



Photometric test report

Family Licross® Protected	Order number: 51TP12DN4EXLD EAN: 4058352418512	LP number 58523_25
	Version prismatic cover, frosted, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Setting DC mode (central or group accumulator) initial emergency light level	serial documentation 26.08.2020
	Rated values Net luminous flux = 2220 lm Power consumption = 14.7 W Luminous efficacy = 151 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

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Table of values for luminous intensities		Maximum luminous intensity
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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

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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	16.7	18.2	17.1	18.5	18.8	12.6	14.0	12.9	14.3	14.7
	3H	17.3	18.6	17.7	19.0	19.3	13.0	14.3	13.4	14.6	15.0
	4H	17.7	18.9	18.1	19.2	19.6	13.2	14.4	13.6	14.8	15.1
	6H	18.1	19.2	18.5	19.5	19.9	13.3	14.5	13.7	14.8	15.2
	8H	18.4	19.3	18.8	19.7	20.1	13.4	14.5	13.8	14.9	15.3
	12H	18.6	19.5	19.1	19.9	20.3	13.5	14.5	13.9	14.8	15.3
4H	2H	16.8	18.0	17.2	18.4	18.7	13.3	14.4	13.6	14.8	15.2
	3H	17.5	18.5	17.9	18.9	19.3	13.8	14.8	14.2	15.2	15.6
	4H	18.0	18.9	18.4	19.3	19.7	14.1	15.0	14.5	15.4	15.8
	6H	18.5	19.3	19.0	19.7	20.2	14.3	15.1	14.7	15.5	16.0
	8H	18.9	19.6	19.3	20.0	20.5	14.4	15.1	14.8	15.5	16.0
	12H	19.2	19.8	19.7	20.3	20.8	14.4	15.1	14.9	15.5	16.0
8H	4H	18.0	18.7	18.4	19.2	19.6	14.4	15.1	14.9	15.5	16.0
	6H	18.6	19.2	19.1	19.7	20.2	14.7	15.3	15.2	15.8	16.3
	8H	19.0	19.6	19.5	20.0	20.6	14.8	15.4	15.3	15.8	16.4
	12H	19.5	20.0	20.1	20.5	21.0	15.0	15.4	15.5	15.9	16.4
12H	4H	18.0	18.6	18.5	19.1	19.6	14.5	15.1	15.0	15.5	16.0
	6H	18.6	19.2	19.1	19.6	20.2	14.9	15.3	15.4	15.8	16.3
	8H	19.1	19.5	19.6	20.0	20.6	15.0	15.4	15.5	15.9	16.5

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°	5634.6	5871.7	6111.1	5154.5	3524.4	2623.0	2445.9	
	50°	4201.1	4368.2	4568.0	3790.7	2568.6	1984.8	1906.3	
	55°	3219.4	3321.5	3428.7	2794.7	1935.2	1590.8	1593.4	
	60°	2539.7	2581.8	2596.2	2112.0	1535.5	1337.7	1387.0	
	65°	2138.3	2116.7	2023.4	1658.9	1289.2	1168.4	1236.6	
	70°	1942.6	1858.9	1643.9	1363.5	1133.0	1040.4	1117.5	
	75°	1890.4	1745.3	1424.8	1171.9	1017.2	927.4	1003.4	
	80°	1934.3	1737.7	1336.5	1058.1	928.8	836.1	888.0	
	85°	2063.2	1838.4	1365.3	1050.3	902.7	777.3	799.0	

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

