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Allentown, PA 18106
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Indoor Distribution Test Report

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

Prepared For
Mercury Lighting
Stephen Bambush
20 Audrey Pl.
Fairfield, NJ 07004-3416

Catalog Number
L501-4-6400-40K-CC-AIM-U55D15-UNI
Order Number
10891761
Test Number
1133382

Test Date

2015-07-28

Prepared By

Javier Caban, Technician

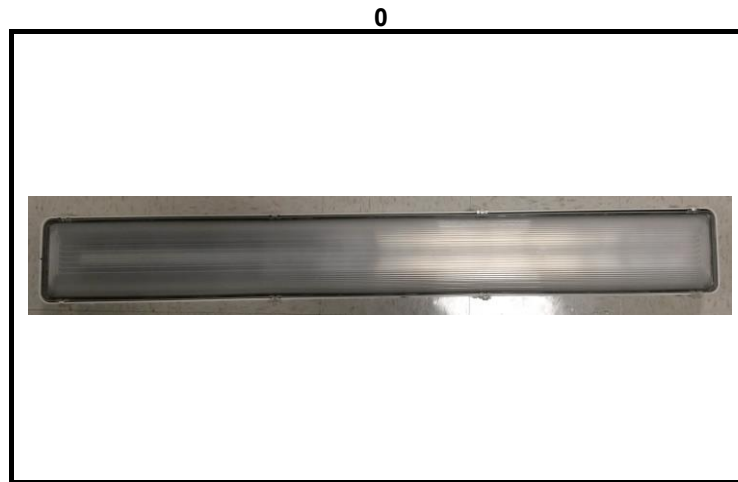
Approved By

Kyle Spaziani, Project Handler

The results contained in this report pertain only to the tested sample.
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Description: Molded white plastic housing, clear stepped plastic enclosure
Lamp: 112 white LEDs
Mounting: Pendant
Ballast/Driver: One Universal Everline D15CC55UNVTZ-C



Characteristics

Luminous Length: 51.50 in.
Luminous Width: 6.500 in.
Luminous Height: 2.00 in.

Summary of Results

Total Output: 6437 Lumens
Efficacy: 103.2 lm/w
Maximum Candela: 3050 Candela

Electrical Data

Test Temperature: 24.9 °C
Voltage: 120.0 VAC
Current: 0.5202 A
Power: 62.36 W
Power Factor: 0.999
Frequency: 60 Hz
Current THD: 4.44 %

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
24.9 °C	120.0 VAC	0.5202 A	62.36 W	0.999	60 Hz	4.44 %

Summary of Results

Spacing Criteria

0-180: 1.14

90-270: 1.14

Total Lumen Output:

6437 Lumens

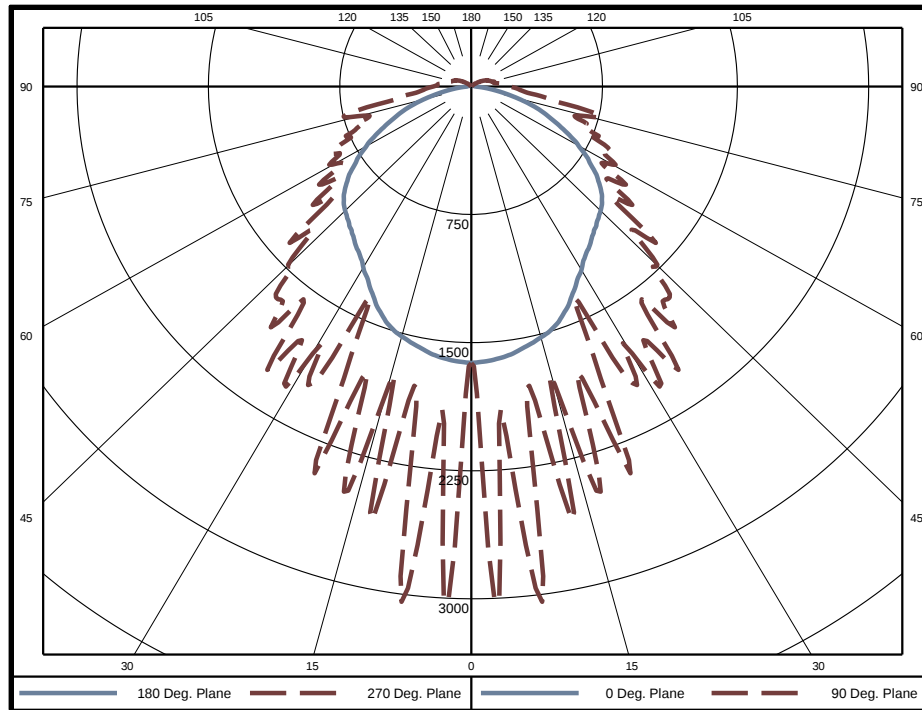
Efficacy:

103.2 lm/w

Maximum Candela:

3050 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	55.0	0.9%	60-65	378.5	5.9%	120-125	10.0	0.2%
5-10	172.6	2.7%	65-70	320.6	5.0%	125-130	5.2	0.1%
10-15	244.0	3.8%	70-75	260.2	4.0%	130-135	2.3	0.0%
15-20	363.0	5.6%	75-80	230.4	3.6%	135-140	0.2	0.0%
20-25	407.5	6.3%	80-85	152.1	2.4%	140-145	0	0.0%
25-30	433.9	6.7%	85-90	94.4	1.5%	145-150	0	0.0%
30-35	499.4	7.8%	90-95	72.4	1.1%	150-155	0	0.0%
35-40	554.6	8.6%	95-100	59.3	0.9%	155-160	0	0.0%
40-45	550.7	8.6%	100-105	46.1	0.7%	160-165	0	0.0%
45-50	540.4	8.4%	105-110	35.6	0.6%	165-170	0	0.0%
50-55	473.3	7.4%	110-115	25.5	0.4%	170-175	0	0.0%
55-60	432.8	6.7%	115-120	16.9	0.3%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2730	42.4%
0-60	4727	73.4%
0-90	6163	95.7%
90-180	274	4.2%



Candela Tabulation

Horizontal Angle (Degrees)

Vertical 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	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620
	5	1601	2592	2611	1931	1900	1931	2611	2592	1601	2592	2611	1931	1900	1931	2611
	10	1564	2353	2953	1983	1794	1983	2953	2353	1564	2353	2953	1983	1794	1983	2953
	15	1517	2226	1768	1963	1802	1963	1768	2226	1517	2226	1768	1963	1802	1963	1768
	20	1449	2724	1695	1985	1815	1985	1695	2724	1449	2724	1695	1985	1815	1985	1695
	25	1336	1578	2005	1737	1359	1737	2005	1578	1336	1578	2005	1737	1359	1737	2005
	30	1230	2240	2062	1929	1805	1929	2062	2240	1230	2240	2062	1929	1805	1929	2062
	35	1145	1527	1528	1676	2026	1676	1528	1527	1145	1527	1528	1676	2026	1676	1528
	40	1077	1714	1802	1519	1685	1519	1802	1714	1077	1714	1802	1519	1685	1519	1802
	45	1020	1562	1677	1529	1475	1529	1677	1562	1020	1562	1677	1529	1475	1529	1677
	50	943	1145	1301	1217	1074	1217	1301	1145	943	1145	1301	1217	1074	1217	1301
	55	822	1147	1062	1044	936	1044	1062	1147	822	1147	1062	1044	936	1044	1062
	60	688	961	724	829	913	829	724	961	688	961	724	829	913	829	724
	65	541	678	690	816	846	816	690	678	541	678	690	816	846	816	690
	70	411	455	579	674	680	674	579	455	411	455	579	674	680	674	579
	75	270	320	455	543	670	543	455	320	270	320	455	543	670	543	455
	80	147	227	461	475	447	475	461	227	147	227	461	475	447	475	461
	85	68	194	213	281	289	281	213	194	68	194	213	281	289	281	213
	90	26	81	163	212	220	212	163	81	26	81	163	212	220	212	163
	95	25	69	149	167	183	167	149	69	25	69	149	167	183	167	149
	100	22	54	119	124	128	124	119	54	22	54	119	124	128	124	119
	105	16	36	97	113	118	113	97	36	16	36	97	113	118	113	97
	110	11	16	68	93	102	93	68	16	11	16	68	93	102	93	68
	115	6	3	44	74	86	74	44	3	6	3	44	74	86	74	44
	120	3	1	23	55	63	55	23	1	3	1	23	55	63	55	23
	125	0	0	11	32	43	32	11	0	0	0	11	32	43	32	11
	130	0	0	0	21	28	21	0	0	0	0	0	21	28	21	0
	135	0	0	0	3	12	3	0	0	0	0	0	3	12	3	0
	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	45	90
	0	7500	7500
	45	6431	8821
	55	6284	6354
	65	5474	4954
	75	4216	4250
	85	2495	2974



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	7598	7598	7598	7598	7389	7389	7389	7389	7000	7000	7000	6644	6644	6644	6317	6317	6317	6163
1	6885	6556	6261	5996	6679	6382	6114	5872	6056	5837	5635	5757	5579	5414	5480	5338	5205	5049
2	6253	5703	5248	4866	6055	5557	5140	4786	5282	4934	4633	5029	4740	4486	4795	4558	4346	4189
3	5701	5008	4473	4046	5516	4885	4390	3991	4653	4232	3885	4438	4082	3783	4239	3940	3684	3529
4	5222	4441	3869	3433	5052	4337	3805	3393	4140	3680	3317	3957	3562	3242	3787	3449	3170	3019
5	4806	3973	3391	2961	4651	3884	3339	2931	3716	3239	2874	3560	3144	2818	3414	3053	2763	2618
6	4442	3581	3004	2589	4300	3505	2962	2567	3361	2880	2522	3227	2802	2478	3101	2727	2435	2296
7	4122	3251	2686	2290	3993	3185	2651	2273	3061	2584	2237	2945	2519	2202	2835	2457	2168	2035
8	3839	2969	2422	2046	3723	2913	2393	2032	2805	2337	2003	2704	2282	1974	2608	2229	1946	1820
9	3589	2728	2200	1844	3484	2678	2176	1832	2584	2128	1808	2496	2081	1784	2412	2037	1761	1641
10	3367	2519	2012	1674	3271	2476	1991	1664	2393	1950	1644	2315	1910	1624	2242	1871	1604	1490

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	101	6.31
6.00	45.0	9.47
8.00	25.3	12.6
10.0	16.2	15.8
12.0	11.2	18.9
14.0	8.26	22.1
16.0	6.33	25.3

Cone of Light Plot

