
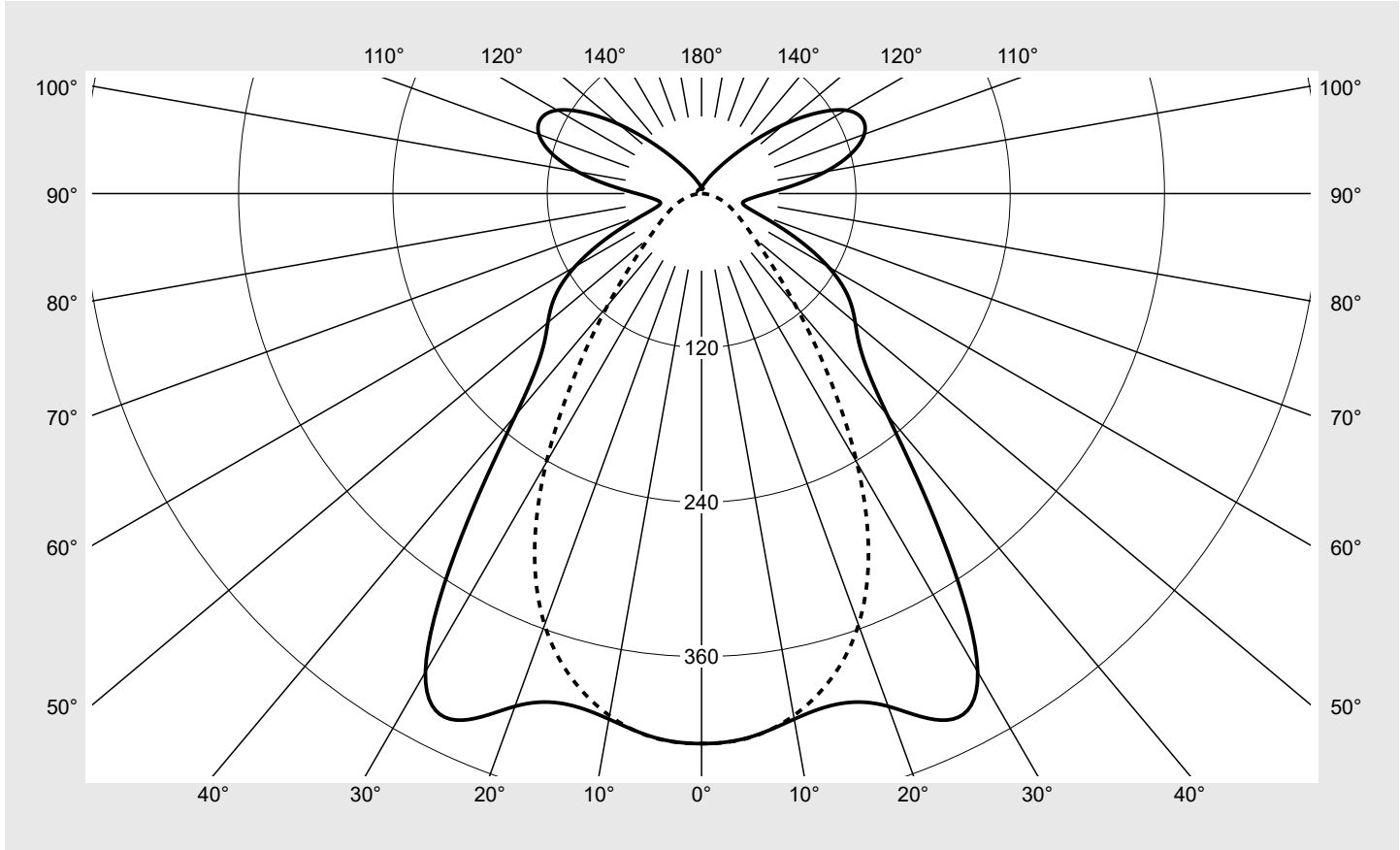


Photometric test report

Family Licross® 11 Performance	Order number: 51TD16VN445G EAN: 4058352971130	LP number 58520_388
	Version cover frosted, direct-/ indirect distribution, UGR≤19 (L65≤3000cd/m²) Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI CLO Rated values Net luminous flux = 4500 lm Power consumption = 24.2 W Luminous efficacy = 186 lm/W	serial documentation 20.02.2024
		

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
		siteco

C-planes γ	0°	15°	30°	45°	60°	75°	90°	Phi-zone	Total Phi-zone
	180°	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	16.3	17.6	16.9	18.1	18.8	12.5	13.8	13.1	14.3	15.0
	3H	16.9	18.0	17.5	18.6	19.3	12.9	14.0	13.5	14.6	15.3
	4H	17.1	18.1	17.7	18.7	19.4	13.1	14.2	13.7	14.8	15.5
	6H	17.3	18.2	18.0	18.9	19.6	13.3	14.2	13.9	14.8	15.6
	8H	17.6	18.4	18.3	19.0	19.8	13.2	14.1	13.9	14.8	15.5
	12H	17.9	18.6	18.6	19.3	20.1	13.3	14.1	13.9	14.8	15.5
4H	2H	16.3	17.4	16.9	18.0	18.7	13.0	14.0	13.6	14.6	15.3
	3H	17.0	17.8	17.6	18.5	19.3	13.5	14.4	14.2	15.0	15.8
	4H	17.2	18.0	17.9	18.7	19.5	13.8	14.6	14.5	15.3	16.1
	6H	17.7	18.3	18.4	19.0	19.9	14.0	14.7	14.7	15.4	16.2
	8H	18.0	18.6	18.7	19.3	20.2	14.1	14.7	14.8	15.4	16.3
	12H	18.5	19.0	19.3	19.8	20.7	14.1	14.7	14.9	15.4	16.3
8H	4H	17.2	17.8	17.9	18.5	19.4	14.0	14.6	14.7	15.3	16.1
	6H	17.8	18.3	18.5	19.0	19.9	14.4	14.8	15.1	15.6	16.5
	8H	18.3	18.7	19.0	19.5	20.3	14.5	15.0	15.3	15.7	16.6
	12H	19.0	19.4	19.8	20.2	21.1	14.6	15.0	15.4	15.8	16.7
12H	4H	17.1	17.7	17.9	18.4	19.3	14.0	14.5	14.8	15.2	16.1
	6H	17.7	18.2	18.5	18.9	19.8	14.5	14.9	15.2	15.6	16.6
	8H	18.3	18.7	19.1	19.4	20.4	14.7	15.1	15.5	15.8	16.8

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

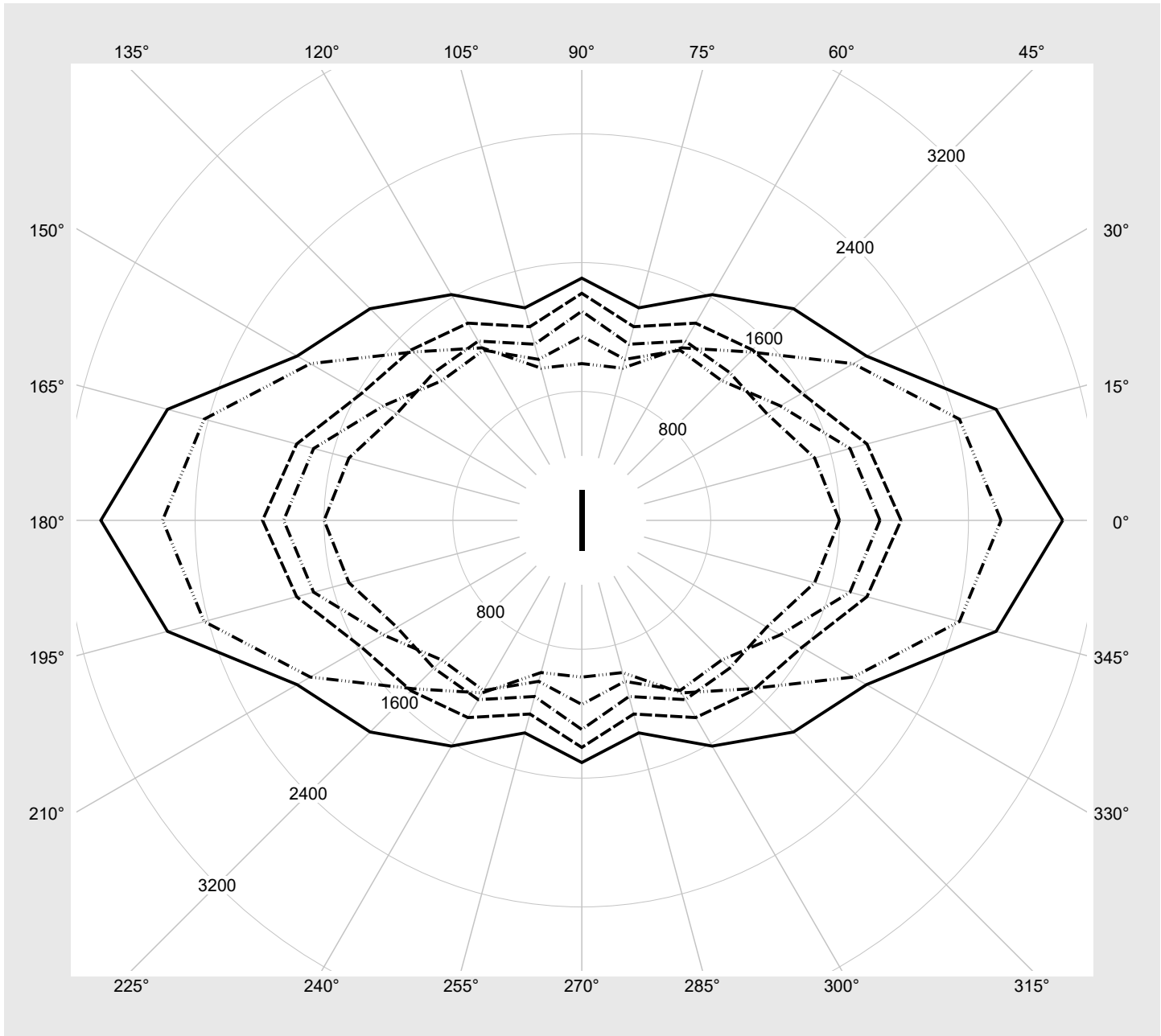
C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		5023.8	5018.4	5868.8	6879.2	4139.9	2916.3	2828.9	
50°		4673.3	4361.9	4245.2	5019.1	3127.8	2210.6	2187.0	
55°		4427.7	3957.5	3270.4	3492.8	2407.2	1793.0	1833.6	
60°		3898.2	3440.1	2596.9	2473.4	1928.0	1532.5	1628.5	
65°		2985.1	2662.3	2040.1	1858.2	1618.1	1365.9	1503.6	
70°		1981.6	1832.2	1577.3	1497.1	1413.8	1244.8	1409.5	
75°		1599.3	1496.2	1325.8	1297.9	1285.1	1132.2	1298.5	
80°		1850.5	1723.3	1422.0	1227.1	1220.0	1034.8	1143.0	
85°		2602.2	2426.8	1945.7	1478.4	1236.9	978.2	973.2	

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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]	Power consumption [W]	Power consumption [W]
				start of lifetime	end of lifetime	average
100	254	254	4500	24.2	26.4	25.3
95	241	252	4277	23.1	25.1	24.1
90	228	250	4054	21.9	23.9	22.9
85	215	248	3830	20.7	22.7	21.7
80	202	246	3605	19.6	21.4	20.5
75	189	243	3380	18.4	20.1	19.2
70	176	241	3152	17.2	18.7	18.0
65	163	238	2923	16.0	17.4	16.7
60	150	235	2694	14.8	16.1	15.4
55	138	232	2482	13.7	14.9	14.3
50	125	228	2252	12.4	13.6	13.0
45	112	224	2022	11.2	12.2	11.7
40	100	220	1807	10.1	11.0	10.6
35	87	215	1575	9.0	9.8	9.4
30	74	209	1341	7.8	8.5	8.2
25	62	202	1125	6.7	7.3	7.0
20	50	194	905	5.6	6.0	5.8
15	37	183	668	4.3	4.6	4.4
10	26	171	467	3.2	3.4	3.3