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Indoor Distribution Test Report

Relevant Standards
IES LM-79-2008
ANSI C82.77-2002

Prepared For
Mercury Lighting

John Andrews
20 Audrey Pl
Fairfield, NJ 07004-3416

Catalog Number
LW25-4-12400-35K-HTA-U55-UNI-48-XXXX

Order Number
10972369
Test Number
1164871

Test Date

2015-09-30

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, frosted plastic lens enclosure
Lamp: 288 white LEDs
Mounting: Pendant
Ballast/Driver: Two Universal Everline D15CC55UNVTZ-C

Luminaire



Luminaire Characteristics

Luminous Length: 48.00 in.
Luminous Width: 9.500 in.
Luminous Height: 1.75 in.

Summary of Results

Total Luminaire Output: 11340 Lumens
Luminaire Efficacy: 90.8 lm/w
Maximum Candela: 3673 Candela

Electrical Data

Test Temperature: 25.2 °C
Voltage: 120.0 VAC
Current: 1.042 A
Power: 124.9 W
Power Factor: 0.999
Frequency: 60 Hz
Current THD: 4.26 %

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
25.2 °C	120.0 VAC	1.042 A	124.9 W	0.999	60 Hz	4.26 %

Summary of Results

Spacing Criteria

0-180: 1.22
90-270: 1.22

Total Lumen Output:

11340 Lumens

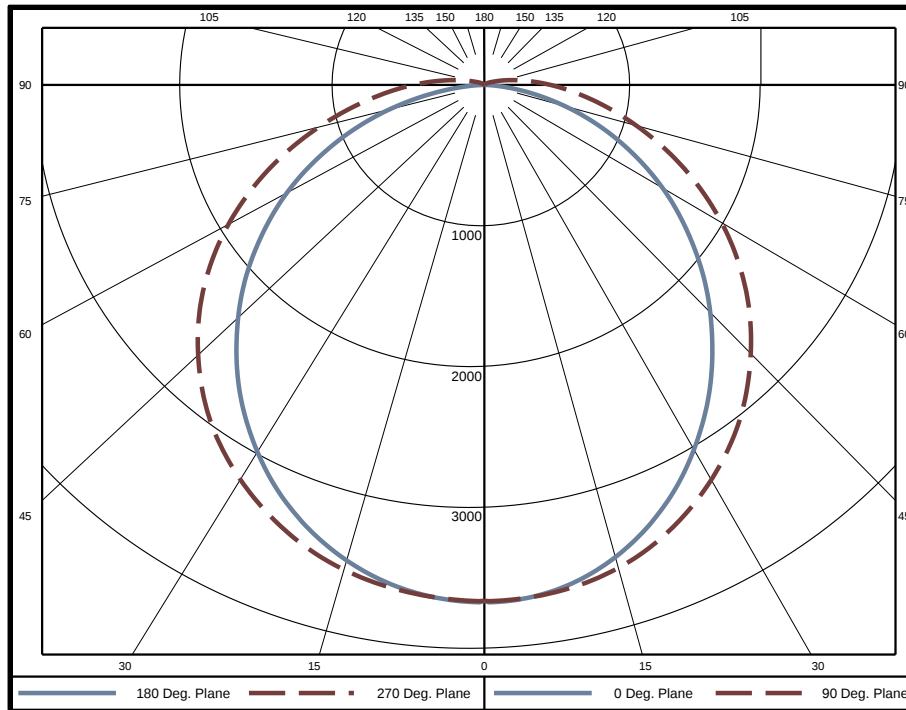
Luminaire Efficacy:

90.8 lm/w

Maximum Candela:

3673 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	87.4	0.8%	60-65	755.5	6.7%	120-125	4.4	0.0%
5-10	259.2	2.3%	65-70	644.6	5.7%	125-130	2.4	0.0%
10-15	422.5	3.7%	70-75	519.7	4.6%	130-135	1.1	0.0%
15-20	571.5	5.0%	75-80	391.4	3.5%	135-140	0.2	0.0%
20-25	700.7	6.2%	80-85	271.6	2.4%	140-145	0	0.0%
25-30	806.3	7.1%	85-90	173.7	1.5%	145-150	0	0.0%
30-35	885.9	7.8%	90-95	105.7	0.9%	150-155	0	0.0%
35-40	936.5	8.3%	95-100	61.5	0.5%	155-160	0	0.0%
40-45	956.8	8.4%	100-105	34.3	0.3%	160-165	0	0.0%
45-50	948.4	8.4%	105-110	19.1	0.2%	165-170	0	0.0%
50-55	911.2	8.0%	110-115	11.3	0.1%	170-175	0	0.0%
55-60	846.0	7.5%	115-120	7.2	0.1%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	4670	41.2%
0-60	8332	73.5%
0-90	11089	97.8%
90-180	247	2.2%



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	3662	3662	3662	3662	3662	3662	3662	3662	3662	3662	3662	3662	3662	3662	3662
	5	3654	3652	3637	3644	3652	3644	3637	3652	3654	3652	3637	3644	3652	3644	3637
	10	3594	3595	3589	3607	3619	3607	3589	3595	3594	3595	3589	3607	3619	3607	3589
	15	3494	3503	3513	3544	3563	3544	3513	3503	3494	3503	3513	3544	3563	3544	3513
	20	3358	3375	3402	3451	3476	3451	3402	3375	3358	3375	3402	3451	3476	3451	3402
	25	3190	3214	3261	3328	3359	3328	3261	3214	3190	3214	3261	3328	3359	3328	3261
	30	2989	3027	3097	3182	3220	3182	3097	3027	2989	3027	3097	3182	3220	3182	3097
	35	2770	2816	2908	3015	3059	3015	2908	2816	2770	2816	2908	3015	3059	3015	2908
	40	2529	2584	2696	2821	2871	2821	2696	2584	2529	2584	2696	2821	2871	2821	2696
	45	2278	2338	2466	2605	2659	2605	2466	2338	2278	2338	2466	2605	2659	2605	2466
	50	2017	2080	2221	2374	2433	2374	2221	2080	2017	2080	2221	2374	2433	2374	2221
	55	1745	1812	1963	2123	2186	2123	1963	1812	1745	1812	1963	2123	2186	2123	1963
	60	1471	1534	1690	1857	1923	1857	1690	1534	1471	1534	1690	1857	1923	1857	1690
	65	1183	1253	1409	1581	1649	1581	1409	1253	1183	1253	1409	1581	1649	1581	1409
	70	896	965	1128	1304	1375	1304	1128	965	896	965	1128	1304	1375	1304	1128
	75	611	687	856	1034	1107	1034	856	687	611	687	856	1034	1107	1034	856
	80	341	429	614	792	863	792	614	429	341	429	614	792	863	792	614
	85	116	222	410	582	651	582	410	222	116	222	410	582	651	582	410
	90	0	91	253	405	469	405	253	91	0	91	253	405	469	405	253
	95	0	28	139	263	316	263	139	28	0	28	139	263	316	263	139
	100	0	10	70	158	199	158	70	10	0	10	70	158	199	158	70
	105	0	4	37	90	118	90	37	4	0	4	37	90	118	90	37
	110	0	1	23	53	70	53	23	1	0	1	23	53	70	53	23
	115	0	0	15	35	45	35	15	0	0	0	15	35	45	35	15
	120	0	0	9	23	30	23	9	0	0	0	9	23	30	23	9
	125	0	0	4	16	20	16	4	0	0	0	4	16	20	16	4
	130	0	0	0	9	13	9	0	0	0	0	0	9	13	9	0
	135	0	0	0	3	6	3	0	0	0	0	0	3	6	3	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	12450	12450
	45	10560	10790
	55	9830	10250
	65	8822	9508
	75	7066	8614
	85	3200	8174



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	13436	13436	13436	13436	13095	13095	13095	13095	12458	12458	12458	11876	11876	11876	11340	11340	11340	11089
1	12148	11554	11022	10543	11807	11269	10785	10346	10736	10337	9972	10247	9921	9620	9795	9534	9290	9027
2	11001	10008	9185	8494	10672	9769	9013	8372	9320	8685	8137	8907	8377	7912	8524	8087	7698	7430
3	10003	8752	7784	7013	9693	8551	7654	6932	8172	7406	6775	7822	7171	6623	7497	6948	6477	6210
4	9143	7733	6701	5912	8857	7563	6600	5856	7243	6407	5746	6945	6224	5639	6668	6048	5535	5273
5	8398	6896	5846	5071	8137	6752	5767	5031	6480	5614	4951	6226	5468	4873	5990	5328	4796	4542
6	7749	6200	5160	4414	7511	6077	5096	4383	5844	4973	4323	5627	4854	4264	5424	4740	4206	3961
7	7180	5614	4600	3888	6965	5509	4548	3865	5310	4446	3818	5123	4349	3772	4947	4255	3727	3492
8	6681	5119	4136	3461	6486	5028	4093	3443	4856	4009	3405	4694	3928	3369	4541	3850	3332	3109
9	6240	4694	3748	3109	6064	4616	3712	3094	4466	3642	3064	4325	3573	3034	4192	3507	3004	2791
10	5849	4329	3420	2815	5689	4261	3389	2802	4130	3329	2777	4006	3271	2753	3890	3215	2728	2525

Cone of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	229	5.04
6.00	102	7.56
8.00	57.2	10.1
10.0	36.6	12.6
12.0	25.4	15.1
14.0	18.7	17.6
16.0	14.3	20.2

Cone of Light Plot

