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Allentown, PA 18106
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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
L501-4-6400-40K-CC-HTA-U55D15-UNI
Order Number
10891761
Test Number
1133381

Test Date

2015-07-28

Prepared By

Javier Caban, Technician

Approved By

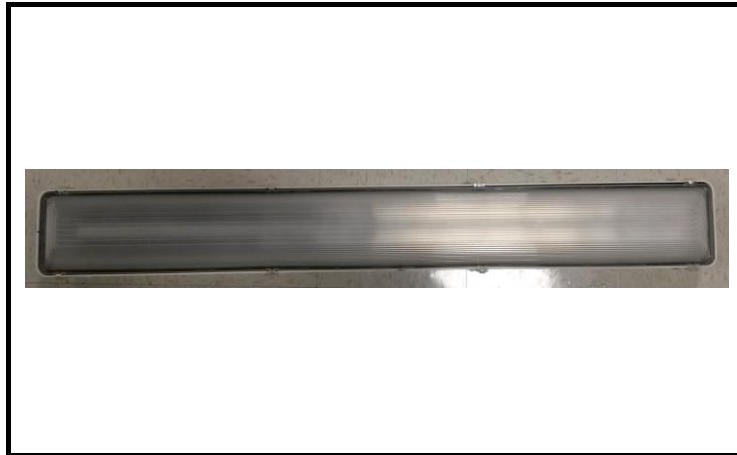
Kyle Spaziani, Project Handler

The results contained in this report pertain only to the tested sample.
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Description: Molded white plastic housing, clear stepped plastic enclosure
Lamp: 112 white LEDs
Mounting: Pendant
Ballast/Driver: One Universal Everline D15CC55UNVTZ-C

0



Characteristics

Luminous Length: 51.50 in.
Luminous Width: 6.500 in.
Luminous Height: 2.00 in.

Summary of Results

Total Output: 6390 Lumens
Efficacy: 102.3 lm/w
Maximum Candela: 2232 Candela

Electrical Data

Test Temperature: 24.2 °C
Voltage: 120.0 VAC
Current: 0.5208 A
Power: 62.44 W
Power Factor: 0.999
Frequency: 60 Hz
Current THD: 4.41 %

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	120.0 VAC	0.5208 A	62.44 W	0.999	60 Hz	4.41 %

Summary of Results

Spacing Criteria

0-180: 1.20

90-270: 1.20

Total Lumen Output:

6390 Lumens

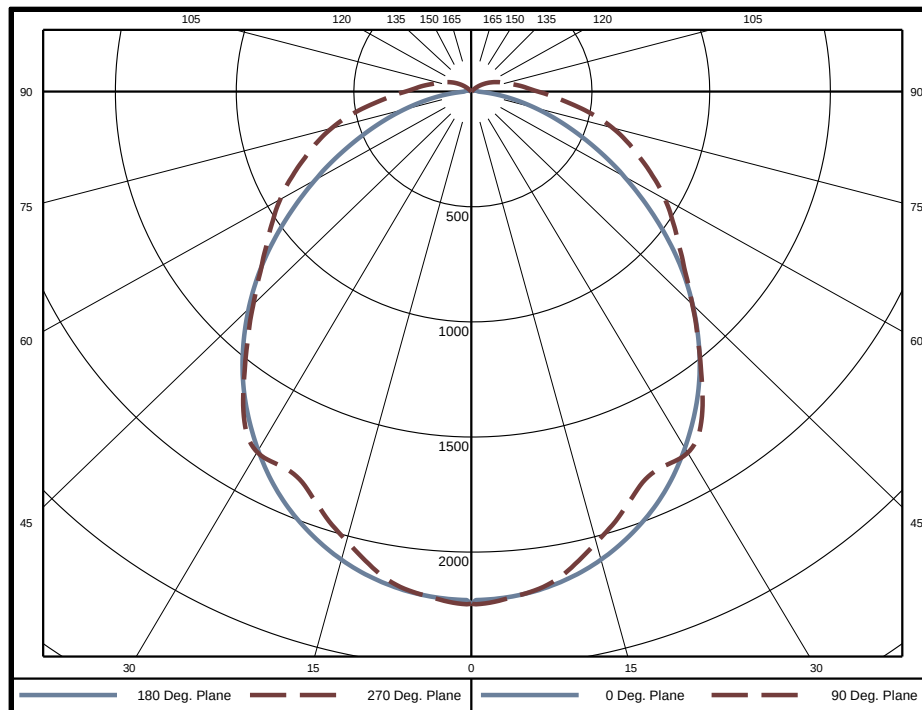
Efficacy:

102.3 lm/w

Maximum Candela:

2232 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	52.9	0.8%	60-65	376.1	5.9%	120-125	12.3	0.2%
5-10	156.0	2.4%	65-70	323.3	5.1%	125-130	6.4	0.1%
10-15	250.9	3.9%	70-75	269.5	4.2%	130-135	2.7	0.0%
15-20	333.1	5.2%	75-80	215.6	3.4%	135-140	0.3	0.0%
20-25	400.8	6.3%	80-85	161.9	2.5%	140-145	0	0.0%
25-30	458.1	7.2%	85-90	117.4	1.8%	145-150	0	0.0%
30-35	505.4	7.9%	90-95	87.7	1.4%	150-155	0	0.0%
35-40	528.5	8.3%	95-100	69.6	1.1%	155-160	0	0.0%
40-45	525.5	8.2%	100-105	53.4	0.8%	160-165	0	0.0%
45-50	502.2	7.9%	105-110	40.2	0.6%	165-170	0	0.0%
50-55	466.9	7.3%	110-115	28.8	0.5%	170-175	0	0.0%
55-60	424.3	6.6%	115-120	19.8	0.3%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2686	42.0%
0-60	4605	72.1%
0-90	6068	95.0%
90-180	321	5.0%



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	2224	2224	2224	2224	2224	2224	2224	2224	2224	2224	2224	2224	2224	2224	2224
	5	2197	2217	2200	2199	2198	2199	2200	2217	2197	2217	2200	2199	2198	2199	2200
	10	2163	2175	2155	2147	2141	2147	2155	2175	2163	2175	2155	2147	2141	2147	2155
	15	2105	2113	2075	2039	2028	2039	2075	2113	2105	2113	2075	2039	2028	2039	2075
	20	2023	2027	1958	1925	1911	1925	1958	2027	2023	2027	1958	1925	1911	1925	1958
	25	1920	1913	1837	1810	1821	1810	1837	1913	1920	1913	1837	1810	1821	1810	1837
	30	1793	1776	1713	1777	1814	1777	1713	1776	1793	1776	1713	1777	1814	1777	1713
	35	1652	1628	1629	1706	1693	1706	1629	1628	1652	1628	1629	1706	1693	1706	1629
	40	1493	1476	1544	1512	1494	1512	1544	1476	1493	1476	1544	1512	1494	1512	1544
	45	1319	1322	1372	1318	1315	1318	1372	1322	1319	1322	1372	1318	1315	1318	1372
	50	1133	1168	1163	1150	1164	1150	1163	1168	1133	1168	1163	1150	1164	1150	1163
	55	936	1005	968	1013	1047	1013	968	1005	936	1005	968	1013	1047	1013	968
	60	747	822	809	903	942	903	809	822	747	822	809	903	942	903	809
	65	573	637	685	795	832	795	685	637	573	637	685	795	832	795	685
	70	418	475	570	686	725	686	570	475	418	475	570	686	725	686	570
	75	283	344	458	580	618	580	458	344	283	344	458	580	618	580	458
	80	169	236	359	467	496	467	359	236	169	236	359	467	496	467	359
	85	78	155	271	356	374	356	271	155	78	155	271	356	374	356	271
	90	32	99	201	269	282	269	201	99	32	99	201	269	282	269	201
	95	25	71	161	214	226	214	161	71	25	71	161	214	226	214	161
	100	20	49	129	173	181	173	129	49	20	49	129	173	181	173	129
	105	16	31	99	139	148	139	99	31	16	31	99	139	148	139	99
	110	11	15	73	111	122	111	73	15	11	15	73	111	122	111	73
	115	7	5	49	86	97	86	49	5	7	5	49	86	97	86	49
	120	4	2	28	63	75	63	28	2	4	2	28	63	75	63	28
	125	2	1	11	42	53	42	11	1	2	1	11	42	53	42	11
	130	0	0	0	24	33	24	0	0	0	0	24	33	24	0	0
	135	0	0	0	5	15	5	0	0	0	0	5	15	5	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	10300	10300
	45	8315	6586
	55	7160	5871
	65	5798	5489
	75	4424	5146
	85	2875	3788



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	7530	7530	7530	7530	7318	7318	7318	7318	6921	6921	6921	6558	6558	6558	6225	6225	6225	6068
1	6809	6476	6179	5910	6598	6298	6028	5783	5965	5744	5541	5659	5480	5313	5377	5234	5099	4940
2	6180	5629	5173	4789	5979	5479	5062	4707	5198	4849	4548	4939	4650	4396	4700	4462	4251	4092
3	5633	4941	4405	3979	5444	4815	4320	3922	4577	4156	3811	4356	4002	3703	4152	3855	3600	3444
4	5159	4380	3809	3373	4986	4273	3742	3332	4071	3613	3251	3883	3490	3172	3708	3373	3096	2944
5	4747	3917	3337	2908	4589	3826	3283	2877	3653	3179	2816	3492	3080	2756	3342	2985	2697	2551
6	4387	3530	2955	2542	4243	3452	2911	2518	3304	2826	2470	3165	2744	2423	3036	2666	2377	2237
7	4070	3203	2641	2248	3939	3136	2605	2228	3008	2534	2190	2888	2466	2152	2775	2401	2115	1982
8	3791	2925	2381	2007	3672	2867	2350	1991	2756	2291	1960	2651	2234	1928	2553	2178	1898	1772
9	3543	2686	2162	1807	3436	2635	2136	1794	2538	2085	1768	2447	2036	1742	2361	1989	1716	1596
10	3323	2480	1975	1640	3225	2435	1953	1629	2350	1910	1606	2269	1868	1585	2193	1827	1563	1449

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	139	4.77
6.00	61.8	7.15
8.00	34.7	9.53
10.0	22.2	11.9
12.0	15.4	14.3
14.0	11.3	16.7
16.0	8.69	19.1

Cone of Light Plot

