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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-AP09S04
Order Number
12173939
Test Number
12173939.04

Test Date

2018-02-09

Prepared By

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Approved By

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The results contained in this report pertain only to the tested sample.
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Luminaire Description: Gray formed aluminum housing, white formed aluminum reflector, no lens enclosure
Lamp: One white LED
Mounting: Pendant
Ballast/Driver: One L.T.F. DS35W0700C2042D010-0020 driver

Luminaire



Luminaire Characteristics

Luminous Diameter: 9.00 in.

Summary of Results

Total Luminaire Output:	2348 Lumens
Luminaire Efficacy:	81.2 lm/w
Maximum Candela:	1761 Candela

Test Conditions

Test Temperature:	24.6 °C
Voltage:	120.0 VAC
Current:	0.2419 A
Power:	28.93 W
Power Factor:	0.997
Frequency:	60 Hz
Current THD:	3.24 %

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



Distribution - Goniophotometer

Distribution Test Conditions

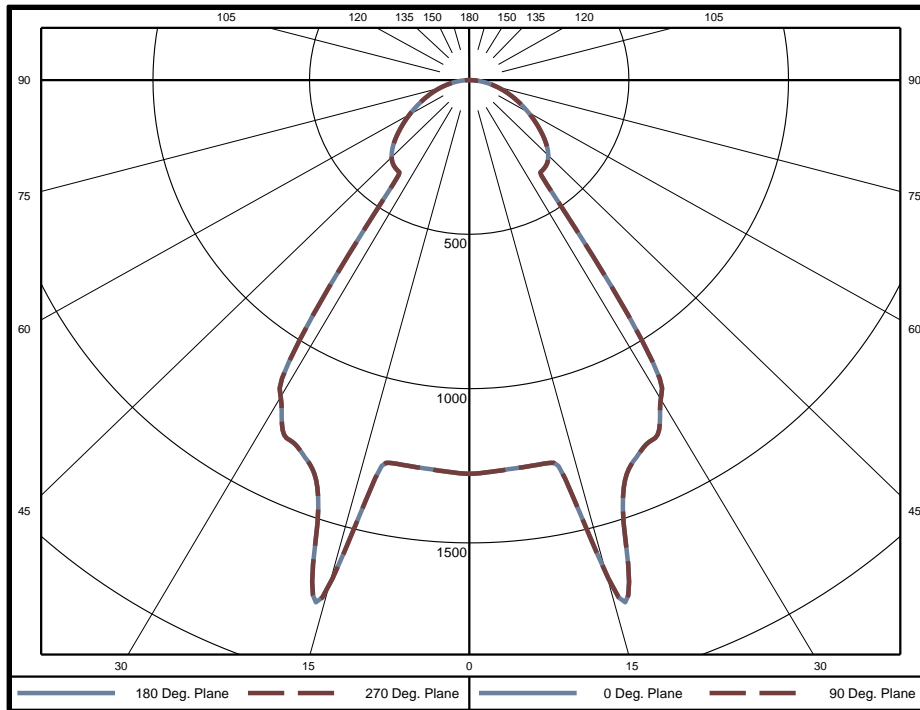
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.0 VAC	0.2419 A	28.93 W	0.997	60 Hz	3.24 %

Summary of Results

Spacing Criteria
 0-180: 1.26
 90-270: 1.26

Total Lumen Output: 2348 Lumens
Luminaire Efficacy: 81.2 lm/w
Maximum Candela: 1761 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	30.4	1.3%	60-65	93.3	4.0%	120-125	0	0.0%
5-10	90.6	3.9%	65-70	76.0	3.2%	125-130	0	0.0%
10-15	162.5	6.9%	70-75	58.4	2.5%	130-135	0	0.0%
15-20	264.6	11.3%	75-80	40.6	1.7%	135-140	0	0.0%
20-25	281.0	12.0%	80-85	23.4	1.0%	140-145	0	0.0%
25-30	319.8	13.6%	85-90	7.3	0.3%	145-150	0	0.0%
30-35	273.9	11.7%	90-95	0	0.0%	150-155	0	0.0%
35-40	126.5	5.4%	95-100	0	0.0%	155-160	0	0.0%
40-45	133.0	5.7%	100-105	0	0.0%	160-165	0	0.0%
45-50	133.1	5.7%	105-110	0	0.0%	165-170	0	0.0%
50-55	123.9	5.3%	110-115	0	0.0%	170-175	0	0.0%
55-60	109.7	4.7%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1549	66.0%
0-60	2049	87.3%
0-90	2348	100.0%
90-180	0	0.0%



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	1276	1276	1276	1276	1276	1276	1276	1276	1276	1276	1276	1276	1276	1276	1276	1276
5	1268	1268	1268	1268	1268	1268	1268	1268	1268	1268	1268	1268	1268	1268	1268	1268
10	1265	1265	1265	1265	1265	1265	1265	1265	1265	1265	1265	1265	1265	1265	1265	1265
15	1673	1673	1673	1673	1673	1673	1673	1673	1673	1673	1673	1673	1673	1673	1673	1673
20	1406	1406	1406	1406	1406	1406	1406	1406	1406	1406	1406	1406	1406	1406	1406	1406
25	1303	1303	1303	1303	1303	1303	1303	1303	1303	1303	1303	1303	1303	1303	1303	1303
30	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192
35	488	488	488	488	488	488	488	488	488	488	488	488	488	488	488	488
40	368	368	368	368	368	368	368	368	368	368	368	368	368	368	368	368
45	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348
50	309	309	309	309	309	309	309	309	309	309	309	309	309	309	309	309
55	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261
60	214	214	214	214	214	214	214	214	214	214	214	214	214	214	214	214
65	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
70	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131
75	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
80	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
85	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
90	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	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)

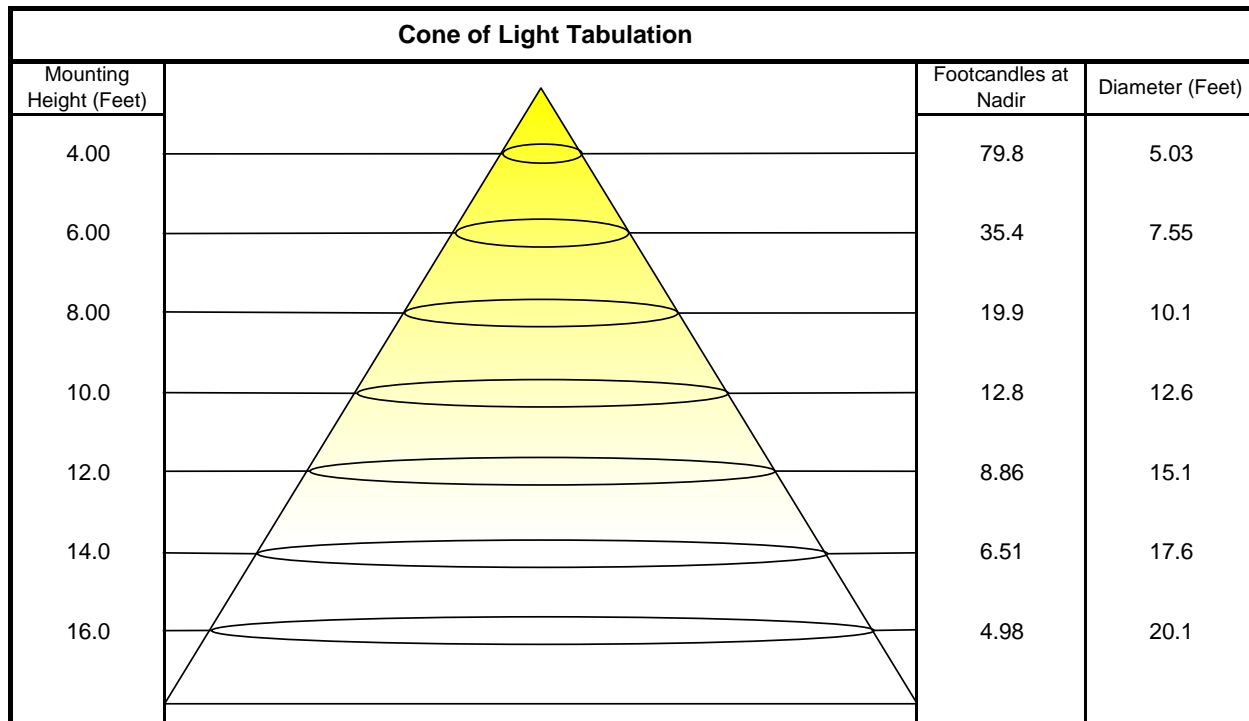
Vertical Angle (Degrees)	Horizontal Angle (Degrees)		
	0	45	90
0	31090	31090	31090
45	11980	11980	11980
55	11100	11100	11100
65	9824	9824	9824
75	8793	8793	8793
85	7708	7708	7708



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	2795	2795	2795	2795	2730	2730	2730	2730	2609	2609	2609	2498	2498	2498	2396	2396	2396	2348
1	2599	2505	2422	2346	2537	2453	2377	2308	2355	2293	2236	2265	2215	2169	2182	2142	2105	2059
2	2409	2248	2115	2002	2352	2205	2083	1979	2125	2023	1934	2051	1966	1891	1982	1913	1850	1804
3	2237	2030	1869	1741	2184	1995	1846	1726	1928	1801	1697	1866	1759	1669	1809	1719	1642	1596
4	2083	1845	1671	1538	2034	1816	1653	1528	1760	1620	1508	1709	1587	1489	1661	1557	1470	1426
5	1946	1688	1508	1375	1901	1663	1494	1368	1617	1468	1354	1573	1443	1341	1533	1419	1328	1284
6	1821	1552	1371	1242	1781	1531	1361	1237	1492	1340	1227	1455	1320	1217	1420	1301	1208	1166
7	1710	1434	1256	1130	1673	1416	1247	1127	1383	1230	1120	1351	1215	1113	1322	1199	1106	1065
8	1609	1331	1156	1036	1575	1316	1149	1033	1287	1136	1028	1260	1123	1023	1234	1110	1017	978
9	1517	1240	1070	955	1487	1227	1064	953	1202	1053	949	1178	1042	945	1156	1032	941	903
10	1434	1159	994	884	1407	1147	989	883	1126	980	879	1105	971	876	1086	962	873	837

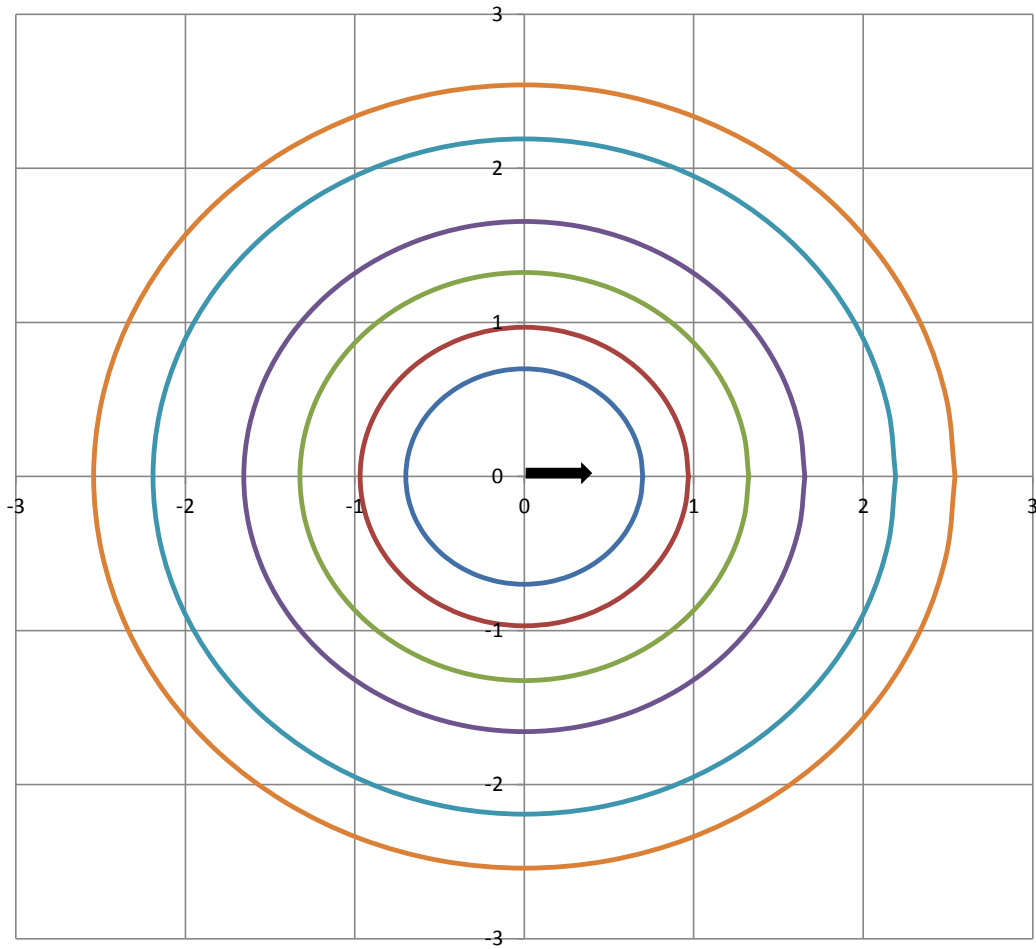
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	1276 Candela
Central Cone Intensity:	1272 Candela
Beam Flux:	1396.0 Lumens
Beam Angle (0-180):	68.4 Degrees
Beam Angle (90-270):	68.4 Degrees
Field Angle (0-180):	140.8 Degrees
Field Angle (90-270):	140.8 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

