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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
LR15-24G-5000-35K-U55-UNI-XXXX
Order Number
10761618
Test Number
1105070

Test Date

2015-06-11

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: 22.75 in.

Summary of Results

Total Luminaire Output: 4843 Lumens
Luminaire Efficacy: 93 lm/w
Maximum Candela: 1551 Candela

Electrical Data

Test Temperature: 25.4 °C
Voltage: 120.0 VAC
Current: 0.4345 A
Power: 52.07 W
Power Factor: 0.999
Frequency: 60 Hz
Current THD: 4.58 %

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
25.4 °C	120.0 VAC	0.4345 A	52.07 W	0.999	60 Hz	4.58 %

Summary of Results

Spacing Criteria

0-180: 1.20

90-270: 1.20

Total Lumen Output:

4843 Lumens

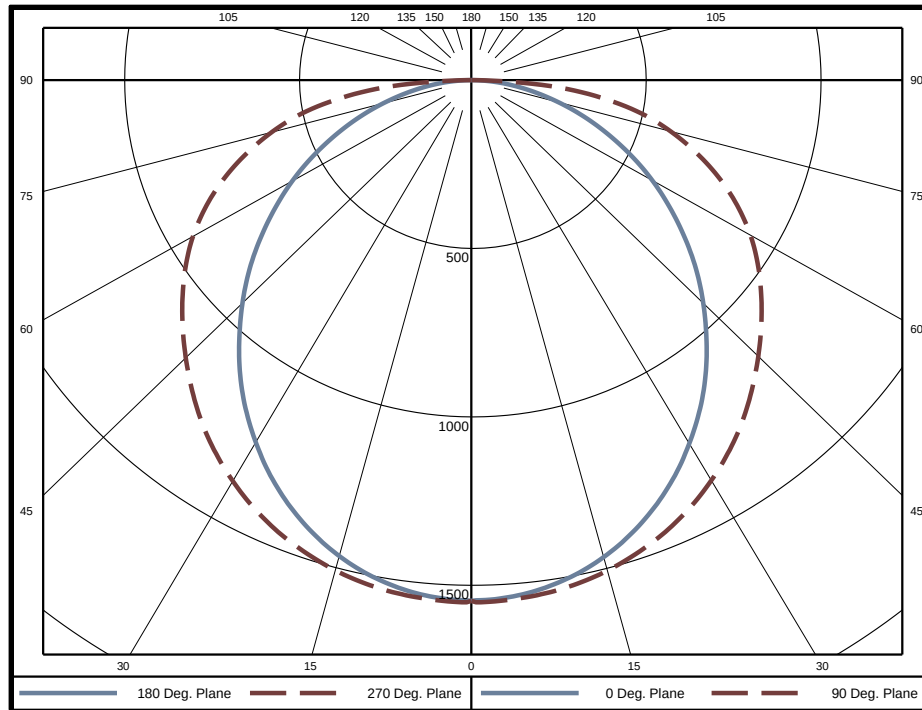
Luminaire Efficacy:

93.0 lm/w

Maximum Candela:

1551 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	36.9	0.8%	60-65	344.0	7.1%	120-125	0	0.0%
5-10	109.4	2.3%	65-70	305.5	6.3%	125-130	0	0.0%
10-15	178.3	3.7%	70-75	258.0	5.3%	130-135	0	0.0%
15-20	241.1	5.0%	75-80	202.6	4.2%	135-140	0	0.0%
20-25	295.9	6.1%	80-85	134.9	2.8%	140-145	0	0.0%
25-30	340.6	7.0%	85-90	46.2	1.0%	145-150	0	0.0%
30-35	374.4	7.7%	90-95	0	0.0%	150-155	0	0.0%
35-40	396.4	8.2%	95-100	0	0.0%	155-160	0	0.0%
40-45	406.3	8.4%	100-105	0	0.0%	160-165	0	0.0%
45-50	405.2	8.4%	105-110	0	0.0%	165-170	0	0.0%
50-55	393.8	8.1%	110-115	0	0.0%	170-175	0	0.0%
55-60	373.3	7.7%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1973	40.7%
0-60	3552	73.3%
0-90	4843	100.0%
90-180	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	1547	1547	1547	1547	1547	1547	1547	1547	1547	1547	1547	1547	1547	1547	1547
	5	1536	1540	1539	1540	1545	1540	1539	1540	1536	1540	1539	1540	1545	1540	1539
	10	1510	1514	1519	1524	1532	1524	1519	1514	1510	1514	1519	1524	1532	1524	1519
	15	1467	1475	1485	1497	1508	1497	1485	1475	1467	1475	1485	1497	1508	1497	1485
	20	1408	1420	1439	1459	1473	1459	1439	1420	1408	1420	1439	1459	1473	1459	1439
	25	1335	1350	1381	1411	1429	1411	1381	1350	1335	1350	1381	1411	1429	1411	1381
	30	1250	1269	1311	1352	1374	1352	1311	1269	1250	1269	1311	1352	1374	1352	1311
	35	1156	1177	1232	1285	1311	1285	1232	1177	1156	1177	1232	1285	1311	1285	1232
	40	1052	1078	1145	1208	1239	1208	1145	1078	1052	1078	1145	1208	1239	1208	1145
	45	943	974	1051	1127	1163	1127	1051	974	943	974	1051	1127	1163	1127	1051
	50	832	866	953	1043	1086	1043	953	866	832	866	953	1043	1086	1043	953
	55	717	755	851	960	1008	960	851	755	717	755	851	960	1008	960	851
	60	604	643	752	875	924	875	752	643	604	643	752	875	924	875	752
	65	488	532	657	780	827	780	657	532	488	532	657	780	827	780	657
	70	374	425	558	671	716	671	558	425	374	425	558	671	716	671	558
	75	265	324	446	549	593	549	446	324	265	324	446	549	593	549	446
	80	165	226	325	413	449	413	325	226	165	226	325	413	449	413	325
	85	77	120	180	232	254	232	180	120	77	120	180	232	254	232	180
	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	2242	2242
	45	1933	2384
	55	1813	2548
	65	1672	2837
	75	1484	3322
	85	1281	2988



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	5765	5765	5765	5765	5631	5631	5631	5631	5381	5381	5381	5152	5152	5152	4942	4942	4942	4843
1	5202	4942	4710	4500	5066	4831	4618	4426	4621	4446	4285	4429	4285	4152	4252	4136	4028	3922
2	4698	4263	3903	3601	4565	4169	3838	3557	3994	3714	3472	3832	3597	3391	3682	3487	3314	3203
3	4263	3717	3294	2957	4138	3638	3246	2929	3490	3153	2875	3354	3066	2824	3227	2983	2774	2662
4	3892	3277	2828	2484	3776	3211	2791	2466	3087	2720	2430	2971	2653	2395	2863	2589	2362	2251
5	3572	2919	2463	2126	3467	2864	2434	2113	2758	2379	2089	2660	2327	2065	2569	2276	2041	1934
6	3295	2622	2171	1847	3199	2575	2149	1839	2486	2105	1821	2402	2063	1804	2324	2023	1787	1683
7	3052	2374	1934	1626	2966	2334	1916	1619	2257	1881	1607	2186	1847	1594	2119	1814	1581	1482
8	2840	2164	1739	1447	2762	2129	1724	1442	2064	1695	1432	2002	1667	1422	1944	1640	1413	1317
9	2652	1984	1575	1299	2582	1955	1563	1295	1898	1539	1288	1845	1516	1280	1795	1494	1273	1182
10	2486	1830	1437	1176	2423	1804	1427	1173	1755	1407	1167	1709	1388	1161	1665	1369	1155	1069

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	96.7	5.04
6.00	43.0	7.56
8.00	24.2	10.1
10.0	15.5	12.6
12.0	10.7	15.1
14.0	7.89	17.6
16.0	6.04	20.2

Cone of Light Plot

