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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
H2L5173080W

Order Number
11464251
Test Number
11464251.08

Test Date

2016-11-01

Prepared By

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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 plastic reflector, clear glass lens enclosure
Lamp: One white LED
Mounting: Track mount
Ballast/Driver: Integrated

Luminaire



Luminaire Characteristics

Luminous Length: 4.00 in.
Luminous Width: 4.500 in.

Summary of Results

Total Luminaire Output: 2544 Lumens
Luminaire Efficacy: 83.8 lm/w
Maximum Candela: 1290 Candela

Test Conditions

Test Temperature: 24.8 °C
Voltage: 120.0 VAC
Current: 0.2558 A
Power: 30.36 W
Power Factor: 0.989
Frequency: 60 Hz
Current THD: 10.1 %

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



Distribution - Goniophotometer

Distribution Test Conditions

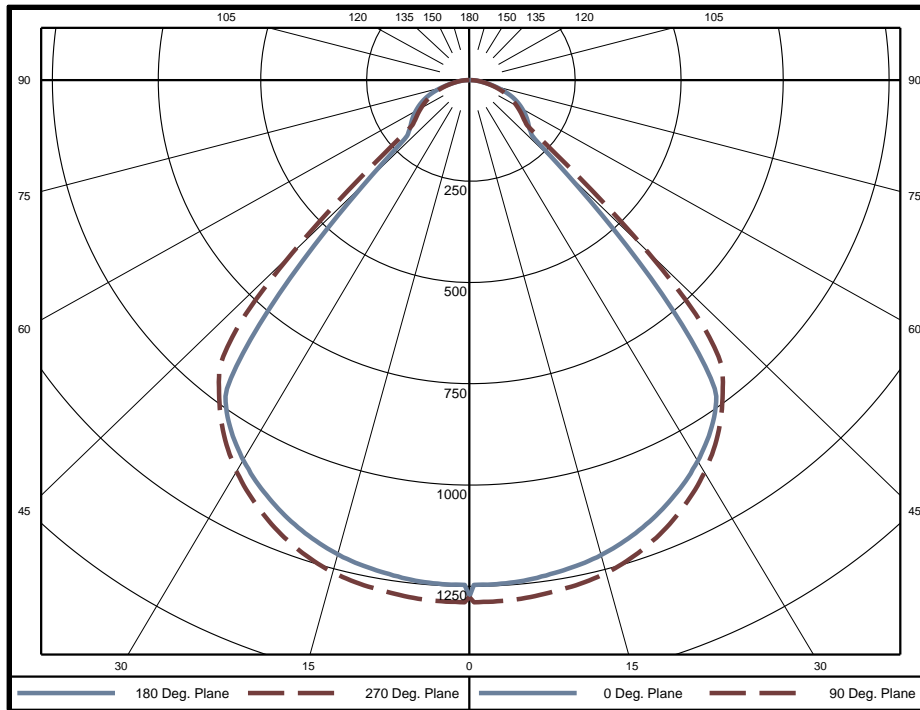
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.0 VAC	0.2558 A	30.36 W	0.989	60 Hz	10.1 %

Summary of Results

Spacing Criteria
 0-180: 1.27
 90-270: 1.27

Total Lumen Output: 2544 Lumens
Luminaire Efficacy: 83.8 lm/w
Maximum Candela: 1290 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	30.5	1.2%	60-65	64.4	2.5%	120-125	0	0.0%
5-10	90.8	3.6%	65-70	54.4	2.1%	125-130	0	0.0%
10-15	148.8	5.8%	70-75	41.4	1.6%	130-135	0	0.0%
15-20	202.5	8.0%	75-80	27.4	1.1%	135-140	0	0.0%
20-25	249.6	9.8%	80-85	15.6	0.6%	140-145	0	0.0%
25-30	288.4	11.3%	85-90	6.1	0.2%	145-150	0	0.0%
30-35	316.5	12.4%	90-95	0	0.0%	150-155	0	0.0%
35-40	327.9	12.9%	95-100	0	0.0%	155-160	0	0.0%
40-45	295.5	11.6%	100-105	0	0.0%	160-165	0	0.0%
45-50	198.2	7.8%	105-110	0	0.0%	165-170	0	0.0%
50-55	111.6	4.4%	110-115	0	0.0%	170-175	0	0.0%
55-60	74.3	2.9%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1655	65.1%
0-60	2335	91.8%
0-90	2544	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	1277	1277	1277	1277	1277	1277	1277	1277	1277	1277	1277	1277	1277	1277	1277	1277
5	1245	1271	1277	1284	1287	1284	1277	1271	1245	1271	1277	1284	1287	1284	1277	1271
10	1233	1258	1265	1273	1277	1273	1265	1258	1233	1258	1265	1273	1277	1273	1265	1258
15	1214	1239	1246	1256	1260	1256	1246	1239	1214	1239	1246	1256	1260	1256	1246	1239
20	1183	1206	1214	1223	1227	1223	1214	1206	1183	1206	1214	1223	1227	1223	1214	1206
25	1141	1163	1169	1176	1180	1176	1169	1163	1141	1163	1169	1176	1180	1176	1169	1163
30	1088	1110	1114	1117	1120	1117	1114	1110	1088	1110	1114	1117	1120	1117	1114	1110
35	1017	1036	1040	1040	1040	1040	1040	1036	1017	1036	1040	1040	1040	1040	1040	1036
40	789	918	945	941	938	941	945	918	789	918	945	941	938	941	945	918
45	333	530	846	781	603	781	846	530	333	530	846	781	603	781	846	530
50	187	218	641	339	203	339	641	218	187	218	641	339	203	339	641	218
55	168	175	258	164	155	164	258	175	168	175	258	164	155	164	258	175
60	148	151	148	139	132	139	148	151	148	151	148	139	132	139	148	151
65	125	128	121	115	110	115	121	128	125	128	121	115	110	115	121	128
70	98	100	93	90	87	90	93	100	98	100	93	90	87	90	93	100
75	67	69	64	63	62	63	64	69	67	69	64	63	62	63	64	69
80	38	40	38	39	38	39	38	40	38	40	38	39	38	39	38	40
85	19	20	20	21	20	21	20	20	19	20	20	21	20	21	20	20
90	0	2	3	3	2	3	3	2	0	2	3	3	2	3	3	2
95	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
105	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
115	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
125	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
135	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
145	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
155	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
165	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
175	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

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

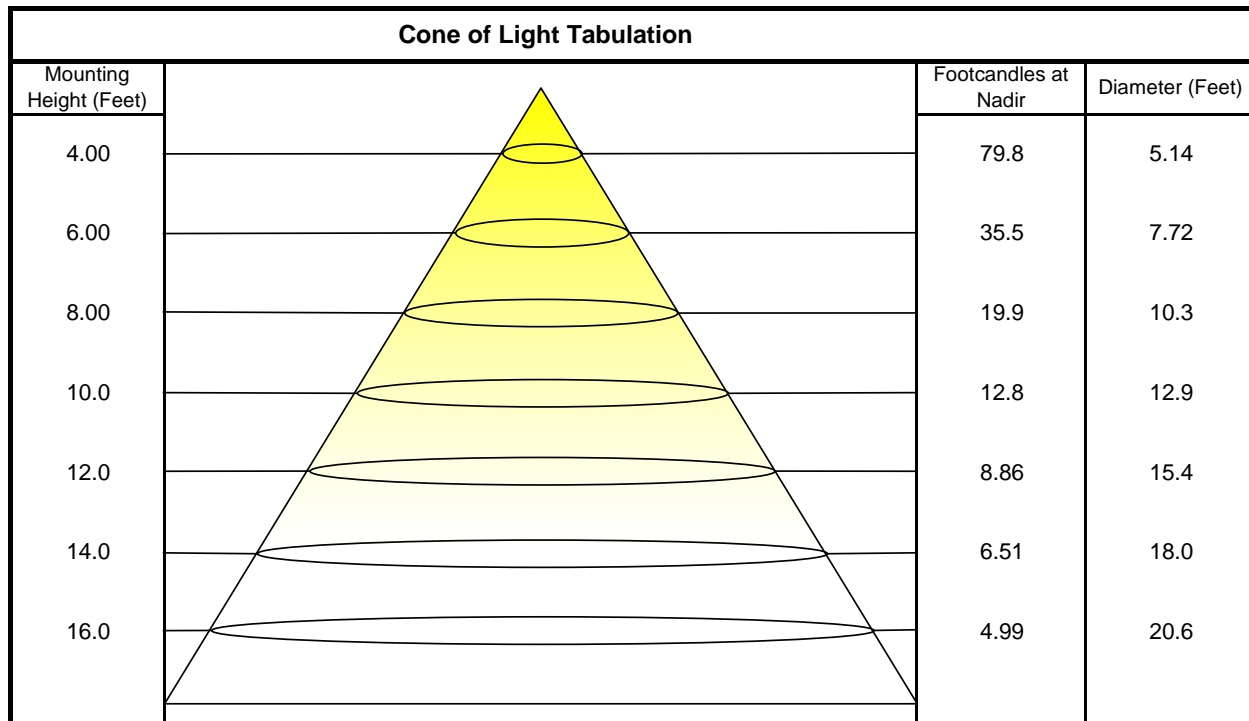
	0	45	90
0	109900	109900	109900
45	40520	103000	73430
55	25240	38750	23190
65	25480	24660	22470
75	22300	21140	20500
85	18820	19560	20060



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	3028	3028	3028	3028	2958	2958	2958	2958	2826	2826	2826	2706	2706	2706	2596	2596	2596	2544
1	2827	2730	2644	2566	2760	2674	2596	2525	2568	2505	2446	2471	2420	2372	2382	2341	2303	2253
2	2625	2456	2316	2199	2563	2410	2282	2173	2324	2217	2124	2244	2155	2077	2170	2097	2032	1984
3	2437	2216	2046	1910	2379	2178	2021	1894	2107	1972	1862	2040	1926	1831	1979	1883	1801	1753
4	2264	2009	1821	1678	2211	1977	1802	1667	1917	1766	1646	1861	1731	1625	1809	1697	1605	1557
5	2107	1828	1633	1489	2058	1801	1618	1481	1751	1590	1466	1703	1562	1452	1660	1536	1438	1390
6	1964	1670	1473	1331	1920	1647	1461	1326	1604	1439	1315	1564	1417	1305	1527	1397	1295	1248
7	1834	1532	1336	1198	1794	1512	1326	1194	1476	1308	1187	1441	1291	1179	1409	1274	1172	1127
8	1717	1411	1218	1085	1680	1394	1210	1082	1362	1196	1077	1333	1182	1071	1305	1168	1065	1022
9	1611	1304	1116	988	1578	1289	1109	986	1262	1097	982	1236	1086	978	1212	1074	973	931
10	1515	1209	1026	905	1485	1197	1021	903	1173	1011	900	1151	1002	896	1129	992	893	852

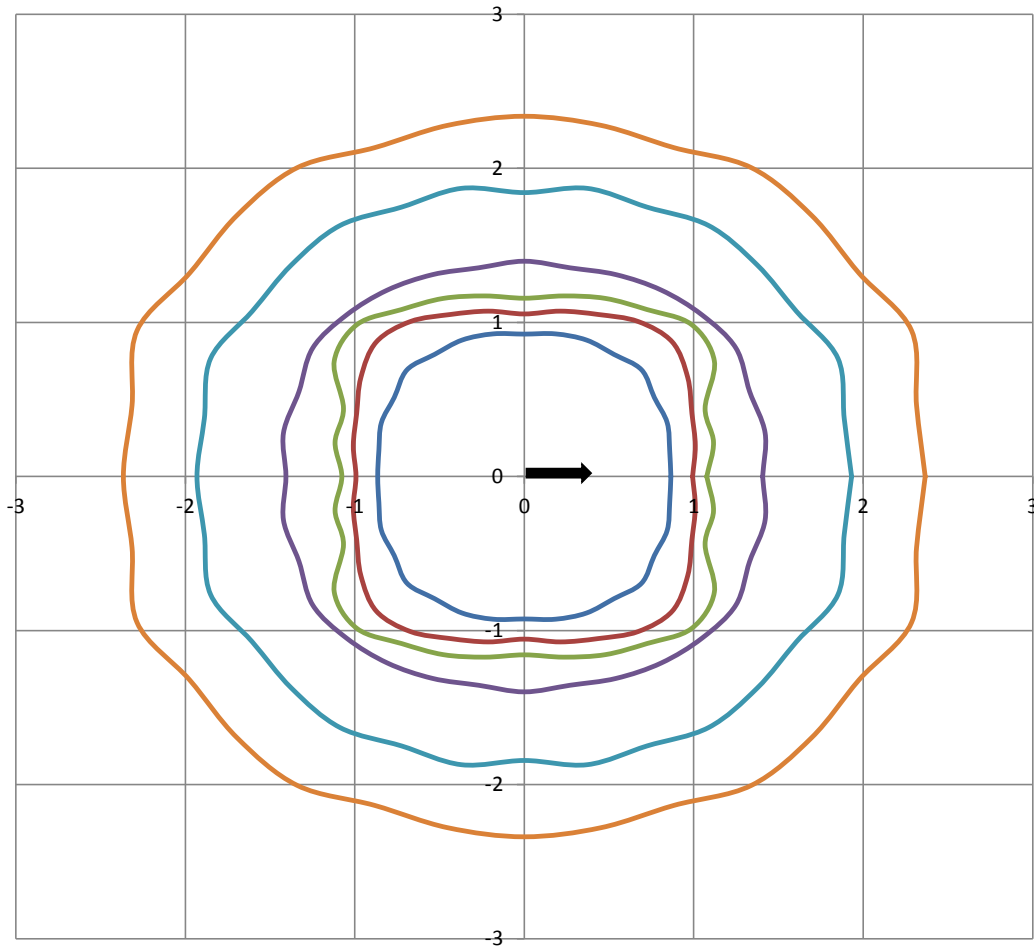
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	1277 Candela
Central Cone Intensity:	1276 Candela
Beam Flux:	2023.9 Lumens
Beam Angle (0-180):	83.3 Degrees
Beam Angle (90-270):	89.3 Degrees
Field Angle (0-180):	128.9 Degrees
Field Angle (90-270):	122.1 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

