

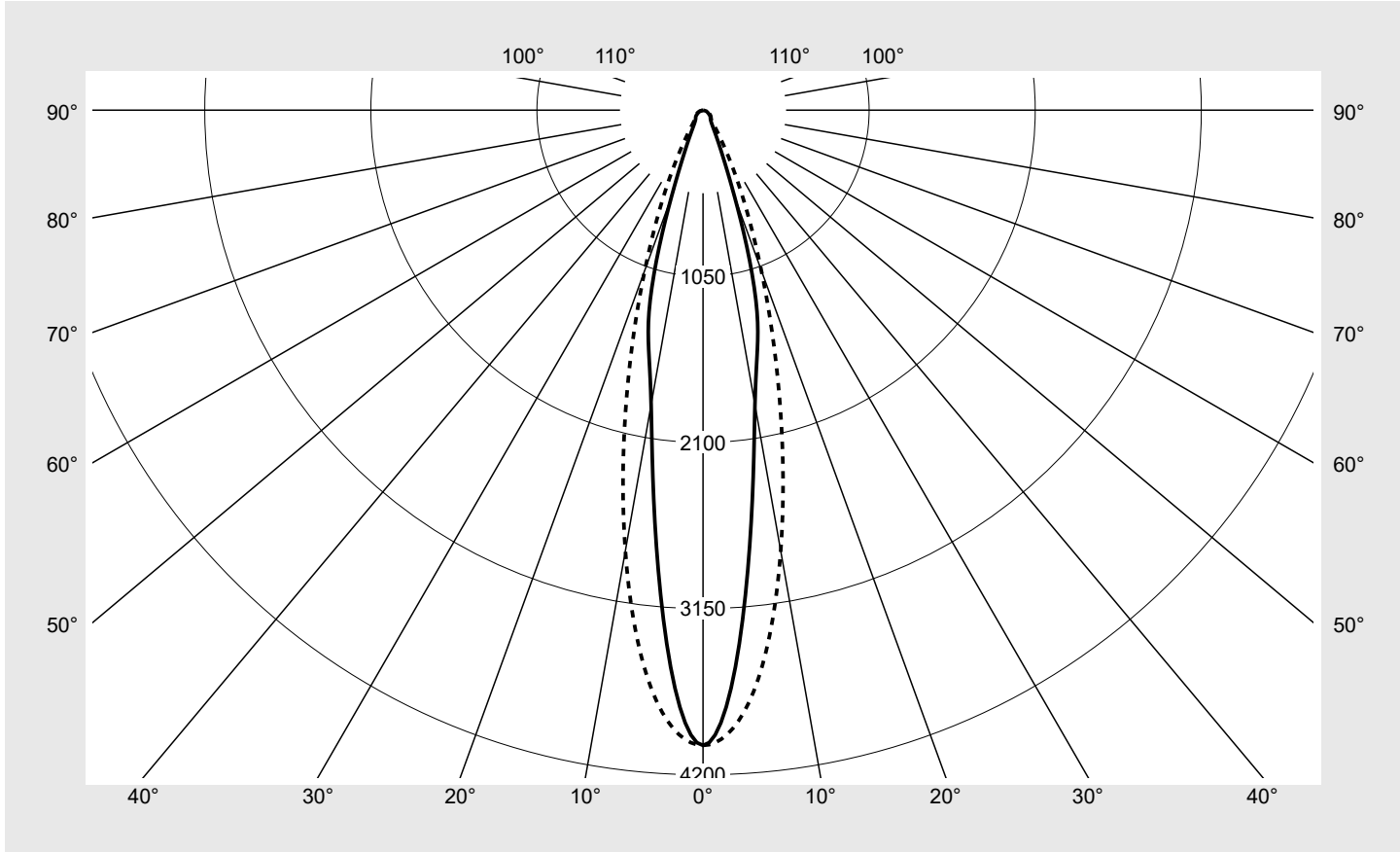


Photometric test report

Family Licross® 21 Protected	Order number: 52TP13CN4C5S EAN: 4058352904084	LP number 58527_58
	Version prismatic cover, frosted, extremely narrow distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-Multilumen CLOi Rated values Net luminous flux = 12680 lm Power consumption = 68.9 W Luminous efficacy = 184 lm/W	serial documentation 17.08.2023
		

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	14.3	15.4	14.7	15.7	16.0	14.9	16.0	15.2	16.3	16.6
	3H	15.9	16.7	16.3	17.0	17.4	16.4	17.1	16.8	17.5	17.8
	4H	16.3	17.2	16.7	17.6	18.0	16.5	17.4	16.9	17.8	18.2
	6H	16.8	17.8	17.2	18.1	18.5	16.6	17.6	17.0	17.9	18.3
	8H	17.4	18.1	17.8	18.4	18.8	16.7	17.6	17.2	18.0	18.4
	12H	17.4	18.2	17.8	18.6	19.1	16.7	17.6	17.2	18.0	18.4
4H	2H	14.6	15.4	15.0	15.8	16.2	15.0	15.9	15.4	16.3	16.6
	3H	16.1	16.8	16.5	17.2	17.6	16.3	17.1	16.8	17.5	17.9
	4H	16.8	17.5	17.3	17.9	18.4	16.8	17.5	17.3	17.9	18.4
	6H	17.4	18.2	17.8	18.6	19.1	16.9	17.7	17.4	18.2	18.6
	8H	18.0	18.5	18.5	19.0	19.5	17.3	17.8	17.8	18.3	18.7
	12H	18.2	18.8	18.6	19.3	19.8	17.1	17.8	17.6	18.2	18.7
8H	4H	17.0	17.5	17.5	17.9	18.4	17.0	17.5	17.5	18.0	18.4
	6H	18.2	18.4	18.7	18.8	19.4	17.5	17.9	18.0	18.4	18.9
	8H	18.4	18.7	18.9	19.2	19.7	17.6	18.0	18.1	18.5	19.0
	12H	18.6	19.1	19.1	19.6	20.1	17.4	18.0	17.9	18.5	19.0
12H	4H	16.7	17.4	17.2	17.9	18.3	16.8	17.4	17.3	17.9	18.4
	6H	17.7	18.2	18.2	18.7	19.2	17.3	17.8	17.8	18.3	18.8
	8H	18.2	18.7	18.7	19.2	19.7	17.4	18.0	18.0	18.5	19.0

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

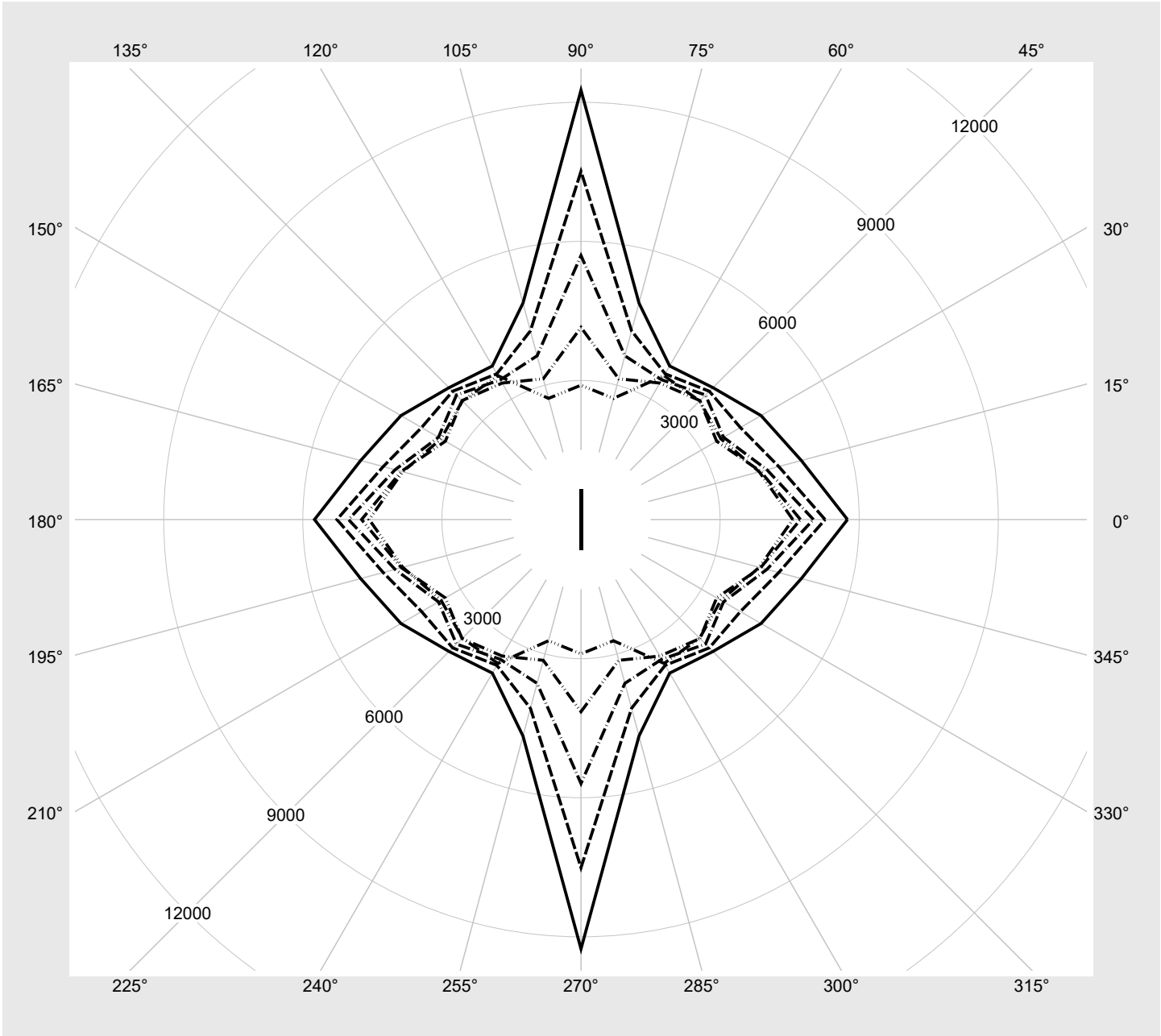
C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		8741.0	7782.2	6098.1	5488.7	6129.2	8212.2	11124.8	
50°		8275.9	7249.6	5596.3	4853.5	5093.7	7218.6	11106.6	
55°		7293.0	6488.5	5256.2	4453.7	4498.4	6329.6	10947.9	
60°		6445.7	5662.1	4889.2	4177.3	4093.6	5533.6	10425.4	
65°		5747.9	4920.3	4484.5	4024.1	3824.6	4833.8	9260.9	
70°		5264.3	4416.1	3969.8	3913.9	3630.0	4214.7	7508.5	
75°		5013.9	4151.4	3549.8	3798.8	3480.6	3656.9	5694.1	
80°		4733.0	4011.5	3378.8	3628.4	3399.8	3143.3	4144.4	
85°		4568.7	3980.4	3484.4	3618.6	3583.6	2706.2	2897.4	

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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



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Multilumen Table	environmental temperature: 25°C	siteco
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]	Power consumption	Power consumption
	1	2	3			end of lifetime [W]	average [W]
1	A	C	E	12680	68.9	83.2	76.1
2	A	C	F	12239	66.3	80.2	73.2
3	A	D	E	11210	60.3	72.4	66.4
4	A	D	F	10150	54.3	65.0	59.6
5	B	C	E	9164	48.8	58.1	53.4
6	B	C	F	8166	43.3	51.8	47.6
7	B	D	E	7159	37.9	45.0	41.4
8	B	D	F	6141	32.5	38.3	35.4