



UL Verification Services Inc.  
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## Indoor Distribution Test Report

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

Prepared For  
**Jesco Lighting Group LLC**

Vic Nasrudin  
15 Harbor Park Dr  
Port Washington, NY 11050  
United States

Catalog Number  
**H2L519S3090W**

Order Number  
11511753  
Test Number  
11511753.04

Test Date

2016-11-02

Prepared By

Samuel DePue, Technician

Approved By

Timothy Wagner, Project Handler

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** White formed aluminum housing, white formed aluminum reflector, frosted plastic lens enclosure  
**Lamp:** 24 white LEDs  
**Mounting:** Track mount  
**Ballast/Driver:** Unmarked driver

**Luminaire**



**Luminaire Characteristics**

Luminous Length: 3.50 in.  
Luminous Width: 11.00 in.

**Summary of Results**

Total Luminaire Output: 2294 Lumens  
Luminaire Efficacy: 73.3 lm/w  
Maximum Candela: 939 Candela

**Test Conditions**

Test Temperature: 25.1 °C  
Voltage: 120.0 VAC  
Current: 0.2629 A  
Power: 31.28 W  
Power Factor: 0.991  
Frequency: 60 Hz  
Current THD: 11.2 %

Laboratory results may not be representative of field performance  
Ballast factors have not been applied



## Distribution - Goniophotometer

### Distribution Test Conditions

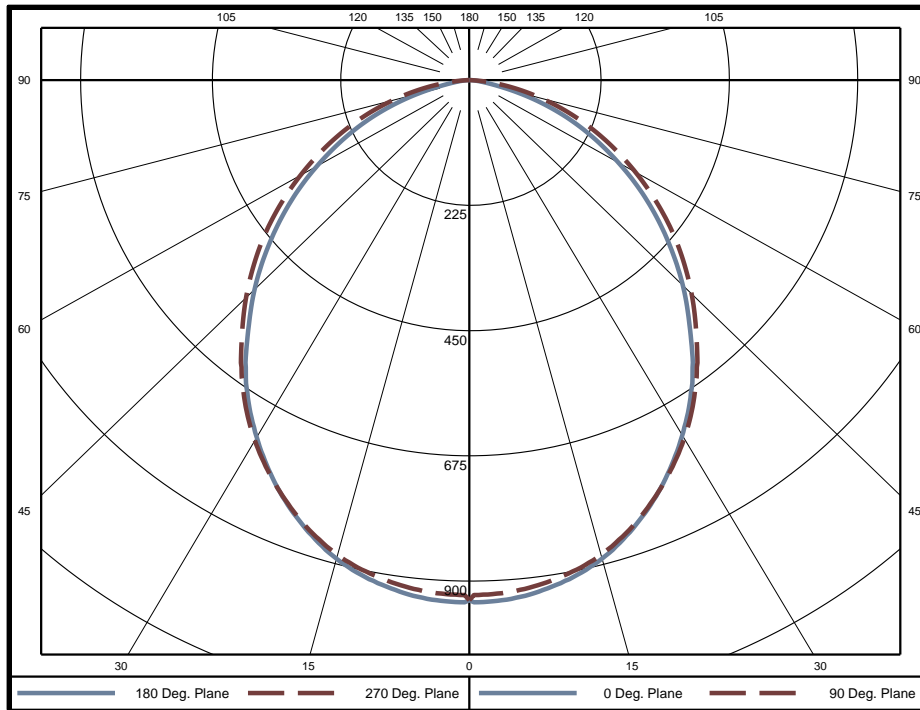
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.0 VAC	0.2629 A	31.28 W	0.991	60 Hz	11.2 %

### Summary of Results

**Spacing Criteria**  
 0-180: 1.18  
 90-270: 1.18

**Total Lumen Output:** 2294 Lumens  
**Luminaire Efficacy:** 73.3 lm/w  
**Maximum Candela:** 939 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	22.3	1.0%	60-65	138.9	6.1%	120-125	0	0.0%
5-10	66.0	2.9%	65-70	109.6	4.8%	125-130	0	0.0%
10-15	107.1	4.7%	70-75	77.5	3.4%	130-135	0	0.0%
15-20	143.4	6.3%	75-80	44.8	2.0%	135-140	0	0.0%
20-25	173.2	7.6%	80-85	18.1	0.8%	140-145	0	0.0%
25-30	195.7	8.5%	85-90	3.4	0.1%	145-150	0	0.0%
30-35	210.1	9.2%	90-95	0	0.0%	150-155	0	0.0%
35-40	215.5	9.4%	95-100	0	0.0%	155-160	0	0.0%
40-45	212.5	9.3%	100-105	0	0.0%	160-165	0	0.0%
45-50	203.3	8.9%	105-110	0	0.0%	165-170	0	0.0%
50-55	187.4	8.2%	110-115	0	0.0%	170-175	0	0.0%
55-60	165.4	7.2%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1133	49.4%
0-60	1902	82.9%
0-90	2294	100.0%
90-180	0	0.0%



**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	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2
5	933.3	934.5	932.4	926.5	921.2	926.5	932.4	934.5	933.3	934.5	932.4	926.5	921.2	926.5	932.4	934.5
10	917.5	918.2	916.4	911.9	906.5	911.9	916.4	918.2	917.5	918.2	916.4	911.9	906.5	911.9	916.4	918.2
15	890.4	891.9	891.4	888.1	883.0	888.1	891.4	891.9	890.4	891.9	891.4	888.1	883.0	888.1	891.4	891.9
20	849.4	851.0	852.1	849.9	846.0	849.9	852.1	851.0	849.4	851.0	852.1	849.9	846.0	849.9	852.1	851.0
25	799.1	800.7	803.2	802.4	799.0	802.4	803.2	800.7	799.1	800.7	803.2	802.4	799.0	802.4	803.2	800.7
30	740.0	743.1	746.9	748.1	745.8	748.1	746.9	743.1	740.0	743.1	746.9	748.1	745.8	748.1	746.9	743.1
35	675.3	676.8	682.5	685.2	683.9	685.2	682.5	676.8	675.3	676.8	682.5	685.2	683.9	685.2	682.5	676.8
40	599.9	604.5	611.3	615.8	615.5	615.8	611.3	604.5	599.9	604.5	611.3	615.8	615.5	615.8	611.3	604.5
45	527.2	531.3	541.1	547.2	547.6	547.2	541.1	531.3	527.2	531.3	541.1	547.2	547.6	547.2	541.1	531.3
50	452.5	458.0	469.6	477.2	478.8	477.2	469.6	458.0	452.5	458.0	469.6	477.2	478.8	477.2	469.6	458.0
55	378.3	383.4	396.4	406.1	407.7	406.1	396.4	383.4	378.3	383.4	396.4	406.1	407.7	406.1	396.4	383.4
60	303.2	309.2	323.1	334.0	336.0	334.0	323.1	309.2	303.2	309.2	323.1	334.0	336.0	334.0	323.1	309.2
65	231.3	237.3	252.7	264.8	267.0	264.8	252.7	237.3	231.3	237.3	252.7	264.8	267.0	264.8	252.7	237.3
70	160.0	167.3	184.8	196.8	199.9	196.8	184.8	167.3	160.0	167.3	184.8	196.8	199.9	196.8	184.8	167.3
75	89.1	97.7	118.7	132.0	134.9	132.0	118.7	97.7	89.1	97.7	118.7	132.0	134.9	132.0	118.7	97.7
80	34.6	37.2	55.5	72.6	75.4	72.6	55.5	37.2	34.6	37.2	55.5	72.6	75.4	72.6	55.5	37.2
85	11.6	11.3	13.0	20.6	24.9	20.6	13.0	11.3	11.6	11.3	13.0	20.6	24.9	20.6	13.0	11.3
90	1.1	0.6	0.6	0.5	0.3	0.5	0.6	0.6	1.1	0.6	0.6	0.5	0.3	0.5	0.6	0.6
95	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
100	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
105	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
110	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
115	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
120	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
125	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
130	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
135	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
140	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
145	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
150	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
155	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
160	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
165	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
170	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
175	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
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)

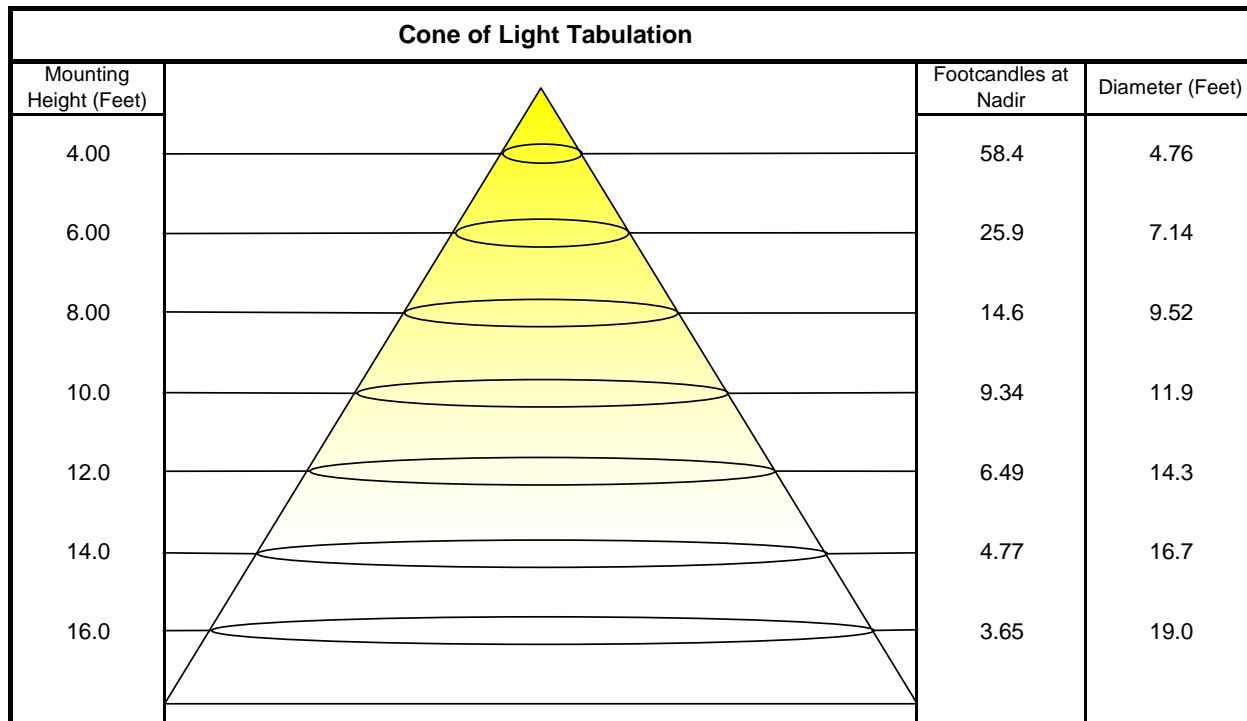
	0	45	90
0	37610	37610	37610
45	30020	30810	31180
55	26550	27820	28620
65	22030	24080	25440
75	13860	18460	20980
85	5339	6015	11490



### 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	2731	2731	2731	2731	2668	2668	2668	2668	2549	2549	2549	2441	2441	2441	2341	2341	2341	2294
1	2514	2413	2322	2240	2453	2361	2278	2203	2264	2196	2134	2175	2120	2069	2093	2049	2008	1961
2	2298	2120	1972	1848	2239	2077	1941	1826	1996	1882	1784	1922	1827	1743	1853	1775	1705	1657
3	2104	1873	1695	1553	2048	1837	1672	1539	1770	1628	1512	1707	1587	1486	1649	1548	1460	1412
4	1932	1668	1474	1327	1880	1638	1457	1317	1581	1424	1300	1528	1392	1282	1479	1362	1265	1217
5	1781	1496	1297	1150	1734	1471	1284	1144	1423	1258	1132	1378	1233	1120	1336	1210	1108	1060
6	1648	1352	1153	1010	1605	1330	1142	1006	1289	1122	997	1251	1102	988	1216	1083	980	934
7	1531	1229	1034	897	1492	1211	1025	893	1176	1009	887	1143	993	881	1112	977	874	830
8	1427	1124	934	803	1392	1109	927	801	1079	914	796	1050	901	791	1024	888	787	744
9	1335	1034	850	726	1303	1021	844	724	995	833	720	970	822	716	947	812	713	672
10	1253	956	778	660	1224	944	774	659	922	764	656	900	755	653	880	747	650	611

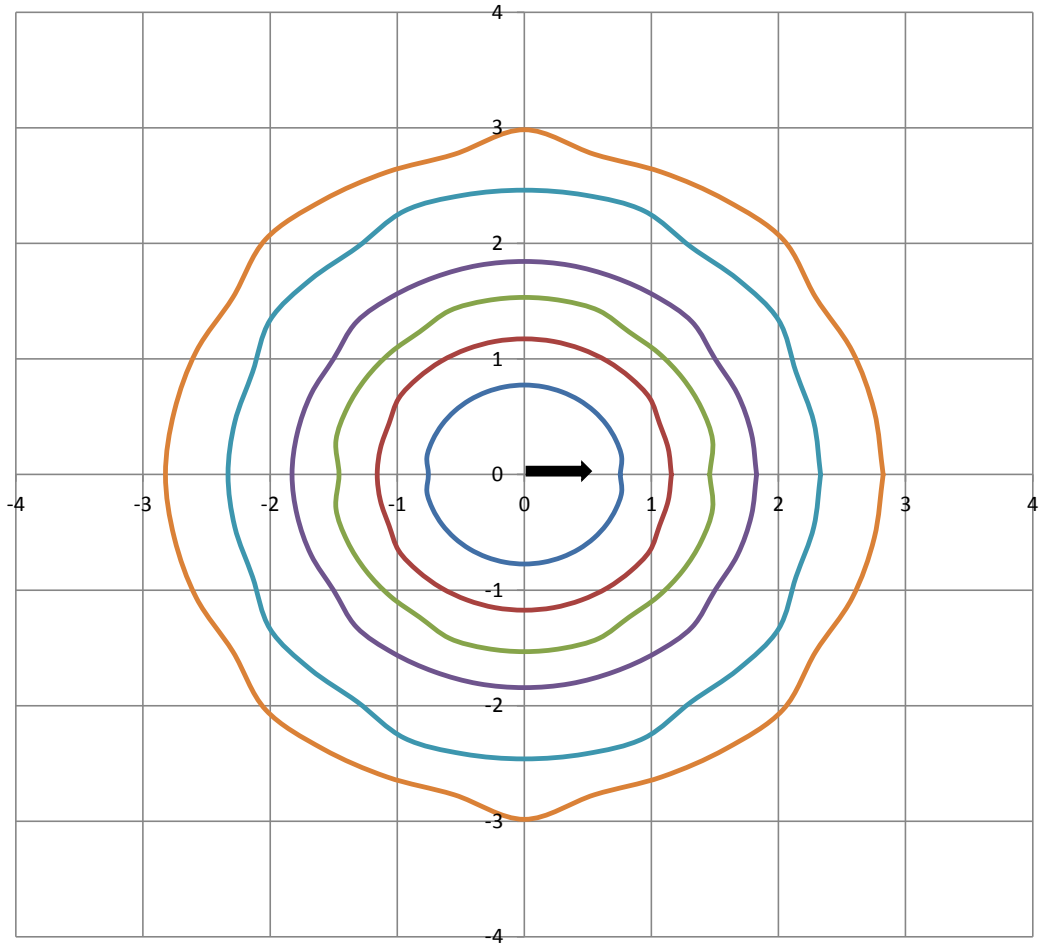
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	934.2 Candela
Central Cone Intensity:	933 Candela
Beam Flux:	1551.2 Lumens
Beam Angle (0-180):	98.0 Degrees
Beam Angle (90-270):	101.7 Degrees
Field Angle (0-180):	149.4 Degrees
Field Angle (90-270):	156.8 Degrees





### ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

