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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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Fairfield, NJ 07004-3416

Catalog Number
LR4-22G-3100-35K-U55-UNI-XXXX

Order Number
10740370
Test Number
1020065

Test Date

2015-04-16

Prepared By

Barry Mello Jr., Technician

Approved By

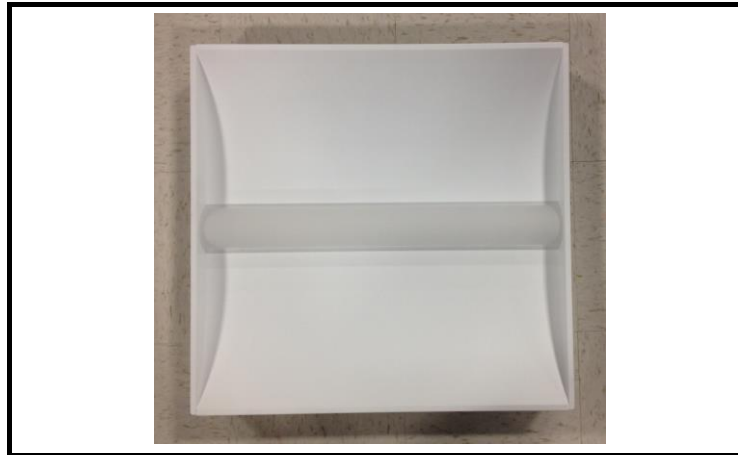
Kyle Spaziani, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White steel housing / reflector, frosted plastic lens enclosure
Lamp: 72 white LEDs
Mounting: Recessed
Ballast/Driver: One Universal Everline D10CC55UNVTZ-C (@754mA)

Luminaire



Luminaire Characteristics

Luminous Length: 23.00 in.
Luminous Width: 23.00 in.

Summary of Results

Total Luminaire Output:	2925 Lumens
Luminaire Efficacy:	89.4 lm/w
Maximum Candela:	957 Candela

Electrical Data

Test Temperature:	25.2 °C
Voltage:	120.0 VAC
Current:	0.2735 A
Power:	32.71 W
Power Factor:	0.997
Frequency:	60 Hz
Current THD:	6.14 %

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



Distribution - Goniophotometer

Distribution Test Conditions

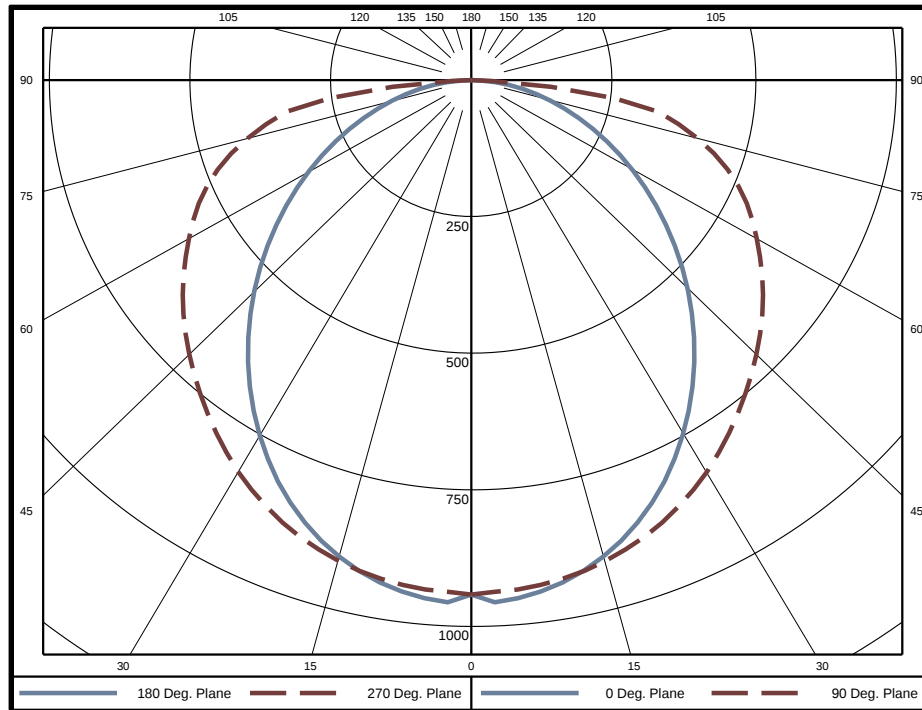
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.0 VAC	0.2735 A	32.71 W	0.997	60 Hz	6.14 %

Summary of Results

Spacing Criteria
 0-180: 1.19
 90-270: 1.31

Total Lumen Output: 2925 Lumens
Luminaire Efficacy: 89.4 lm/w
Maximum Candela: 957 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	23.9	0.8%	60-65	207.1	7.1%	120-125	0.0	0.0%
5-10	66.6	2.3%	65-70	188.5	6.4%	125-130	0.0	0.0%
10-15	108.2	3.7%	70-75	164.7	5.6%	130-135	0.0	0.0%
15-20	145.9	5.0%	75-80	134.1	4.6%	135-140	0.0	0.0%
20-25	178.3	6.1%	80-85	88.7	3.0%	140-145	0.0	0.0%
25-30	204.2	7.0%	85-90	22.1	0.8%	145-150	0.0	0.0%
30-35	223.0	7.6%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	235.0	8.0%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	240.3	8.2%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	239.3	8.2%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	233.1	8.0%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	222.0	7.6%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	1185.0	40.5%
0-60	2119.7	72.5%
0-90	2924.8	100.0%
90-180	0.0	0.0%



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	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942
	5	952	935	934	937	936	937	934	935	952	935	934	937	936	937	934	935
	10	934	919	921	927	927	927	921	919	934	919	921	927	927	927	921	919
	15	903	891	898	909	911	909	898	891	903	891	898	909	911	909	898	891
	20	862	853	867	885	890	885	867	853	862	853	867	885	890	885	867	853
	25	811	806	829	853	861	853	829	806	811	806	829	853	861	853	829	806
	30	750	750	781	815	828	815	781	750	750	750	781	815	828	815	781	750
	35	684	689	730	773	789	773	730	689	684	689	730	773	789	773	730	689
	40	615	626	676	728	749	728	676	626	615	626	676	728	749	728	676	626
	45	544	559	618	682	708	682	618	559	544	559	618	682	708	682	618	559
	50	471	491	561	637	667	637	561	491	471	491	561	637	667	637	561	491
	55	400	425	506	591	624	591	506	425	400	425	506	591	624	591	506	425
	60	331	361	453	543	579	543	453	361	331	361	453	543	579	543	453	361
	65	266	301	402	496	534	496	402	301	266	301	402	496	534	496	402	301
	70	203	246	351	442	479	442	351	246	203	246	351	442	479	442	351	246
	75	145	193	294	374	411	374	294	193	145	193	294	374	411	374	294	193
	80	93	139	219	294	333	294	219	139	93	139	219	294	333	294	219	139
	85	43	68	113	133	141	133	113	68	43	68	113	133	141	133	113	68
	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	140	0	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	0
	150	0	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	0
	160	0	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	0
	170	0	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	0
	180	0	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	2759	2759
	45	2253	2561
	55	2045	2585
	65	1841	2784
	75	1645	3323
	85	1436	3804



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	3482	3482	3482	3482	3401	3401	3401	3401	3250	3250	3250	3112	3112	3112	2985	2985	2985	2925
1	3138	2980	2839	2711	3056	2913	2784	2667	2786	2679	2581	2670	2583	2501	2563	2492	2426	2362
2	2832	2567	2348	2164	2752	2511	2309	2138	2404	2234	2087	2306	2163	2038	2216	2097	1991	1924
3	2569	2237	1980	1775	2493	2189	1951	1758	2100	1895	1726	2017	1842	1695	1940	1792	1665	1597
4	2345	1972	1699	1491	2275	1932	1677	1480	1857	1634	1458	1787	1594	1437	1722	1555	1417	1350
5	2153	1757	1480	1276	2089	1723	1463	1268	1659	1430	1254	1600	1398	1239	1545	1367	1225	1160
6	1986	1579	1305	1109	1928	1550	1292	1104	1496	1265	1093	1445	1240	1083	1398	1216	1073	1010
7	1840	1430	1163	977	1788	1405	1152	973	1359	1131	965	1316	1111	957	1275	1091	950	890
8	1712	1304	1046	870	1665	1283	1037	867	1243	1020	861	1206	1003	855	1171	987	849	792
9	1600	1196	949	782	1557	1178	941	779	1144	927	775	1112	913	770	1081	899	766	711
10	1500	1103	866	708	1462	1088	860	706	1058	848	703	1030	836	699	1004	825	696	643

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	58.9	4.95
6.00	26.2	7.43
8.00	14.7	9.91
10.0	9.42	12.4
12.0	6.54	14.9
14.0	4.80	17.3
16.0	3.68	19.8

Cone of Light Plot

