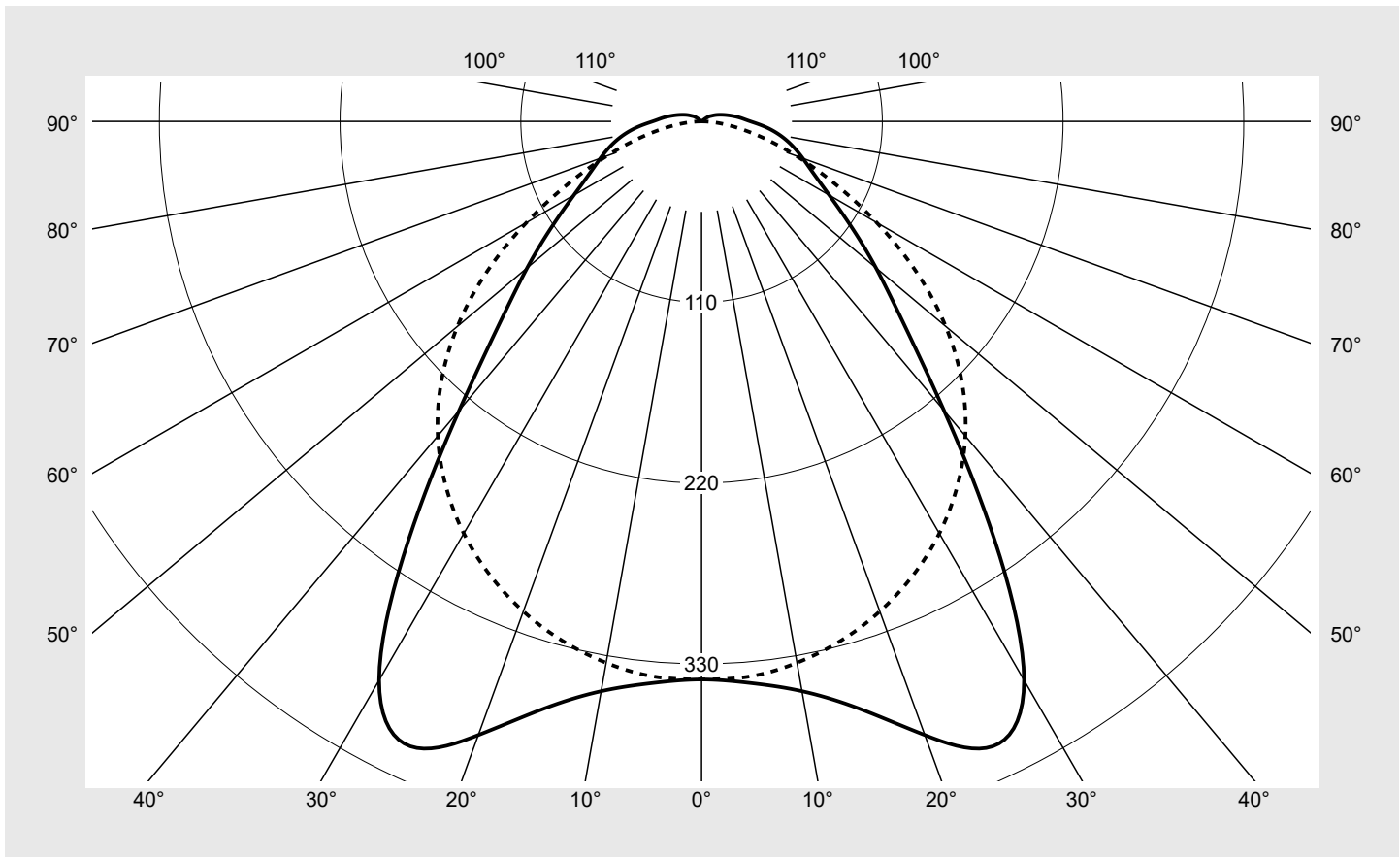


Photometric test report

Family Licross® Protected	Order number: 51TS12DN5DXL EAN: 4058352391624	LP number 58521_14
	Version prismatic cover, frosted, wide distribution Lamps LED 5000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 13380 lm Power consumption = 86.1 W Luminous efficacy = 155.4 lm/W	serial documentation 12.12.2019
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 419 cd/klm**



Classifications	
DIN 5040	A 4 1
CIE	N1=54 N2=82 N3=95 N4=97 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	96.8%
ϕ_o	3.2%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Licross® Protected	Order number: 51TS12DN5DXL EAN: 4058352391624	LP number 58521_14
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°	339.5	339.5	339.5	339.5	339.5	339.5	339.5	2.0	2.0
5°	343.0	342.0	339.2	339.3	339.7	338.8	338.9	16.2	18.3
10°	352.0	350.9	345.1	341.6	338.4	335.1	334.4	32.6	50.9
15°	369.7	367.9	356.8	346.8	337.2	329.4	327.1	49.3	100.2
20°	397.2	393.9	374.9	354.6	335.9	321.8	317.2	66.8	167.0
25°	419.5	416.9	395.3	365.3	334.4	312.1	304.6	84.4	251.4
30°	392.5	397.1	392.3	370.7	332.1	300.1	289.4	97.4	348.9
35°	311.0	322.2	341.8	350.7	323.8	285.3	271.2	100.3	449.2
40°	229.5	240.6	267.7	298.9	299.5	266.8	249.8	94.7	543.9
45°	174.0	182.0	204.5	237.4	256.3	239.9	224.1	85.2	629.1
50°	138.5	144.4	161.2	187.1	207.0	203.8	193.9	74.9	704.0
55°	110.9	115.6	129.9	149.5	163.4	162.9	159.6	64.1	768.1
60°	89.8	92.9	103.5	120.2	127.5	124.1	123.1	53.4	821.5
65°	75.3	77.0	82.7	94.9	98.6	91.3	89.2	43.6	865.1
70°	65.6	65.8	66.8	73.1	74.5	64.6	61.3	35.1	900.1
75°	57.2	56.6	54.5	55.3	53.6	43.2	39.2	27.5	927.6
80°	48.6	47.5	44.1	40.6	36.2	26.8	21.9	20.7	948.4
85°	39.1	38.1	34.6	29.4	22.8	14.4	9.2	14.9	963.2
90°	29.7	28.9	25.8	20.2	13.1	5.9	0.8	10.0	973.2
95°	24.0	23.5	21.5	16.6	10.0	3.6	0.7	8.0	981.2
100°	19.1	18.8	17.3	13.3	7.4	1.9	0.7	6.2	987.3
105°	15.1	14.8	13.5	10.2	5.0	0.8	0.6	4.6	991.9
110°	11.8	11.4	10.2	7.3	2.9	0.6	0.6	3.3	995.3
115°	9.1	8.6	7.4	4.7	1.4	0.7	0.7	2.3	997.5
120°	6.7	6.2	4.9	2.7	0.8	0.7	0.8	1.5	999.1
125°	4.5	4.0	2.9	1.3	0.8	0.8	0.8	0.9	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

Photometric test report

Family Licross® Protected	Order number: 51TS12DN5DXL EAN: 4058352391624	LP number 58521_14
-------------------------------------	----------------------------------------------------------------	------------------------------

UGR-Table	Standard room	siteco
------------------	----------------------	---------------

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	22.2	23.8	22.5	24.1	24.4	24.0	25.7	24.4	26.0	26.3
	3H	23.4	24.8	23.7	25.2	25.5	25.0	26.5	25.4	26.8	27.2
	4H	24.1	25.5	24.5	25.8	26.2	25.4	26.8	25.8	27.1	27.5
	6H	24.8	26.1	25.2	26.5	26.9	25.6	26.9	26.1	27.3	27.7
	8H	25.2	26.4	25.7	26.8	27.2	25.8	26.9	26.2	27.3	27.7
	12H	25.6	26.8	26.1	27.1	27.6	25.8	26.9	26.2	27.3	27.7
4H	2H	23.0	24.4	23.4	24.7	25.1	24.5	25.9	24.9	26.2	26.6
	3H	24.4	25.6	24.8	25.9	26.4	25.7	26.9	26.2	27.3	27.7
	4H	25.2	26.3	25.6	26.7	27.1	26.2	27.3	26.7	27.7	28.1
	6H	26.1	27.0	26.6	27.5	27.9	26.6	27.5	27.1	28.0	28.4
	8H	26.6	27.4	27.1	27.9	28.4	26.7	27.6	27.2	28.0	28.5
	12H	27.1	27.8	27.6	28.3	28.8	26.8	27.6	27.3	28.0	28.5
8H	4H	25.6	26.5	26.1	26.9	27.4	26.5	27.4	27.0	27.8	28.3
	6H	26.7	27.4	27.2	27.9	28.4	27.1	27.8	27.5	28.2	28.7
	8H	27.3	27.9	27.8	28.4	28.9	27.3	27.9	27.8	28.4	28.9
	12H	27.9	28.5	28.4	29.0	29.5	27.4	28.0	27.9	28.5	29.0
12H	4H	25.7	26.4	26.2	26.9	27.4	26.6	27.3	27.1	27.8	28.3
	6H	26.8	27.5	27.3	27.9	28.5	27.2	27.8	27.7	28.3	28.8
	8H	27.5	28.0	28.0	28.5	29.1	27.4	28.0	27.9	28.5	29.0

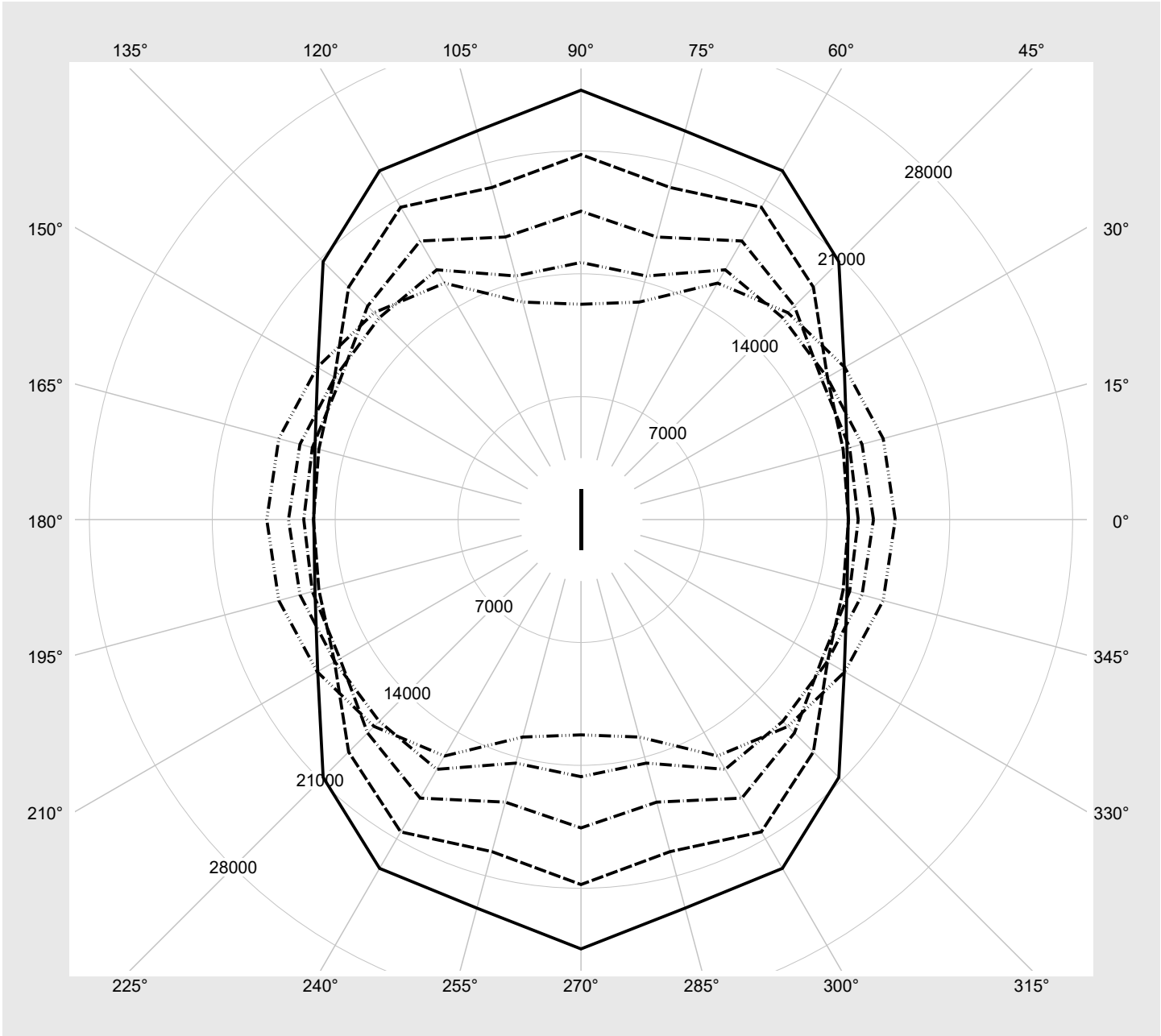
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1480	H(C0) = 13	H(C180) = 13
			B = 78	H(C90) = 0	H(C270) = 0

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°		24445.8	25689.5	29297.9	34811.6	38783.0	37693.8	36728.1	
50°		20841.6	21849.2	24806.1	29574.7	33955.4	34953.7	34962.9	
55°		18095.3	18990.9	21765.0	25854.2	29502.3	31012.8	32243.0	
60°		16147.8	16838.4	19196.7	23133.1	25829.9	26777.0	28527.5	
65°		15220.7	15688.4	17315.9	20768.4	22942.7	22913.1	24456.2	
70°		15236.9	15458.3	16208.5	18718.5	20542.6	19584.0	20789.4	
75°		15791.0	15841.7	15855.1	17190.3	18322.0	16662.9	17564.4	
80°		16660.1	16571.8	16190.6	16253.7	16427.3	14362.5	14645.6	
85°		17899.2	17819.4	17347.2	16665.1	15551.6	12825.1	12263.9	

Photometric test report

Family Licross® Protected	Order number: 51TS12DN5DXL EAN: 4058352391624	LP number 58521_14
--------------------------------------------	----------------------------------------------------------------	-------------------------------------

Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



Photometric test report

Family Licross® Protected	Order number: 51TS12DN5DXL EAN: 4058352391624	LP number 58521_14
-------------------------------------	----------------------------------------------------------------	-------------------------------------

Dimming levels table	environmental temperature: 25°C	sITeco
-----------------------------	---------------------------------	---------------

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	13380	86.1
95	240	252	12711	81.3
90	226	250	12042	76.6
85	212	247	11373	71.9
80	199	245	10704	67.3
75	186	243	10035	62.9
70	172	240	9366	58.4
65	159	237	8697	54.1
60	146	234	8028	49.8
55	134	231	7359	45.6
50	121	227	6690	41.5
45	109	223	6021	37.4
40	96	219	5352	33.4
35	84	214	4683	29.5
30	72	208	4014	25.6
25	60	201	3345	21.7
20	48	193	2676	18.0
15	36	183	2007	14.1
10	24	169	1338	10.3
5	12	144	669	6.8