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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
LR15-22G-4300-35K-U55-UNI-XXXX

Order Number
10740370
Test Number
1020071

Test Date

2015-04-14

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: 4113 Lumens
Luminaire Efficacy: 93.1 lm/w
Maximum Candela: 1339 Candela

Electrical Data

Test Temperature: 25.0 °C
Voltage: 120.0 VAC
Current: 0.3689 A
Power: 44.19 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 5.37 %

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



Distribution - Goniophotometer

Distribution Test Conditions

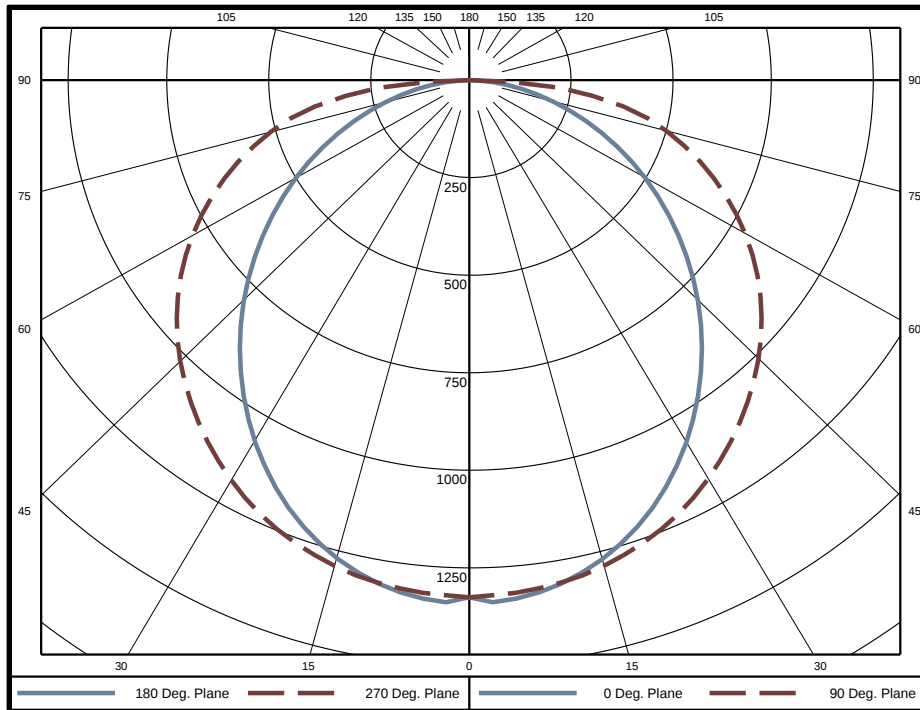
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	0.3689 A	44.19 W	0.998	60 Hz	5.37 %

Summary of Results

Spacing Criteria
 0-180: 1.20
 90-270: 1.33

Total Lumen Output: 4113 Lumens
Luminaire Efficacy: 93.1 lm/w
Maximum Candela: 1339 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	33.6	0.8%	60-65	290.0	7.1%	120-125	0.0	0.0%
5-10	93.8	2.3%	65-70	255.0	6.2%	125-130	0.0	0.0%
10-15	152.8	3.7%	70-75	213.6	5.2%	130-135	0.0	0.0%
15-20	206.6	5.0%	75-80	166.0	4.0%	135-140	0.0	0.0%
20-25	253.5	6.2%	80-85	108.2	2.6%	140-145	0.0	0.0%
25-30	291.9	7.1%	85-90	36.3	0.9%	145-150	0.0	0.0%
30-35	320.7	7.8%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	339.7	8.3%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	348.7	8.5%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	347.6	8.5%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	337.1	8.2%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	317.8	7.7%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	1692.5	41.2%
0-60	3043.6	74.0%
0-90	4112.7	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	1325	1325	1325	1325	1325	1325	1325	1325	1325	1325	1325	1325	1325	1325	1325
	5	1334	1318	1316	1320	1319	1320	1316	1318	1334	1318	1316	1320	1319	1320	1318
	10	1310	1296	1299	1307	1308	1307	1299	1296	1310	1296	1299	1307	1308	1307	1299
	15	1271	1261	1271	1286	1289	1286	1271	1261	1271	1261	1271	1286	1289	1286	1271
	20	1218	1212	1232	1255	1262	1255	1232	1212	1218	1212	1232	1255	1262	1255	1232
	25	1152	1151	1181	1215	1227	1215	1181	1151	1152	1151	1181	1215	1227	1215	1181
	30	1075	1080	1121	1166	1183	1166	1121	1080	1075	1080	1121	1166	1183	1166	1121
	35	989	1000	1053	1110	1132	1110	1053	1000	989	1000	1053	1110	1132	1110	1053
	40	897	914	979	1048	1076	1048	979	914	897	914	979	1048	1076	1048	979
	45	802	823	898	981	1015	981	898	823	802	823	898	981	1015	981	898
	50	704	729	813	909	948	909	813	729	704	729	813	909	948	909	813
	55	604	632	727	832	874	832	727	632	604	632	727	832	874	832	727
	60	505	537	639	748	793	748	639	537	505	537	639	748	793	748	639
	65	406	441	549	658	704	658	549	441	406	441	549	658	704	658	549
	70	309	350	456	562	610	562	456	350	309	350	456	562	610	562	456
	75	218	261	358	459	509	459	358	261	218	261	358	459	509	459	358
	80	134	173	256	345	389	345	256	173	134	173	256	345	389	345	256
	85	59	82	134	194	226	194	134	82	59	82	134	194	226	194	134
	90	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
	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	3883	3883
	45	3324	4207
	55	3086	4466
	65	2815	4882
	75	2466	5763
	85	1991	7595



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	4901	4901	4901	4901	4787	4787	4787	4787	4574	4574	4574	4379	4379	4379	4200	4200	4200	4116
1	4428	4210	4015	3839	4313	4115	3937	3776	3938	3791	3656	3775	3654	3543	3624	3527	3436	3347
2	4002	3635	3332	3077	3890	3556	3277	3040	3407	3171	2968	3270	3072	2899	3142	2979	2833	2739
3	3633	3172	2815	2530	3527	3105	2774	2507	2980	2695	2461	2864	2621	2416	2756	2550	2374	2279
4	3317	2798	2418	2127	3220	2742	2387	2112	2636	2327	2081	2538	2269	2052	2447	2215	2023	1929
5	3045	2493	2107	1821	2956	2446	2082	1811	2356	2036	1790	2273	1991	1769	2195	1948	1749	1658
6	2809	2240	1858	1583	2728	2200	1838	1576	2124	1801	1561	2053	1766	1546	1987	1731	1532	1444
7	2602	2028	1655	1394	2529	1993	1640	1388	1929	1610	1377	1868	1581	1366	1811	1553	1356	1271
8	2421	1848	1488	1240	2355	1819	1475	1236	1763	1451	1228	1711	1427	1220	1662	1404	1211	1131
9	2261	1695	1348	1114	2202	1670	1338	1111	1622	1317	1104	1577	1298	1098	1534	1279	1092	1014
10	2120	1563	1230	1008	2066	1541	1221	1006	1500	1204	1001	1460	1188	996	1423	1172	991	917

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	82.8	5.04
6.00	36.8	7.56
8.00	20.7	10.1
10.0	13.3	12.6
12.0	9.20	15.1
14.0	6.76	17.6
16.0	5.18	20.2

Cone of Light Plot

