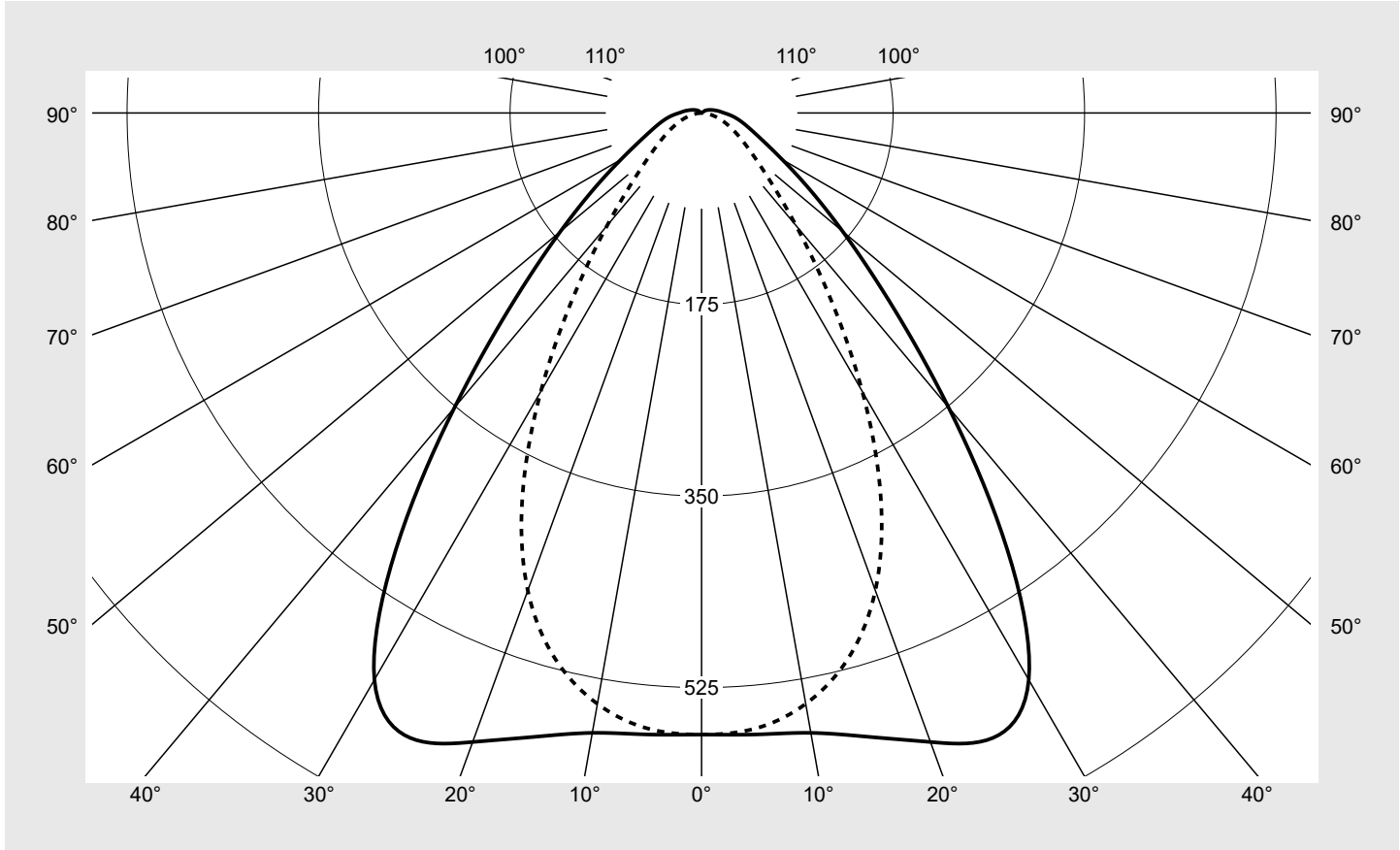


Photometric test report

Family Licross® Protected	Order number: 51TP12DN5EXL EAN: 4058352241554	LP number 58523_16
	Version	prismatic cover, frosted, wide distribution
	Lamps	LED 5000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 14100 lm Power consumption = 86.1 W Luminous efficacy = 163.8 lm/W
		serial documentation 12.12.2019
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 630 cd/klm**



Classifications	
DIN 5040	A 5 1
CIE	N1=70 N2=91 N3=97 N4=98 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	98.3%
ϕ_o	1.7%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Licross® Protected	Order number: 51TP12DN5EXL EAN: 4058352241554	LP number 58523_16
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°	568.0	568.0	568.0	568.0	568.0	568.0	568.0	3.4	3.4
5°	570.0	568.0	563.9	564.4	565.6	564.2	564.6	27.0	30.4
10°	575.1	572.9	563.4	557.9	553.3	549.0	548.2	53.3	83.7
15°	590.1	586.0	566.8	548.5	532.2	519.9	516.5	78.2	161.9
20°	611.6	603.6	568.7	531.0	496.5	471.9	464.3	100.3	262.2
25°	630.0	617.6	564.2	499.9	441.6	401.0	387.5	117.1	379.3
30°	598.0	589.4	536.5	452.4	368.0	311.9	293.8	123.5	502.8
35°	487.1	490.1	463.2	383.1	284.6	222.1	203.0	114.7	617.4
40°	351.1	360.8	359.1	297.2	205.7	150.3	134.3	94.9	712.3
45°	241.7	250.7	257.1	211.9	140.4	100.6	89.9	72.8	785.1
50°	168.3	174.0	178.9	144.5	94.4	69.8	63.7	54.4	839.5
55°	118.9	121.8	123.3	97.4	64.6	50.4	47.5	40.5	880.0
60°	85.1	85.8	84.4	66.1	45.7	37.4	36.1	30.1	910.0
65°	63.8	62.6	58.2	45.7	33.4	28.1	27.2	22.6	932.7
70°	50.4	47.7	40.8	32.1	24.8	20.7	19.9	17.3	949.9
75°	41.3	37.6	29.5	22.7	17.9	14.5	13.5	13.2	963.2
80°	34.0	30.0	21.9	15.9	12.4	9.4	8.0	10.0	973.1
85°	27.2	23.7	16.4	11.2	8.0	5.3	3.6	7.3	980.4
90°	20.7	17.9	12.0	7.4	4.6	2.2	0.4	5.0	985.4
95°	16.6	14.7	10.2	6.3	3.6	1.3	0.3	4.0	989.4
100°	13.2	11.9	8.5	5.2	2.7	0.8	0.3	3.2	992.6
105°	10.4	9.5	6.9	4.1	1.9	0.4	0.3	2.5	995.1
110°	8.2	7.4	5.5	3.1	1.2	0.3	0.3	1.9	997.0
115°	6.5	5.8	4.2	2.2	0.7	0.4	0.4	1.4	998.4
120°	4.9	4.3	3.0	1.4	0.6	0.5	0.5	1.0	999.4
125°	3.5	3.0	2.0	0.9	0.6	0.5	0.5	0.7	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: 51TP12DN5EXL EAN: 4058352241554	LP number 58523_16
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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	23.2	24.6	23.5	24.9	25.3	19.0	20.5	19.4	20.8	21.1
	3H	23.8	25.0	24.1	25.4	25.7	19.4	20.7	19.8	21.1	21.4
	4H	24.1	25.3	24.5	25.6	26.0	19.6	20.8	20.0	21.2	21.6
	6H	24.5	25.6	24.9	25.9	26.3	19.8	20.9	20.2	21.3	21.7
	8H	24.8	25.7	25.2	26.1	26.5	19.8	20.9	20.3	21.3	21.7
	12H	25.0	25.9	25.5	26.3	26.7	19.9	20.9	20.3	21.3	21.7
4H	2H	23.2	24.4	23.6	24.8	25.2	19.7	20.9	20.1	21.2	21.6
	3H	23.9	25.0	24.4	25.4	25.8	20.2	21.2	20.7	21.6	22.0
	4H	24.4	25.3	24.8	25.7	26.1	20.5	21.4	20.9	21.8	22.2
	6H	25.0	25.7	25.4	26.2	26.6	20.7	21.5	21.2	21.9	22.4
	8H	25.3	26.0	25.8	26.4	26.9	20.8	21.5	21.3	22.0	22.4
	12H	25.7	26.2	26.1	26.7	27.2	20.9	21.5	21.3	22.0	22.5
8H	4H	24.4	25.1	24.9	25.6	26.1	20.8	21.5	21.3	21.9	22.4
	6H	25.1	25.7	25.6	26.1	26.6	21.1	21.7	21.6	22.2	22.7
	8H	25.5	26.0	26.0	26.5	27.0	21.3	21.8	21.8	22.3	22.8
	12H	26.0	26.4	26.5	26.9	27.4	21.4	21.8	21.9	22.3	22.9
12H	4H	24.4	25.0	24.9	25.5	26.0	20.9	21.5	21.4	21.9	22.4
	6H	25.1	25.6	25.6	26.1	26.6	21.3	21.7	21.8	22.2	22.8
	8H	25.5	25.9	26.0	26.4	27.0	21.4	21.9	22.0	22.4	22.9

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°		35787.0	37293.5	38814.0	32737.8	22384.7	16659.3	15534.7	
50°		26682.4	27744.2	29012.8	24075.8	16314.3	12606.1	12107.4	
55°		20447.7	21096.0	21776.8	17749.9	12290.8	10103.9	10120.1	
60°		16130.3	16397.7	16489.5	13414.1	9752.6	8496.5	8809.3	
65°		13580.8	13443.6	12851.0	10536.0	8188.5	7420.9	7853.9	
70°		12338.4	11806.6	10440.7	8660.1	7196.1	6608.1	7097.7	
75°		12006.8	11084.7	9049.3	7443.4	6460.7	5890.3	6372.8	
80°		12285.6	11036.4	8488.6	6720.3	5899.4	5310.5	5639.7	
85°		13104.3	11676.3	8671.5	6670.8	5733.4	4937.2	5074.5	

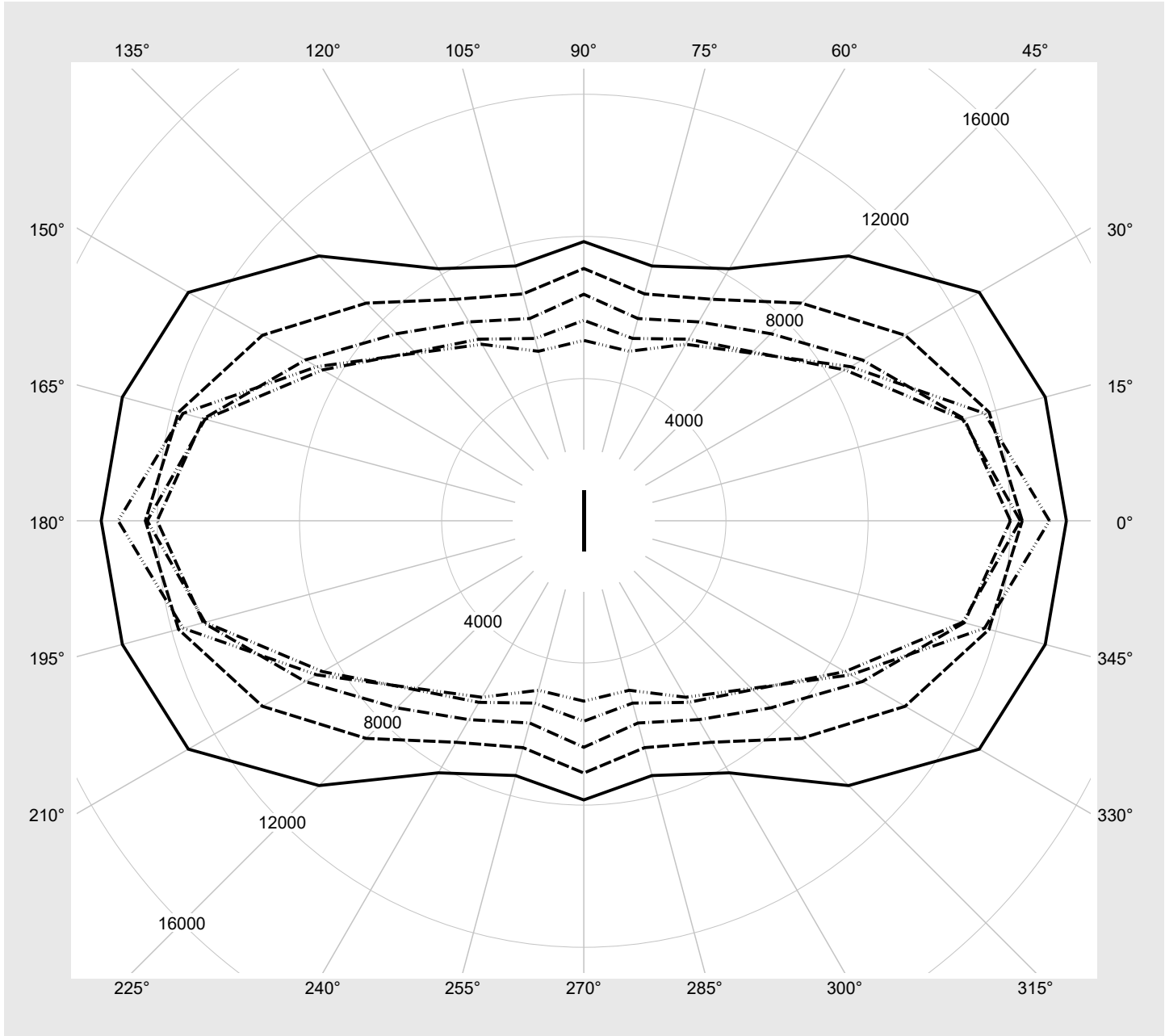
Photometric test report

Family Licross® Protected	Order number: 51TP12DN5EXL EAN: 4058352241554	LP number 58523_16
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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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siteco



Photometric test report

Family Licross® Protected	Order number: 51TP12DN5EXL EAN: 4058352241554	LP number 58523_16
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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	14100	86.1
95	240	252	13397	81.3
90	226	250	12692	76.6
85	212	248	11987	72.0
80	199	245	11282	67.3
75	186	243	10577	62.9
70	172	240	9871	58.5
65	159	237	9166	54.1
60	146	234	8461	49.8
55	134	231	7756	45.6
50	121	227	7051	41.5
45	109	223	6346	37.4
40	96	219	5641	33.4
35	84	214	4936	29.5
30	72	208	4231	25.6
25	60	201	3526	21.7
20	48	193	2820	18.0
15	36	183	2115	14.1
10	24	169	1410	10.3
5	12	144	705	6.8