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Indoor Distribution Test Report

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

Prepared For
Mercury Lighting

John Andrews
20 Audrey Pl
Fairfield, NJ 07004-3416

Catalog Number
LR14-22G-4300-35K-U55-UNI-XXXX

Order Number
10740370
Test Number
1020070

Test Date

2015-04-15

Prepared By

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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: 96 white LEDs
Mounting: Recessed
Ballast/Driver: One Universal Everline D10CC55UNVTZ-C (@1050mA)

Luminaire



Luminaire Characteristics

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

Summary of Results

Total Luminaire Output:	4171 Lumens
Luminaire Efficacy:	94.1 lm/w
Maximum Candela:	1388 Candela

Electrical Data

Test Temperature:	24.6 °C
Voltage:	120.0 VAC
Current:	0.3701 A
Power:	44.32 W
Power Factor:	0.998
Frequency:	60 Hz
Current THD:	5.60 %

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



Distribution - Goniophotometer

Distribution Test Conditions

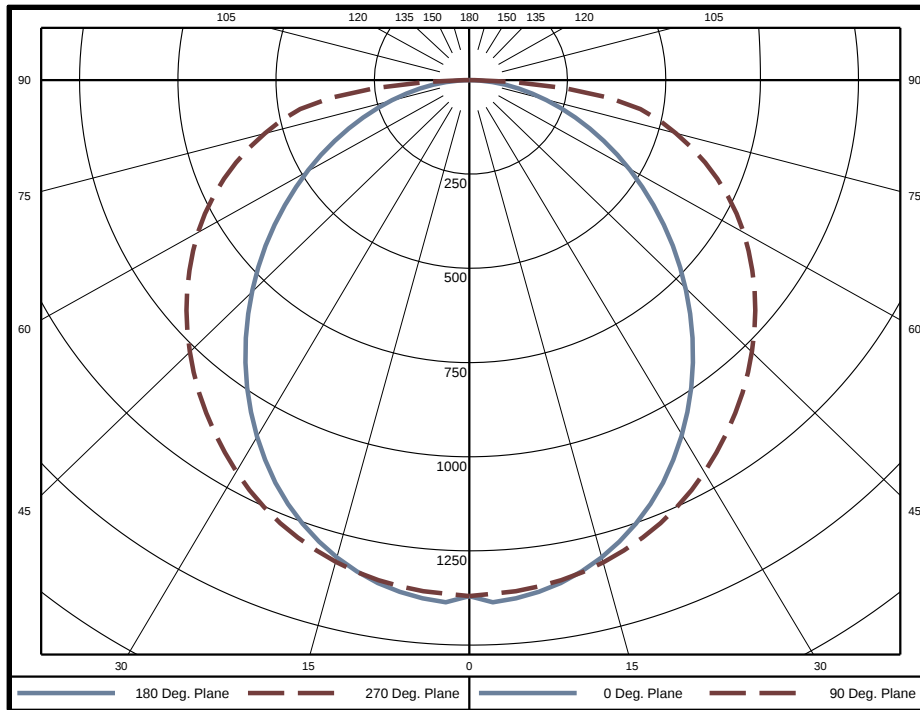
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.0 VAC	0.3701 A	44.32 W	0.998	60 Hz	5.60 %

Summary of Results

Spacing Criteria
 0-180: 1.19
 90-270: 1.30

Total Lumen Output: 4171 Lumens
Luminaire Efficacy: 94.1 lm/w
Maximum Candela: 1388 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	34.7	0.8%	60-65	288.7	6.9%	120-125	0.0	0.0%
5-10	96.8	2.3%	65-70	257.2	6.2%	125-130	0.0	0.0%
10-15	157.4	3.8%	70-75	219.7	5.3%	130-135	0.0	0.0%
15-20	212.3	5.1%	75-80	176.9	4.2%	135-140	0.0	0.0%
20-25	259.3	6.2%	80-85	122.4	2.9%	140-145	0.0	0.0%
25-30	296.9	7.1%	85-90	43.0	1.0%	145-150	0.0	0.0%
30-35	324.2	7.8%	90-95	0.9	0.0%	150-155	0.0	0.0%
35-40	341.0	8.2%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	347.7	8.3%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	344.7	8.3%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	333.1	8.0%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	314.1	7.5%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	1722.6	41.3%
0-60	3062.3	73.4%
0-90	4170.1	100.0%
90-180	0.9	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	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370
	5	1381	1361	1360	1363	1362	1363	1360	1361	1381	1361	1360	1363	1362	1363	1360
	10	1356	1338	1340	1348	1348	1348	1340	1338	1356	1338	1340	1348	1348	1348	1340
	15	1313	1298	1308	1322	1325	1322	1308	1298	1313	1298	1308	1322	1325	1322	1308
	20	1253	1244	1262	1285	1292	1285	1262	1244	1253	1244	1262	1285	1292	1285	1262
	25	1180	1174	1205	1240	1251	1240	1205	1174	1180	1174	1205	1240	1251	1240	1205
	30	1092	1094	1136	1183	1201	1183	1136	1094	1092	1094	1136	1183	1201	1183	1136
	35	996	1004	1060	1121	1144	1121	1060	1004	996	1004	1060	1121	1144	1121	1060
	40	894	909	978	1054	1084	1054	978	909	894	909	978	1054	1084	1054	978
	45	789	811	891	983	1019	983	891	811	789	811	891	983	1019	983	891
	50	684	710	804	910	952	910	804	710	684	710	804	910	952	910	804
	55	579	611	718	834	881	834	718	611	579	611	718	834	881	834	718
	60	478	515	634	758	807	758	634	515	478	515	634	758	807	758	634
	65	382	423	551	677	727	677	551	423	382	423	551	677	727	677	551
	70	290	338	469	588	640	588	469	338	290	338	469	588	640	588	469
	75	206	258	379	492	545	492	379	258	206	258	379	492	545	492	379
	80	129	180	283	390	443	390	283	180	129	180	283	390	443	390	283
	85	60	95	165	221	245	221	165	95	60	95	165	221	245	221	165
	90	1	2	7	11	14	11	7	2	1	2	7	11	14	11	7
	95	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
	105	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
	115	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
	125	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
	135	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
	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	4014	4014
	45	3268	3694
	55	2957	3669
	65	2647	3822
	75	2328	4287
	85	2021	5563



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	4970	4970	4970	4970	4854	4854	4854	4854	4638	4638	4638	4441	4441	4441	4260	4260	4260	4174
1	4482	4258	4057	3876	4365	4162	3979	3813	3982	3830	3691	3816	3692	3576	3663	3563	3469	3378
2	4050	3676	3366	3106	3936	3595	3310	3068	3444	3203	2995	3304	3102	2925	3175	3008	2858	2763
3	3678	3208	2845	2555	3571	3141	2803	2531	3013	2723	2485	2895	2648	2440	2786	2576	2397	2301
4	3360	2832	2445	2150	3261	2775	2414	2134	2668	2353	2104	2568	2295	2074	2476	2240	2044	1950
5	3086	2525	2133	1843	2995	2477	2108	1832	2386	2061	1811	2302	2015	1790	2223	1972	1770	1678
6	2848	2270	1883	1604	2766	2230	1863	1597	2153	1825	1581	2081	1789	1567	2013	1754	1552	1463
7	2640	2057	1679	1414	2565	2022	1663	1408	1956	1633	1397	1895	1604	1386	1837	1575	1375	1290
8	2457	1876	1511	1260	2390	1846	1498	1255	1790	1473	1247	1737	1449	1239	1687	1426	1230	1149
9	2295	1721	1370	1133	2235	1696	1359	1129	1647	1339	1123	1601	1319	1116	1558	1300	1110	1032
10	2152	1588	1251	1026	2098	1566	1242	1024	1524	1225	1019	1484	1208	1014	1447	1192	1008	934

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	85.6	4.95
6.00	38.1	7.43
8.00	21.4	9.90
10.0	13.7	12.4
12.0	9.51	14.9
14.0	6.99	17.3
16.0	5.35	19.8

Cone of Light Plot

