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Indoor Distribution Test Report

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

Prepared For
Mercury Lighting

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Catalog Number
LW15-4-5000-35K-HTA-U55-UNI-1PK

Order Number
11111278
Test Number
1201025

Test Date

2016-01-27

Prepared By

Kevin Rodriguez, Technician

Approved By

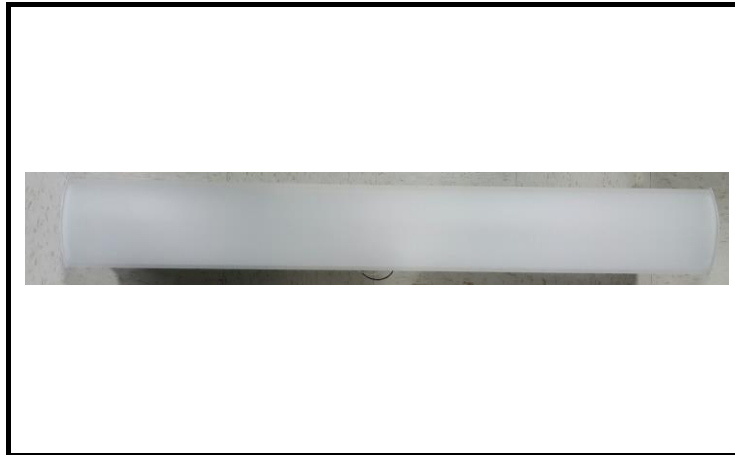
Kyle Spaziani, Project Handler

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Luminaire Description: White steel housing / reflector, frosted plastic lens enclosure
Lamp: 112 white LEDs
Mounting: Recessed
Ballast/Driver: One Universal Everline D10CC55UNVTZ-C (@1050mA)

Luminaire



Luminaire Characteristics

Luminous Length: 45.00 in.
Luminous Width: 6.250 in.
Luminous Height: 2.00 in.

Summary of Results

Total Luminaire Output: 5108 Lumens
Luminaire Efficacy: 99.7 lm/w
Maximum Candela: 1472 Candela

Electrical Data

Test Temperature: 25.0 °C
Voltage: 120.0 VAC
Current: 0.4270 A
Power: 51.21 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 5.16 %

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	0.4270 A	51.21 W	0.998	60 Hz	5.16 %

Summary of Results

Spacing Criteria

0-180: 1.19
90-270: 1.19

Total Lumen Output:

5108 Lumens

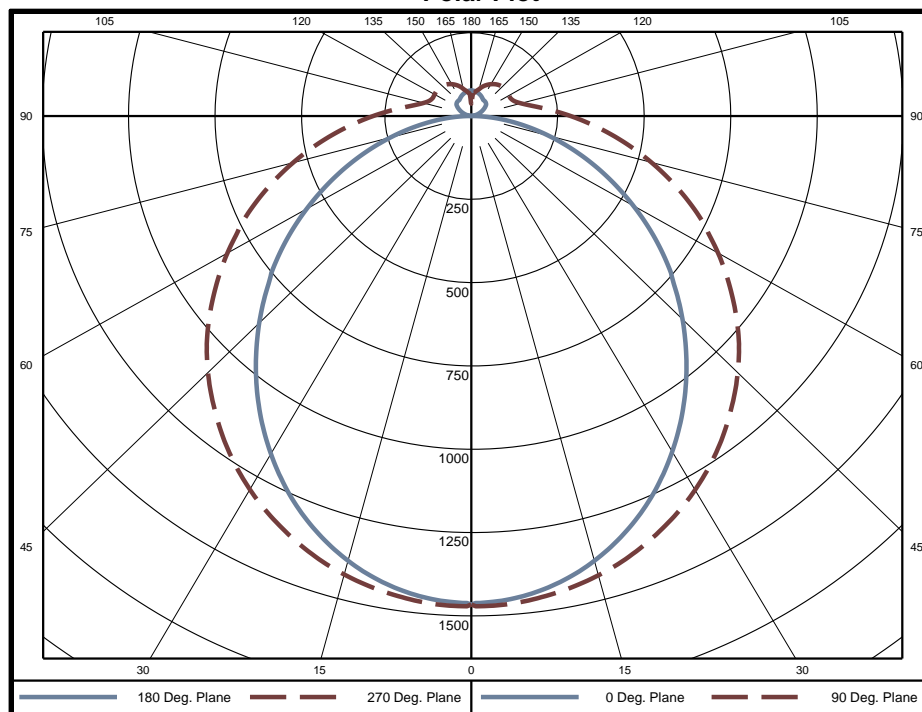
Luminaire Efficacy:

99.7 lm/w

Maximum Candela:

1472 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	35.0	0.7%	60-65	307.4	6.0%	120-125	40.7	0.8%
5-10	103.6	2.0%	65-70	269.1	5.3%	125-130	39.6	0.8%
10-15	168.6	3.3%	70-75	226.5	4.4%	130-135	37.4	0.7%
15-20	227.5	4.5%	75-80	182.3	3.6%	135-140	34.1	0.7%
20-25	278.4	5.5%	80-85	139.4	2.7%	140-145	29.9	0.6%
25-30	319.9	6.3%	85-90	101.4	2.0%	145-150	25.3	0.5%
30-35	350.8	6.9%	90-95	73.3	1.4%	150-155	20.9	0.4%
35-40	370.3	7.2%	95-100	56.2	1.1%	155-160	16.4	0.3%
40-45	378.4	7.4%	100-105	47.0	0.9%	160-165	12.2	0.2%
45-50	375.4	7.3%	105-110	42.7	0.8%	165-170	8.4	0.2%
50-55	362.2	7.1%	110-115	41.2	0.8%	170-175	5.0	0.1%
55-60	339.0	6.6%	115-120	41.0	0.8%	175-180	1.7	0.0%

Zone	Lumens	% of Luminaire
0-40	1854	36.3%
0-60	3309	64.8%
0-90	4535	88.8%
90-180	573	11.2%



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	1466	1466	1466	1466	1466	1466	1466	1466	1466	1466	1466	1466	1466	1466	1466	1466
	5	1453	1458	1458	1461	1467	1461	1458	1458	1453	1458	1458	1461	1467	1461	1458	1458
	10	1426	1433	1437	1444	1451	1444	1437	1433	1426	1433	1437	1444	1451	1444	1437	1433
	15	1383	1391	1403	1416	1426	1416	1403	1391	1383	1391	1403	1416	1426	1416	1403	1391
	20	1324	1336	1356	1378	1391	1378	1356	1336	1324	1336	1356	1378	1391	1378	1356	1336
	25	1253	1267	1298	1329	1346	1329	1298	1267	1253	1267	1298	1329	1346	1329	1298	1267
	30	1168	1187	1230	1272	1294	1272	1230	1187	1168	1187	1230	1272	1294	1272	1230	1187
	35	1075	1098	1153	1206	1233	1206	1153	1098	1075	1098	1153	1206	1233	1206	1153	1098
	40	975	1002	1067	1132	1163	1132	1067	1002	975	1002	1067	1132	1163	1132	1067	1002
	45	872	901	975	1052	1088	1052	975	901	872	901	975	1052	1088	1052	975	901
	50	766	797	878	966	1006	966	878	797	766	797	878	966	1006	966	878	797
	55	661	694	778	874	915	874	778	694	661	694	778	874	915	874	778	694
	60	550	584	681	779	823	779	681	584	550	584	681	779	823	779	681	584
	65	441	476	579	686	731	686	579	476	441	476	579	686	731	686	579	476
	70	337	374	479	589	634	589	479	374	337	374	479	589	634	589	479	374
	75	238	278	384	493	538	493	384	278	238	278	384	493	538	493	384	278
80	147	191	297	403	446	403	297	191	147	191	297	403	446	403	297	191	
85	68	117	221	321	361	321	221	117	68	117	221	321	361	321	221	117	
90	0	65	161	251	287	251	161	65	0	65	161	251	287	251	161	65	
95	3	40	117	193	225	193	117	40	3	40	117	193	225	193	117	40	
100	10	37	92	152	178	152	92	37	10	37	92	152	178	152	92	37	
105	18	41	82	128	148	128	82	41	18	41	82	128	148	128	82	41	
110	26	46	82	116	132	116	82	46	26	46	82	116	132	116	82	46	
115	34	51	85	113	126	113	85	51	34	51	85	113	126	113	85	51	
120	42	56	90	115	125	115	90	56	42	56	90	115	125	115	90	56	
125	50	60	93	117	126	117	93	60	50	60	93	117	126	117	93	60	
130	56	64	95	118	127	118	95	64	56	64	95	118	127	118	95	64	
135	59	65	96	117	125	117	96	65	59	65	96	117	125	117	96	65	
140	59	65	94	115	122	115	94	65	59	65	94	115	122	115	94	65	
145	60	64	89	111	117	111	89	64	60	64	89	111	117	111	89	64	
150	63	63	82	105	110	105	82	63	63	63	82	105	110	105	82	63	
155	67	65	76	97	103	97	76	65	67	65	76	97	103	97	76	65	
160	70	67	70	84	94	84	70	67	70	67	70	84	94	84	70	67	
165	72	70	68	72	83	72	68	70	72	70	68	72	83	72	68	70	
170	74	73	69	65	75	65	69	73	74	73	69	65	75	65	69	73	
175	76	75	71	62	69	62	71	75	76	75	71	62	69	62	71	75	
180	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	

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

Vertical Angle (Degrees)	0	45	90	
	0	8081	8081	8081
	45	6795	7602	8479
	55	6353	7479	8791
	65	5756	7553	9538
	75	5060	8183	11460
	85	4283	13990	22850



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	5944	5944	5944	5944	5740	5740	5740	5740	5357	5357	5357	5007	5007	5007	4686	4686	4686	4535
1	5348	5074	4828	4607	5146	4900	4679	4478	4576	4396	4231	4278	4133	4000	4003	3889	3782	3633
2	4836	4385	4011	3697	4644	4238	3897	3608	3961	3680	3437	3707	3476	3274	3471	3284	3117	2972
3	4394	3830	3393	3046	4215	3705	3304	2981	3469	3132	2855	3250	2969	2733	3048	2815	2616	2476
4	4014	3381	2917	2563	3849	3274	2845	2514	3071	2706	2417	2884	2574	2323	2709	2448	2232	2099
5	3685	3012	2542	2195	3535	2920	2483	2156	2746	2369	2080	2584	2260	2005	2433	2155	1932	1806
6	3399	2706	2241	1907	3262	2626	2192	1876	2476	2096	1814	2335	2005	1753	2203	1917	1693	1575
7	3148	2448	1995	1677	3023	2379	1954	1651	2248	1873	1600	2125	1795	1550	2010	1721	1500	1388
8	2927	2230	1791	1490	2814	2170	1756	1469	2055	1687	1425	1947	1621	1383	1845	1557	1341	1236
9	2733	2043	1621	1336	2630	1990	1591	1318	1889	1531	1281	1794	1474	1245	1704	1418	1209	1109
10	2560	1882	1477	1207	2466	1836	1451	1191	1746	1399	1160	1661	1349	1129	1581	1300	1098	1004

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	91.6	4.99
6.00	40.7	7.49
8.00	22.9	9.98
10.0	14.7	12.5
12.0	10.2	15.0
14.0	7.48	17.5
16.0	5.73	20.0

Cone of Light Plot

