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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  
**L65VP-2-2150-35K-HTP-S30-UNI-XXXX**  
Order Number  
10770129  
Test Number  
1047313

Test Date

2015-04-28

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:** Formed white enamel steel housing, white enamel steel reflector, frosted plastic lens enclosure  
**Lamp:** 60 white LEDs  
**Mounting:** Surface - Ceiling  
**Ballast/Driver:** One Osram OT30W/PRG1050C/UNV/DIM/L

#### Luminaire



#### Luminaire Characteristics

Luminous Length: 23.25 in.  
Luminous Width: 4.500 in.  
Luminous Height: 2.25 in.

#### Summary of Results

Total Luminaire Output: 1890 Lumens  
Luminaire Efficacy: 73 lm/w  
Maximum Candela: 585 Candela

#### Electrical Data

Test Temperature: 25.0 °C  
Voltage: 120.0 VAC  
Current: 0.2167 A  
Power: 25.90 W  
Power Factor: 0.996  
Frequency: 60 Hz  
Current THD: 5.02 %

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	0.2167 A	25.90 W	0.996	60 Hz	5.02 %

### Summary of Results

#### Spacing Criteria

0-180: 1.13  
90-270: 1.13

#### Total Lumen Output:

1890 Lumens

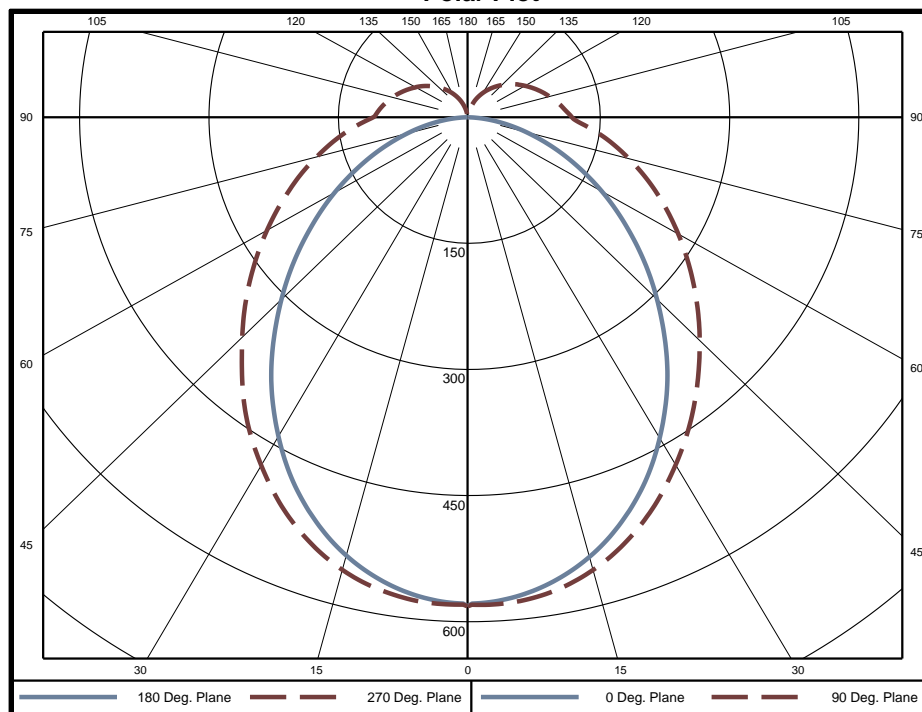
#### Luminaire Efficacy:

73.0 lm/w

#### Maximum Candela:

585 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	13.9	0.7%	60-65	104.4	5.5%	120-125	18.2	1.0%
5-10	41.1	2.2%	65-70	92.0	4.9%	125-130	15.5	0.8%
10-15	66.6	3.5%	70-75	78.7	4.2%	130-135	12.7	0.7%
15-20	89.2	4.7%	75-80	65.4	3.5%	135-140	10.2	0.5%
20-25	107.7	5.7%	80-85	52.4	2.8%	140-145	7.8	0.4%
25-30	121.7	6.4%	85-90	40.0	2.1%	145-150	5.7	0.3%
30-35	130.9	6.9%	90-95	33.8	1.8%	150-155	3.8	0.2%
35-40	135.3	7.2%	95-100	31.6	1.7%	155-160	2.3	0.1%
40-45	135.2	7.2%	100-105	29.2	1.5%	160-165	1.1	0.1%
45-50	131.5	7.0%	105-110	26.6	1.4%	165-170	0.4	0.0%
50-55	124.8	6.6%	110-115	23.9	1.3%	170-175	0.1	0.0%
55-60	115.5	6.1%	115-120	21.0	1.1%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	706	37.4%
0-60	1092	64.2%
0-90	1646	87.1%
90-180	244	12.9%



**Candela Tabulation**  
Horizontal 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	581.7	581.7	581.7	581.7	581.7	581.7	581.7	581.7	581.7	581.7	581.7	581.7	581.7	581.7	581.7	581.7
5	573.9	581.8	581.2	579.6	579.5	579.6	581.2	581.8	573.9	580.6	580.2	578.9	579.0	578.9	580.2	580.6
10	560.9	570.6	572.0	571.8	572.2	571.8	572.0	570.6	560.9	568.8	570.6	571.0	571.7	571.0	570.6	568.8
15	540.4	551.3	555.0	556.5	557.5	556.5	555.0	551.3	540.4	550.6	554.7	556.5	558.0	556.5	554.7	550.6
20	512.4	524.7	531.0	534.5	536.2	534.5	531.0	524.7	512.4	524.7	531.3	535.2	537.1	535.2	531.3	524.7
25	478.4	491.2	500.5	506.5	509.3	506.5	500.5	491.2	478.4	492.6	501.9	507.5	510.4	507.5	501.9	492.6
30	438.4	453.1	465.4	474.0	478.2	474.0	465.4	453.1	438.4	455.8	468.2	475.2	478.5	475.2	468.2	455.8
35	395.9	412.1	428.2	440.4	445.7	440.4	428.2	412.1	395.9	415.1	430.0	440.1	444.8	440.1	430.0	415.1
40	350.4	369.7	389.6	404.9	411.6	404.9	389.6	369.7	350.4	370.9	389.2	401.5	406.8	401.5	389.2	370.9
45	304.7	326.7	350.4	369.4	377.6	369.4	350.4	326.7	304.7	326.6	347.6	362.8	369.7	362.8	347.6	326.6
50	260.4	284.1	311.8	334.5	344.5	334.5	311.8	284.1	260.4	284.2	308.9	327.2	335.1	327.2	308.9	284.2
55	217.3	242.9	274.2	300.5	311.9	300.5	274.2	242.9	217.3	243.4	270.5	291.9	301.2	291.9	270.5	243.4
60	176.9	204.0	238.3	267.8	280.6	267.8	238.3	204.0	176.9	203.6	233.7	257.9	268.7	257.9	233.7	203.6
65	138.3	167.4	204.3	236.7	250.3	236.7	204.3	167.4	138.3	167.1	199.4	226.1	237.8	226.1	199.4	167.1
70	102.7	132.9	172.0	206.6	221.3	206.6	172.0	132.9	102.7	133.1	167.6	196.7	208.8	196.7	167.6	133.1
75	70.2	101.6	142.1	178.2	193.0	178.2	142.1	101.6	70.2	101.4	137.7	168.6	181.2	168.6	137.7	101.4
80	41.6	73.9	115.3	151.8	166.5	151.8	115.3	73.9	41.6	73.9	111.2	143.2	156.0	143.2	111.2	73.9
85	16.6	49.1	90.2	126.5	140.2	126.5	90.2	49.1	16.6	49.2	87.0	119.3	131.8	119.3	87.0	49.2
90	0.0	29.5	71.6	106.5	120.2	106.5	71.6	29.5	0.0	27.8	66.2	97.2	109.5	97.2	66.2	27.8
95	0.0	27.0	67.0	98.9	111.7	98.9	67.0	27.0	0.0	25.2	62.1	91.1	102.9	91.1	62.1	25.2
100	0.0	25.5	63.4	93.0	104.6	93.0	63.4	25.5	0.0	23.7	58.9	86.0	96.8	86.0	58.9	23.7
105	0.0	23.7	59.2	86.5	97.1	86.5	59.2	23.7	0.0	22.2	55.6	80.8	90.7	80.8	55.6	22.2
110	0.0	22.0	55.2	80.3	89.9	80.3	55.2	22.0	0.0	20.6	51.9	75.2	84.1	75.2	51.9	20.6
115	0.0	20.1	50.9	73.9	82.5	73.9	50.9	20.1	0.0	19.0	48.1	69.5	77.5	69.5	48.1	19.0
120	0.0	18.2	46.5	67.8	75.3	67.8	46.5	18.2	0.0	17.3	44.1	63.8	70.7	63.8	44.1	17.3
125	0.0	16.3	42.1	61.3	68.5	61.3	42.1	16.3	0.0	15.7	40.1	58.0	64.6	58.0	40.1	15.7
130	0.0	14.3	37.5	54.8	61.3	54.8	37.5	14.3	0.0	14.1	36.0	52.0	57.9	52.0	36.0	14.1
135	0.0	12.2	32.7	48.0	54.0	48.0	32.7	12.2	0.0	12.5	31.8	46.0	51.2	46.0	31.8	12.5
140	0.0	10.0	27.8	41.4	46.7	41.4	27.8	10.0	0.0	10.7	27.6	40.0	44.7	40.0	27.6	10.7
145	0.0	7.6	23.2	34.8	39.5	34.8	23.2	7.6	0.0	8.6	23.5	34.0	38.1	34.0	23.5	8.6
150	0.0	5.3	17.9	27.4	32.2	27.4	17.9	5.3	0.0	6.5	18.8	28.1	31.5	28.1	18.8	6.5
155	0.0	3.3	12.6	20.9	24.9	20.9	12.6	3.3	0.0	4.5	13.9	22.2	25.0	22.2	13.9	4.5
160	0.0	1.3	8.0	14.7	16.8	14.7	8.0	1.3	0.0	2.5	9.3	16.2	18.6	16.2	9.3	2.5
165	0.0	0.0	4.2	8.2	10.6	8.2	4.2	0.0	0.0	0.9	5.4	9.7	12.3	9.7	5.4	0.9
170	0.0	0.0	0.8	3.1	4.7	3.1	0.8	0.0	0.0	0.0	1.9	4.5	6.5	4.5	1.9	0.0
175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	0.4	0.0	0.0
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**Average Luminance (cd/m<sup>2</sup>)**  
Horizontal Angle (Degrees)

	0	45	90
0	8618	8618	8618
45	5820	5163	5274
55	4930	4419	4700
65	4014	3759	4235
75	2952	3159	3855
85	1338	2632	3549



### 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	2192	2192	2192	2192	2113	2113	2113	2113	1965	1965	1965	1829	1829	1829	1705	1705	1705	1646
1	1974	1874	1784	1703	1896	1806	1725	1652	1681	1615	1555	1565	1513	1464	1458	1417	1379	1322
2	1789	1624	1488	1373	1715	1567	1443	1338	1460	1358	1270	1361	1278	1205	1270	1203	1143	1088
3	1628	1423	1264	1137	1560	1374	1229	1111	1283	1161	1061	1198	1097	1012	1120	1036	965	912
4	1490	1260	1091	962	1427	1218	1062	942	1140	1007	903	1067	955	865	999	905	828	778
5	1370	1125	954	827	1313	1089	930	812	1022	885	780	959	842	750	900	800	720	674
6	1265	1013	843	722	1213	982	824	709	923	786	684	868	750	659	817	715	634	590
7	1173	918	753	637	1126	891	736	626	840	704	605	792	673	585	747	643	564	523
8	1092	838	678	568	1049	814	664	559	769	636	541	727	610	524	687	584	506	467
9	1020	769	615	511	981	748	602	503	708	579	488	671	556	473	636	533	458	421
10	957	709	561	462	921	691	550	456	656	530	443	622	509	430	591	490	417	382

### Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	36.4	4.76
6.00	16.2	7.14
8.00	9.09	9.52
10.0	5.82	11.9
12.0	4.04	14.3
14.0	2.97	16.7
16.0	2.27	19.0

### Cone of Light Plot

