

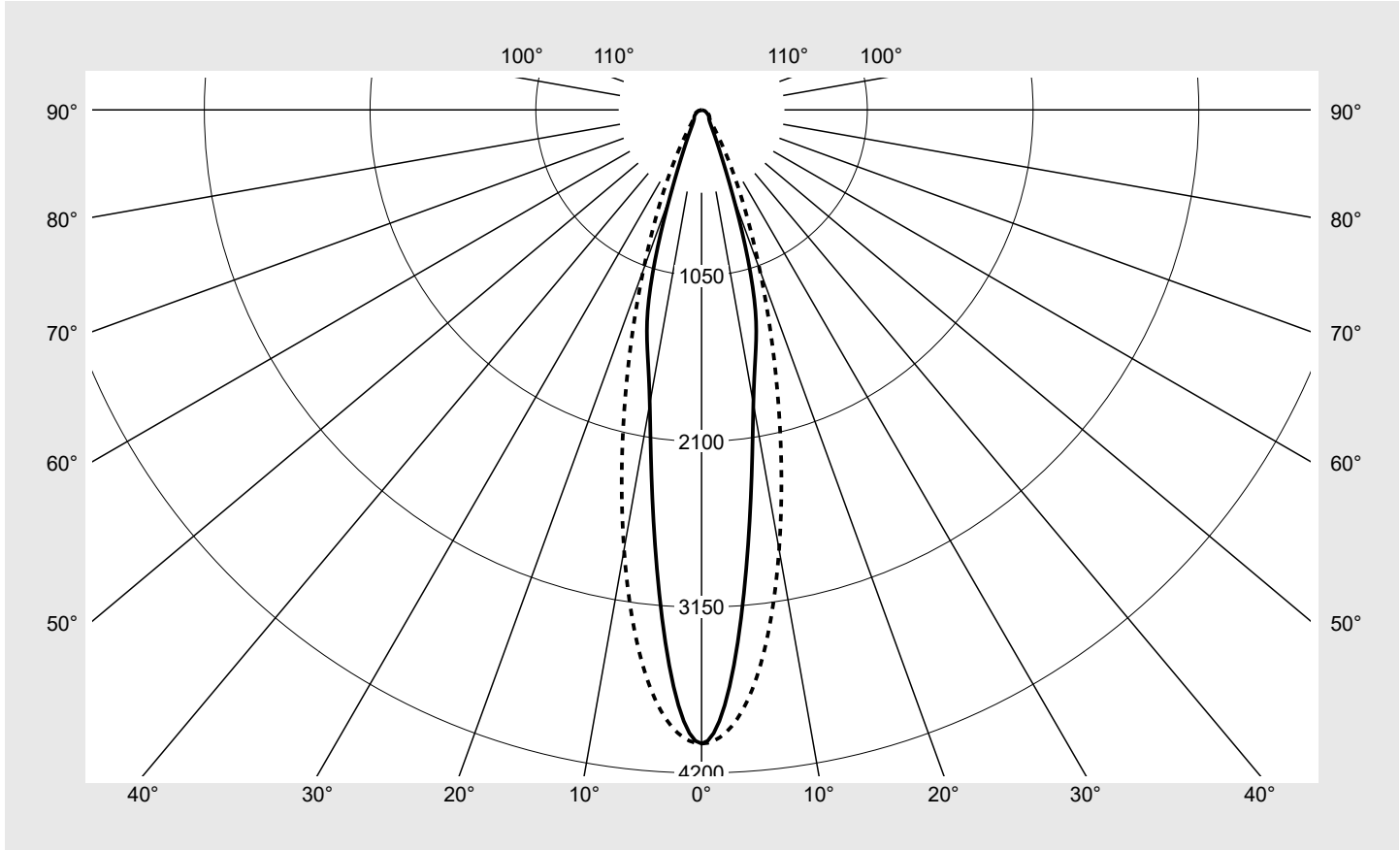


Photometric test report

Family Licross® Protected	Order number: 51TP13DN4EXR EAN: 4058352210611	LP number 58527_10
	Version prismatic cover, frosted, extremely narrow distribution	serial documentation 12.12.2019
	Lamps LED 4000 K CRI ≥ 80	
Controlgear ECG-DALI		
Rated values Net luminous flux = 14170 lm Power consumption = 84.2 W Luminous efficacy = 168.3 lm/W		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 4014 cd/klm**



Classifications	
DIN 5040	A 8 1
CIE	N1=89 N2=96 N3=99 N4=100 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	99.7%
ϕ_o	0.3%

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°	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	24.0	24.0
5°	3075.0	3073.4	3140.6	3286.7	3470.0	3619.0	3684.9	159.0	183.0
10°	1889.9	1876.2	1856.5	1927.7	2182.7	2591.5	2828.1	203.0	386.0
15°	1318.5	1331.1	1324.1	1227.2	1167.4	1498.4	1861.2	192.4	578.4
20°	585.4	606.8	689.8	798.0	693.5	737.0	1075.9	136.1	714.5
25°	239.7	246.3	276.4	361.8	426.5	351.4	567.8	79.8	794.2
30°	128.7	127.4	129.3	152.0	214.6	178.7	273.1	45.8	840.1
35°	88.6	83.8	76.3	80.1	101.4	103.4	134.8	29.2	869.2
40°	73.1	66.6	55.1	52.3	60.4	70.8	85.4	22.6	891.8
45°	65.6	58.2	44.9	39.5	42.7	55.1	71.6	20.0	911.8
50°	58.1	50.6	38.4	32.4	32.8	44.4	65.0	18.2	930.0
55°	47.1	41.7	33.1	27.2	26.3	35.1	57.2	16.1	946.1
60°	37.8	33.0	27.8	22.9	21.3	27.1	47.5	13.8	959.9
65°	30.0	25.5	22.6	19.4	17.3	20.3	35.6	11.4	971.3
70°	23.9	19.8	17.3	16.1	13.9	14.7	23.4	9.1	980.4
75°	19.2	15.7	12.9	12.9	10.8	10.0	13.4	6.9	987.3
80°	14.6	12.1	9.7	9.6	7.9	6.2	6.6	5.0	992.4
85°	10.5	9.0	7.3	6.7	5.6	3.2	2.3	3.5	995.8
90°	7.5	6.5	5.5	4.5	3.7	1.4	0.2	2.3	998.2
95°	6.1	5.4	4.5	3.6	2.8	0.8	0.2	1.8	1000.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
175°	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	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	14.7	15.8	15.1	16.1	16.4	15.2	16.3	15.6	16.6	17.0
	3H	16.3	17.1	16.7	17.4	17.8	16.8	17.5	17.2	17.8	18.2
	4H	16.7	17.6	17.1	18.0	18.3	16.9	17.8	17.3	18.2	18.5
	6H	17.1	18.1	17.6	18.5	18.9	17.0	18.0	17.4	18.3	18.7
	8H	17.8	18.4	18.2	18.8	19.2	17.1	18.0	17.5	18.4	18.8
	12H	17.8	18.6	18.2	19.0	19.4	17.1	17.9	17.5	18.3	18.8
4H	2H	14.9	15.8	15.3	16.2	16.6	15.4	16.3	15.8	16.6	17.0
	3H	16.4	17.2	16.9	17.6	18.0	16.7	17.5	17.2	17.9	18.3
	4H	17.2	17.9	17.7	18.3	18.7	17.2	17.9	17.7	18.3	18.8
	6H	17.8	18.5	18.2	19.0	19.4	17.3	18.1	17.8	18.5	19.0
	8H	18.4	18.9	18.9	19.4	19.9	17.7	18.2	18.2	18.6	19.1
	12H	18.5	19.2	19.0	19.7	20.1	17.5	18.1	18.0	18.6	19.1
8H	4H	17.4	17.9	17.9	18.3	18.8	17.4	17.9	17.9	18.3	18.8
	6H	18.6	18.7	19.1	19.2	19.8	17.9	18.3	18.4	18.7	19.3
	8H	18.7	19.1	19.3	19.6	20.1	18.0	18.4	18.5	18.9	19.4
	12H	19.0	19.5	19.5	20.0	20.5	17.8	18.4	18.3	18.9	19.4
12H	4H	17.1	17.8	17.6	18.2	18.7	17.2	17.8	17.6	18.3	18.8
	6H	18.0	18.6	18.5	19.1	19.6	17.6	18.2	18.1	18.7	19.2
	8H	18.5	19.1	19.0	19.6	20.1	17.8	18.4	18.3	18.9	19.4

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1480	H(C0) = 13	H(C180) = 13
			B = 78	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°		9768.1	8696.7	6814.6	6133.7	6849.4	9177.2	12432.1	
50°		9248.4	8101.5	6253.9	5423.9	5692.3	8066.9	12411.7	
55°		8150.0	7250.9	5873.8	4977.0	5027.0	7073.4	12234.4	
60°		7203.1	6327.4	5463.7	4668.2	4574.7	6183.8	11650.5	
65°		6423.4	5498.5	5011.4	4497.0	4274.0	5401.9	10349.2	
70°		5882.9	4935.1	4436.3	4373.8	4056.6	4709.9	8390.9	
75°		5603.1	4639.2	3966.9	4245.1	3889.6	4086.6	6363.2	
80°		5289.2	4482.9	3775.8	4054.7	3799.3	3512.7	4631.5	
85°		5105.5	4448.1	3893.8	4043.8	4004.7	3024.2	3237.8	

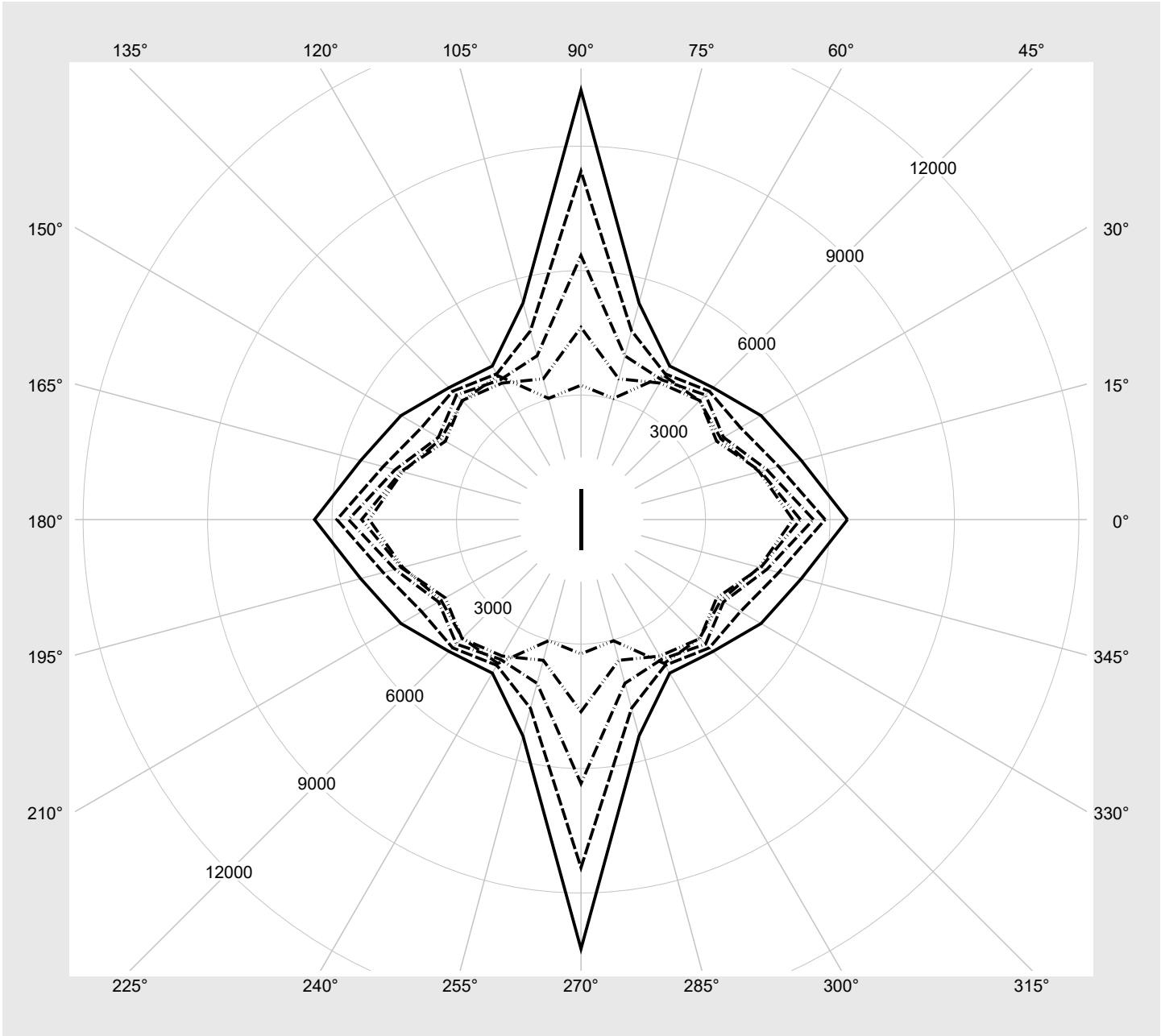
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Luminance values in cd/m²

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	14170	84.2
95	240	252	13465	79.5
90	226	250	12757	75.0
85	213	248	12048	70.4
80	199	245	11339	65.9
75	186	243	10631	61.6
70	173	240	9922	57.3
65	160	237	9213	53.1
60	147	234	8504	48.9
55	134	231	7796	44.8
50	122	227	7087	40.8
45	109	223	6378	36.8
40	97	219	5670	32.8
35	84	214	4961	29.0
30	72	208	4252	25.0
25	60	201	3544	21.4
20	48	193	2835	17.5
15	36	183	2126	13.7
10	24	168	1417	10.4
5	12	143	708	6.6