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Indoor Distribution Test Report

Relevant Standards
IES LM-79-2008
ANSI C82.77-2002

Prepared For
Electro-Luminix Lighting Corp

Lauren Davis
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Richmond, VA 23230-4522
United States

Catalog Number

LT-200-EBG

Order Number

10934103

Test Number

1148102

Test Date

2015-09-09

Prepared By

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Approved By

Jeffrey Lockner, Project Engineer

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Flexible light tape
Lamp: One electroluminescent LED
Mounting: Surface
Ballast/Driver: One Lectro-LuminX Lighting Corp. DSD-200

Luminaire



Luminaire Characteristics

Luminous Length: 23.75 in.
Luminous Width: 2.000 in.

Summary of Results

Total Luminaire Output: 13.01 Lumens
Luminaire Efficacy: 2.3 lm/w
Maximum Candela: 4 Candela

Electrical Data

Test Temperature: 24.6 °C
Voltage: 120.0 VAC
Current: 0.1028 A
Power: 5.725 W
Power Factor: 0.463
Frequency: 60 Hz
Current THD: 186 %

Laboratory results may not be representative of field performance
Ballast factors have not been applied



Distribution - Goniophotometer

Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.0 VAC	0.1028 A	5.725 W	0.463	60 Hz	186 %

Summary of Results

Spacing Criteria

0-180: 1.32
90-270: 1.32

Total Lumen Output:

13.01 Lumens

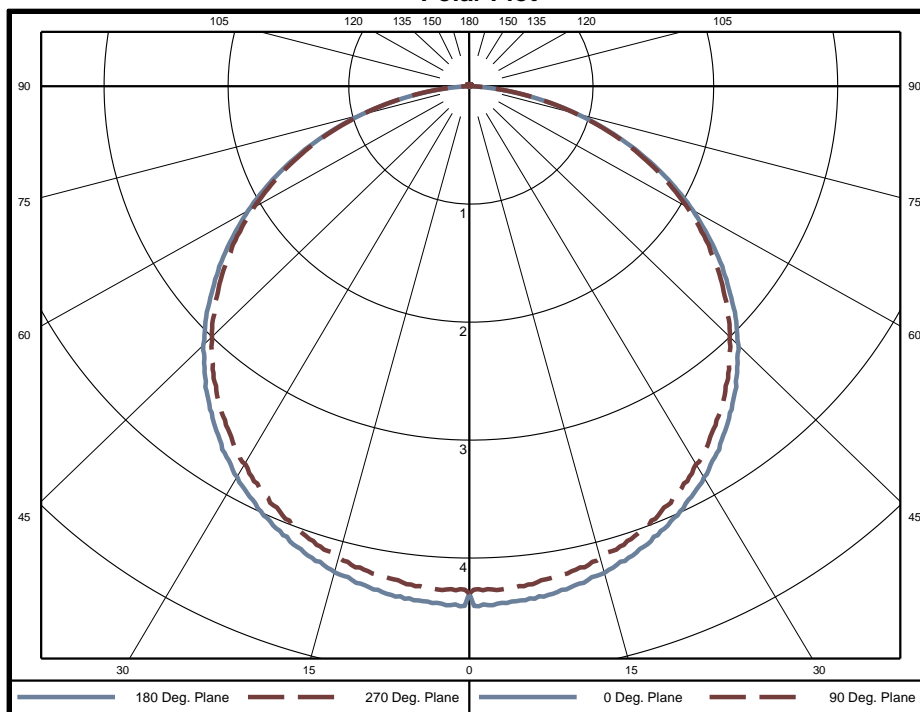
Luminaire Efficacy:

2.3 lm/w

Maximum Candela:

4 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.103	0.8%	60-65	0.914	7.0%	120-125	0.008	0.1%
5-10	0.305	2.3%	65-70	0.761	5.8%	125-130	0.007	0.1%
10-15	0.498	3.8%	70-75	0.579	4.5%	130-135	0.006	0.0%
15-20	0.677	5.2%	75-80	0.379	2.9%	135-140	0.005	0.0%
20-25	0.835	6.4%	80-85	0.184	1.4%	140-145	0.004	0.0%
25-30	0.967	7.4%	85-90	0.041	0.3%	145-150	0.003	0.0%
30-35	1.068	8.2%	90-95	0.004	0.0%	150-155	0.002	0.0%
35-40	1.138	8.7%	95-100	0.004	0.0%	155-160	0.002	0.0%
40-45	1.170	9.0%	100-105	0.005	0.0%	160-165	0.001	0.0%
45-50	1.163	8.9%	105-110	0.007	0.1%	165-170	0.001	0.0%
50-55	1.116	8.6%	110-115	0.008	0.1%	170-175	0.001	0.0%
55-60	1.033	7.9%	115-120	0.008	0.1%	175-180	0.000	0.0%

Zone	Lumens	% of Luminaire
0-40	6	43.0%
0-60	10	77.4%
0-90	13	99.4%
90-180	0	0.6%



Candela Tabulation
Horizontal Angle (Degrees)

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	4.298	4.298	4.298	4.298	4.298	4.298	4.298	4.298	4.298	4.298	4.298	4.298	4.298	4.298	4.298	4.298
5	4.381	4.274	4.268	4.276	4.265	4.276	4.268	4.274	4.381	4.274	4.268	4.276	4.265	4.276	4.268	4.274
10	4.334	4.231	4.217	4.227	4.212	4.227	4.217	4.231	4.334	4.231	4.217	4.227	4.212	4.227	4.217	4.231
15	4.269	4.152	4.145	4.150	4.139	4.150	4.145	4.152	4.269	4.152	4.145	4.150	4.139	4.150	4.145	4.152
20	4.155	4.036	4.028	4.037	4.032	4.037	4.028	4.036	4.155	4.036	4.028	4.037	4.032	4.037	4.028	4.036
25	4.015	3.901	3.889	3.900	3.895	3.900	3.889	3.901	4.015	3.901	3.889	3.900	3.895	3.900	3.889	3.901
30	3.827	3.722	3.719	3.718	3.700	3.718	3.719	3.722	3.827	3.722	3.719	3.718	3.700	3.718	3.719	3.722
35	3.610	3.514	3.506	3.514	3.507	3.514	3.506	3.514	3.610	3.514	3.506	3.514	3.507	3.514	3.506	3.514
40	3.372	3.277	3.285	3.284	3.274	3.284	3.285	3.277	3.372	3.277	3.285	3.284	3.274	3.284	3.285	3.277
45	3.104	3.016	3.016	3.017	3.007	3.017	3.016	3.016	3.104	3.016	3.016	3.017	3.007	3.017	3.016	3.016
50	2.789	2.720	2.721	2.722	2.711	2.722	2.721	2.720	2.789	2.720	2.721	2.722	2.711	2.722	2.721	2.720
55	2.457	2.400	2.402	2.400	2.398	2.400	2.402	2.400	2.457	2.400	2.402	2.400	2.398	2.400	2.402	2.400
60	2.106	2.055	2.060	2.061	2.056	2.061	2.060	2.055	2.106	2.055	2.060	2.061	2.056	2.061	2.060	2.055
65	1.725	1.688	1.696	1.696	1.692	1.696	1.696	1.688	1.725	1.688	1.696	1.696	1.692	1.696	1.696	1.688
70	1.326	1.300	1.309	1.309	1.305	1.309	1.309	1.300	1.326	1.300	1.309	1.309	1.305	1.309	1.309	1.300
75	0.912	0.897	0.908	0.910	0.907	0.910	0.908	0.897	0.912	0.897	0.908	0.910	0.907	0.910	0.908	0.897
80	0.513	0.506	0.515	0.520	0.522	0.520	0.515	0.506	0.513	0.506	0.515	0.520	0.522	0.520	0.515	0.506
85	0.171	0.170	0.180	0.186	0.186	0.186	0.180	0.170	0.171	0.170	0.180	0.186	0.186	0.186	0.180	0.170
90	0.006	0.007	0.013	0.018	0.019	0.018	0.013	0.007	0.006	0.007	0.013	0.018	0.019	0.018	0.013	0.007
95	0.005	0.004	0.007	0.009	0.010	0.009	0.007	0.004	0.005	0.004	0.007	0.009	0.010	0.009	0.007	0.004
100	0.005	0.006	0.010	0.011	0.012	0.011	0.010	0.006	0.005	0.006	0.010	0.011	0.012	0.011	0.010	0.006
105	0.007	0.008	0.012	0.014	0.014	0.014	0.012	0.008	0.007	0.008	0.012	0.014	0.014	0.014	0.012	0.008
110	0.007	0.012	0.015	0.018	0.017	0.018	0.015	0.012	0.007	0.012	0.015	0.018	0.017	0.018	0.015	0.012
115	0.007	0.013	0.017	0.019	0.019	0.019	0.017	0.013	0.007	0.013	0.017	0.019	0.019	0.019	0.017	0.013
120	0.008	0.013	0.018	0.021	0.024	0.021	0.018	0.013	0.008	0.013	0.018	0.021	0.024	0.021	0.018	0.013
125	0.006	0.011	0.019	0.021	0.021	0.021	0.019	0.011	0.006	0.011	0.019	0.021	0.021	0.021	0.019	0.011
130	0.007	0.010	0.017	0.022	0.022	0.022	0.017	0.010	0.007	0.010	0.017	0.022	0.022	0.022	0.017	0.010
135	0.007	0.009	0.016	0.018	0.020	0.018	0.016	0.009	0.007	0.009	0.016	0.018	0.020	0.018	0.016	0.009
140	0.007	0.008	0.014	0.016	0.018	0.016	0.014	0.008	0.007	0.008	0.014	0.016	0.018	0.016	0.014	0.008
145	0.006	0.008	0.011	0.015	0.017	0.015	0.011	0.008	0.006	0.008	0.011	0.015	0.017	0.015	0.011	0.008
150	0.007	0.008	0.010	0.012	0.014	0.012	0.010	0.008	0.007	0.008	0.010	0.012	0.014	0.012	0.010	0.008
155	0.008	0.008	0.010	0.010	0.012	0.010	0.010	0.008	0.008	0.008	0.010	0.010	0.012	0.010	0.010	0.008
160	0.008	0.008	0.009	0.010	0.011	0.010	0.009	0.008	0.008	0.008	0.009	0.010	0.011	0.010	0.009	0.008
165	0.009	0.008	0.008	0.009	0.009	0.009	0.008	0.008	0.009	0.008	0.008	0.009	0.009	0.009	0.008	0.008
170	0.009	0.009	0.009	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.008	0.008	0.008	0.009	0.009
175	0.009	0.008	0.009	0.008	0.007	0.008	0.009	0.008	0.009	0.008	0.009	0.008	0.007	0.008	0.009	0.008
180	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

	0	45	90
0	140	140	140
45	143	139	139
55	140	137	136
65	133	131	131
75	115	115	114
85	64	67	69



Utilization of Lumens - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **																	
0	15	15	15	15	15	15	15	15	14	14	14	14	14	14	13	13	13	13
1	14	13	13	12	14	13	13	12	13	12	12	12	12	11	12	11	11	11
2	13	12	11	10	12	11	11	10	11	10	10	11	10	9	10	10	9	9
3	12	10	9	8	11	10	9	8	10	9	8	9	9	8	9	8	8	7
4	11	9	8	7	10	9	8	7	9	8	7	8	7	7	8	7	7	6
5	10	8	7	6	9	8	7	6	8	7	6	7	6	6	7	6	6	5
6	9	7	6	5	9	7	6	5	7	6	5	7	6	5	6	6	5	5
7	8	7	5	5	8	6	5	5	6	5	5	6	5	4	6	5	4	4
8	8	6	5	4	8	6	5	4	6	5	4	6	5	4	5	5	4	4
9	7	5	4	4	7	5	4	4	5	4	4	5	4	4	5	4	4	3
10	7	5	4	3	7	5	4	3	5	4	3	5	4	3	5	4	3	3

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	0.269	5.16
6.00	0.119	7.74
8.00	0.0672	10.3
10.0	0.0430	12.9
12.0	0.0298	15.5
14.0	0.0219	18.0
16.0	0.0168	20.6

Cone of Light Plot

