

Photometric test report

Family
Licross® Performance

Order number: **51TS16DN69XF**
EAN: **4058352340516**

LP number
58520_21



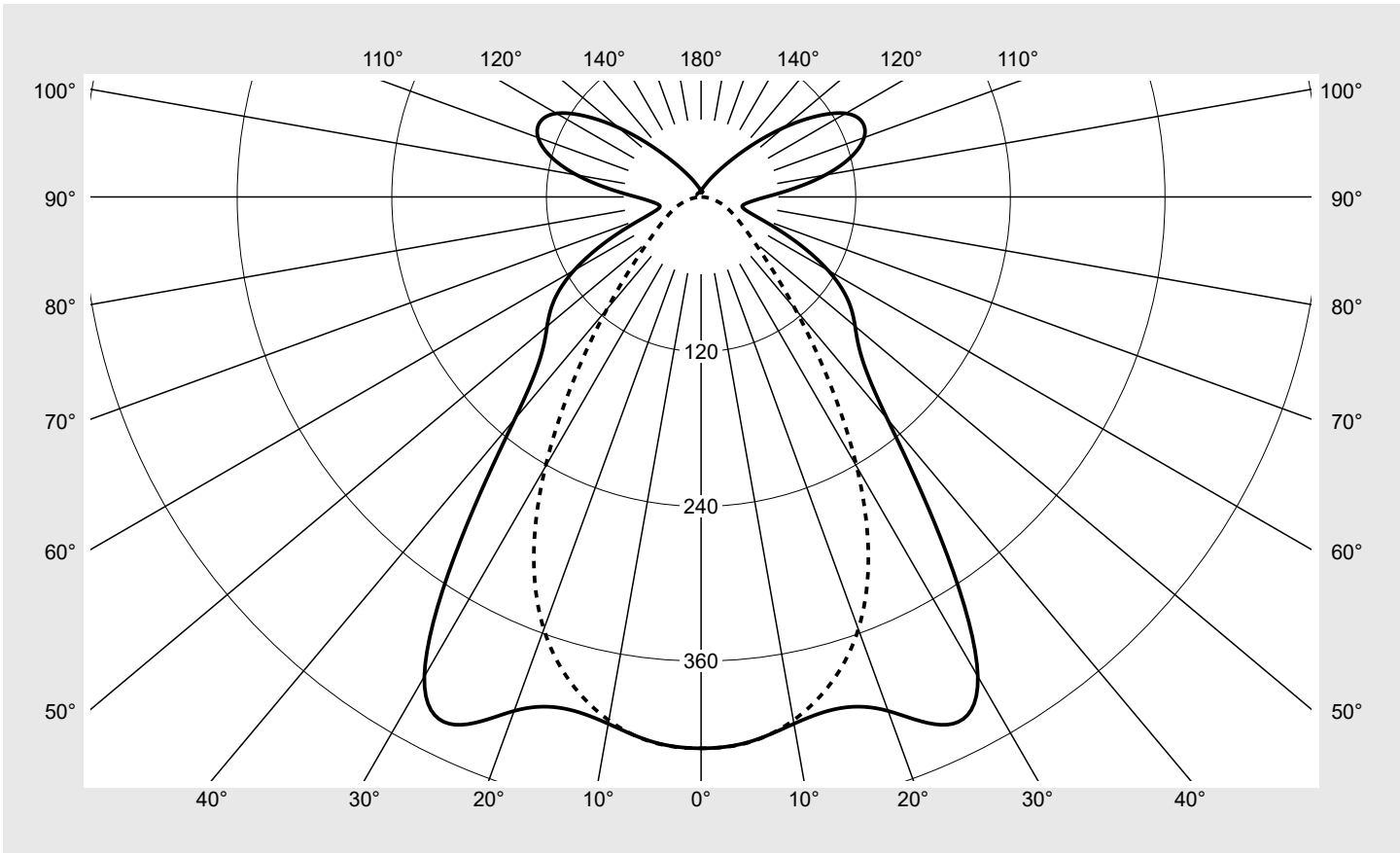
Version cover frosted, direct-/ indirect distribution
Lamps LED 6500 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 9030 lm
Power consumption = 56.9 W
Luminous efficacy = 158.7 lm/W

serial
documentation
06.03.2020

siteco

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	18.7	20.0	19.3	20.5	21.2	14.9	16.2	15.5	16.7	17.4
	3H	19.3	20.4	19.9	21.0	21.7	15.3	16.5	15.9	17.0	17.7
	4H	19.5	20.5	20.1	21.1	21.8	15.5	16.6	16.1	17.2	17.9
	6H	19.7	20.6	20.4	21.3	22.1	15.7	16.6	16.3	17.3	18.0
	8H	20.0	20.8	20.7	21.5	22.3	15.7	16.6	16.3	17.2	18.0
	12H	20.3	21.1	21.0	21.7	22.6	15.7	16.5	16.3	17.2	17.9
4H	2H	18.7	19.8	19.3	20.4	21.1	15.4	16.4	16.0	17.0	17.7
	3H	19.4	20.3	20.1	20.9	21.7	16.0	16.8	16.6	17.5	18.2
	4H	19.7	20.4	20.3	21.1	21.9	16.2	17.0	16.9	17.7	18.5
	6H	20.1	20.7	20.8	21.4	22.3	16.5	17.1	17.2	17.8	18.7
	8H	20.4	21.0	21.2	21.7	22.6	16.5	17.1	17.2	17.9	18.7
	12H	21.0	21.5	21.7	22.2	23.1	16.5	17.1	17.3	17.8	18.7
8H	4H	19.6	20.2	20.3	20.9	21.8	16.4	17.0	17.1	17.7	18.6
	6H	20.2	20.7	20.9	21.4	22.3	16.8	17.3	17.5	18.0	18.9
	8H	20.7	21.1	21.4	21.9	22.8	17.0	17.4	17.7	18.2	19.1
	12H	21.4	21.8	22.2	22.6	23.5	17.1	17.4	17.8	18.2	19.1
12H	4H	19.6	20.1	20.3	20.8	21.7	16.4	16.9	17.2	17.7	18.6
	6H	20.2	20.6	20.9	21.4	22.2	16.9	17.3	17.7	18.1	19.0
	8H	20.7	21.1	21.5	21.9	22.8	17.1	17.5	17.9	18.3	19.2

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°		10081.1	10070.3	11776.8	13804.2	8307.4	5852.1	5676.7	
50°		9377.7	8752.8	8518.6	10071.6	6276.4	4435.9	4388.6	
55°		8884.9	7941.5	6562.7	7008.9	4830.4	3597.9	3679.3	
60°		7822.3	6903.2	5211.2	4963.2	3868.9	3075.3	3267.9	
65°		5990.1	5342.3	4093.8	3728.7	3247.1	2741.0	3017.2	
70°		3976.5	3676.6	3165.1	3004.1	2836.9	2497.9	2828.4	
75°		3209.3	3002.4	2660.5	2604.4	2578.7	2271.9	2605.6	
80°		3713.4	3458.2	2853.5	2462.4	2448.1	2076.5	2293.6	
85°		5221.8	4869.7	3904.4	2966.7	2482.1	1963.0	1952.8	

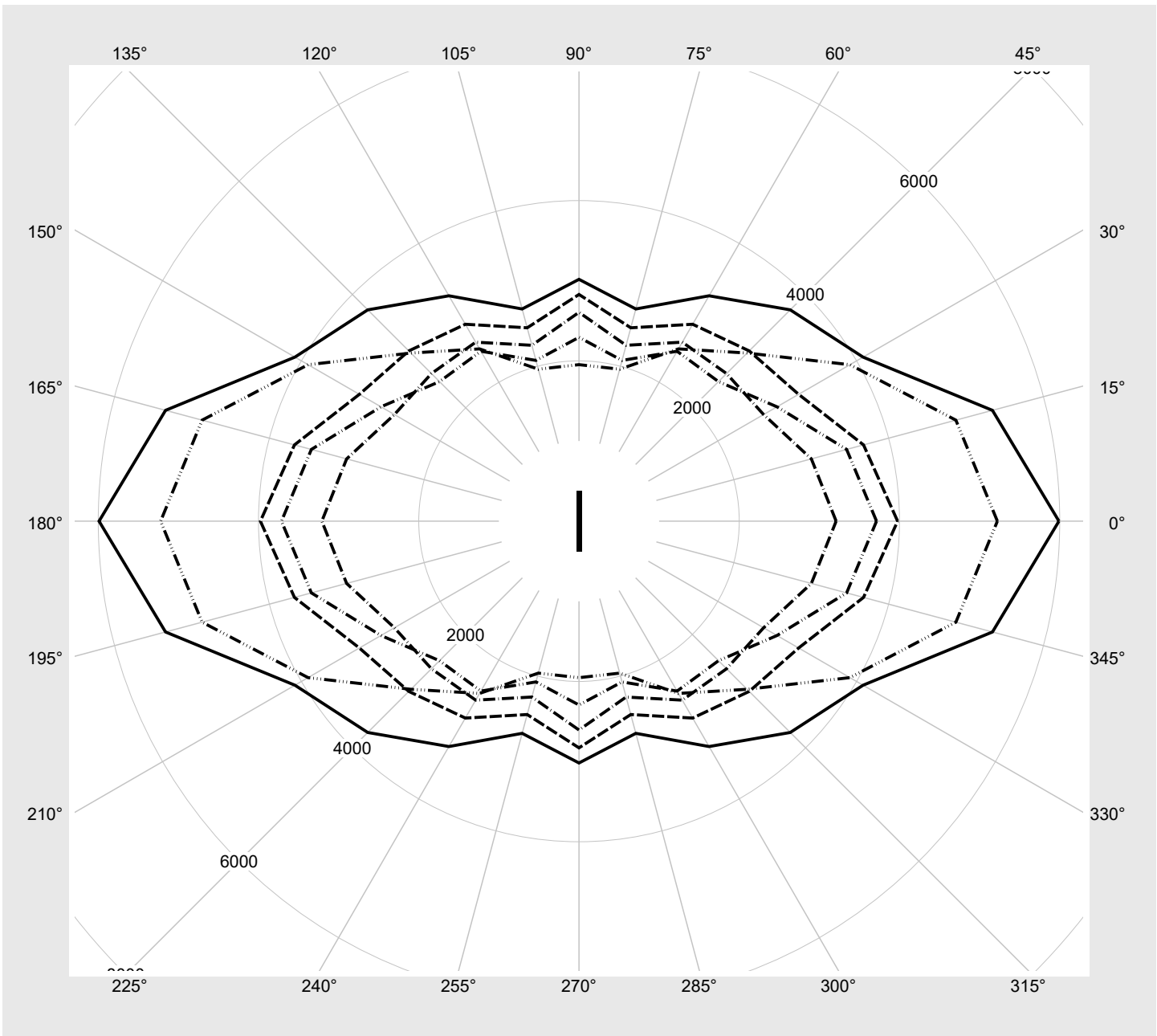
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Luminance values in cd/m²

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	9030	56.9
95	240	252	8585	53.8
90	226	250	8118	50.7
85	213	248	7686	47.9
80	199	245	7218	44.8
75	186	243	6762	41.8
70	174	240	6318	39.0
65	161	237	5885	36.3
60	148	234	5429	33.4
55	135	231	4973	30.6
50	122	227	4518	27.8
45	110	223	4073	25.3
40	97	219	3617	22.4
35	85	214	3172	20.0
30	72	208	2691	17.1
25	60	201	2247	14.5
20	48	193	1803	12.1
15	36	182	1358	9.7
10	24	168	889	7.2
5	13	145	480	4.8