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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
LR5T-24G-6000-35K-U55-UNI-XXXX

Order Number
11163500
Test Number
1213227

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: 128 white LEDs
Mounting: Recessed
Ballast/Driver: One Universal Everline D15CC55UNVTZ-C

Luminaire



Luminaire Characteristics

Luminous Length: 47.00 in.
Luminous Width: 23.00 in.

Summary of Results

Total Luminaire Output: 5690 Lumens
Luminaire Efficacy: 97.5 lm/w
Maximum Candela: 2025 Candela

Electrical Data

Test Temperature: 24.3 °C
Voltage: 120.0 VAC
Current: 0.4869 A
Power: 58.34 W
Power Factor: 0.999
Frequency: 60 Hz
Current THD: 4.34 %

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



Distribution - Goniophotometer

Distribution Test Conditions

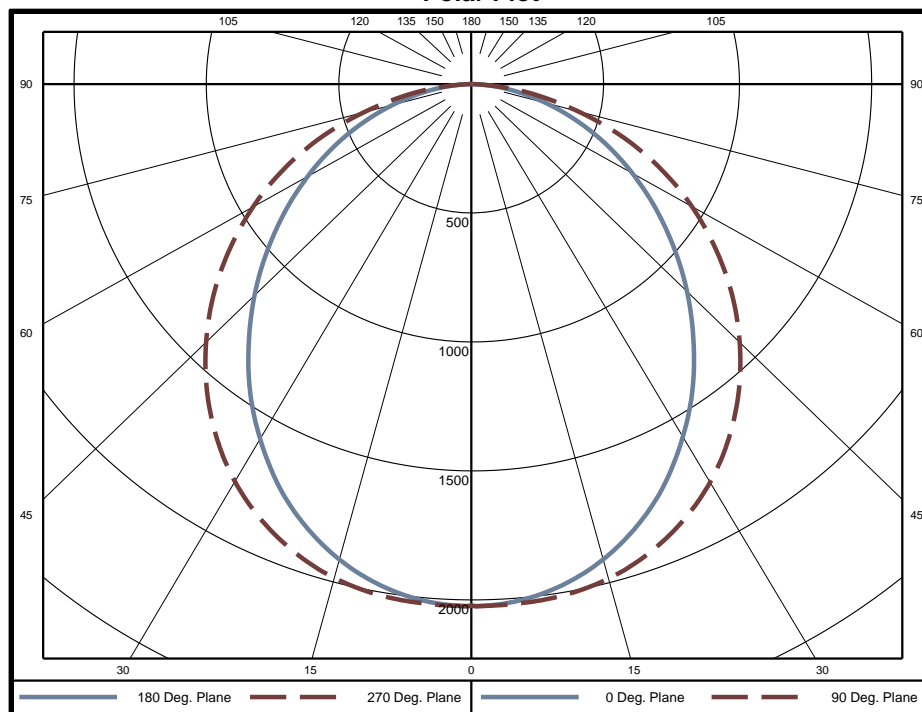
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.3 °C	120.0 VAC	0.4869 A	58.34 W	0.999	60 Hz	4.34 %

Summary of Results

Spacing Criteria
 0-180: 1.17
 90-270: 1.17

Total Lumen Output: 5690 Lumens
Luminaire Efficacy: 97.5 lm/w
Maximum Candela: 2025 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	48.3	0.8%	60-65	379.4	6.7%	120-125	0	0.0%
5-10	143.3	2.5%	65-70	317.6	5.6%	125-130	0	0.0%
10-15	233.7	4.1%	70-75	245.2	4.3%	130-135	0	0.0%
15-20	315.8	5.6%	75-80	167.4	2.9%	135-140	0	0.0%
20-25	386.3	6.8%	80-85	90.9	1.6%	140-145	0	0.0%
25-30	442.5	7.8%	85-90	21.7	0.4%	145-150	0	0.0%
30-35	482.3	8.5%	90-95	0	0.0%	150-155	0	0.0%
35-40	504.7	8.9%	95-100	0	0.0%	155-160	0	0.0%
40-45	509.6	9.0%	100-105	0	0.0%	160-165	0	0.0%
45-50	498.3	8.8%	105-110	0	0.0%	165-170	0	0.0%
50-55	471.6	8.3%	110-115	0	0.0%	170-175	0	0.0%
55-60	431.1	7.6%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2557	44.9%
0-60	4468	78.5%
0-90	5690	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	2022	2022	2022	2022	2022	2022	2022	2022	2022	2022	2022	2022	2022	2022	2022	2022
	5	2011	2009	2014	2019	2021	2019	2014	2009	2011	2009	2014	2019	2021	2019	2014	2009
	10	1973	1975	1991	2005	2011	2005	1991	1975	1973	1975	1991	2005	2011	2005	1991	1975
	15	1909	1920	1950	1974	1984	1974	1950	1920	1909	1920	1950	1974	1984	1974	1950	1920
	20	1822	1843	1889	1923	1936	1923	1889	1843	1822	1843	1889	1923	1936	1923	1889	1843
	25	1715	1748	1807	1851	1868	1851	1807	1748	1715	1748	1807	1851	1868	1851	1807	1748
	30	1586	1633	1708	1762	1782	1762	1708	1633	1586	1633	1708	1762	1782	1762	1708	1633
	35	1449	1506	1592	1653	1675	1653	1592	1506	1449	1506	1592	1653	1675	1653	1592	1506
	40	1299	1368	1464	1529	1552	1529	1464	1368	1299	1368	1464	1529	1552	1529	1464	1368
	45	1149	1225	1325	1393	1415	1393	1325	1225	1149	1225	1325	1393	1415	1393	1325	1225
	50	998	1080	1181	1247	1269	1247	1181	1080	998	1080	1181	1247	1269	1247	1181	1080
	55	850	933	1031	1094	1112	1094	1031	933	850	933	1031	1094	1112	1094	1031	933
	60	705	786	879	935	951	935	879	786	705	786	879	935	951	935	879	786
	65	566	645	729	773	781	773	729	645	566	645	729	773	781	773	729	645
	70	429	503	576	601	603	601	576	503	429	503	576	601	603	601	576	503
	75	299	366	415	421	417	421	415	366	299	366	415	421	417	421	415	366
80	181	234	253	252	250	252	253	234	181	234	253	252	250	252	253	234	
85	78	104	102	96	94	96	102	104	78	104	102	96	94	96	102	104	
90	0	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	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)	0	45	90	
	0	2900	2900	2900
	45	2330	2687	2870
	55	2124	2578	2780
	65	1919	2472	2648
	75	1654	2299	2309
	85	1282	1672	1541



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	6773	6773	6773	6773	6616	6616	6616	6616	6322	6322	6322	6053	6053	6053	5806	5806	5806	5690
1	6181	5906	5660	5438	6025	5777	5552	5349	5534	5349	5179	5311	5160	5020	5106	4984	4871	4751
2	5617	5143	4751	4421	5466	5035	4674	4368	4832	4528	4265	4645	4391	4168	4472	4262	4074	3950
3	5118	4513	4045	3672	4976	4423	3989	3639	4252	3880	3573	4095	3777	3510	3948	3680	3450	3324
4	4685	3998	3495	3110	4554	3922	3452	3088	3778	3369	3045	3645	3290	3003	3521	3215	2962	2837
5	4309	3572	3058	2678	4188	3508	3024	2663	3387	2960	2633	3274	2898	2604	3168	2839	2575	2453
6	3979	3217	2705	2338	3870	3162	2679	2327	3059	2627	2306	2963	2578	2285	2872	2531	2264	2146
7	3690	2917	2416	2065	3591	2871	2395	2057	2782	2354	2041	2700	2314	2026	2622	2276	2011	1897
8	3435	2662	2176	1842	3346	2623	2159	1837	2547	2125	1825	2476	2093	1813	2409	2061	1802	1693
9	3210	2444	1975	1658	3129	2410	1961	1654	2344	1933	1645	2283	1906	1636	2225	1880	1627	1523
10	3010	2256	1804	1504	2937	2226	1793	1500	2169	1769	1493	2116	1747	1486	2065	1725	1479	1380

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	126	4.98
6.00	56.2	7.47
8.00	31.6	9.97
10.0	20.2	12.5
12.0	14.0	14.9
14.0	10.3	17.4
16.0	7.90	19.9

Cone of Light Plot

