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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
L501-4-5100-40K-CC-PIM-U55-UNI
Order Number
10891761
Test Number
1133384

Test Date
2015-07-26

Prepared By

Dane Hernandez-Adams, Technician

Approved By

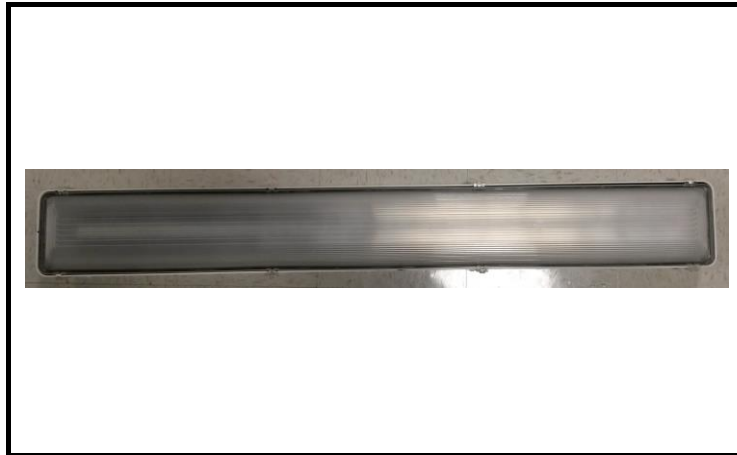
Kyle Spaziani, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Molded white plastic housing, clear stepped plastic enclosure
Lamp: 112 white LEDs
Mounting: Pendant
Ballast/Driver: One Universal Everline D10CC55UNVTZ-C

Luminaire



Luminaire Characteristics

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

Summary of Results

Total Luminaire Output: 5103 Lumens
Luminaire Efficacy: 96 lm/w
Maximum Candela: 2267 Candela

Electrical Data

Test Temperature: 25.9 °C
Voltage: 120.0 VAC
Current: 0.4438 A
Power: 53.15 W
Power Factor: 0.998
Frequency: 60 Hz
Current THD: 4.93 %

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
25.9 °C	120.0 VAC	0.4438 A	53.15 W	0.998	60 Hz	4.93 %

Summary of Results

Spacing Criteria

0-180: 1.38

90-270: 1.38

Total Lumen Output:

5103 Lumens

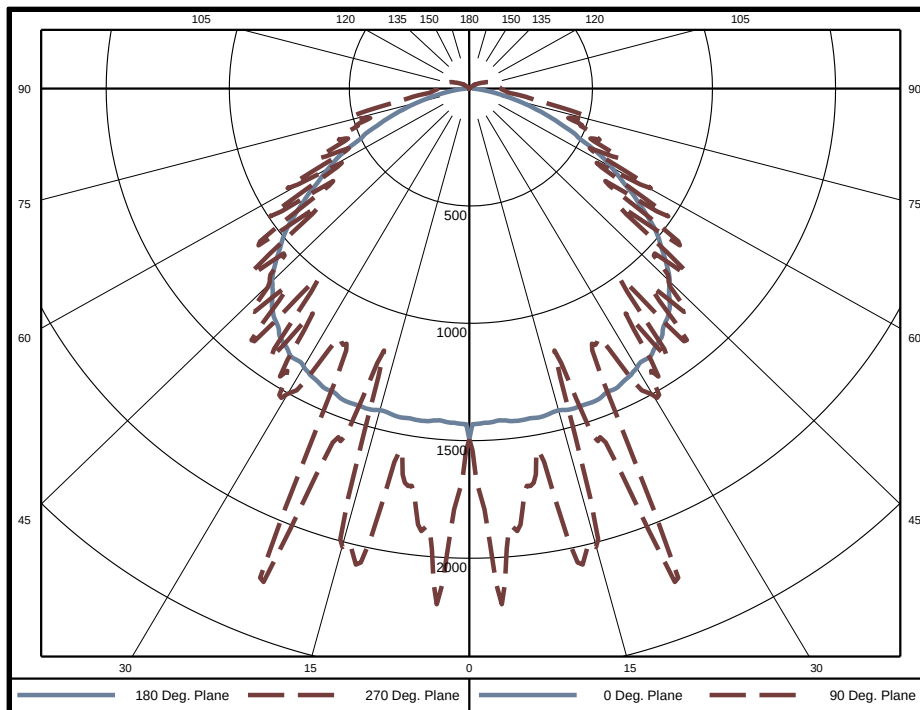
Luminaire Efficacy:

96.0 lm/w

Maximum Candela:

2267 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	44.0	0.9%	60-65	306.4	6.0%	120-125	7.0	0.1%
5-10	131.3	2.6%	65-70	252.0	4.9%	125-130	3.8	0.1%
10-15	209.4	4.1%	70-75	194.2	3.8%	130-135	1.3	0.0%
15-20	278.3	5.5%	75-80	163.6	3.2%	135-140	0.1	0.0%
20-25	339.7	6.7%	80-85	100.2	2.0%	140-145	0.0	0.0%
25-30	365.1	7.2%	85-90	54.6	1.1%	145-150	0.0	0.0%
30-35	431.9	8.5%	90-95	40.9	0.8%	150-155	0.0	0.0%
35-40	424.2	8.3%	95-100	39.0	0.8%	155-160	0.0	0.0%
40-45	430.0	8.4%	100-105	35.0	0.7%	160-165	0.0	0.0%
45-50	448.8	8.8%	105-110	27.5	0.5%	165-170	0.0	0.0%
50-55	388.5	7.6%	110-115	18.9	0.4%	170-175	0.0	0.0%
55-60	355.4	7.0%	115-120	12.0	0.2%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	2224	43.6%
0-60	3847	75.4%
0-90	4918	96.4%
90-180	186	3.6%



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	1494	1494	1494	1494	1494	1494	1494	1494	1494	1494	1494	1494	1494	1494	1494
	5	1419	1808	2184	1936	1879	1936	2184	1808	1419	1808	2184	1936	1879	1936	2184
	10	1426	2147	1779	1678	1592	1678	1779	2147	1426	2147	1779	1678	1592	1678	1779
	15	1419	1838	1556	2003	2022	2003	1556	1838	1419	1838	1556	2003	2022	2003	1556
	20	1427	1631	1934	1419	1580	1419	1934	1631	1427	1631	1934	1419	1580	1419	1934
	25	1411	1400	1276	1720	1199	1720	1276	1400	1411	1400	1276	1720	1199	1720	1276
	30	1371	1788	2098	1300	1502	1300	2098	1788	1371	1788	2098	1300	1502	1300	2098
	35	1333	1640	1146	1389	1320	1389	1146	1640	1333	1640	1146	1389	1320	1389	1146
	40	1264	1105	1295	970	1398	970	1295	1105	1264	1105	1295	970	1398	970	1295
	45	1157	1141	1187	1191	1165	1191	1187	1141	1157	1141	1187	1191	1165	1191	1187
	50	1015	861	1062	977	952	977	1062	861	1015	861	1062	977	952	977	1062
	55	840	852	790	1006	686	1006	790	852	840	852	790	1006	686	1006	790
	60	670	706	592	655	817	655	592	706	670	706	592	655	817	655	592
	65	489	534	598	520	671	520	598	534	489	534	598	520	671	520	598
	70	346	353	395	508	534	508	395	353	346	353	395	508	534	508	395
	75	213	228	330	424	492	424	330	228	213	228	330	424	492	424	330
	80	108	162	352	299	279	299	352	162	108	162	352	299	279	299	352
	85	44	116	169	142	156	142	169	116	44	116	169	142	156	142	169
	90	16	49	89	112	130	112	89	49	16	49	89	112	130	112	89
	95	16	41	79	101	123	101	79	41	16	41	79	101	123	101	79
	100	16	35	78	101	109	101	78	35	16	35	78	101	109	101	78
	105	13	25	70	94	95	94	70	25	13	25	70	94	95	94	70
	110	9	10	47	76	82	76	47	10	9	10	47	76	82	76	47
	115	6	3	32	55	61	55	32	3	6	3	32	55	61	55	32
	120	3	1	14	38	45	38	14	1	3	1	14	38	45	38	14
	125	1	0	5	27	30	27	5	0	1	0	5	27	30	27	5
	130	0	0	0	12	19	12	0	0	0	0	12	19	12	0	0
	135	0	0	0	2	6	2	0	0	0	0	2	6	2	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	6916	6916
	45	7295	5831
	55	6427	3847
	65	4948	4431
	75	3334	4098
	85	1637	1834



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	6031	6031	6031	6031	5869	5869	5869	5869	5567	5567	5567	5291	5291	5291	5037	5037	5037	4917
1	5487	5235	5009	4805	5327	5100	4895	4709	4848	4680	4526	4617	4480	4354	4403	4295	4193	4072
2	4989	4562	4209	3912	4837	4450	4126	3851	4238	3967	3733	4043	3818	3620	3862	3677	3513	3392
3	4551	4010	3592	3258	4408	3915	3528	3216	3736	3407	3136	3570	3292	3058	3417	3183	2982	2862
4	4170	3557	3109	2766	4038	3477	3059	2736	3325	2964	2678	3184	2874	2622	3053	2787	2567	2450
5	3838	3182	2724	2386	3717	3114	2685	2364	2984	2609	2321	2864	2536	2279	2752	2467	2238	2125
6	3546	2868	2413	2086	3436	2810	2381	2069	2699	2319	2036	2595	2260	2004	2498	2203	1972	1863
7	3290	2603	2157	1845	3190	2552	2131	1832	2457	2080	1806	2367	2031	1780	2283	1983	1754	1650
8	3064	2377	1945	1648	2974	2333	1923	1637	2250	1880	1616	2173	1839	1595	2100	1799	1574	1475
9	2864	2183	1766	1484	2782	2145	1747	1475	2073	1711	1458	2005	1676	1441	1941	1642	1424	1329
10	2686	2015	1614	1347	2611	1982	1598	1339	1919	1567	1325	1859	1537	1310	1803	1508	1296	1206

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	93.4	5.64
6.00	41.5	8.46
8.00	23.3	11.3
10.0	14.9	14.1
12.0	10.4	16.9
14.0	7.62	19.8
16.0	5.83	22.6

Cone of Light Plot

