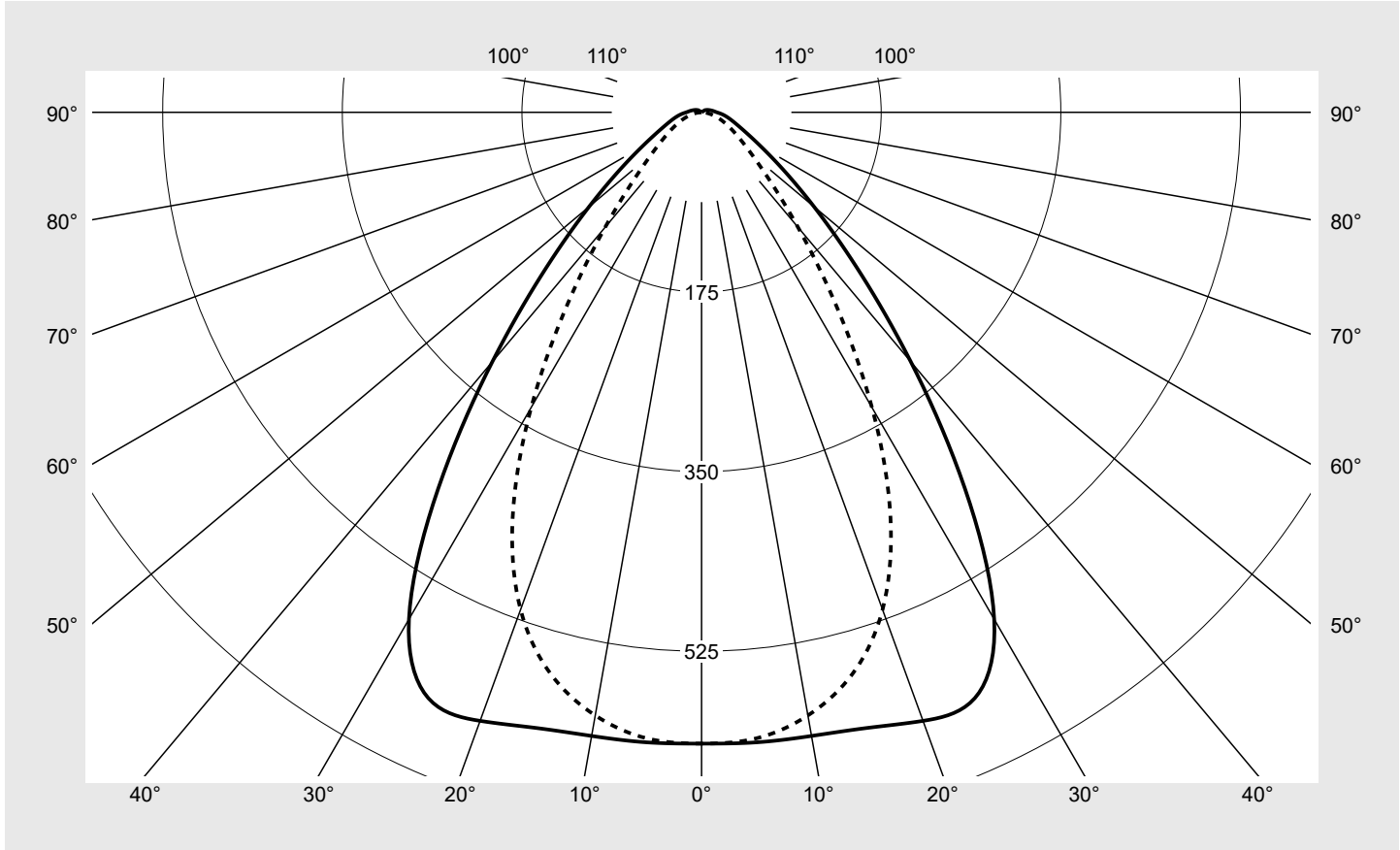


Photometric test report

Family Licross® 21 Protected	Order number: 52TP12DN4A5G EAN: 4058352903902	LP number 58524_229
Version	prismatic cover, frosted, wide distribution	serial documentation 03.08.2023
Lamps	LED 4000 K CRI ≥ 80	
Controlgear	ECG-DALI	
Rated values	Net luminous flux = 10700 lm Power consumption = 62.0 W Luminous efficacy = 172.6 lm/W	



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 631 cd/klm**



Classifications	
DIN 5040	A 5 1
CIE	N1=73 N2=92 N3=98 N4=99 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	98.6%
ϕ_o	1.4%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Licross® 21 Protected	Order number: 52TP12DN4A5G EAN: 4058352903902	LP number 58524_229
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°	615.0	615.0	615.0	615.0	615.0	615.0	615.0	3.7	3.7
5°	616.1	614.1	609.7	611.1	612.9	611.9	612.2	29.3	32.9
10°	616.9	615.1	606.4	602.8	600.3	597.0	596.6	57.6	90.5
15°	620.9	617.8	600.9	587.5	576.7	568.6	566.8	83.8	174.3
20°	630.8	623.5	591.7	561.2	536.7	520.1	515.5	106.4	280.7
25°	629.8	620.7	576.3	523.2	476.9	445.6	435.5	122.6	403.3
30°	570.2	568.9	534.3	469.6	398.0	348.4	331.9	126.5	529.9
35°	447.2	456.9	450.2	394.1	307.5	246.5	227.0	114.9	644.8
40°	317.0	331.0	344.1	303.2	220.2	163.1	146.0	93.6	738.3
45°	213.9	226.3	244.1	214.7	147.7	105.6	94.0	70.6	808.9
50°	143.1	152.0	166.9	144.8	97.7	70.8	64.1	51.5	860.4
55°	96.6	102.1	111.9	95.1	64.8	49.7	46.3	37.0	897.4
60°	67.0	69.6	74.2	63.4	44.8	36.0	34.5	26.8	924.2
65°	49.0	49.5	50.0	42.8	32.0	26.6	25.7	19.7	943.9
70°	37.9	37.0	34.4	29.4	23.3	19.5	18.8	14.8	958.7
75°	30.5	28.7	24.6	20.4	16.6	13.6	12.7	11.1	969.8
80°	24.8	22.7	18.1	14.1	11.2	8.8	7.6	8.2	978.0
85°	19.7	17.8	13.4	9.8	7.1	4.8	3.4	5.9	983.8
90°	14.9	13.4	9.7	6.4	4.0	1.9	0.4	3.9	987.8
95°	12.2	11.1	8.2	5.4	3.1	1.2	0.3	3.2	991.0
100°	10.0	9.2	6.9	4.5	2.4	0.7	0.3	2.6	993.6
105°	8.2	7.6	5.7	3.6	1.7	0.4	0.3	2.1	995.6
110°	6.8	6.2	4.6	2.7	1.1	0.3	0.3	1.6	997.2
115°	5.5	5.0	3.7	2.0	0.7	0.4	0.4	1.2	998.4
120°	4.3	3.8	2.7	1.4	0.6	0.5	0.5	0.9	999.3
125°	3.1	2.7	1.8	0.9	0.6	0.6	0.6	0.6	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® 21 Protected	Order number: 52TP12DN4A5G EAN: 4058352903902	LP number 58524_229
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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	21.5	22.9	21.9	23.2	23.6	18.2	19.7	18.6	20.0	20.3
	3H	21.9	23.2	22.3	23.5	23.9	18.6	19.9	19.0	20.2	20.6
	4H	22.2	23.3	22.6	23.7	24.0	18.8	20.0	19.1	20.3	20.7
	6H	22.5	23.5	22.9	23.9	24.3	18.9	20.0	19.3	20.4	20.7
	8H	22.7	23.6	23.1	24.0	24.4	19.0	20.0	19.4	20.4	20.8
	12H	22.9	23.7	23.3	24.1	24.5	19.0	19.9	19.4	20.3	20.7
4H	2H	21.6	22.8	22.0	23.1	23.5	18.8	19.9	19.2	20.3	20.7
	3H	22.1	23.1	22.5	23.5	23.9	19.3	20.2	19.7	20.6	21.0
	4H	22.4	23.3	22.9	23.7	24.2	19.5	20.4	19.9	20.8	21.2
	6H	22.9	23.6	23.3	24.0	24.5	19.7	20.4	20.1	20.9	21.3
	8H	23.1	23.8	23.6	24.2	24.7	19.7	20.4	20.2	20.9	21.4
	12H	23.4	23.9	23.9	24.4	24.9	19.8	20.4	20.3	20.9	21.4
8H	4H	22.5	23.2	22.9	23.6	24.1	19.7	20.4	20.2	20.8	21.3
	6H	23.0	23.5	23.4	24.0	24.5	20.0	20.5	20.5	21.0	21.5
	8H	23.3	23.8	23.8	24.3	24.8	20.1	20.6	20.6	21.1	21.6
	12H	23.7	24.1	24.2	24.6	25.1	20.2	20.6	20.7	21.1	21.7
12H	4H	22.5	23.1	22.9	23.5	24.0	19.8	20.3	20.3	20.8	21.3
	6H	23.0	23.5	23.5	23.9	24.5	20.1	20.5	20.6	21.0	21.6
	8H	23.3	23.7	23.8	24.2	24.8	20.2	20.6	20.8	21.1	21.7

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

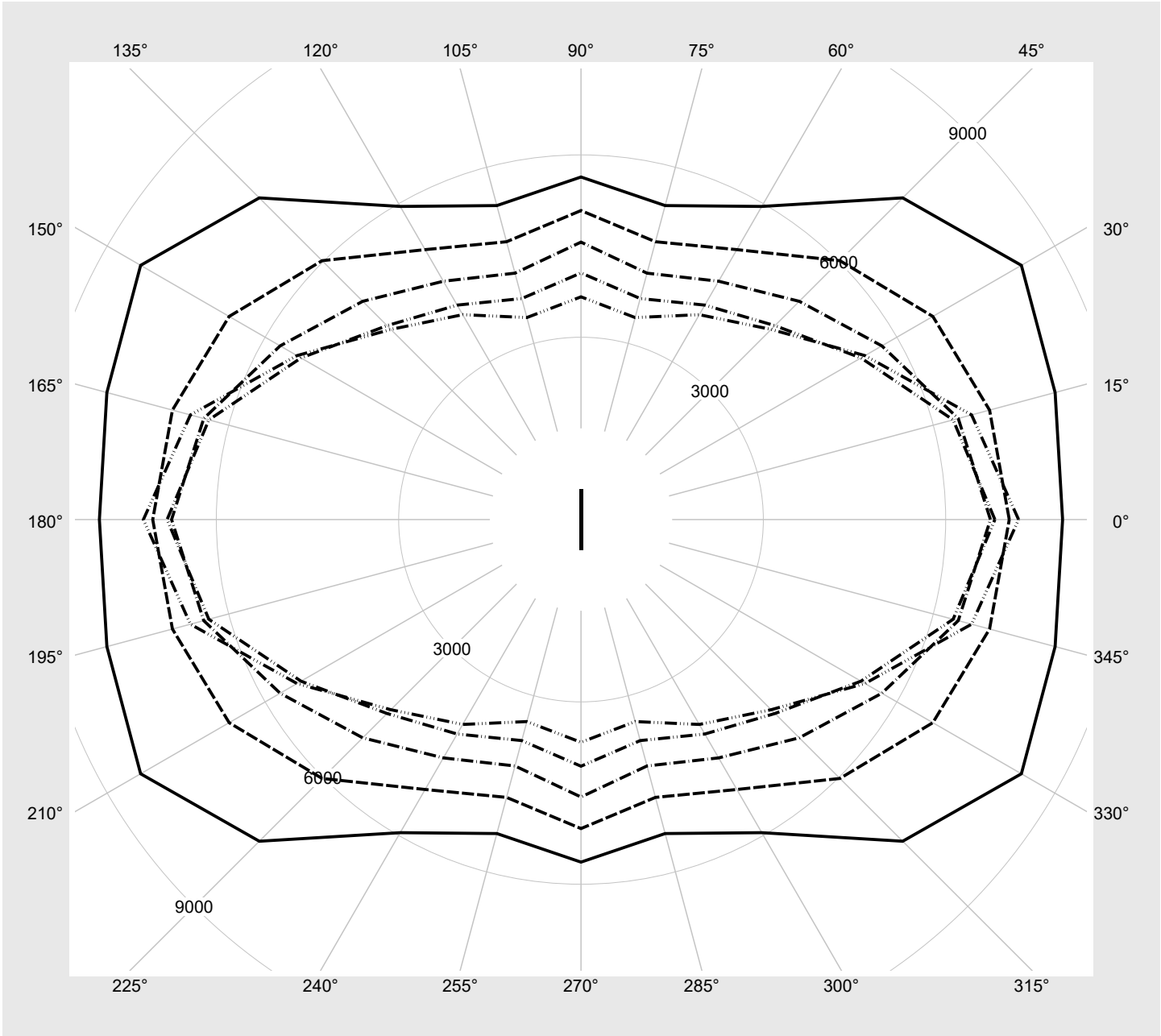
C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
	45°	24036.6	25546.1	27960.5	25173.6	17868.7	13272.2	12326.4	
	50°	17210.8	18390.7	20539.7	18313.4	12816.2	9706.5	9237.2	
	55°	12603.7	13410.2	14988.2	13153.6	9358.6	7559.9	7483.1	
	60°	9643.9	10088.0	11007.4	9757.5	7249.8	6216.2	6388.3	
	65°	7923.8	8075.9	8366.3	7485.3	5949.0	5348.6	5636.3	
	70°	7046.3	6959.3	6684.5	6024.2	5128.5	4732.6	5084.3	
	75°	6736.3	6425.9	5715.8	5078.7	4528.3	4197.3	4565.0	
	80°	6809.9	6338.9	5319.0	4512.7	4074.5	3764.9	4058.3	
	85°	7199.8	6652.9	5395.3	4424.7	3892.8	3441.1	3664.8	

Photometric test report

Family Licross® 21 Protected	Order number: 52TP12DN4A5G EAN: 4058352903902	LP number 58524_229
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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°



Photometric test report

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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	----	----	----	----
100	253	254	10662	61.8
95	240	252	10162	58.6
90	226	250	9618	55.1
85	213	248	9106	51.9
80	199	245	8548	48.5
75	186	243	8024	45.5
70	173	240	7495	42.3
65	160	237	6962	39.2
60	147	234	6424	36.1
55	134	231	5880	33.0
50	121	227	5331	29.9
45	109	223	4821	27.1
40	96	218	4261	24.1
35	84	213	3740	21.4
30	72	208	3214	18.6
25	60	201	2684	15.9
20	48	193	2151	13.0
15	36	182	1616	10.2
10	24	168	1076	7.5
5	12	142	532	4.9
2	4	102	166	3.1