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Indoor Distribution Test Report

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

Prepared For
Mercury Lighting
Stephen Bambush
20 Audrey Pl
Fairfield, NJ 07004-3416

Catalog Number
LR10-14G-5000-35K-U55-UNI-XXXX
Order Number
10742397
Test Number
1020029

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

Luminaire



Luminaire Characteristics

Luminous Length: 47.00 in.
Luminous Width: 11.00 in.

Summary of Results

Total Luminaire Output:	5164 Lumens
Luminaire Efficacy:	97.9 lm/w
Maximum Candela:	1843 Candela

Electrical Data

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.4400 A
Power:	52.75 W
Power Factor:	0.998
Frequency:	60 Hz
Current THD:	4.64 %

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
24.9 °C	120.0 VAC	0.4400 A	52.75 W	0.998	60 Hz	4.64 %

Summary of Results

Spacing Criteria

0-180: 1.19

90-270: 1.28

Total Lumen Output:

5164 Lumens

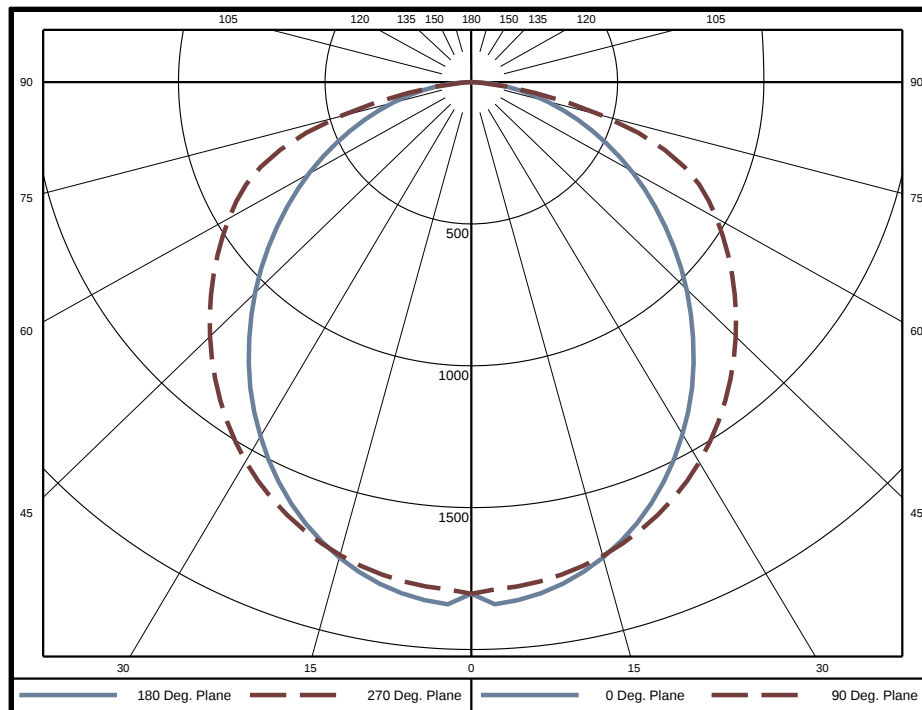
Luminaire Efficacy:

97.9 lm/w

Maximum Candela:

1843 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	45.7	0.9%	60-65	362.1	7.0%	120-125	0.0	0.0%
5-10	127.2	2.5%	65-70	316.9	6.1%	125-130	0.0	0.0%
10-15	206.5	4.0%	70-75	255.5	4.9%	130-135	0.0	0.0%
15-20	277.8	5.4%	75-80	173.1	3.4%	135-140	0.0	0.0%
20-25	338.6	6.6%	80-85	82.5	1.6%	140-145	0.0	0.0%
25-30	387.0	7.5%	85-90	15.7	0.3%	145-150	0.0	0.0%
30-35	421.7	8.2%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	441.9	8.6%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	448.3	8.7%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	442.0	8.6%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	424.4	8.2%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	397.5	7.7%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	2246.3	43.5%
0-60	3958.6	76.7%
0-90	5164.4	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	1804	1804	1804	1804	1804	1804	1804	1804	1804	1804	1804	1804	1804	1804	1804
	5	1833	1799	1782	1785	1785	1785	1782	1799	1833	1799	1782	1785	1785	1785	1782
	10	1796	1766	1754	1762	1763	1762	1754	1766	1796	1766	1754	1762	1763	1762	1754
	15	1736	1711	1708	1723	1728	1723	1708	1711	1736	1711	1708	1723	1728	1723	1708
	20	1655	1636	1646	1671	1680	1671	1646	1636	1655	1636	1646	1671	1680	1671	1646
	25	1555	1544	1568	1606	1620	1606	1568	1544	1555	1544	1568	1606	1620	1606	1568
	30	1440	1438	1479	1528	1547	1528	1479	1438	1440	1438	1479	1528	1547	1528	1479
	35	1315	1322	1379	1438	1461	1438	1379	1322	1315	1322	1379	1438	1461	1438	1379
	40	1179	1198	1270	1339	1367	1339	1270	1198	1179	1198	1270	1339	1367	1339	1270
	45	1042	1072	1155	1234	1268	1234	1155	1072	1042	1072	1155	1234	1268	1234	1155
	50	904	946	1036	1127	1166	1127	1036	946	904	946	1036	1127	1166	1127	1036
	55	768	822	917	1020	1063	1020	917	822	768	822	917	1020	1063	1020	917
	60	637	700	801	913	960	913	801	700	637	700	801	913	960	913	801
	65	508	577	687	807	852	807	687	577	508	577	687	807	852	807	687
	70	387	459	577	673	697	673	577	459	387	459	577	673	697	673	577
	75	273	346	451	477	469	477	451	346	273	346	451	477	469	477	451
	80	170	239	271	238	220	238	271	239	170	239	271	238	220	238	271
	85	77	106	75	46	40	46	75	106	77	106	75	46	40	46	75
	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	5408	5408
	45	4420	4897
	55	4012	4793
	65	3605	4877
	75	3167	5229
	85	2656	2565



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	6152	6152	6152	6152	6009	6009	6009	6009	5741	5741	5741	5497	5497	5497	5273	5273	5273	5167
1	5602	5347	5119	4914	5460	5229	5022	4833	5009	4837	4680	4806	4666	4536	4619	4506	4401	4291
2	5078	4639	4275	3970	4940	4540	4206	3922	4355	4073	3829	4184	3949	3741	4027	3831	3657	3543
3	4619	4059	3626	3281	4488	3977	3575	3251	3821	3476	3192	3677	3383	3136	3543	3294	3081	2966
4	4223	3589	3124	2770	4102	3519	3085	2750	3388	3010	2711	3266	2938	2673	3153	2870	2636	2522
5	3880	3202	2729	2379	3770	3144	2698	2365	3033	2640	2339	2929	2584	2312	2833	2530	2287	2175
6	3582	2881	2411	2073	3481	2831	2387	2064	2737	2340	2045	2649	2296	2026	2567	2253	2007	1899
7	3320	2611	2152	1830	3230	2569	2132	1822	2488	2095	1808	2413	2059	1795	2342	2024	1781	1677
8	3091	2383	1937	1631	3009	2346	1921	1626	2277	1891	1615	2212	1861	1605	2151	1833	1595	1495
9	2888	2187	1758	1468	2814	2156	1745	1463	2096	1719	1455	2040	1695	1447	1987	1671	1439	1344
10	2708	2018	1605	1331	2641	1991	1595	1327	1939	1573	1321	1890	1553	1315	1844	1533	1308	1217

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	113	4.90
6.00	50.1	7.35
8.00	28.2	9.81
10.0	18.0	12.3
12.0	12.5	14.7
14.0	9.20	17.2
16.0	7.05	19.6

Cone of Light Plot

