

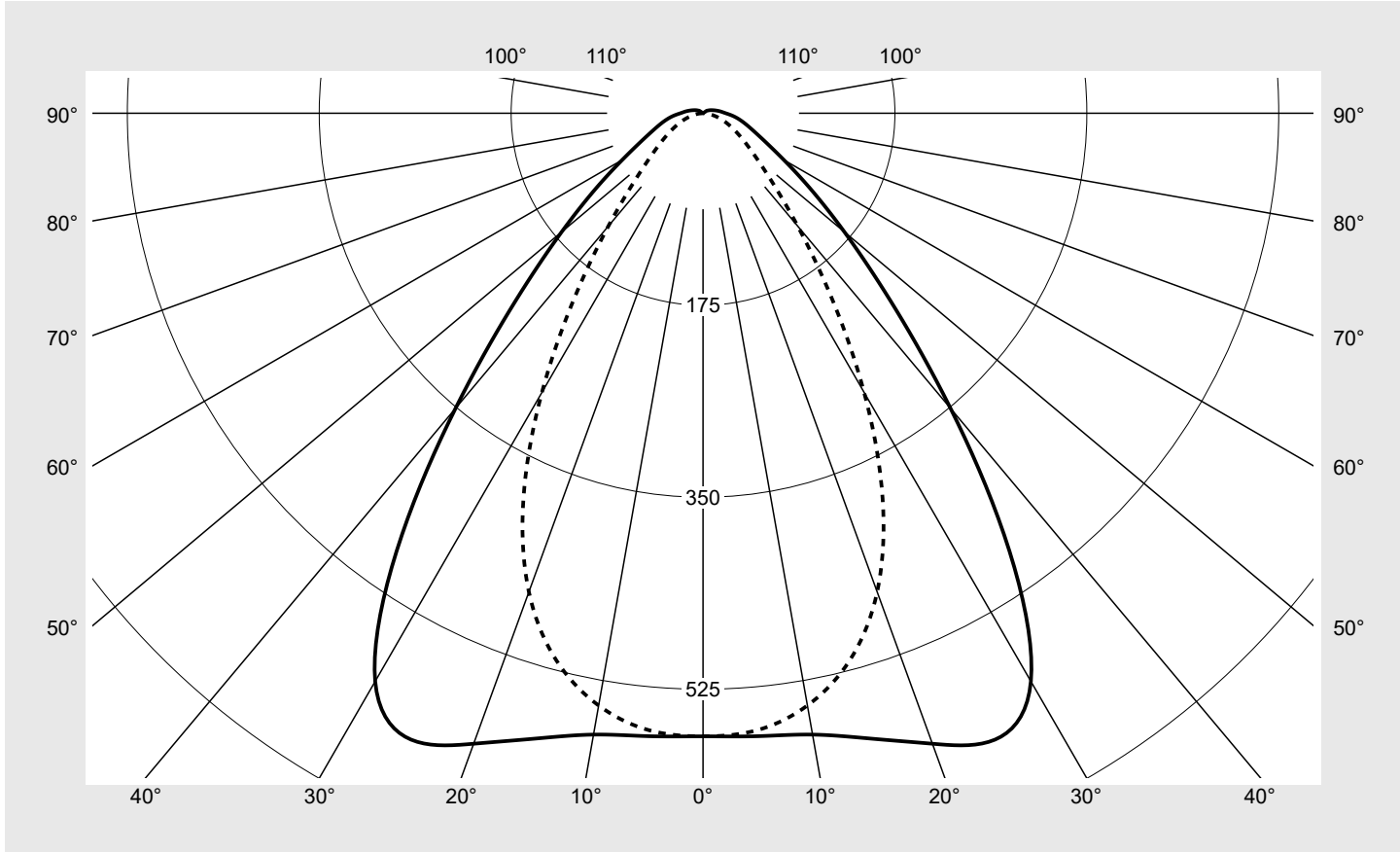


Photometric test report

Family Licross® 21 Protected	Order number: 52TD12DN4E5M EAN: 4058352869802	LP number 58523_165
	Version prismatic cover, frosted, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI	serial documentation 03.08.2023
	Rated values Net luminous flux = 14690 lm Power consumption = 84.9 W Luminous efficacy = 173 lm/W	

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® 21 Protected	Order number: 52TD12DN4E5M EAN: 4058352869802	LP number 58523_165
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® 21 Protected	Order number: 52TD12DN4E5M EAN: 4058352869802	LP number 58523_165
--	--	-------------------------------

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	23.3	24.8	23.7	25.1	25.4	19.1	20.6	19.5	20.9	21.2
	3H	23.9	25.2	24.3	25.5	25.9	19.6	20.9	19.9	21.2	21.6
	4H	24.3	25.4	24.6	25.8	26.2	19.8	21.0	20.1	21.3	21.7
	6H	24.7	25.7	25.1	26.1	26.5	19.9	21.0	20.3	21.4	21.8
	8H	25.0	25.9	25.4	26.3	26.7	20.0	21.0	20.4	21.4	21.8
	12H	25.2	26.1	25.6	26.4	26.9	20.0	21.0	20.5	21.4	21.8
4H	2H	23.3	24.6	23.7	24.9	25.3	19.8	21.0	20.2	21.3	21.7
	3H	24.1	25.1	24.5	25.5	25.9	20.4	21.4	20.8	21.8	22.2
	4H	24.5	25.4	25.0	25.9	26.3	20.6	21.5	21.1	21.9	22.4
	6H	25.1	25.9	25.6	26.3	26.8	20.8	21.6	21.3	22.1	22.5
	8H	25.4	26.1	25.9	26.6	27.0	20.9	21.7	21.4	22.1	22.6
	12H	25.8	26.4	26.3	26.8	27.3	21.0	21.6	21.5	22.1	22.6
8H	4H	24.5	25.3	25.0	25.7	26.2	20.9	21.6	21.4	22.1	22.6
	6H	25.2	25.8	25.7	26.3	26.8	21.3	21.8	21.8	22.3	22.8
	8H	25.6	26.1	26.1	26.6	27.1	21.4	21.9	21.9	22.4	22.9
	12H	26.1	26.5	26.6	27.0	27.6	21.5	22.0	22.0	22.5	23.0
12H	4H	24.5	25.2	25.0	25.6	26.1	21.1	21.6	21.5	22.1	22.6
	6H	25.2	25.7	25.7	26.2	26.7	21.4	21.9	21.9	22.4	22.9
	8H	25.6	26.1	26.2	26.6	27.1	21.6	22.0	22.1	22.5	23.0

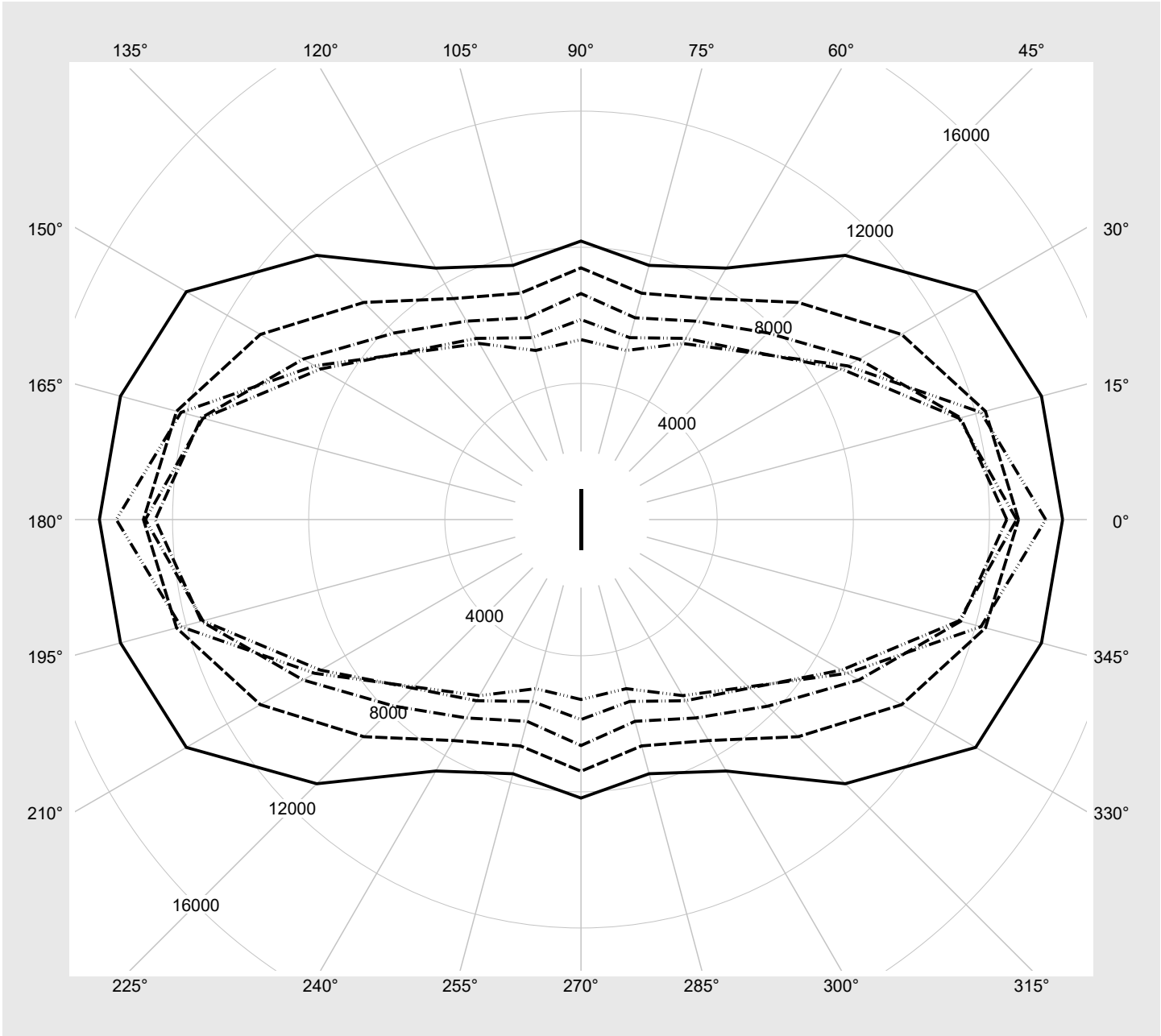
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1480	H(C0) = 13	H(C180) = 13
			B = 78	H(C90) = 0	H(C270) = 0

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°		37284.5	38854.0	40438.1	34107.6	23321.4	17356.4	16184.7	
50°		27798.9	28905.2	30226.8	25083.2	16996.9	13133.6	12614.0	
55°		21303.3	21978.8	22688.0	18492.7	12805.1	10526.7	10543.6	
60°		16805.3	17083.8	17179.5	13975.4	10160.7	8852.0	9177.9	
65°		14149.1	14006.1	13388.8	10976.9	8531.1	7731.4	8182.5	
70°		12854.7	12300.6	10877.6	9022.5	7497.2	6884.6	7394.7	
75°		12509.2	11548.6	9428.0	7754.9	6731.0	6136.8	6639.4	
80°		12799.7	11498.2	8843.8	7001.5	6146.3	5532.7	5875.7	
85°		13652.6	12164.8	9034.3	6949.9	5973.3	5143.8	5286.9	

Photometric test report

Family Licross® 21 Protected	Order number: 52TD12DN4E5M EAN: 4058352869802	LP number 58523_165
--	--	--------------------------------------

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



Photometric test report

Family Licross® 21 Protected	Order number: 52TD12DN4E5M EAN: 4058352869802	LP number 58523_165
--	--	--------------------------------------

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	14690	84.9
95	240	252	13945	80.1
90	227	250	13245	75.8
85	213	248	12484	71.1
80	200	245	11771	66.8
75	186	243	10993	62.2
70	173	240	10264	58.0
65	160	237	9527	53.7
60	148	234	8841	49.8
55	135	231	8094	45.5
50	122	227	7340	41.4
45	110	223	6637	37.5
40	97	219	5869	33.3
35	85	214	5155	29.5
30	72	208	4378	25.5
25	60	201	3654	21.6
20	48	193	2925	17.9
15	36	182	2191	14.1
10	24	168	1457	10.3
5	12	142	715	6.6
1	4	102	217	4.3