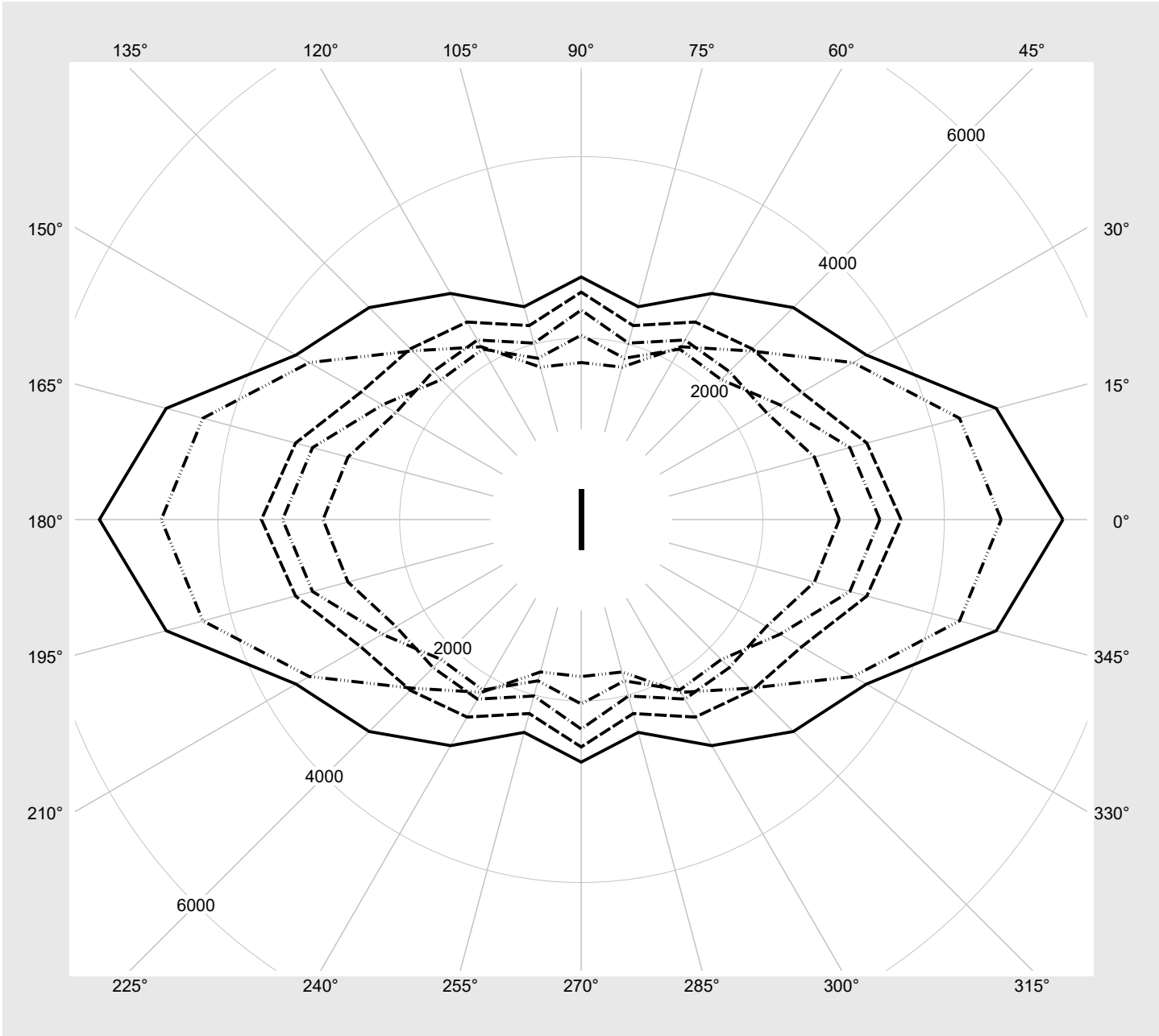
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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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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]	Power consumption [W]	Power consumption [W]
				start of lifetime	end of lifetime	average
100	254	254	8000	44.6	53.0	48.8
95	241	252	7613	42.4	50.3	46.3
90	227	250	7194	39.9	47.4	43.6
85	214	248	6804	37.8	44.7	41.2
80	201	245	6411	35.5	42.0	38.8
75	188	243	6014	33.3	39.4	36.3
70	174	240	5585	30.9	36.6	33.8
65	162	238	5213	29.0	34.1	31.6
60	149	234	4807	26.7	31.5	29.1
55	136	231	4401	24.5	28.9	26.7
50	123	227	3989	22.4	26.3	24.4
45	111	224	3606	20.4	23.9	22.2
40	98	219	3192	18.2	21.4	19.8
35	86	214	2805	16.3	19.0	17.6
30	73	208	2386	14.1	16.4	15.2
25	61	202	1995	12.1	14.0	13.0
20	49	194	1603	10.0	11.6	10.8
15	37	183	1209	8.1	9.2	8.6
10	25	169	813	6.1	6.9	6.5
5	12	142	384	4.1	4.4	4.2
2	5	110	150	2.9	3.1	3.0