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7036 Snowdrift Road
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
20 Audrey PL
Fairfield, NJ 07004-3416
United States

Catalog Number
MLS3-I-4-3000-(750 LM/FT)-35K-HTA-A401-U
Order Number
11654729
Test Number
11654729.12

Test Date

2017-03-13

Prepared By

Javier Caban, Technician

Approved By

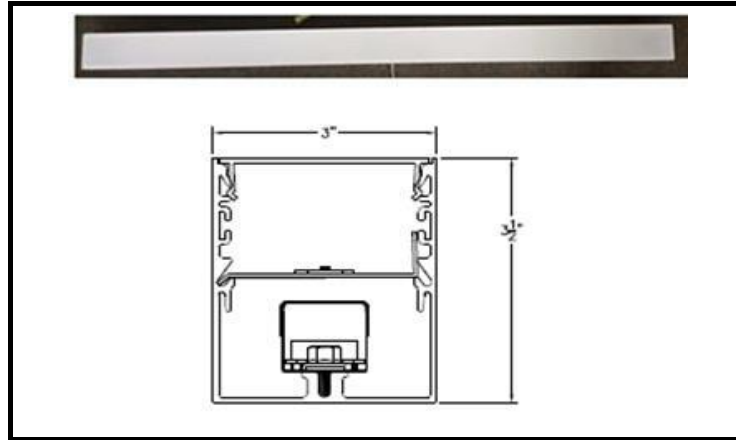
Tiffany Hamm, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Formed white aluminum housing, frosted plastic lens enclosure
Lamp: 96 white LEDs
Mounting: Recessed
Ballast/Driver: Philips Advanced XI040C110V054BST1

Luminaire



Luminaire Characteristics

Luminous Length: 48.00 in.
Luminous Width: 2.875 in.

Summary of Results

Total Luminaire Output:	2957 Lumens
Luminaire Efficacy:	107.3 lm/w
Maximum Candela:	1246 Candela

Test Conditions

Test Temperature:	25.0 °C
Voltage:	120.0 VAC
Current:	0.2308 A
Power:	27.55 W
Power Factor:	0.995
Frequency:	60 Hz
Current THD:	8.14 %

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



Distribution - Goniophotometer

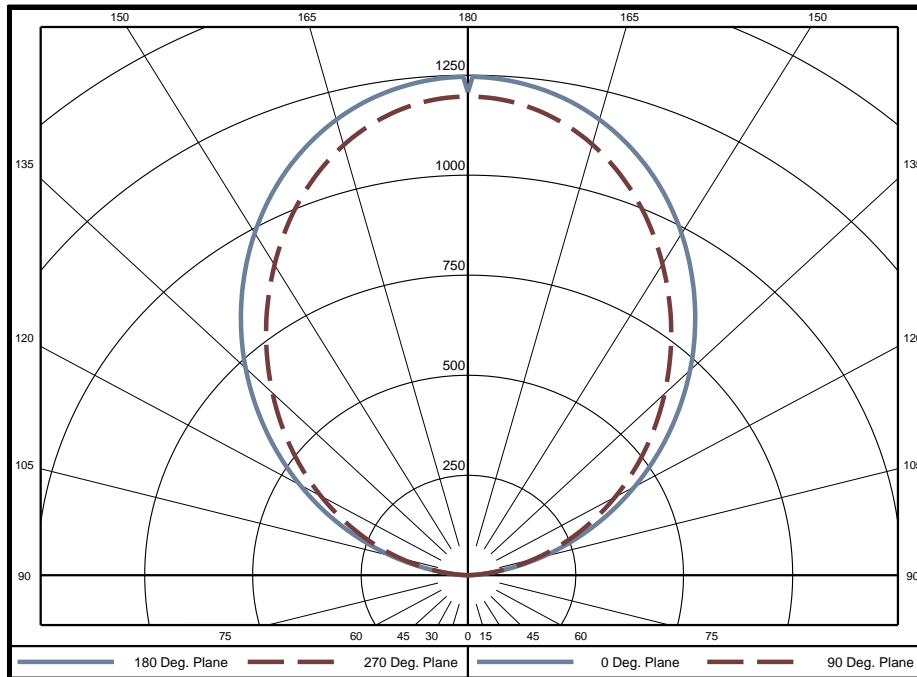
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	0.2308 A	27.55 W	0.995	60 Hz	8.14 %

Summary of Results

Total Lumen Output:	2957 Lumens
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Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0	0.0%	60-65	0	0.0%	120-125	212.9	7.2%
5-10	0	0.0%	65-70	0	0.0%	125-130	237.9	8.0%
10-15	0	0.0%	70-75	0	0.0%	130-135	256.3	8.7%
15-20	0	0.0%	75-80	0	0.0%	135-140	267.2	9.0%
20-25	0	0.0%	80-85	0	0.0%	140-145	269.5	9.1%
25-30	0	0.0%	85-90	0	0.0%	145-150	262.6	8.9%
30-35	0	0.0%	90-95	7.4	0.3%	150-155	245.9	8.3%
35-40	0	0.0%	95-100	34.6	1.2%	155-160	219.1	7.4%
40-45	0	0.0%	100-105	70.8	2.4%	160-165	182.3	6.2%
45-50	0	0.0%	105-110	109.8	3.7%	165-170	136.9	4.6%
50-55	0	0.0%	110-115	147.7	5.0%	170-175	84.9	2.9%
55-60	0	0.0%	115-120	182.5	6.2%	175-180	28.8	1.0%

Zone	Lumens	% of Luminaire
0-40	0	0.0%
0-60	0	0.0%
0-90	0	0.0%
90-180	2957	100.0%



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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90	0	0	0	1	0	1	0	0	0	0	0	1	0	1	0	0
95	33	34	35	35	35	35	35	34	33	34	35	35	35	35	35	34
100	99	98	96	94	92	94	96	98	99	98	96	94	92	94	96	98
105	180	176	170	165	162	165	170	176	180	176	170	165	162	165	170	176
110	266	260	249	241	237	241	249	260	266	260	249	241	237	241	249	260
115	357	347	332	321	314	321	332	347	357	347	332	321	314	321	332	347
120	448	434	415	401	394	401	415	434	448	434	415	401	394	401	415	434
125	542	522	502	484	475	484	502	522	542	522	502	484	475	484	502	522
130	635	612	587	568	558	568	587	612	635	612	587	568	558	568	587	612
135	729	701	674	653	642	653	674	701	729	701	674	653	642	653	674	701
140	819	790	761	739	728	739	761	790	819	790	761	739	728	739	761	790
145	906	875	845	824	814	824	845	875	906	875	845	824	814	824	845	875
150	989	956	928	908	898	908	928	956	989	956	928	908	898	908	928	956
155	1063	1030	1003	987	980	987	1003	1030	1063	1030	1003	987	980	987	1003	1030
160	1127	1094	1070	1059	1052	1059	1070	1094	1127	1094	1070	1059	1052	1059	1070	1094
165	1179	1146	1124	1118	1113	1118	1124	1146	1179	1146	1124	1118	1113	1118	1124	1146
170	1216	1183	1165	1161	1159	1161	1165	1183	1216	1183	1165	1161	1159	1161	1165	1183
175	1239	1206	1189	1189	1187	1189	1189	1206	1239	1206	1189	1189	1187	1189	1189	1206
180	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208

Vertical Angle (Degrees)



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	2816	2816	2816	2816	2407	2407	2407	2407	1643	1643	1643	944	944	944	302	302	302	0
1	2561	2442	2336	2241	2184	2090	2005	1929	1429	1380	1334	823	798	776	264	257	251	0
2	2329	2129	1964	1825	1983	1824	1691	1578	1250	1170	1101	721	680	645	231	220	210	0
3	2121	1867	1671	1514	1804	1601	1441	1313	1099	1001	921	635	585	543	204	190	178	0
4	1935	1645	1432	1270	1644	1411	1238	1104	971	863	777	561	505	460	181	165	151	0
5	1768	1455	1237	1075	1502	1250	1070	935	861	747	661	499	439	392	161	143	129	0
6	1621	1295	1077	920	1378	1113	933	801	768	653	567	446	384	337	144	126	111	0
7	1491	1160	945	794	1268	998	819	692	689	574	491	400	338	292	129	111	97	0
8	1376	1043	834	690	1170	898	723	602	621	508	427	361	300	254	117	98	84	0
9	1274	943	741	604	1084	813	643	527	563	452	374	328	267	223	106	88	74	0
1																		0