Photometric test report

Family
Licross® 21 Protected

Order number: 52TP11MN4FXS
EAN: 4058352903803

Version	prismatic cover, frosted, narrow distribution
Lamps	LED 4000 K | CRI ≥ 80
Controlgear	ECG Multilumen
Rated values	Net luminous flux = 15020 lm Power consumption = 83.2 W Luminous efficacy = 180.5 lm/W

LP number
58525_181

serial documentation
24.08.2023

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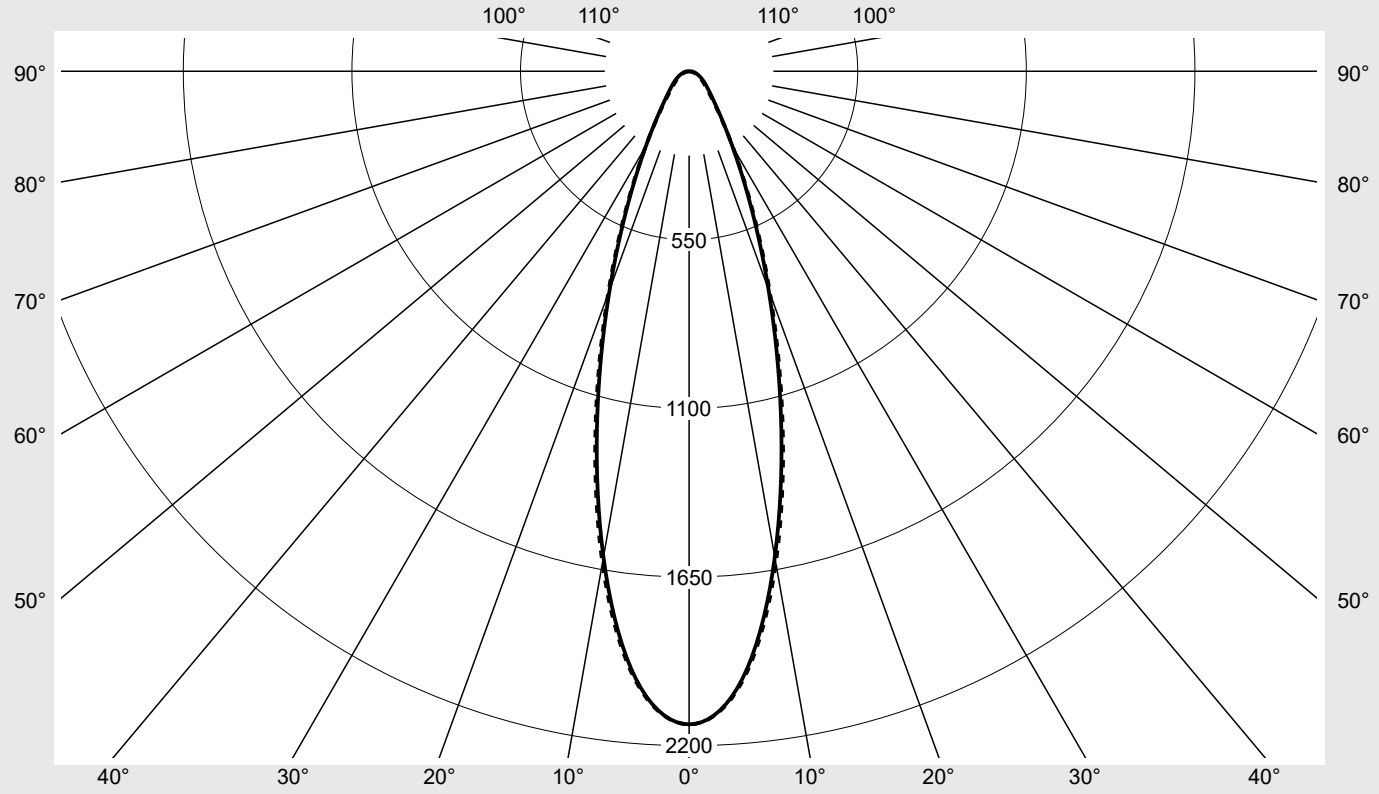
Luminous intensity in cd/klm

C180-0 C270-90

Imax: 2130 cd/klm



Classifications

DIN 5040	A 7 1
CIE	N1=84 N2=94 N3=98 N4=99 N5=100

Luminaire light output ratios

ηLB	100.0%
ϕ_u	99.1%
ϕ_o	0.9%

Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities

Maximum luminous intensity

C-planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm							Luminous flux in lm/klm	
0°	2130.5	2130.5	2130.5	2130.5	2130.5	2130.5	2130.5	**12.7**	**12.7**
5°	1990.0	1982.4	1972.8	1980.9	1991.5	1994.0	1997.3	**94.9**	**107.6**
10°	1609.4	1602.7	1594.9	1604.0	1616.7	1623.6	1628.9	**153.3**	**260.9**
15°	1156.5	1152.7	1146.1	1151.7	1161.7	1170.4	1176.7	**164.3**	**425.2**
20°	757.1	754.5	751.0	754.8	760.5	766.7	772.3	**142.2**	**567.4**
25°	464.1	463.3	461.4	464.7	468.5	471.4	475.4	**108.1**	**675.5**
30°	281.8	280.0	276.3	277.8	280.6	282.2	284.6	**76.7**	**752.2**
35°	178.8	175.8	169.5	168.1	169.9	172.0	174.0	**54.1**	**806.3**
40°	123.8	119.7	111.6	107.8	108.9	112.2	115.0	**39.9**	**846.2**
45°	92.5	87.9	79.0	74.1	74.5	78.8	82.8	**31.1**	**877.3**
50°	72.9	68.3	60.1	54.9	54.7	59.1	63.7	**25.6**	**902.9**
55°	58.5	54.5	47.8	42.9	42.0	45.8	50.2	**21.5**	**924.4**
60°	46.6	43.5	38.6	34.6	32.9	35.6	39.1	**18.0**	**942.5**
65°	36.7	34.5	31.1	28.0	26.1	27.3	29.5	**14.9**	**957.4**
70°	28.5	27.0	24.6	22.5	20.4	20.1	21.2	**12.0**	**969.4**
75°	21.8	20.7	19.0	17.5	15.4	14.0	14.0	**9.2**	**978.6**
80°	16.2	15.4	14.3	12.9	10.9	8.9	8.1	**6.7**	**985.3**
85°	11.7	11.2	10.3	9.1	7.1	4.7	3.5	**4.6**	**989.8**
90°	8.1	7.7	6.9	5.8	3.9	1.7	0.3	**2.8**	**992.6**
95°	6.9	6.6	5.8	4.7	3.0	1.1	0.2	**2.3**	**994.8**
100°	6.0	5.6	4.9	3.8	2.2	0.6	0.2	**1.8**	**996.7**
105°	5.1	4.8	4.0	2.9	1.5	0.3	0.2	**1.4**	**998.1**
110°	4.3	4.0	3.2	2.2	0.9	0.2	0.2	**1.1**	**999.2**
115°	3.6	3.2	2.5	1.6	0.5	0.3	0.3	**0.8**	**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

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	17.5	18.7	17.8	19.0	19.3	17.1	18.3	17.5	18.6	18.9
	3H	18.6	19.6	18.9	20.0	20.3	18.0	19.1	18.4	19.4	19.8
	4H	19.1	20.0	19.5	20.4	20.8	18.4	19.4	18.8	19.7	20.1
	6H	19.5	20.4	20.0	20.8	21.2	18.7	19.6	19.1	19.9	20.3
	8H	19.8	20.6	20.3	21.0	21.4	18.9	19.6	19.3	20.0	20.4
	12H	20.0	20.7	20.5	21.1	21.5	18.9	19.6	19.4	20.0	20.4
4H	2H	17.7	18.7	18.1	19.1	19.4	17.4	18.4	17.8	18.7	19.1
	3H	19.0	19.8	19.4	20.2	20.6	18.5	19.3	18.9	19.7	20.1
	4H	19.6	20.4	20.1	20.8	21.2	19.0	19.7	19.4	20.1	20.6
	6H	20.3	20.9	20.7	21.3	21.8	19.4	20.0	19.8	20.4	20.9
	8H	20.6	21.1	21.0	21.6	22.0	19.5	20.1	20.0	20.5	21.0
	12H	20.9	21.3	21.4	21.8	22.3	19.6	20.1	20.1	20.6	21.1
8H	4H	19.8	20.4	20.3	20.8	21.3	19.2	19.8	19.7	20.2	20.7
	6H	20.6	21.0	21.1	21.5	22.0	19.7	20.2	20.2	20.7	21.2
	8H	21.0	21.4	21.5	21.9	22.4	19.9	20.3	20.4	20.8	21.4
	12H	21.4	21.7	21.9	22.2	22.7	20.1	20.4	20.6	20.9	21.5
12H	4H	19.8	20.3	20.3	20.8	21.3	19.3	19.7	19.8	20.2	20.7
	6H	20.6	21.0	21.2	21.5	22.0	19.8	20.2	20.4	20.7	21.2
	8H	21.1	21.4	21.6	21.9	22.4	20.1	20.4	20.6	20.9	21.5

Luminance table

Max. for $\gamma >= 65°$

Photometric dimensions in mm: L = 1480 B = 78 H(C0) = 13 H(C90) = 0 H(C180) = 13 H(C270) = 0

C-planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
γ	Luminance in cd/m²						
45°	14593.5	13924.1	12705.8	12199.4	12658.3	13903.5	15226.6
50°	12312.1	11602.1	10386.5	9750.5	10063.6	11384.1	12885.2
55°	10725.6	10058.3	8988.6	8332.9	8508.4	9793.7	11389.5
60°	9419.6	8859.8	8035.4	7467.4	7491.4	8625.7	10174.7
65°	8325.5	7896.5	7320.5	6891.0	6822.8	7681.3	9072.0
70°	7431.1	7113.8	6702.9	6456.3	6329.3	6850.2	8055.4
75°	6741.9	6492.0	6203.4	6097.5	5907.9	6046.9	7044.5
80°	6250.1	6047.5	5886.4	5798.4	5529.3	5330.8	6034.7
85°	6028.4	5869.2	5800.1	5808.5	5401.0	4743.4	5213.0

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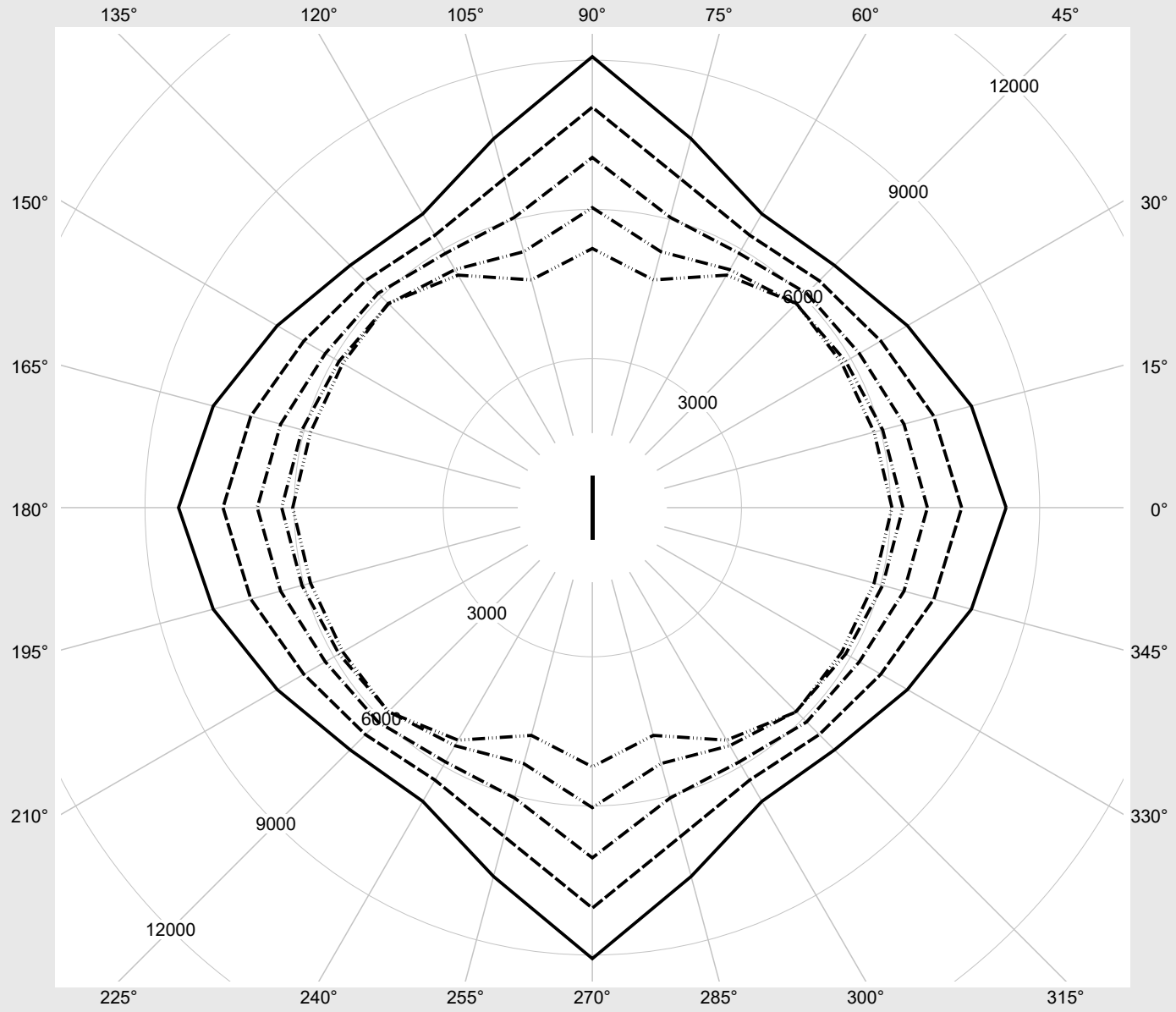
Luminance values in cd/m²

γ 65° γ 70° γ 75° γ 80° γ 85°



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Multilumen Table

environmental temperature: 25°C

DIP-Step	Switch Setting 1	2	3	Luminous flux [lm]	Power consumption [W]
1	A	C	E	15020	83.2
2	A	C	F	14100	78.5
3	A	D	E	13110	72.4
4	A	D	F	12100	66.3
5	B	C	E	11080	60.3
6	B	C	F	10040	54.3
7	B	D	E	9060	48.8
8	B	D	F	8080	43.3