Photometric test report

Family
Licross® 21 Recessed

Order number: 52TE1EMN4E5S
EAN: 4058352890257

Version	cover frosted, elliptical narrow distribution
Lamps	LED 4000 K | CRI ≥ 80
Controlgear	ECG Multilumen
Rated values	Net luminous flux = 14710 lm Power consumption = 83.1 W Luminous efficacy = 177 lm/W

LP number
59263_179

serial documentation
24.08.2023

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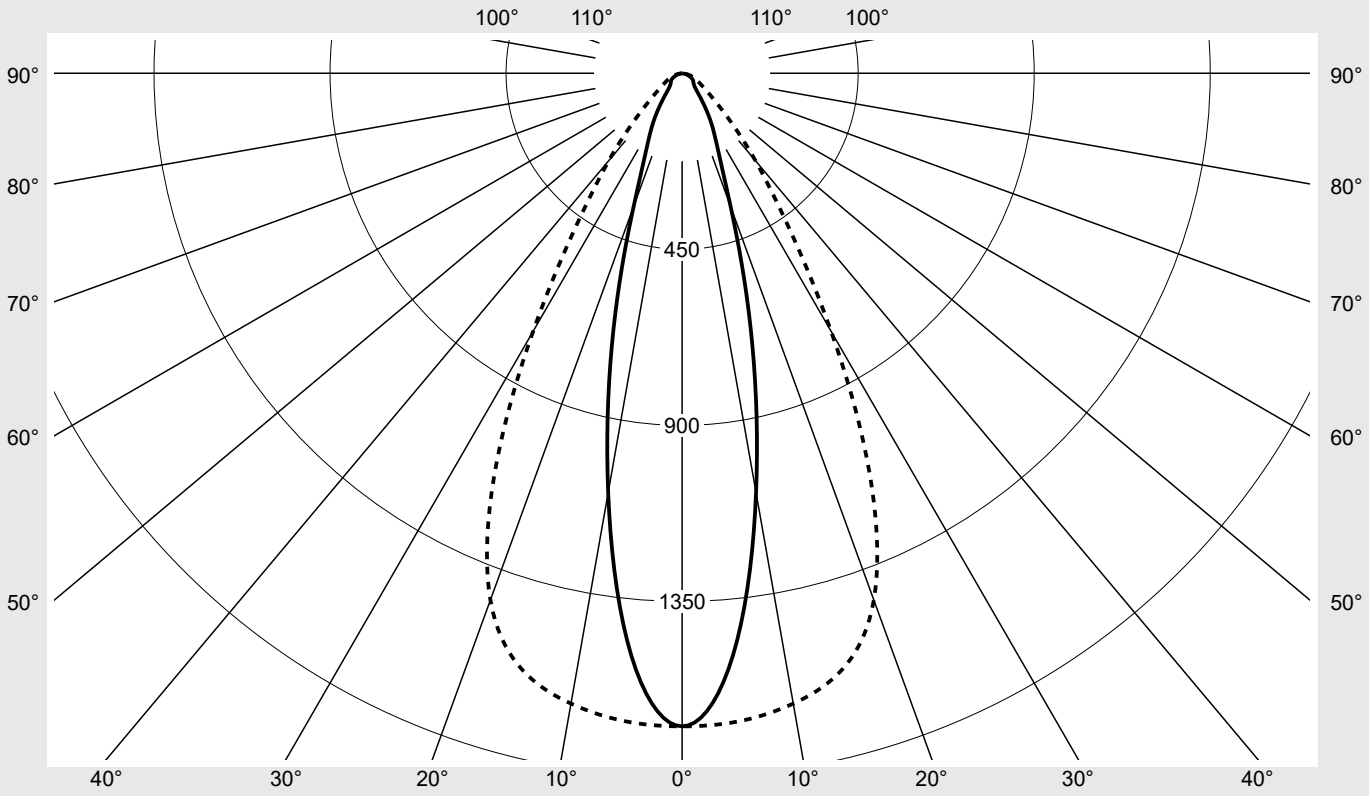
Luminous intensity in cd/klm C180-0 C270-90 **Imax: 1670 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=85 N2=95 N3=99 N4=100 N5=100

Luminaire light output ratios	
ηLB	100.0%
ϕ_u	100.0%
ϕ_o	0.0%

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°	1669.5	1669.5	1669.5	1669.5	1669.5	1669.5	1669.5	10.0	10.0
5°	1493.3	1495.6	1516.6	1565.9	1616.3	1649.8	1662.9	75.0	85.0
10°	1088.5	1106.7	1175.0	1303.4	1460.6	1586.1	1636.2	126.8	211.8
15°	678.3	712.7	825.0	1006.5	1239.9	1474.8	1578.7	151.0	362.9
20°	362.1	388.9	492.0	707.6	980.6	1275.8	1432.9	148.2	511.0
25°	217.8	231.1	285.8	436.7	705.9	972.9	1137.5	127.8	638.8
30°	151.3	158.5	185.3	264.1	455.8	646.3	761.7	99.0	737.8
35°	95.4	107.0	131.3	171.8	268.4	391.1	463.8	70.7	808.5
40°	57.7	64.5	93.9	120.6	157.9	239.7	291.4	50.0	858.5
45°	43.5	45.9	58.2	86.3	99.5	145.4	176.9	35.2	893.7
50°	37.7	39.0	42.8	61.0	68.3	89.3	109.1	26.2	919.9
55°	34.6	35.0	36.7	43.5	50.5	59.6	73.7	20.9	940.8
60°	30.2	31.1	32.8	34.2	38.6	42.0	53.5	17.5	958.3
65°	23.9	25.4	29.1	28.1	30.1	30.8	41.3	14.6	972.8
70°	17.0	18.4	22.5	23.3	23.4	22.7	30.8	11.5	984.3
75°	10.9	12.0	16.2	17.9	17.4	15.7	20.7	8.4	992.7
80°	6.2	6.7	9.0	10.7	11.0	9.3	11.6	5.0	997.7
85°	3.1	3.3	4.2	5.0	4.8	3.9	4.2	2.3	1000.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

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 x	y	View crosswise (C0)					View endwise (C90)				
2H	2H	16.5	17.7	16.8	18.0	18.4	21.5	22.7	21.9	23.0	23.4
	3H	17.7	18.8	18.1	19.1	19.4	22.1	23.1	22.5	23.5	23.8
	4H	18.0	19.1	18.4	19.4	19.8	22.4	23.3	22.8	23.7	24.0
	6H	18.2	19.2	18.7	19.6	20.0	22.6	23.4	23.0	23.8	24.2
	8H	18.4	19.2	18.9	19.6	20.0	22.7	23.5	23.1	23.8	24.3
	12H	18.5	19.3	18.9	19.6	20.1	22.8	23.4	23.2	23.8	24.2
4H	2H	17.3	18.3	17.7	18.6	19.0	21.5	22.5	21.9	22.9	23.2
	3H	18.7	19.6	19.2	20.0	20.4	22.2	23.0	22.6	23.4	23.8
	4H	19.2	20.0	19.7	20.4	20.8	22.6	23.3	23.0	23.7	24.2
	6H	19.5	20.2	20.0	20.6	21.1	22.9	23.5	23.3	23.9	24.4
	8H	19.7	20.2	20.1	20.7	21.2	23.0	23.5	23.5	24.0	24.5
	12H	19.7	20.2	20.2	20.7	21.2	23.1	23.5	23.6	24.0	24.5
8H	4H	19.7	20.3	20.2	20.7	21.2	22.7	23.2	23.1	23.7	24.2
	6H	20.2	20.6	20.7	21.1	21.6	23.1	23.5	23.6	24.0	24.5
	8H	20.3	20.7	20.8	21.2	21.7	23.2	23.6	23.7	24.1	24.6
	12H	20.4	20.8	21.0	21.3	21.8	23.3	23.6	23.8	24.1	24.7
12H	4H	19.8	20.2	20.3	20.7	21.2	22.7	23.2	23.1	23.6	24.1
	6H	20.3	20.7	20.8	21.1	21.7	23.1	23.5	23.6	24.0	24.5
	8H	20.5	20.8	21.0	21.3	21.9	23.2	23.6	23.8	24.1	24.6

Luminance table

Max. for $\gamma >= 65°$

Photometric dimensions in mm: L = 1500, B = 58

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°	10398.9	10969.4	13905.1	20630.4	23800.2	34767.4	42309.2
50°	9927.0	10253.4	11257.4	16054.8	17968.7	23497.6	28707.4
55°	10188.3	10311.8	10824.4	12815.7	14891.5	17576.7	21731.1
60°	10197.6	10532.7	11096.8	11574.2	13050.6	14196.3	18088.9
65°	9573.1	10151.6	11649.1	11245.8	12054.4	12314.0	16528.8
70°	8392.7	9077.9	11112.7	11529.4	11566.0	11205.6	15240.1
75°	7092.6	7845.2	10579.2	11715.2	11376.8	10283.2	13515.6
80°	5992.1	6479.9	8769.1	10376.7	10681.4	9043.7	11314.3
85°	6062.4	6466.0	8227.5	9752.3	9342.9	7554.3	8095.5

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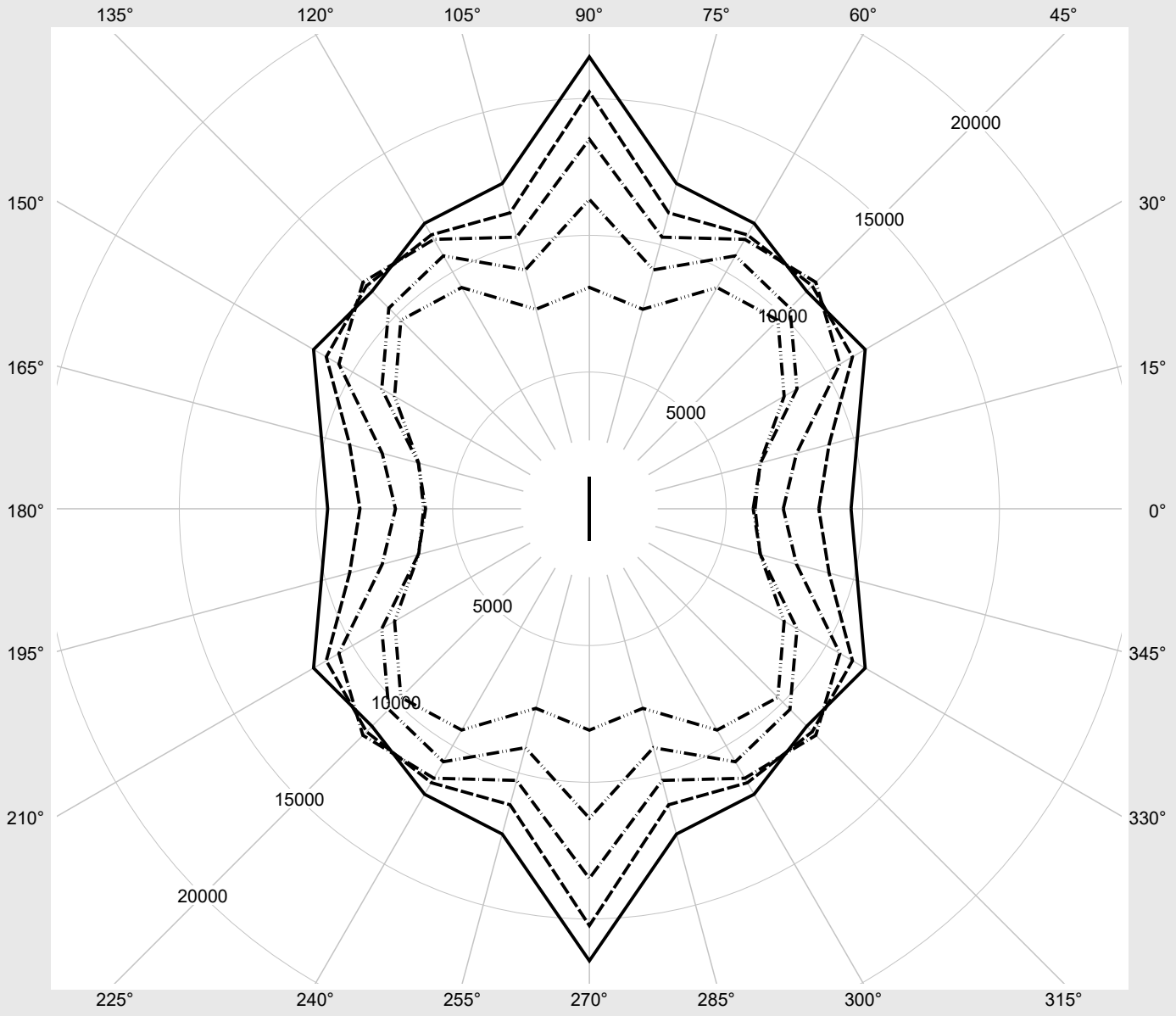
Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°



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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	14710	83.1
2	A	C	F	13820	77.5
3	A	D	E	12770	71.1
4	A	D	F	11850	65.4
5	B	C	E	10840	59.4
6	B	C	F	9880	53.9
7	B	D	E	8850	47.9
8	B	D	F	7870	42.4