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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
LR25-22G-2600-35K-U30-UNI-XXXX

Order Number
10740370
Test Number
1020064

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: 56 white LEDs
Mounting: Recessed
Ballast/Driver: One Universal Everline D10CC30UNVTZ-C (@1050mA)

Luminaire



Luminaire Characteristics

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

Summary of Results

Total Luminaire Output:	2478 Lumens
Luminaire Efficacy:	91.6 lm/w
Maximum Candela:	830 Candela

Electrical Data

Test Temperature:	24.2 °C
Voltage:	120.1 VAC
Current:	0.2261 A
Power:	27.05 W
Power Factor:	0.996
Frequency:	60 Hz
Current THD:	5.89 %

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
24.2 °C	120.1 VAC	0.2261 A	27.05 W	0.996	60 Hz	5.89 %

Summary of Results

Spacing Criteria

0-180: 1.21

90-270: 1.32

Total Lumen Output:

2478 Lumens

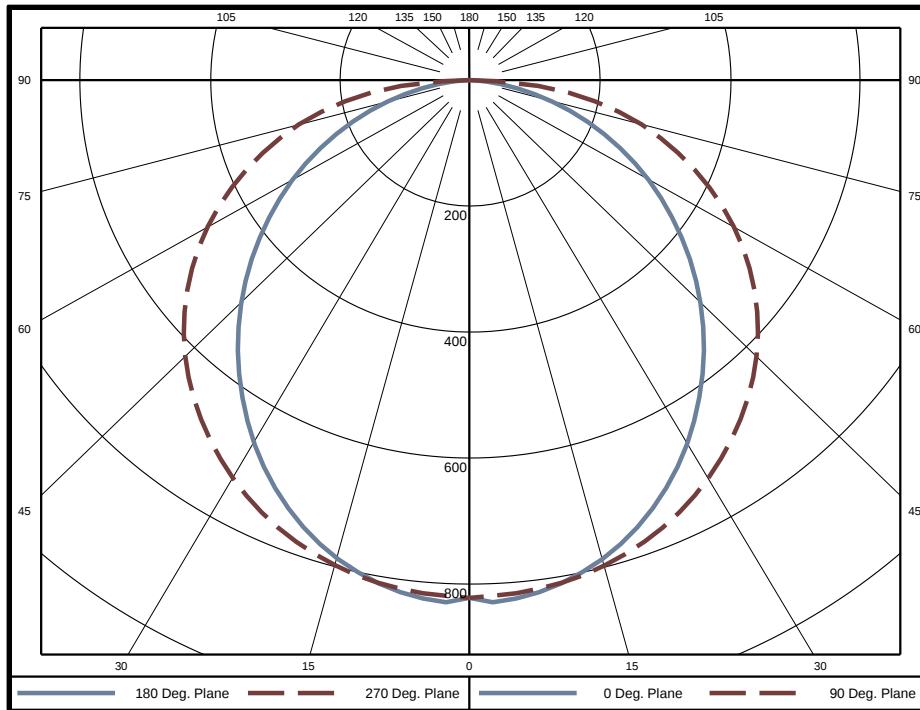
Luminaire Efficacy:

91.6 lm/w

Maximum Candela:

830 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	20.8	0.8%	60-65	173.8	7.0%	120-125	0.0	0.0%
5-10	58.1	2.3%	65-70	149.0	6.0%	125-130	0.0	0.0%
10-15	94.7	3.8%	70-75	120.1	4.8%	130-135	0.0	0.0%
15-20	128.0	5.2%	75-80	87.8	3.5%	135-140	0.0	0.0%
20-25	157.0	6.3%	80-85	52.7	2.1%	140-145	0.0	0.0%
25-30	180.7	7.3%	85-90	15.5	0.6%	145-150	0.0	0.0%
30-35	198.6	8.0%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	210.3	8.5%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	215.7	8.7%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	214.6	8.7%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	206.9	8.4%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	193.3	7.8%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	1048.1	42.3%
0-60	1878.7	75.8%
0-90	2477.5	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	822	822	822	822	822	822	822	822	822	822	822	822	822	822	822
	5	826	817	817	818	818	818	817	817	826	817	817	818	818	818	817
	10	812	804	806	810	810	810	806	804	812	804	806	810	810	810	806
	15	788	782	787	795	797	795	787	782	788	782	787	795	797	795	787
	20	755	752	763	776	780	776	763	752	755	752	763	776	780	776	763
	25	715	715	732	751	757	751	732	715	715	715	732	751	757	751	732
	30	668	671	695	720	729	720	695	671	668	671	695	720	729	720	695
	35	615	622	653	684	696	684	653	622	615	622	653	684	696	684	653
	40	560	570	607	644	660	644	607	570	560	570	607	644	660	644	607
	45	502	515	557	601	619	601	557	515	502	515	557	601	619	601	557
	50	442	457	503	552	572	552	503	457	442	457	503	552	572	552	503
	55	380	396	446	499	521	499	446	396	380	396	446	499	521	499	446
	60	319	335	387	442	465	442	387	335	319	335	387	442	465	442	387
	65	256	273	324	380	403	380	324	273	256	273	324	380	403	380	324
	70	193	210	260	314	338	314	260	210	193	210	260	314	338	314	260
	75	132	149	194	246	272	246	194	149	132	149	194	246	272	246	194
	80	74	89	128	172	194	172	128	89	74	89	128	172	194	172	128
	85	27	36	60	89	105	89	60	36	27	36	60	89	105	89	60
	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	2409	2409
	45	2081	2307
	55	1941	2277
	65	1772	2249
	75	1492	2192
	85	902	2022



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	2951	2951	2951	2951	2882	2882	2882	2882	2754	2754	2754	2637	2637	2637	2529	2529	2529	2479
1	2678	2552	2439	2337	2609	2495	2392	2299	2389	2304	2226	2291	2222	2157	2201	2145	2093	2040
2	2425	2210	2033	1883	2358	2163	1999	1860	2074	1936	1816	1991	1876	1774	1915	1820	1734	1679
3	2204	1932	1721	1553	2141	1892	1697	1539	1817	1649	1511	1748	1604	1484	1683	1562	1458	1402
4	2014	1706	1481	1308	1956	1673	1462	1299	1609	1426	1280	1551	1391	1262	1496	1359	1245	1189
5	1849	1521	1291	1122	1796	1493	1277	1115	1439	1249	1103	1389	1222	1090	1343	1196	1078	1024
6	1706	1367	1139	976	1658	1343	1128	971	1298	1105	962	1255	1084	953	1215	1063	945	892
7	1581	1238	1015	860	1537	1217	1006	856	1178	988	850	1142	971	843	1108	954	836	786
8	1471	1128	913	765	1431	1111	906	763	1078	891	758	1046	877	753	1017	863	748	699
9	1374	1035	827	687	1338	1020	821	685	991	809	682	964	797	678	938	786	674	628
10	1288	954	755	622	1255	941	750	621	916	740	618	893	730	615	870	720	612	568

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	51.4	5.04
6.00	22.8	7.55
8.00	12.8	10.1
10.0	8.22	12.6
12.0	5.71	15.1
14.0	4.19	17.6
16.0	3.21	20.1

Cone of Light Plot

