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Indoor Distribution Test Report

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

Prepared For
Mercury Lighting

John Andrews
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Catalog Number
LR10-22G-3100-35K-U55-UNI-XXXX

Order Number
10740370
Test Number
1020066

Test Date

2015-04-16

Prepared By

Barry Mello Jr., Technician

Approved By

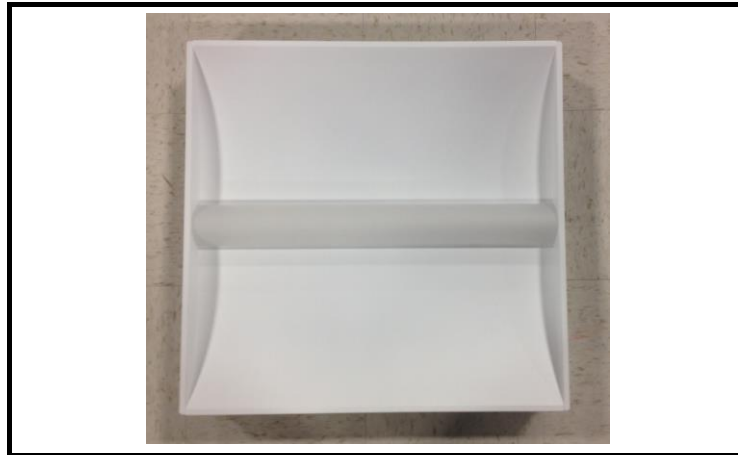
Kyle Spaziani, Project Handler

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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:	2941 Lumens
Luminaire Efficacy:	90.2 lm/w
Maximum Candela:	1012 Candela

Electrical Data

Test Temperature:	25.2 °C
Voltage:	120.0 VAC
Current:	0.2728 A
Power:	32.62 W
Power Factor:	0.997
Frequency:	60 Hz
Current THD:	6.21 %

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



Distribution - Goniophotometer

Distribution Test Conditions

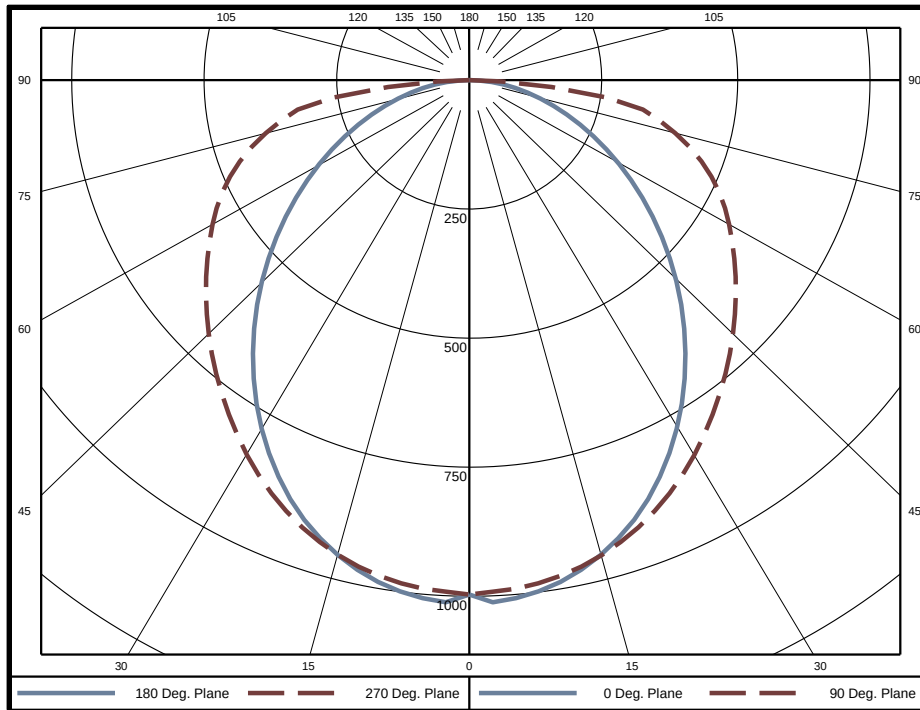
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.0 VAC	0.2728 A	32.62 W	0.997	60 Hz	6.21 %

Summary of Results

Spacing Criteria
 0-180: 1.17
 90-270: 1.25

Total Lumen Output: 2941 Lumens
Luminaire Efficacy: 90.2 lm/w
Maximum Candela: 1012 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	25.2	0.9%	60-65	201.4	6.8%	120-125	0.0	0.0%
5-10	70.2	2.4%	65-70	183.2	6.2%	125-130	0.0	0.0%
10-15	113.8	3.9%	70-75	160.5	5.5%	130-135	0.0	0.0%
15-20	152.6	5.2%	75-80	132.3	4.5%	135-140	0.0	0.0%
20-25	185.3	6.3%	80-85	91.3	3.1%	140-145	0.0	0.0%
25-30	210.4	7.2%	85-90	27.5	0.9%	145-150	0.0	0.0%
30-35	227.7	7.7%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	237.5	8.1%	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	236.9	8.1%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	228.6	7.8%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	216.5	7.4%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	1222.8	41.6%
0-60	2145.2	72.9%
0-90	2941.4	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	996	996	996	996	996	996	996	996	996	996	996	996	996	996	996	996
	5	1007	989	987	990	989	990	987	989	1007	989	987	990	989	990	987	989
	10	987	970	971	976	975	976	971	970	987	970	971	976	975	976	971	970
	15	953	938	943	952	953	952	943	938	953	938	943	952	953	952	943	938
	20	906	895	905	919	922	919	905	895	906	895	905	919	922	919	905	895
	25	848	840	858	878	883	878	858	840	848	840	858	878	883	878	858	840
	30	780	777	802	830	839	830	802	777	780	777	802	830	839	830	802	777
	35	706	708	742	778	791	778	742	708	706	708	742	778	791	778	742	708
	40	629	636	679	725	743	725	679	636	629	636	679	725	743	725	679	636
	45	551	562	615	673	695	673	615	562	551	562	615	673	695	673	615	562
	50	473	489	553	622	648	622	553	489	473	489	553	622	648	622	553	489
	55	397	419	496	574	603	574	496	419	397	419	496	574	603	574	496	419
	60	325	353	442	527	559	527	442	353	325	353	442	527	559	527	442	353
	65	258	293	393	481	514	481	393	293	258	293	393	481	514	481	393	293
	70	195	239	346	429	461	429	346	239	195	239	346	429	461	429	346	239
	75	138	189	291	366	398	366	291	189	138	189	291	366	398	366	291	189
	80	88	139	222	293	329	293	222	139	88	139	222	293	329	293	222	139
	85	42	75	125	148	154	148	125	75	42	75	125	148	154	148	125	75
	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	2920	2920
	45	2281	2880
	55	2029	3081
	65	1786	3563
	75	1567	4502
	85	1419	5178



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	3505	3505	3505	3505	3423	3423	3423	3423	3271	3271	3271	3132	3132	3132	3004	3004	3004	2944
1	3159	3000	2858	2729	3076	2932	2802	2684	2805	2697	2598	2688	2600	2518	2580	2509	2442	2378
2	2854	2589	2370	2185	2773	2532	2330	2158	2425	2254	2107	2327	2184	2058	2235	2117	2011	1944
3	2592	2260	2003	1798	2516	2212	1974	1781	2122	1917	1749	2039	1864	1717	1962	1814	1687	1619
4	2369	1996	1723	1515	2299	1956	1701	1504	1880	1658	1482	1810	1617	1461	1745	1578	1440	1373
5	2177	1781	1504	1300	2113	1747	1487	1293	1683	1454	1278	1624	1422	1263	1568	1391	1249	1184
6	2010	1603	1329	1133	1952	1574	1316	1128	1520	1289	1117	1469	1264	1107	1422	1239	1096	1033
7	1864	1453	1187	1000	1811	1429	1176	996	1382	1154	988	1339	1134	981	1298	1114	973	913
8	1735	1326	1069	892	1688	1306	1060	889	1266	1043	883	1228	1026	878	1193	1009	872	814
9	1622	1218	971	803	1579	1200	963	801	1166	949	796	1133	935	792	1103	921	787	732
10	1522	1125	887	729	1483	1109	881	727	1079	869	723	1051	857	720	1025	846	716	664

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	62.3	4.82
6.00	27.7	7.22
8.00	15.6	9.63
10.0	9.96	12.0
12.0	6.92	14.4
14.0	5.08	16.9
16.0	3.89	19.3

Cone of Light Plot

