

Photometric test report

Family
Licross® Performance

Order number: **51TS16DN4EXL**
EAN: **4058352265086**

LP number
58519_15



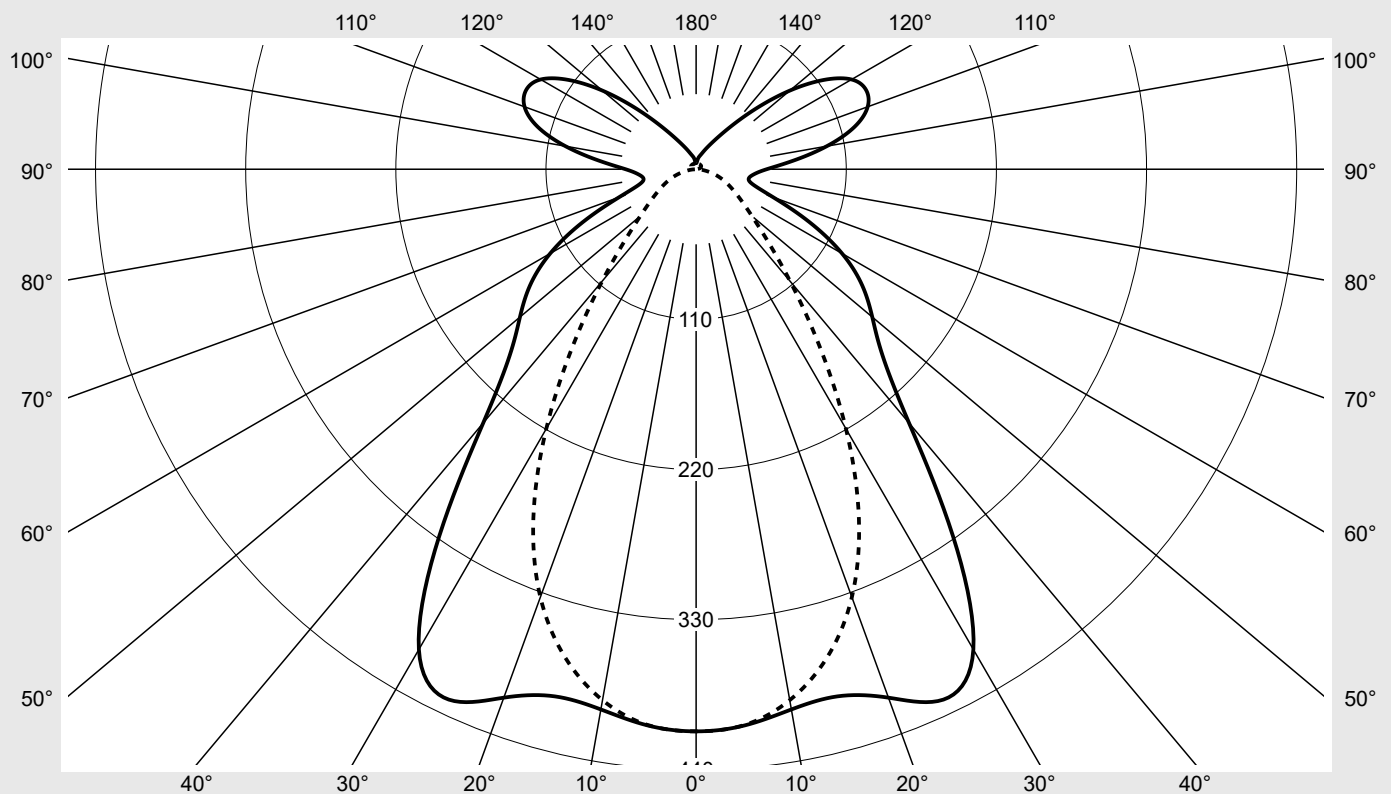
Version cover frosted, direct-/ indirect distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 14250 lm
Power consumption = 86.1 W
Luminous efficacy = 165.5 lm/W

serial
documentation
09.12.2019

siteco

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

Imax: 429 cd/klm



Classifications

DIN 5040 B 5 1
CIE N1=63 N2=86 N3=95
N4=78 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 78.1%
 ϕ_o 21.9%

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°	411.8	411.8	411.8	411.8	411.8	411.8	411.8	2.5	2.5
5°	409.0	407.3	405.0	406.4	408.3	408.3	408.7	19.5	21.9
10°	401.9	399.8	395.6	394.8	395.0	394.6	395.0	37.7	59.6
15°	399.8	396.0	386.0	378.7	373.7	370.5	370.4	54.1	113.8
20°	412.0	404.2	382.1	360.3	344.8	335.4	333.6	68.7	182.5
25°	428.7	419.7	386.2	342.0	307.4	287.4	282.2	81.0	263.5
30°	406.2	406.4	384.2	323.4	261.9	228.9	219.5	87.6	351.1
35°	328.1	339.8	351.8	297.2	211.1	168.2	156.8	84.4	435.5
40°	242.7	253.2	284.0	257.1	161.6	117.6	107.2	73.3	508.8
45°	193.2	191.3	206.1	202.2	118.6	81.5	73.7	60.3	569.1
50°	168.5	157.2	146.5	145.8	85.8	58.6	53.4	49.3	618.5
55°	148.6	133.1	107.2	99.9	62.9	44.3	40.9	40.6	659.0
60°	123.5	108.6	80.0	67.9	46.9	34.4	32.2	32.9	691.9
65°	91.5	81.0	59.1	47.5	36.1	27.0	25.4	25.6	717.5
70°	60.2	54.5	42.3	34.6	28.0	21.0	19.4	18.9	736.4
75°	43.1	39.2	31.3	26.2	21.7	15.5	13.5	14.3	750.7
80°	39.2	35.6	27.4	20.7	16.7	10.7	8.0	12.1	762.9
85°	42.5	38.8	29.2	19.4	12.9	6.9	3.4	11.8	774.7
90°	51.7	47.2	34.3	20.7	11.3	4.4	0.6	13.1	787.8
95°	71.3	64.2	44.5	24.7	12.8	5.2	1.1	17.1	804.9
100°	97.2	85.6	55.2	28.6	14.3	6.1	1.8	21.5	826.4
105°	120.2	103.0	65.3	32.5	15.7	6.9	2.8	25.1	851.6
110°	133.8	113.4	72.0	35.7	17.0	7.6	3.5	27.0	878.6
115°	137.4	116.7	75.1	37.4	17.7	8.2	3.9	27.0	905.5
120°	131.5	112.0	72.9	36.7	17.5	8.5	4.2	25.0	930.5
125°	114.0	97.3	64.4	33.4	16.5	8.4	4.4	20.9	951.4
130°	89.6	76.8	52.0	28.4	14.9	8.3	4.5	15.9	967.3
135°	64.2	55.4	38.9	22.9	13.2	7.9	4.4	11.1	978.4
140°	43.4	38.1	28.3	18.4	11.3	7.3	4.5	7.5	985.9
145°	29.7	26.7	21.1	14.9	9.5	6.3	4.4	5.0	990.9
150°	21.4	19.7	16.5	11.7	8.2	5.8	4.4	3.4	994.4
155°	16.0	15.0	12.7	9.4	8.0	5.2	4.3	2.3	996.7
160°	12.3	11.7	9.5	8.1	6.6	5.4	4.1	1.5	998.2
165°	10.0	9.6	7.9	6.6	5.9	4.7	4.5	1.0	999.2
170°	7.8	6.8	5.5	5.6	6.0	4.8	4.8	0.6	999.8
175°	4.9	4.4	4.8	4.8	4.9	4.9	5.2	0.2	1000.0
180°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	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	20.6	21.9	21.2	22.5	23.1	16.2	17.5	16.8	18.0	18.7
	3H	21.4	22.5	22.1	23.2	23.9	16.7	17.8	17.3	18.5	19.1
	4H	21.7	22.7	22.4	23.4	24.1	17.0	18.0	17.6	18.6	19.4
	6H	22.0	22.9	22.7	23.6	24.4	17.1	18.1	17.8	18.8	19.5
	8H	22.3	23.1	23.0	23.8	24.6	17.1	18.1	17.8	18.7	19.5
	12H	22.6	23.3	23.3	24.0	24.9	17.2	18.0	17.8	18.7	19.5
4H	2H	20.6	21.7	21.2	22.3	23.0	16.8	17.8	17.5	18.5	19.2
	3H	21.6	22.4	22.2	23.1	23.9	17.5	18.4	18.2	19.0	19.8
	4H	21.9	22.7	22.6	23.4	24.2	17.9	18.6	18.6	19.3	20.1
	6H	22.4	23.1	23.2	23.8	24.7	18.1	18.8	18.8	19.5	20.4
	8H	22.8	23.4	23.5	24.1	25.0	18.2	18.8	18.9	19.6	20.4
	12H	23.3	23.8	24.0	24.5	25.4	18.2	18.8	19.0	19.5	20.4
8H	4H	21.9	22.5	22.6	23.2	24.1	18.1	18.7	18.9	19.4	20.3
	6H	22.5	23.0	23.3	23.8	24.7	18.5	19.0	19.3	19.8	20.7
	8H	23.0	23.5	23.8	24.2	25.2	18.8	19.2	19.5	20.0	20.9
	12H	23.8	24.1	24.5	24.9	25.9	18.9	19.3	19.7	20.1	21.0
12H	4H	21.8	22.4	22.6	23.1	24.0	18.2	18.7	18.9	19.4	20.3
	6H	22.5	23.0	23.3	23.7	24.6	18.7	19.1	19.5	19.9	20.8
	8H	23.1	23.5	23.9	24.2	25.2	19.0	19.3	19.8	20.1	21.1

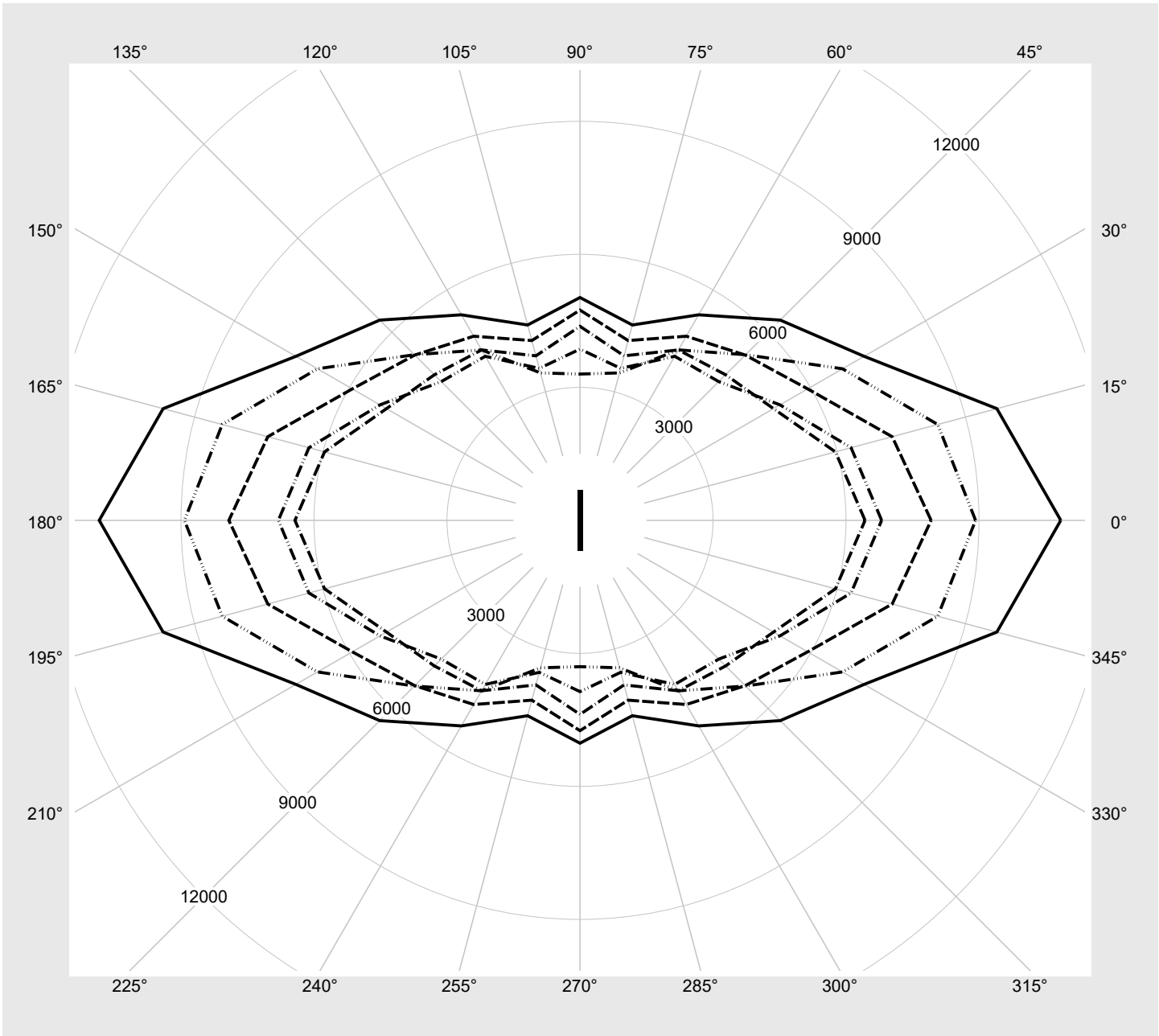
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1480	H(C0) = 36	H(C180) = 36
			B = 115	H(C90) = 0	H(C270) = 0

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°		17425.6	17396.4	19202.3	19604.7	12139.4	8923.9	8729.2	
50°		15983.0	15049.1	14425.7	15024.2	9422.1	6965.9	6958.9	
55°		14992.5	13564.9	11281.3	11075.6	7500.0	5792.3	5969.3	
60°		13406.0	11931.8	9120.0	8220.5	6181.7	5047.9	5389.2	
65°		10844.4	9734.7	7399.6	6387.7	5353.0	4562.1	5025.9	
70°		7920.1	7290.5	5930.3	5272.3	4795.6	4198.5	4742.9	
75°		6430.0	5965.1	5039.9	4644.2	4438.4	3841.7	4376.5	
80°		6804.0	6330.3	5209.5	4425.7	4272.9	3548.4	3862.5	
85°		8922.5	8354.4	6837.4	5283.4	4439.4	3442.9	3299.8	

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **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]
100	254	254	14250	86.1
95	240	252	13539	81.3
90	226	250	12827	76.6
85	212	248	12114	72.0
80	199	245	11402	67.3
75	186	243	10689	62.9
70	172	240	9976	58.4
65	159	237	9264	54.1
60	146	234	8551	49.8
55	134	231	7839	45.6
50	121	227	7126	41.5
45	109	223	6413	37.4
40	96	219	5701	33.4
35	84	214	4988	29.5
30	72	208	4276	25.6
25	60	201	3563	21.7
20	48	193	2850	18.0
15	36	183	2138	14.1
10	24	169	1425	10.3
5	12	144	712	6.8