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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  
**AP12H-LED3090-AP12S02WH**  
Order Number  
12173939  
Test Number  
12173939.05

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. DS75W1750C3043D010-0020 driver

**Luminaire**



**Luminaire Characteristics**

Luminous Diameter: 12.00 in.  
Luminous Height: 10.00 in.

**Summary of Results**

Total Luminaire Output:	5691 Lumens
Luminaire Efficacy:	81.6 lm/w
Maximum Candela:	2906 Candela

**Test Conditions**

Test Temperature:	25.3 °C
Voltage:	120.0 VAC
Current:	0.5840 A
Power:	69.76 W
Power Factor:	0.996
Frequency:	60 Hz
Current THD:	5.73 %

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



## Distribution - Goniophotometer

### Distribution Test Conditions

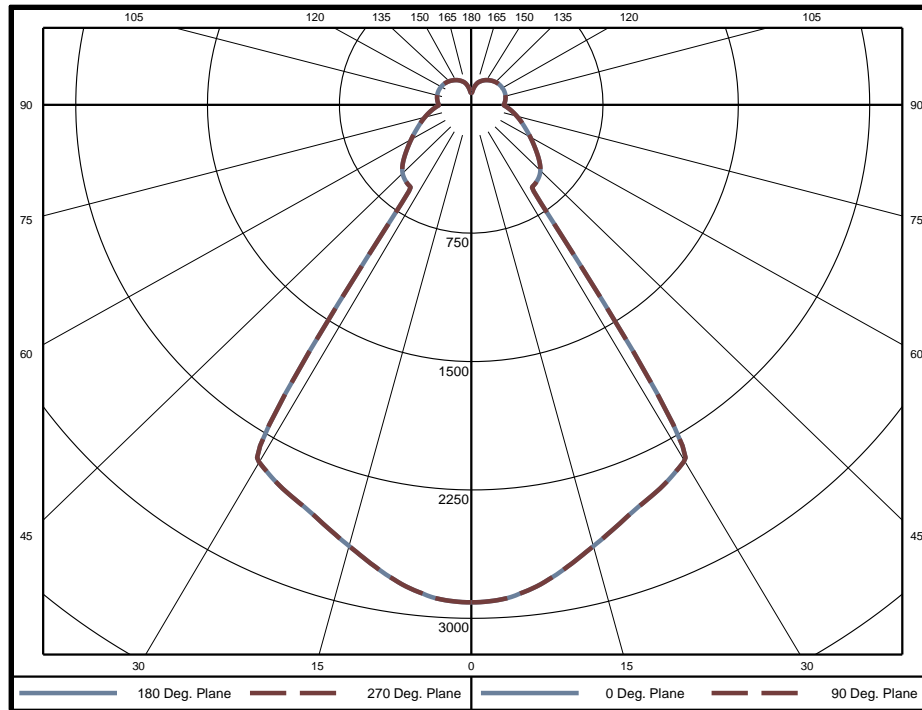
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.3 °C	120.0 VAC	0.5840 A	69.76 W	0.996	60 Hz	5.73 %

### Summary of Results

**Spacing Criteria**  
 0-180: 1.20  
 90-270: 1.20

**Total Lumen Output:** 5691 Lumens  
**Luminaire Efficacy:** 81.6 lm/w  
**Maximum Candela:** 2906 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	69.2	1.2%	60-65	177.8	3.1%	120-125	92.7	1.6%
5-10	202.5	3.6%	65-70	163.8	2.9%	125-130	85.8	1.5%
10-15	323.2	5.7%	70-75	150.3	2.6%	130-135	77.8	1.4%
15-20	431.1	7.6%	75-80	135.9	2.4%	135-140	69.0	1.2%
20-25	529.6	9.3%	80-85	121.3	2.1%	140-145	59.7	1.0%
25-30	620.2	10.9%	85-90	106.3	1.9%	145-150	50.3	0.9%
30-35	467.8	8.2%	90-95	102.9	1.8%	150-155	41.0	0.7%
35-40	195.9	3.4%	95-100	105.5	1.9%	155-160	31.7	0.6%
40-45	210.3	3.7%	100-105	106.3	1.9%	160-165	22.9	0.4%
45-50	213.5	3.8%	105-110	105.4	1.9%	165-170	14.4	0.3%
50-55	204.8	3.6%	110-115	102.7	1.8%	170-175	7.0	0.1%
55-60	191.8	3.4%	115-120	98.4	1.7%	175-180	1.8	0.0%

Zone	Lumens	% of Luminaire
0-40	2840	49.9%
0-60	3660	64.3%
0-90	4515	79.3%
90-180	1175	20.7%



**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	2906	2906	2906	2906	2906	2906	2906	2906	2906	2906	2906	2906	2906	2906	2906	2906
5	2877	2877	2877	2877	2877	2877	2877	2877	2877	2877	2877	2877	2877	2877	2877	2877
10	2786	2786	2786	2786	2786	2786	2786	2786	2786	2786	2786	2786	2786	2786	2786	2786
15	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670
20	2566	2566	2566	2566	2566	2566	2566	2566	2566	2566	2566	2566	2566	2566	2566	2566
25	2491	2491	2491	2491	2491	2491	2491	2491	2491	2491	2491	2491	2491	2491	2491	2491
30	2408	2408	2408	2408	2408	2408	2408	2408	2408	2408	2408	2408	2408	2408	2408	2408
35	617	617	617	617	617	617	617	617	617	617	617	617	617	617	617	617
40	580	580	580	580	580	580	580	580	580	580	580	580	580	580	580	580
45	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553
50	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501	501
55	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442	442
60	389	389	389	389	389	389	389	389	389	389	389	389	389	389	389	389
65	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343	343
70	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305
75	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270
80	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238
85	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208
90	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185
95	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191
100	197	197	197	197	197	197	197	197	197	197	197	197	197	197	197	197
105	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201
110	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203
115	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203
120	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202
125	199	199	199	199	199	199	199	199	199	199	199	199	199	199	199	199
130	195	195	195	195	195	195	195	195	195	195	195	195	195	195	195	195
135	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190
140	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183
145	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175
150	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167
155	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157
160	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145
165	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131
170	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109
175	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
180	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70

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

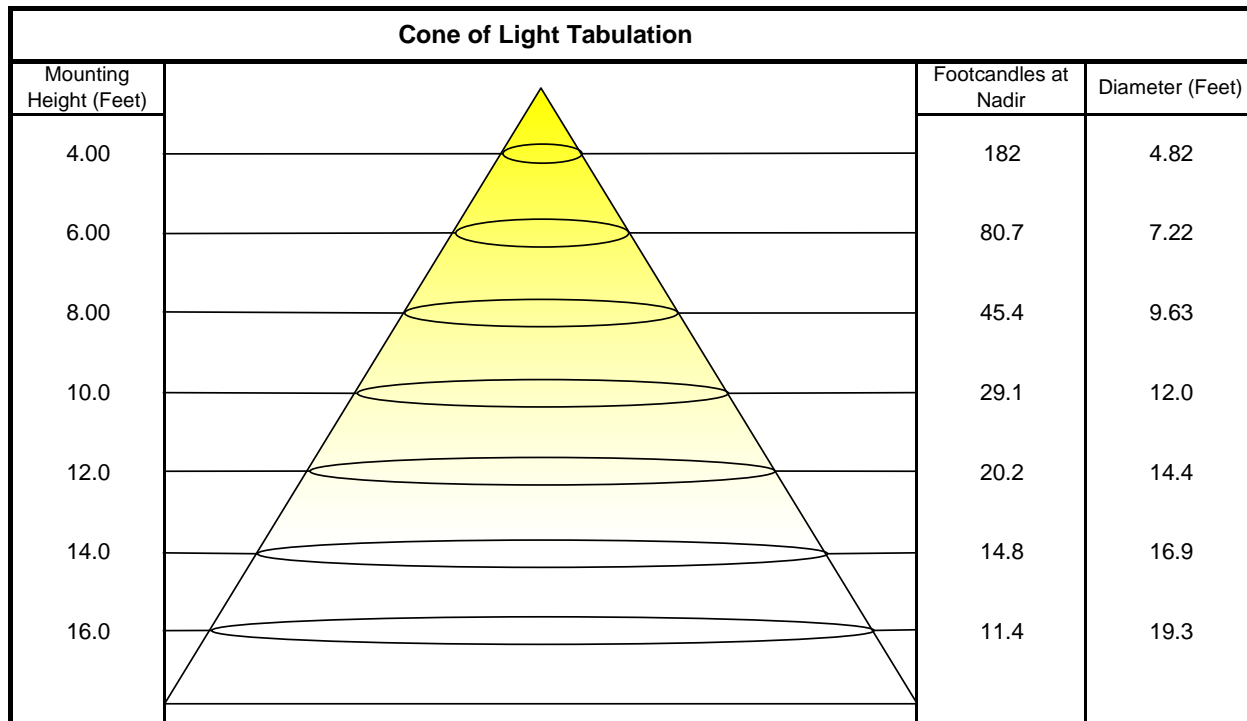
	0	45	90
0	39830	39830	39830
45	7575	7575	7575
55	6092	6092	6092
65	4809	4809	4809
75	3893	3893	3893
85	3127	3127	3127



### 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	6495	6495	6495	6495	6207	6207	6207	6207	5670	5670	5670	5179	5179	5179	4727	4727	4727	4515
1	5935	5674	5441	5231	5662	5432	5224	5036	4977	4814	4665	4560	4433	4316	4175	4078	3988	3794
2	5465	5040	4689	4393	5212	4835	4519	4252	4449	4196	3978	4093	3893	3718	3763	3608	3468	3291
3	5053	4522	4111	3783	4820	4347	3975	3675	4016	3714	3465	3711	3467	3262	3427	3233	3066	2903
4	4690	4091	3652	3317	4477	3940	3541	3232	3656	3326	3065	3392	3122	2903	3147	2927	2746	2596
5	4367	3726	3279	2948	4173	3596	3186	2879	3351	3007	2744	3122	2836	2613	2908	2673	2484	2345
6	4079	3415	2969	2649	3903	3302	2891	2593	3088	2740	2481	2888	2595	2372	2700	2456	2264	2136
7	3821	3146	2709	2402	3660	3047	2642	2355	2859	2513	2261	2683	2388	2169	2518	2268	2078	1959
8	3590	2912	2486	2193	3443	2825	2429	2153	2659	2317	2073	2503	2209	1995	2356	2105	1917	1806
9	3380	2707	2294	2015	3246	2629	2244	1981	2482	2147	1912	2343	2053	1844	2211	1961	1777	1674
10	3191	2525	2126	1861	3068	2456	2083	1831	2324	1997	1772	2200	1914	1713	2082	1834	1655	1558

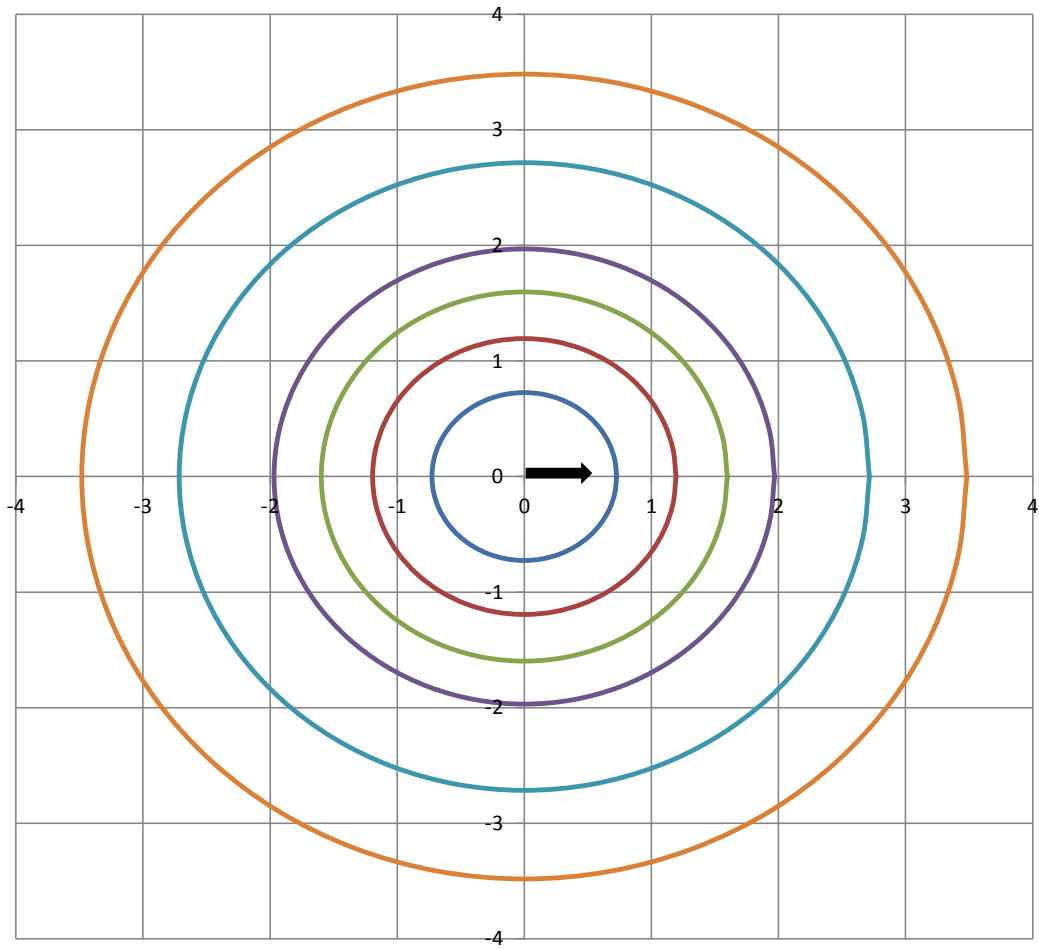
Beam and Field Information	
CIE Type:	Semi-Direct
Center Beam Intensity:	2906 Candela
Central Cone Intensity:	2897 Candela
Beam Flux:	2519.6 Lumens
Beam Angle (0-180):	65.8 Degrees
Beam Angle (90-270):	65.8 Degrees
Field Angle (0-180):	144.1 Degrees
Field Angle (90-270):	144.1 Degrees





# ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

