



UL Verification Services Inc.
7036 Snowdrift Road
Allentown, PA 18106
610-774-1300



Indoor Distribution Test Report

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

Prepared For
Jesco Lighting Group LLC
15 Harbor Park Dr
Port Washington, NY 11050
United States

Catalog Number
AP09H-LED3090-AP09S02WH
Order Number
12173939
Test Number
12173939.03

Test Date

2018-02-10

Prepared By

Dane Hernandez-Adams, Technician

Approved By

Alexa Lambert, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Gray formed aluminum housing, frosted glass diffuser
Lamp: One white LED
Mounting: Pendant
Ballast/Driver: One L.T.F. DS35W0700C2042D010-0020 driver

Luminaire



Luminaire Characteristics

Luminous Diameter: 9.00 in.
Luminous Height: 7.000 in.

Summary of Results

Total Luminaire Output:	2486 Lumens
Luminaire Efficacy:	86.1 lm/w
Maximum Candela:	1282 Candela

Test Conditions

Test Temperature:	25.0 °C
Voltage:	120.0 VAC
Current:	0.2413 A
Power:	28.86 W
Power Factor:	0.997
Frequency:	60 Hz
Current THD:	3.25 %

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



Distribution - Goniophotometer

Distribution Test Conditions

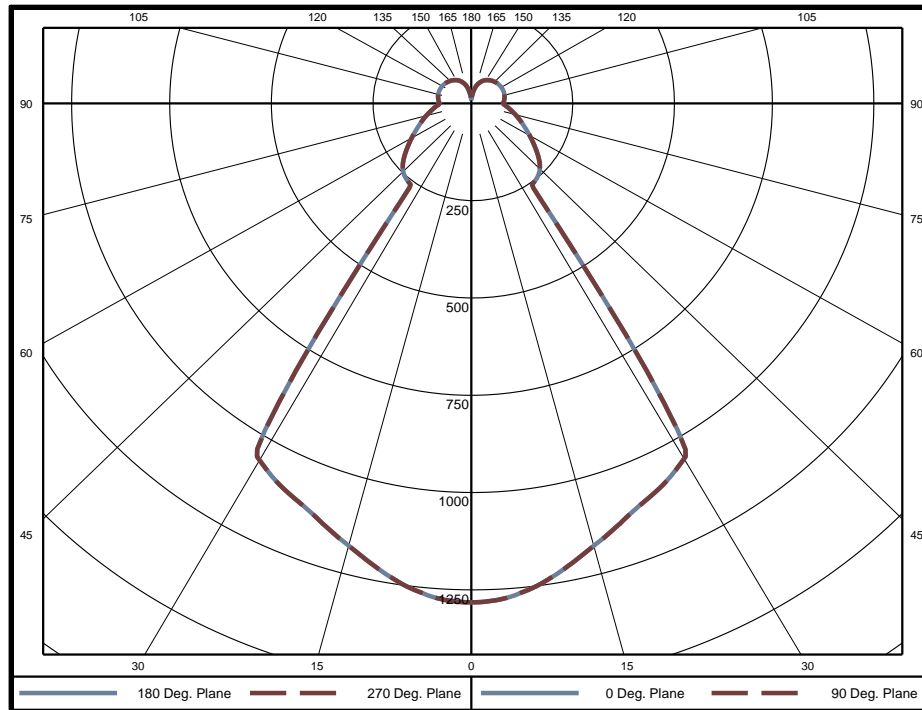
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	0.2413 A	28.86 W	0.997	60 Hz	3.25 %

Summary of Results

Spacing Criteria
 0-180: 1.21
 90-270: 1.21

Total Lumen Output: 2486 Lumens
Luminaire Efficacy: 86.1 lm/w
Maximum Candela: 1282 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	77.2	3.1%	120-125	39.3	1.6%
5-10	89.3	3.6%	65-70	70.5	2.8%	125-130	36.3	1.5%
10-15	142.5	5.7%	70-75	64.2	2.6%	130-135	32.9	1.3%
15-20	190.2	7.7%	75-80	57.7	2.3%	135-140	29.2	1.2%
20-25	233.4	9.4%	80-85	51.6	2.1%	140-145	25.2	1.0%
25-30	272.8	11.0%	85-90	45.8	1.8%	145-150	21.1	0.8%
30-35	221.9	8.9%	90-95	44.1	1.8%	150-155	16.9	0.7%
35-40	85.9	3.5%	95-100	45.1	1.8%	155-160	12.6	0.5%
40-45	91.7	3.7%	100-105	45.4	1.8%	160-165	8.6	0.3%
45-50	93.4	3.8%	105-110	45.0	1.8%	165-170	4.8	0.2%
50-55	89.8	3.6%	110-115	43.7	1.8%	170-175	1.9	0.1%
55-60	83.8	3.4%	115-120	41.8	1.7%	175-180	0.3	0.0%

Zone	Lumens	% of Luminaire
0-40	1267	50.9%
0-60	1625	65.4%
0-90	1992	80.1%
90-180	494	19.9%



Candela Tabulation
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	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	1282	1282	1282	1282	1282	1282	1282	1282	1282	1282	1282	1282	1282	1282	1282	1282
5	1268	1268	1268	1268	1268	1268	1268	1268	1268	1268	1268	1268	1268	1268	1268	1268
10	1228	1228	1228	1228	1228	1228	1228	1228	1228	1228	1228	1228	1228	1228	1228	1228
15	1178	1178	1178	1178	1178	1178	1178	1178	1178	1178	1178	1178	1178	1178	1178	1178
20	1132	1132	1132	1132	1132	1132	1132	1132	1132	1132	1132	1132	1132	1132	1132	1132
25	1097	1097	1097	1097	1097	1097	1097	1097	1097	1097	1097	1097	1097	1097	1097	1097
30	1057	1057	1057	1057	1057	1057	1057	1057	1057	1057	1057	1057	1057	1057	1057	1057
35	309	309	309	309	309	309	309	309	309	309	309	309	309	309	309	309
40	253	253	253	253	253	253	253	253	253	253	253	253	253	253	253	253
45	241	241	241	241	241	241	241	241	241	241	241	241	241	241	241	241
50	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220
55	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194
60	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
65	149	149	149	149	149	149	149	149	149	149	149	149	149	149	149	149
70	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131
75	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
80	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
85	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
90	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
95	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
100	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84
105	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86
110	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86
115	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86
120	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86
125	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84
130	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
135	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
140	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77
145	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74
150	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
155	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64
160	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56
165	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
170	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
175	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
180	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

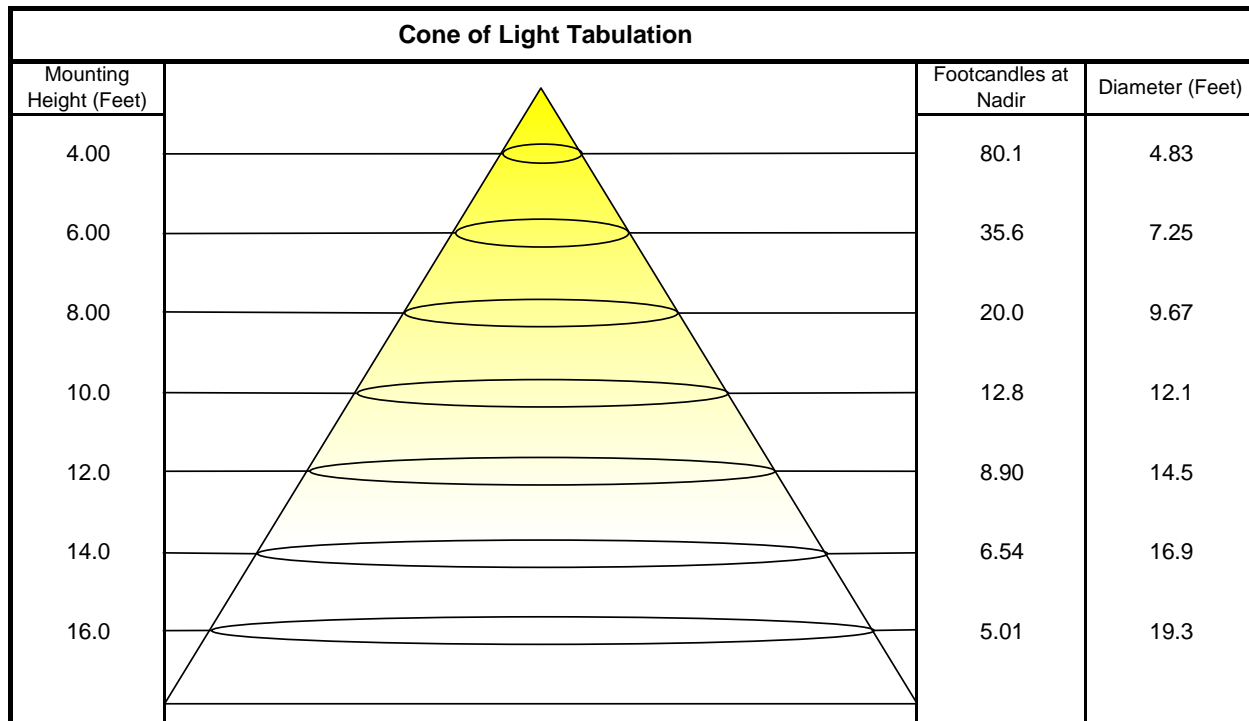
Vertical Angle (Degrees)	Horizontal Angle (Degrees)		
	0	45	90
0	31230	31230	31230
45	5900	5900	5900
55	4813	4813	4813
65	3795	3795	3795
75	3067	3067	3067
85	2513	2513	2513



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	2842	2842	2842	2842	2719	2719	2719	2719	2488	2488	2488	2277	2277	2277	2083	2083	2083	1992
1	2599	2487	2385	2294	2482	2382	2292	2211	2187	2117	2052	2008	1953	1902	1843	1801	1762	1679
2	2395	2211	2058	1930	2286	2123	1985	1869	1957	1847	1752	1804	1717	1641	1663	1595	1534	1458
3	2215	1984	1806	1663	2115	1909	1748	1617	1768	1636	1528	1637	1531	1441	1516	1430	1358	1287
4	2057	1796	1605	1459	1965	1732	1558	1423	1610	1466	1352	1497	1379	1283	1392	1296	1216	1152
5	1916	1637	1441	1297	1832	1581	1402	1268	1476	1326	1211	1378	1253	1155	1286	1183	1100	1041
6	1790	1500	1306	1166	1714	1452	1273	1142	1360	1208	1095	1275	1147	1049	1194	1087	1003	948
7	1677	1382	1191	1058	1608	1340	1163	1038	1260	1108	998	1184	1055	959	1114	1004	920	869
8	1575	1279	1094	966	1512	1242	1069	949	1171	1022	915	1105	976	882	1042	932	849	801
9	1483	1189	1009	888	1426	1156	988	873	1093	947	844	1034	907	815	978	868	787	742
10	1400	1109	935	820	1348	1080	917	807	1024	881	782	971	845	757	920	811	732	690

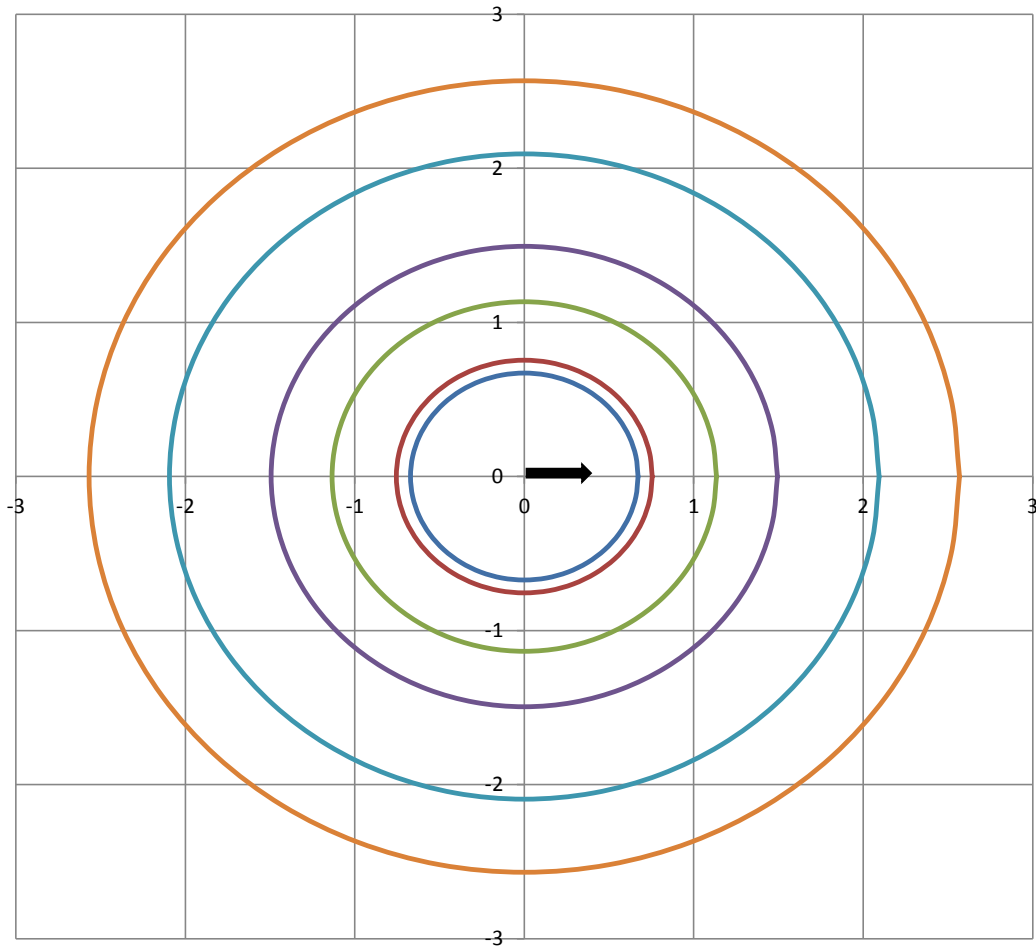
Beam and Field Information	
CIE Type:	Semi-Direct
Center Beam Intensity:	1282 Candela
Central Cone Intensity:	1277 Candela
Beam Flux:	1130.8 Lumens
Beam Angle (0-180):	66.5 Degrees
Beam Angle (90-270):	66.5 Degrees
Field Angle (0-180):	141.6 Degrees
Field Angle (90-270):	141.6 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

