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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
LR15-24G-6200-35K-U55-UNI-XXXX
Order Number
10761618
Test Number
1105067

Test Date

2015-06-11

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 (@1500mA)

Luminaire



Luminaire Characteristics

Luminous Length: 47.00 in.
Luminous Width: 22.75 in.

Summary of Results

Total Luminaire Output: 5757 Lumens
Luminaire Efficacy: 91.4 lm/w
Maximum Candela: 1847 Candela

Electrical Data

Test Temperature: 24.9 °C
Voltage: 120.0 VAC
Current: 0.5258 A
Power: 63.02 W
Power Factor: 0.999
Frequency: 60 Hz
Current THD: 4.04 %

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
24.9 °C	120.0 VAC	0.5258 A	63.02 W	0.999	60 Hz	4.04 %

Summary of Results

Spacing Criteria

0-180: 1.20
90-270: 1.20

Total Lumen Output:

5757 Lumens

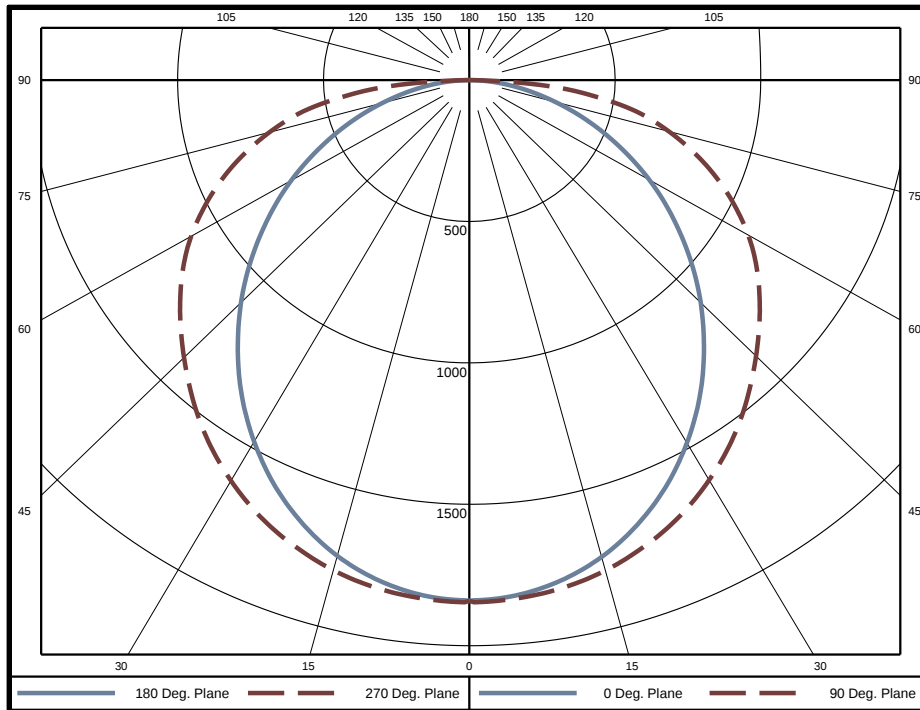
Luminaire Efficacy:

91.4 lm/w

Maximum Candela:

1847 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	43.9	0.8%	60-65	408.5	7.1%	120-125	0	0.0%
5-10	130.3	2.3%	65-70	362.5	6.3%	125-130	0	0.0%
10-15	212.3	3.7%	70-75	306.3	5.3%	130-135	0	0.0%
15-20	287.0	5.0%	75-80	241.4	4.2%	135-140	0	0.0%
20-25	352.0	6.1%	80-85	161.0	2.8%	140-145	0	0.0%
25-30	405.1	7.0%	85-90	54.3	0.9%	145-150	0	0.0%
30-35	445.1	7.7%	90-95	0	0.0%	150-155	0	0.0%
35-40	471.0	8.2%	95-100	0	0.0%	155-160	0	0.0%
40-45	482.8	8.4%	100-105	0	0.0%	160-165	0	0.0%
45-50	481.4	8.4%	105-110	0	0.0%	165-170	0	0.0%
50-55	468.0	8.1%	110-115	0	0.0%	170-175	0	0.0%
55-60	443.8	7.7%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2347	40.8%
0-60	4223	73.3%
0-90	5757	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	1842	1842	1842	1842	1842	1842	1842	1842	1842	1842	1842	1842	1842	1842	1842
	5	1829	1833	1832	1834	1840	1834	1832	1833	1829	1833	1832	1834	1840	1834	1832
	10	1797	1803	1808	1815	1824	1815	1808	1803	1797	1803	1808	1815	1824	1815	1808
	15	1746	1755	1767	1783	1795	1783	1767	1755	1746	1755	1767	1783	1795	1783	1767
	20	1676	1689	1713	1737	1753	1737	1713	1689	1676	1689	1713	1737	1753	1737	1713
	25	1589	1606	1642	1679	1701	1679	1642	1606	1589	1606	1642	1679	1701	1679	1642
	30	1486	1507	1559	1608	1635	1608	1559	1507	1486	1507	1559	1608	1635	1608	1559
	35	1372	1398	1464	1528	1560	1528	1464	1398	1372	1398	1464	1528	1560	1528	1464
	40	1249	1280	1360	1437	1474	1437	1360	1280	1249	1280	1360	1437	1474	1437	1360
	45	1121	1155	1248	1340	1383	1340	1248	1155	1121	1155	1248	1340	1383	1340	1248
	50	987	1026	1131	1241	1293	1241	1131	1026	987	1026	1131	1241	1293	1241	1131
	55	851	895	1012	1144	1202	1144	1012	895	851	895	1012	1144	1202	1144	1012
	60	715	761	894	1042	1100	1042	894	761	715	761	894	1042	1100	1042	894
	65	576	630	782	926	982	926	782	630	576	630	782	926	982	926	782
	70	442	504	662	796	851	796	662	504	442	504	662	796	851	796	662
	75	311	385	530	654	707	654	530	385	311	385	530	654	707	654	530
	80	193	269	387	497	540	497	387	269	193	269	387	497	540	497	387
	85	90	144	212	278	305	278	212	144	90	144	212	278	305	278	212
	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	2670	2670
	45	2297	2836
	55	2150	3037
	65	1976	3367
	75	1744	3960
	85	1491	5067



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	6853	6853	6853	6853	6694	6694	6694	6694	6396	6396	6396	6124	6124	6124	5874	5874	5874	5757
1	6183	5875	5599	5350	6022	5742	5490	5262	5494	5285	5094	5265	5094	4936	5055	4917	4788	4662
2	5584	5068	4640	4280	5427	4956	4563	4228	4748	4415	4128	4555	4276	4031	4377	4146	3940	3808
3	5068	4419	3916	3515	4920	4325	3859	3483	4150	3749	3419	3987	3645	3357	3836	3546	3298	3165
4	4627	3897	3362	2953	4490	3818	3318	2932	3670	3234	2889	3532	3154	2848	3404	3078	2808	2677
5	4247	3471	2928	2528	4122	3405	2894	2513	3279	2829	2484	3163	2766	2455	3054	2706	2427	2299
6	3917	3118	2582	2197	3803	3062	2555	2186	2956	2503	2165	2856	2453	2145	2763	2405	2125	2001
7	3629	2823	2300	1934	3526	2775	2278	1926	2684	2236	1911	2599	2196	1895	2519	2157	1880	1762
8	3377	2573	2068	1721	3284	2532	2050	1715	2454	2016	1703	2381	1983	1692	2312	1951	1680	1567
9	3154	2360	1874	1545	3070	2325	1859	1541	2257	1831	1532	2194	1803	1523	2134	1776	1514	1406
10	2956	2176	1709	1399	2881	2146	1697	1395	2087	1674	1388	2032	1651	1381	1980	1628	1374	1271

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	115	5.03
6.00	51.2	7.55
8.00	28.8	10.1
10.0	18.4	12.6
12.0	12.8	15.1
14.0	9.40	17.6
16.0	7.19	20.1

Cone of Light Plot

