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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
United States

Catalog Number
LR2T-22G-5200-35K-U55-UNI-XXXX

Order Number
11163500
Test Number
1213220

Test Date

2016-02-24

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

Luminaire



Luminaire Characteristics

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

Summary of Results

Total Luminaire Output:	5266 Lumens
Luminaire Efficacy:	101.7 lm/w
Maximum Candela:	1953 Candela

Electrical Data

Test Temperature:	25.1 °C
Voltage:	120.0 VAC
Current:	0.4325 A
Power:	51.80 W
Power Factor:	0.998
Frequency:	60 Hz
Current THD:	5.34 %

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
25.1 °C	120.0 VAC	0.4325 A	51.80 W	0.998	60 Hz	5.34 %

Summary of Results

Spacing Criteria

0-180: 1.16
90-270: 1.16

Total Lumen Output:

5266 Lumens

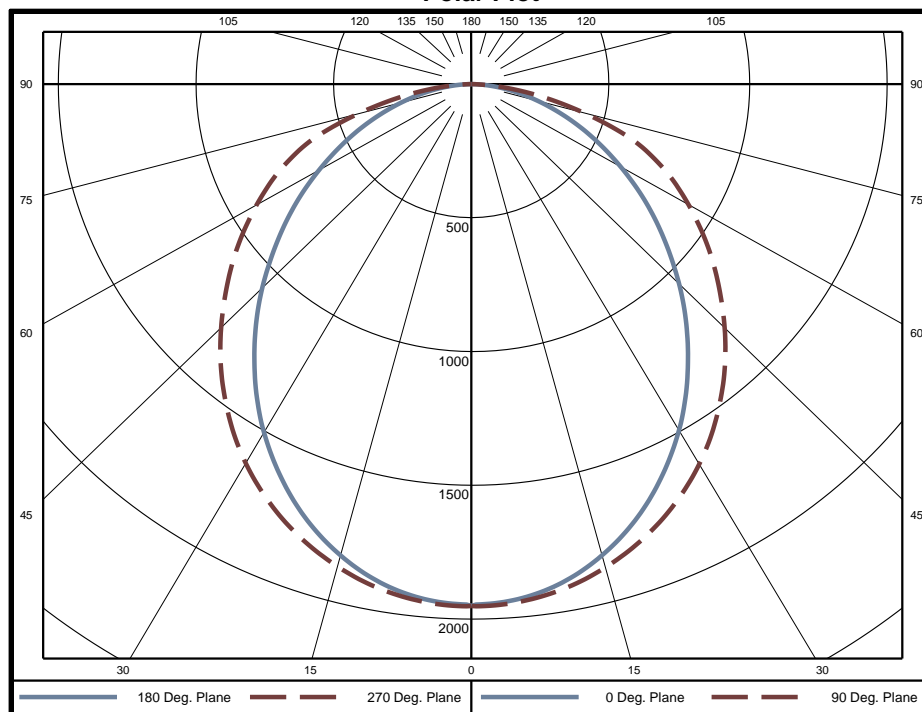
Luminaire Efficacy:

101.7 lm/w

Maximum Candela:

1953 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	46.5	0.9%	60-65	347.3	6.6%	120-125	0	0.0%
5-10	137.6	2.6%	65-70	295.8	5.6%	125-130	0	0.0%
10-15	222.9	4.2%	70-75	233.2	4.4%	130-135	0	0.0%
15-20	298.7	5.7%	75-80	158.7	3.0%	135-140	0	0.0%
20-25	362.6	6.9%	80-85	84.2	1.6%	140-145	0	0.0%
25-30	412.2	7.8%	85-90	19.7	0.4%	145-150	0	0.0%
30-35	446.2	8.5%	90-95	0	0.0%	150-155	0	0.0%
35-40	463.7	8.8%	95-100	0	0.0%	155-160	0	0.0%
40-45	465.3	8.8%	100-105	0	0.0%	160-165	0	0.0%
45-50	452.5	8.6%	105-110	0	0.0%	165-170	0	0.0%
50-55	427.6	8.1%	110-115	0	0.0%	170-175	0	0.0%
55-60	391.7	7.4%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2390	45.4%
0-60	4128	78.4%
0-90	5266	100.0%
90-180	0	0.0%



Candela Tabulation
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	Horizontal 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	1951	1951	1951	1951	1951	1951	1951	1951	1951	1951	1951	1951	1951	1951	1951	1951
5	1933	1941	1941	1940	1944	1940	1941	1941	1933	1941	1941	1940	1944	1940	1941	1941
10	1893	1903	1908	1911	1916	1911	1908	1903	1893	1903	1908	1911	1916	1911	1908	1903
15	1826	1839	1851	1863	1870	1863	1851	1839	1826	1839	1851	1863	1870	1863	1851	1839
20	1737	1753	1776	1798	1809	1798	1776	1753	1737	1753	1776	1798	1809	1798	1776	1753
25	1627	1649	1684	1718	1733	1718	1684	1649	1627	1649	1684	1718	1733	1718	1684	1649
30	1503	1528	1577	1623	1642	1623	1577	1528	1503	1528	1577	1623	1642	1623	1577	1528
35	1365	1396	1460	1514	1536	1514	1460	1396	1365	1396	1460	1514	1536	1514	1460	1396
40	1219	1256	1332	1394	1418	1394	1332	1256	1219	1256	1332	1394	1418	1394	1332	1256
45	1070	1113	1198	1265	1292	1265	1198	1113	1070	1113	1198	1265	1292	1265	1198	1113
50	919	972	1061	1134	1162	1134	1061	972	919	972	1061	1134	1162	1134	1061	972
55	775	833	922	1003	1035	1003	922	833	775	833	922	1003	1035	1003	922	833
60	633	695	786	872	906	872	786	695	633	695	786	872	906	872	786	695
65	499	561	656	745	776	745	656	561	499	561	656	745	776	745	656	561
70	374	435	531	606	629	606	531	435	374	435	531	606	629	606	531	435
75	259	315	400	428	427	428	400	315	259	315	400	428	427	428	400	315
80	158	205	244	245	242	245	244	205	158	205	244	245	242	245	244	205
85	68	90	96	93	91	93	96	90	68	90	96	93	91	93	96	90
90	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
95	0	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	0
105	0	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	0
115	0	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	0
125	0	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	0
135	0	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	0
145	0	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	0
155	0	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	0
165	0	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	0
175	0	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	0

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	Horizontal Angle (Degrees)		
	0	45	90
0	5717	5717	5717
45	4433	4965	5352
55	3960	4711	5286
65	3462	4545	5382
75	2931	4532	4834
85	2274	3243	3044



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	6269	6269	6269	6269	6124	6124	6124	6124	5852	5852	5852	5603	5603	5603	5374	5374	5374	5266
1	5721	5467	5239	5033	5577	5347	5139	4951	5122	4951	4794	4916	4776	4647	4726	4614	4509	4398
2	5200	4762	4399	4094	5061	4662	4328	4045	4474	4193	3950	4301	4066	3860	4141	3947	3773	3659
3	4740	4181	3749	3404	4609	4098	3696	3373	3940	3596	3313	3794	3501	3254	3659	3411	3198	3082
4	4341	3707	3242	2887	4220	3636	3202	2866	3503	3125	2826	3380	3052	2787	3265	2983	2749	2634
5	3995	3315	2840	2489	3883	3255	2809	2475	3143	2749	2447	3039	2692	2420	2941	2638	2394	2281
6	3691	2987	2515	2176	3590	2937	2491	2166	2842	2443	2146	2752	2398	2127	2669	2354	2108	1999
7	3424	2711	2249	1925	3333	2668	2229	1917	2587	2191	1903	2510	2154	1889	2439	2119	1875	1770
8	3190	2476	2028	1720	3107	2440	2012	1714	2370	1981	1703	2304	1951	1693	2242	1922	1682	1581
9	2982	2275	1842	1550	2907	2243	1829	1546	2183	1803	1537	2126	1778	1529	2072	1754	1521	1424
10	2797	2101	1685	1407	2730	2074	1674	1404	2021	1652	1398	1972	1631	1391	1925	1611	1385	1292

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	122	4.82
6.00	54.2	7.22
8.00	30.5	9.63
10.0	19.5	12.0
12.0	13.5	14.4
14.0	9.95	16.9
16.0	7.62	19.3

Cone of Light Plot

