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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
LR4-14G-5000-35K-U55-UNI-XXXX
Order Number
10742397
Test Number
1020025

Test Date

2015-04-14

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 (@1050mA)

Luminaire



Luminaire Characteristics

Luminous Length: 47.00 in.
Luminous Width: 11.00 in.

Summary of Results

Total Luminaire Output:	5028 Lumens
Luminaire Efficacy:	96.2 lm/w
Maximum Candela:	1730 Candela

Electrical Data

Test Temperature:	25.0 °C
Voltage:	120.0 VAC
Current:	0.4361 A
Power:	52.25 W
Power Factor:	0.998
Frequency:	60 Hz
Current THD:	4.56 %

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
25.0 °C	120.0 VAC	0.4361 A	52.25 W	0.998	60 Hz	4.56 %

Summary of Results

Spacing Criteria

0-180: 1.20

90-270: 1.32

Total Lumen Output:

5028 Lumens

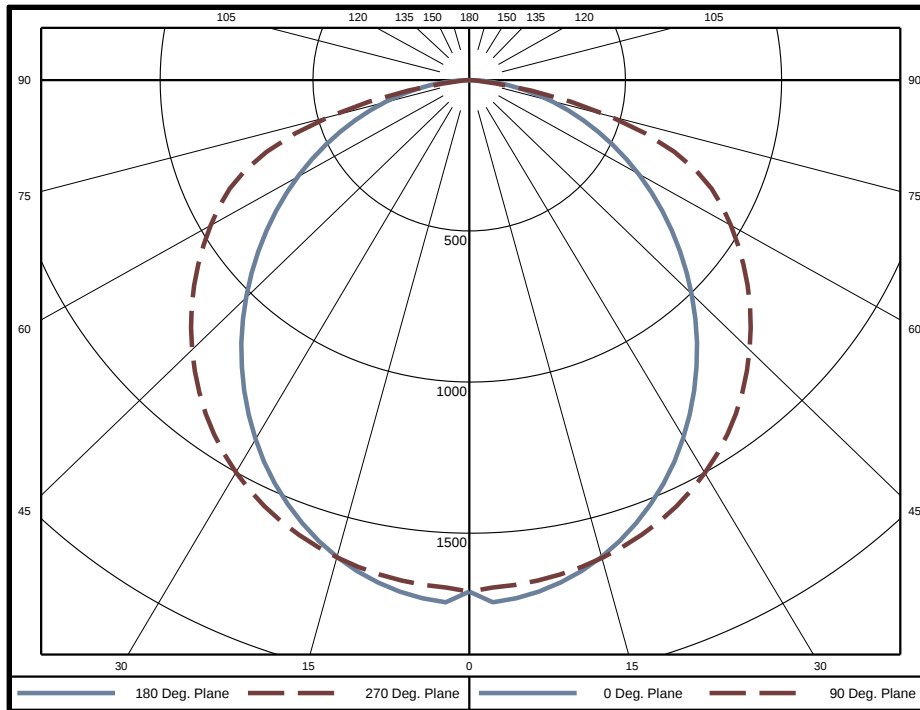
Luminaire Efficacy:

96.2 lm/w

Maximum Candela:

1730 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	42.9	0.9%	60-65	361.2	7.2%	120-125	0.0	0.0%
5-10	119.6	2.4%	65-70	315.9	6.3%	125-130	0.0	0.0%
10-15	194.7	3.9%	70-75	253.4	5.0%	130-135	0.0	0.0%
15-20	262.9	5.2%	75-80	169.0	3.4%	135-140	0.0	0.0%
20-25	322.1	6.4%	80-85	74.2	1.5%	140-145	0.0	0.0%
25-30	370.5	7.4%	85-90	13.2	0.3%	145-150	0.0	0.0%
30-35	406.6	8.1%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	429.6	8.5%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	439.3	8.7%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	436.1	8.7%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	421.2	8.4%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	395.9	7.9%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	2148.9	42.7%
0-60	3841.4	76.4%
0-90	5028.3	100.0%
90-180	0.0	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	1694	1694	1694	1694	1694	1694	1694	1694	1694	1694	1694	1694	1694	1694	1694
	5	1722	1690	1674	1678	1678	1678	1674	1690	1722	1690	1674	1678	1678	1678	1674
	10	1689	1660	1651	1660	1662	1660	1651	1660	1689	1660	1651	1660	1662	1660	1651
	15	1635	1612	1613	1631	1637	1631	1613	1612	1635	1612	1613	1631	1637	1631	1613
	20	1562	1546	1561	1591	1602	1591	1561	1546	1562	1546	1561	1591	1602	1591	1561
	25	1474	1465	1496	1540	1557	1540	1496	1465	1474	1465	1496	1540	1557	1540	1496
	30	1370	1371	1420	1478	1500	1478	1420	1371	1370	1371	1420	1478	1500	1478	1420
	35	1256	1267	1334	1404	1431	1404	1334	1267	1256	1267	1334	1404	1431	1404	1334
	40	1136	1157	1240	1319	1350	1319	1240	1157	1136	1157	1240	1319	1350	1319	1240
	45	1009	1042	1137	1225	1261	1225	1137	1042	1009	1042	1137	1225	1261	1225	1137
	50	882	927	1028	1124	1165	1124	1028	927	882	927	1028	1124	1165	1124	1028
	55	755	812	914	1020	1064	1020	914	812	755	812	914	1020	1064	1020	914
	60	630	698	800	911	960	911	800	698	630	698	800	911	960	911	800
	65	507	579	685	802	850	802	685	579	507	579	685	802	850	802	685
	70	389	461	571	667	693	667	571	461	389	461	571	667	693	667	571
	75	277	346	441	467	463	467	441	346	277	346	441	467	463	467	441
	80	172	235	258	220	199	220	258	235	172	235	258	220	199	220	258
	85	79	100	48	28	28	28	48	100	79	100	48	28	28	28	48
	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	5078	5078
	45	4278	5345
	55	3948	5562
	65	3598	6030
	75	3207	5368
	85	2704	958



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	5990	5990	5990	5990	5851	5851	5851	5851	5591	5591	5591	5353	5353	5353	5134	5134	5134	5031
1	5454	5206	4983	4783	5316	5091	4888	4704	4876	4708	4555	4678	4541	4415	4496	4386	4283	4176
2	4940	4510	4155	3856	4805	4414	4087	3809	4234	3958	3720	4067	3837	3634	3914	3723	3552	3441
3	4489	3942	3518	3180	4362	3861	3468	3151	3709	3372	3094	3569	3281	3039	3438	3195	2986	2873
4	4101	3480	3026	2679	3983	3412	2988	2659	3284	2914	2622	3166	2845	2585	3055	2778	2549	2437
5	3766	3102	2639	2296	3658	3045	2609	2283	2937	2552	2257	2836	2497	2232	2742	2445	2207	2097
6	3474	2788	2328	1998	3376	2740	2305	1988	2648	2259	1970	2562	2216	1952	2481	2174	1934	1828
7	3219	2525	2075	1760	3130	2483	2056	1753	2405	2020	1739	2331	1984	1726	2262	1950	1713	1611
8	2995	2302	1866	1567	2914	2266	1851	1562	2199	1821	1551	2135	1792	1541	2076	1764	1531	1433
9	2797	2111	1691	1408	2725	2081	1679	1404	2022	1654	1396	1967	1630	1388	1916	1607	1380	1287
10	2622	1947	1544	1275	2556	1921	1533	1272	1870	1512	1266	1822	1492	1259	1777	1473	1253	1164

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	106	5.01
6.00	47.0	7.51
8.00	26.5	10.0
10.0	16.9	12.5
12.0	11.8	15.0
14.0	8.64	17.5
16.0	6.62	20.0

Cone of Light Plot

