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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  
**AP16H-LED3090 with AP16S02WH**

Order Number  
12243341  
Test Number  
12243341.01

Test Date

2018-04-12

Prepared By

Cordaryl Cousar, 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/steel housing, frosted glass lens enclosure  
**Lamp:** One white LED  
**Mounting:** Pendant  
**Ballast/Driver:** LTF DS96W1750C

**Luminaire**



**Luminaire Characteristics**

Luminous Diameter: 15.00 in.  
Luminous Height: 13.00 in.

**Summary of Results**

Total Luminaire Output: 10200 Lumens  
Luminaire Efficacy: 103 lm/w  
Maximum Candela: 5174 Candela

**Test Conditions**

Test Temperature: 24.6 °C  
Voltage: 120.1 VAC  
Current: 0.8273 A  
Power: 99.03 W  
Power Factor: 0.997  
Frequency: 60 Hz  
Current THD: 5.71 %

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



## Distribution - Goniophotometer

### Distribution Test Conditions

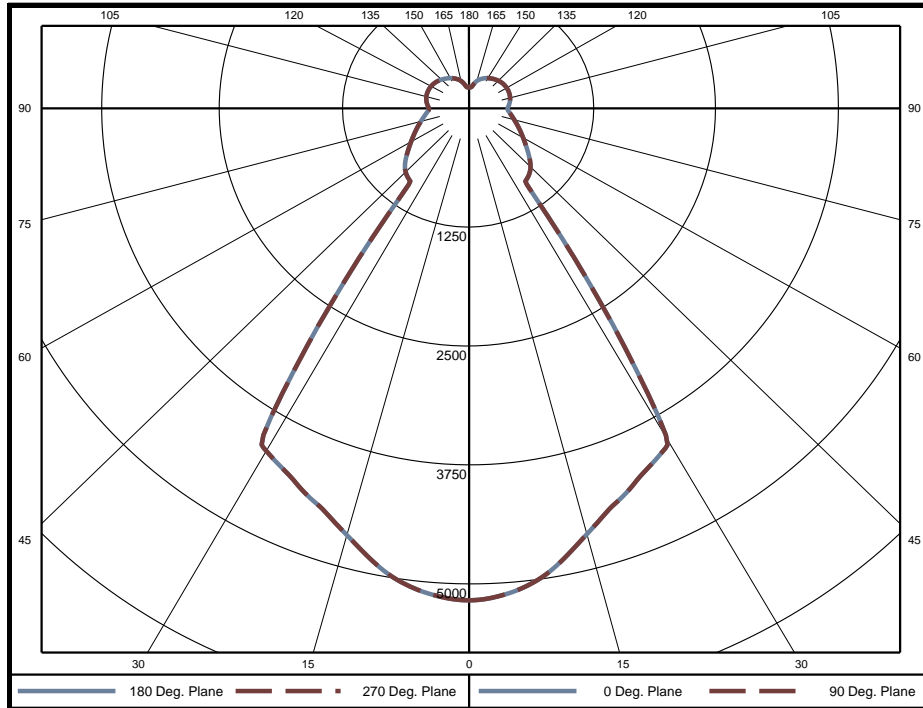
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.1 VAC	0.8273 A	99.03 W	0.997	60 Hz	5.71 %

### Summary of Results

**Spacing Criteria**  
 0-180: 1.15  
 90-270: 1.15

**Total Lumen Output:** 10200 Lumens  
**Luminaire Efficacy:** 103.0 lm/w  
**Maximum Candela:** 5174 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	123	1.2%	60-65	292	2.9%	120-125	201	2.0%
5-10	358	3.5%	65-70	276	2.7%	125-130	186	1.8%
10-15	565	5.5%	70-75	259	2.5%	130-135	169	1.7%
15-20	741	7.3%	75-80	243	2.4%	135-140	151	1.5%
20-25	901	8.8%	80-85	227	2.2%	140-145	131	1.3%
25-30	1045	10.2%	85-90	215	2.1%	145-150	111	1.1%
30-35	786	7.7%	90-95	216	2.1%	150-155	91	0.9%
35-40	328	3.2%	95-100	223	2.2%	155-160	71	0.7%
40-45	335	3.3%	100-105	226	2.2%	160-165	52	0.5%
45-50	337	3.3%	105-110	225	2.2%	165-170	33	0.3%
50-55	325	3.2%	110-115	221	2.2%	170-175	17	0.2%
55-60	308	3.0%	115-120	212	2.1%	175-180	5	0.0%

Zone	Lumens	% of Luminaire
0-40	4847	47.5%
0-60	6152	60.3%
0-90	7664	75.1%
90-180	2541	24.9%



**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	5174	5174	5174	5174	5174	5174	5174	5174	5174	5174	5174	5174	5174	5174	5174	5174
5	5103	5103	5103	5103	5103	5103	5103	5103	5103	5103	5103	5103	5103	5103	5103	5103
10	4911	4911	4911	4911	4911	4911	4911	4911	4911	4911	4911	4911	4911	4911	4911	4911
15	4626	4626	4626	4626	4626	4626	4626	4626	4626	4626	4626	4626	4626	4626	4626	4626
20	4393	4393	4393	4393	4393	4393	4393	4393	4393	4393	4393	4393	4393	4393	4393	4393
25	4206	4206	4206	4206	4206	4206	4206	4206	4206	4206	4206	4206	4206	4206	4206	4206
30	3969	3969	3969	3969	3969	3969	3969	3969	3969	3969	3969	3969	3969	3969	3969	3969
35	1379	1379	1379	1379	1379	1379	1379	1379	1379	1379	1379	1379	1379	1379	1379	1379
40	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930
45	876	876	876	876	876	876	876	876	876	876	876	876	876	876	876	876
50	791	791	791	791	791	791	791	791	791	791	791	791	791	791	791	791
55	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705
60	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632	632
65	571	571	571	571	571	571	571	571	571	571	571	571	571	571	571	571
70	519	519	519	519	519	519	519	519	519	519	519	519	519	519	519	519
75	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473
80	435	435	435	435	435	435	435	435	435	435	435	435	435	435	435	435
85	403	403	403	403	403	403	403	403	403	403	403	403	403	403	403	403
90	388	388	388	388	388	388	388	388	388	388	388	388	388	388	388	388
95	403	403	403	403	403	403	403	403	403	403	403	403	403	403	403	403
100	418	418	418	418	418	418	418	418	418	418	418	418	418	418	418	418
105	428	428	428	428	428	428	428	428	428	428	428	428	428	428	428	428
110	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434
115	436	436	436	436	436	436	436	436	436	436	436	436	436	436	436	436
120	436	436	436	436	436	436	436	436	436	436	436	436	436	436	436	436
125	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432
130	424	424	424	424	424	424	424	424	424	424	424	424	424	424	424	424
135	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413
140	399	399	399	399	399	399	399	399	399	399	399	399	399	399	399	399
145	384	384	384	384	384	384	384	384	384	384	384	384	384	384	384	384
150	367	367	367	367	367	367	367	367	367	367	367	367	367	367	367	367
155	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348
160	326	326	326	326	326	326	326	326	326	326	326	326	326	326	326	326
165	297	297	297	297	297	297	297	297	297	297	297	297	297	297	297	297
170	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257
175	224	224	224	224	224	224	224	224	224	224	224	224	224	224	224	224
180	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226

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

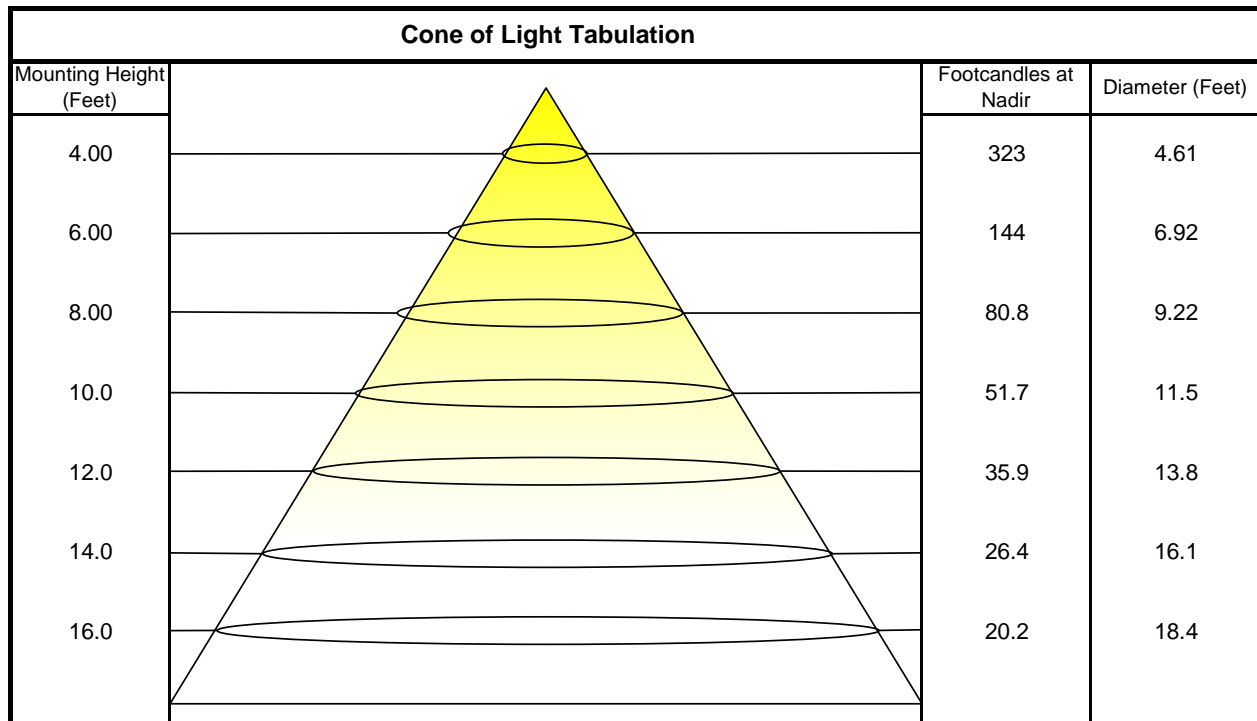
	0	45	90
0	45380	45380	45380
45	7679	7679	7679
55	6191	6191	6191
65	5063	5063	5063
75	4276	4276	4276
85	3763	3763	3763



### 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	11541	11541	11541	11541	10977	10977	10977	10977	9925	9925	9925	8962	8962	8962	8078	8078	8078	7662
1	10524	10052	9630	9249	9990	9575	9200	8861	8681	8389	8121	7860	7635	7428	7103	6934	6776	6399
2	9687	8923	8291	7759	9192	8517	7953	7473	7755	7308	6922	7053	6703	6396	6404	6134	5893	5552
3	8955	8003	7266	6679	8500	7656	6993	6459	7002	6469	6030	6398	5973	5616	5837	5503	5216	4907
4	8310	7238	6453	5854	7895	6940	6229	5679	6376	5796	5336	5853	5383	5003	5366	4990	4679	4396
5	7737	6592	5792	5201	7359	6334	5604	5059	5845	5242	4779	5389	4894	4506	4965	4562	4239	3980
6	7226	6040	5244	4673	6882	5815	5085	4555	5388	4777	4322	4989	4482	4094	4615	4197	3870	3633
7	6769	5564	4783	4236	6454	5366	4647	4137	4990	4383	3940	4638	4128	3747	4307	3882	3557	3337
8	6357	5149	4389	3867	6070	4974	4271	3782	4641	4042	3615	4329	3821	3449	4034	3606	3286	3083
9	5986	4785	4049	3552	5724	4630	3946	3479	4333	3746	3334	4054	3552	3192	3790	3364	3050	2861
10	5651	4463	3752	3279	5410	4324	3662	3216	4059	3486	3090	3808	3314	2966	3571	3148	2843	2667

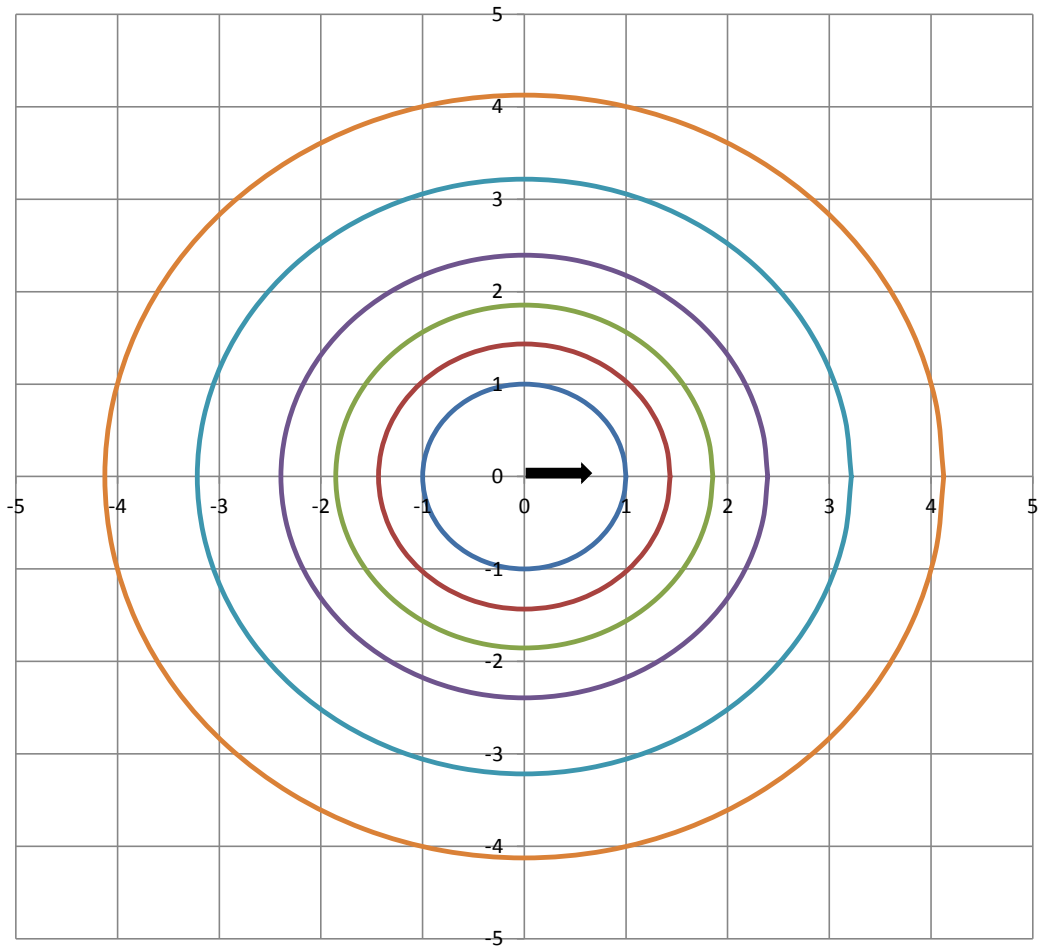
Beam and Field Information	
CIE Type:	Semi-Direct
Center Beam Intensity:	5174 Candela
Central Cone Intensity:	5147 Candela
Beam Flux:	4246.3 Lumens
Beam Angle (0-180):	65.4 Degrees
Beam Angle (90-270):	65.4 Degrees
Field Angle (0-180):	140.3 Degrees
Field Angle (90-270):	140.3 Degrees





### ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

