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

Order Number
11163500
Test Number
1213226

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: 5767 Lumens
Luminaire Efficacy: 98.9 lm/w
Maximum Candela: 2088 Candela

Electrical Data

Test Temperature: 24.8 °C
Voltage: 120.0 VAC
Current: 0.4868 A
Power: 58.33 W
Power Factor: 0.999
Frequency: 60 Hz
Current THD: 4.31 %

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
24.8 °C	120.0 VAC	0.4868 A	58.33 W	0.999	60 Hz	4.31 %

Summary of Results

Spacing Criteria

0-180: 1.18

90-270: 1.18

Total Lumen Output:

5767 Lumens

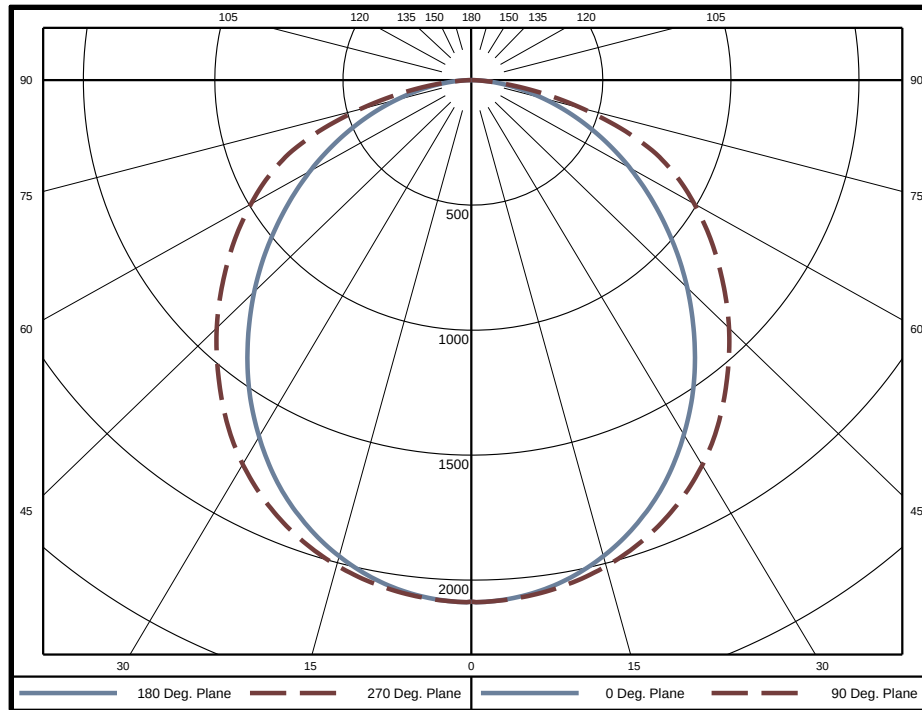
Luminaire Efficacy:

98.9 lm/w

Maximum Candela:

2088 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	49.7	0.9%	60-65	387.5	6.7%	120-125	0	0.0%
5-10	147.3	2.6%	65-70	331.1	5.7%	125-130	0	0.0%
10-15	239.2	4.1%	70-75	259.1	4.5%	130-135	0	0.0%
15-20	322.0	5.6%	75-80	174.9	3.0%	135-140	0	0.0%
20-25	392.3	6.8%	80-85	90.8	1.6%	140-145	0	0.0%
25-30	447.6	7.8%	85-90	20.6	0.4%	145-150	0	0.0%
30-35	485.9	8.4%	90-95	0	0.0%	150-155	0	0.0%
35-40	506.2	8.8%	95-100	0	0.0%	155-160	0	0.0%
40-45	509.4	8.8%	100-105	0	0.0%	160-165	0	0.0%
45-50	497.3	8.6%	105-110	0	0.0%	165-170	0	0.0%
50-55	471.5	8.2%	110-115	0	0.0%	170-175	0	0.0%
55-60	434.1	7.5%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2590	44.9%
0-60	4503	78.1%
0-90	5767	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	2086	2086	2086	2086	2086	2086	2086	2086	2086	2086	2086	2086	2086	2086	2086
	5	2075	2072	2074	2077	2079	2077	2074	2072	2075	2072	2074	2077	2079	2077	2074
	10	2037	2035	2042	2049	2053	2049	2042	2035	2037	2035	2042	2049	2053	2049	2042
	15	1972	1974	1990	2005	2012	2005	1990	1974	1972	1974	1990	2005	2012	2005	1990
	20	1885	1890	1917	1941	1952	1941	1917	1890	1885	1890	1917	1941	1952	1941	1917
	25	1776	1785	1825	1860	1874	1860	1825	1785	1776	1785	1825	1860	1874	1860	1825
	30	1644	1663	1716	1761	1779	1761	1716	1663	1644	1663	1716	1761	1779	1761	1716
	35	1501	1526	1593	1645	1664	1645	1593	1526	1501	1526	1593	1645	1664	1645	1593
	40	1345	1382	1458	1514	1535	1514	1458	1382	1345	1382	1458	1514	1535	1514	1458
	45	1187	1232	1314	1378	1404	1378	1314	1232	1187	1232	1314	1378	1404	1378	1314
	50	1026	1082	1167	1238	1266	1238	1167	1082	1026	1082	1167	1238	1266	1238	1167
	55	867	932	1019	1099	1130	1099	1019	932	867	932	1019	1099	1130	1099	1019
	60	715	782	875	960	992	960	875	782	715	782	875	960	992	960	875
	65	568	639	737	823	850	823	737	639	568	639	737	823	850	823	737
	70	428	498	602	664	669	664	602	498	428	498	602	664	669	664	602
	75	296	365	450	458	449	458	450	365	296	365	450	458	449	458	450
	80	179	241	269	257	245	257	269	241	179	241	269	257	245	257	269
	85	79	105	100	88	81	88	100	105	79	105	100	88	81	88	100
	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	2991	2991
	45	2407	2846
	55	2168	2825
	65	1929	2883
	75	1639	2487
	85	1294	1645



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	6865	6865	6865	6865	6705	6705	6705	6705	6407	6407	6407	6135	6135	6135	5884	5884	5884	5767
1	6263	5983	5733	5507	6105	5852	5624	5417	5606	5418	5245	5380	5226	5084	5172	5048	4933	4811
2	5689	5207	4808	4473	5536	5098	4731	4419	4892	4583	4316	4702	4444	4217	4527	4313	4122	3996
3	5183	4569	4093	3714	5039	4477	4035	3680	4304	3925	3614	4144	3821	3550	3996	3723	3489	3361
4	4745	4047	3536	3145	4611	3970	3492	3123	3824	3408	3079	3689	3328	3036	3563	3252	2995	2869
5	4364	3616	3094	2709	4241	3551	3061	2693	3428	2995	2663	3314	2933	2634	3207	2873	2605	2481
6	4031	3257	2738	2366	3920	3202	2712	2355	3098	2660	2333	3000	2610	2312	2908	2562	2292	2172
7	3738	2955	2447	2091	3638	2908	2425	2083	2818	2384	2067	2735	2343	2052	2656	2304	2036	1921
8	3481	2698	2205	1867	3390	2658	2188	1861	2581	2154	1849	2509	2121	1837	2441	2089	1825	1715
9	3254	2478	2002	1681	3172	2443	1988	1676	2376	1960	1667	2314	1932	1658	2255	1906	1649	1543
10	3052	2287	1830	1526	2978	2257	1818	1522	2200	1794	1515	2145	1772	1508	2094	1749	1501	1399

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	130	4.89
6.00	57.9	7.33
8.00	32.6	9.78
10.0	20.9	12.2
12.0	14.5	14.7
14.0	10.6	17.1
16.0	8.15	19.6

Cone of Light Plot

