



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
AP12H-LED3090-AP12S04
Order Number
12173939
Test Number
12173939.06

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, white formed aluminum reflector, no lens enclosure
Lamp: One white LED
Mounting: Pendant
Ballast/Driver: One L.T.F. DS75W1750C3043D010-0020 driver

Luminaire



Luminaire Characteristics

Luminous Diameter: 12.00 in.

Summary of Results

Total Luminaire Output:	4842 Lumens
Luminaire Efficacy:	69.4 lm/w
Maximum Candela:	3927 Candela

Test Conditions

Test Temperature:	25.0 °C
Voltage:	120.0 VAC
Current:	0.5843 A
Power:	69.80 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

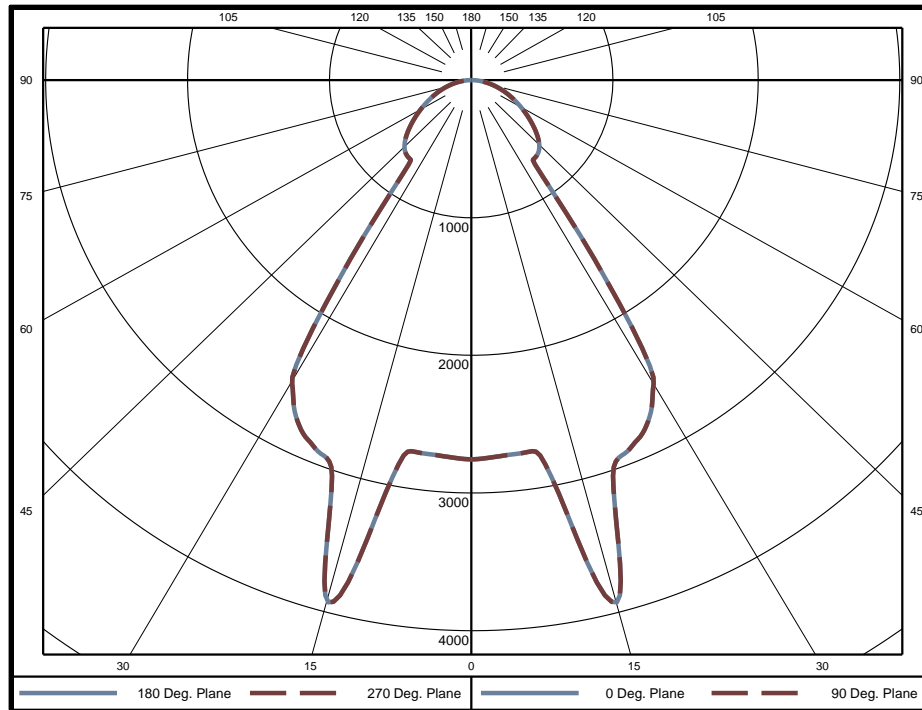
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	0.5843 A	69.80 W	0.996	60 Hz	5.73 %

Summary of Results

Spacing Criteria
 0-180: 1.23
 90-270: 1.23

Total Lumen Output: 4842 Lumens
Luminaire Efficacy: 69.4 lm/w
Maximum Candela: 3927 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	65.6	1.4%	60-65	177.2	3.7%	120-125	0	0.0%
5-10	195.6	4.0%	65-70	144.3	3.0%	125-130	0	0.0%
10-15	408.2	8.4%	70-75	111.0	2.3%	130-135	0	0.0%
15-20	556.9	11.5%	75-80	77.2	1.6%	135-140	0	0.0%
20-25	606.3	12.5%	80-85	44.3	0.9%	140-145	0	0.0%
25-30	683.7	14.1%	85-90	14.0	0.3%	145-150	0	0.0%
30-35	550.1	11.4%	90-95	0	0.0%	150-155	0	0.0%
35-40	248.2	5.1%	95-100	0	0.0%	155-160	0	0.0%
40-45	257.6	5.3%	100-105	0	0.0%	160-165	0	0.0%
45-50	256.0	5.3%	105-110	0	0.0%	165-170	0	0.0%
50-55	236.8	4.9%	110-115	0	0.0%	170-175	0	0.0%
55-60	208.7	4.3%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	3315	68.5%
0-60	4274	88.3%
0-90	4842	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	2755	2755	2755	2755	2755	2755	2755	2755	2755	2755	2755	2755	2755	2755	2755	2755
5	2736	2736	2736	2736	2736	2736	2736	2736	2736	2736	2736	2736	2736	2736	2736	2736
10	2769	2769	2769	2769	2769	2769	2769	2769	2769	2769	2769	2769	2769	2769	2769	2769
15	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927
20	2950	2950	2950	2950	2950	2950	2950	2950	2950	2950	2950	2950	2950	2950	2950	2950
25	2831	2831	2831	2831	2831	2831	2831	2831	2831	2831	2831	2831	2831	2831	2831	2831
30	2547	2547	2547	2547	2547	2547	2547	2547	2547	2547	2547	2547	2547	2547	2547	2547
35	988	988	988	988	988	988	988	988	988	988	988	988	988	988	988	988
40	713	713	713	713	713	713	713	713	713	713	713	713	713	713	713	713
45	672	672	672	672	672	672	672	672	672	672	672	672	672	672	672	672
50	592	592	592	592	592	592	592	592	592	592	592	592	592	592	592	592
55	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498
60	407	407	407	407	407	407	407	407	407	407	407	407	407	407	407	407
65	323	323	323	323	323	323	323	323	323	323	323	323	323	323	323	323
70	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248
75	178	178	178	178	178	178	178	178	178	178	178	178	178	178	178	178
80	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112
85	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52
90	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
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)

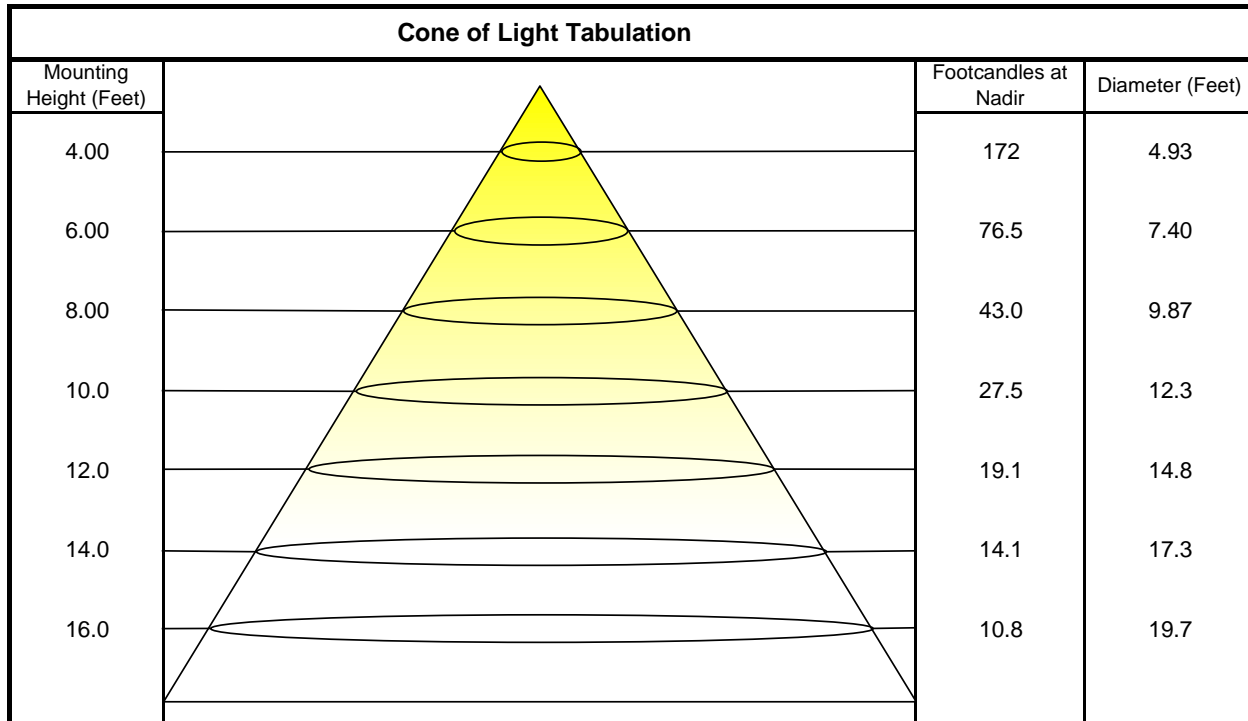
Vertical Angle (Degrees)	Horizontal Angle (Degrees)		
	0	45	90
0	37760	37760	37760
45	13020	13020	13020
55	11900	11900	11900
65	10490	10490	10490
75	9400	9400	9400
85	8196	8196	8196



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	5764	5764	5764	5764	5630	5630	5630	5630	5380	5380	5380	5151	5151	5151	4940	4940	4940	4842
1	5371	5184	5016	4865	5244	5076	4924	4787	4875	4751	4637	4689	4589	4497	4519	4439	4365	4270
2	4992	4669	4401	4176	4874	4581	4336	4128	4416	4211	4034	4264	4094	3945	4123	3984	3860	3767
3	4647	4230	3908	3651	4538	4158	3860	3620	4022	3768	3559	3896	3681	3500	3779	3598	3443	3351
4	4337	3858	3508	3240	4237	3798	3472	3219	3685	3402	3178	3579	3335	3138	3481	3272	3099	3009
5	4058	3539	3177	2910	3967	3489	3149	2895	3394	3095	2867	3305	3044	2839	3222	2994	2811	2723
6	3806	3263	2899	2638	3723	3221	2877	2627	3140	2835	2607	3065	2794	2587	2995	2755	2567	2482
7	3578	3022	2662	2410	3503	2986	2645	2402	2917	2611	2387	2853	2578	2372	2793	2546	2358	2275
8	3372	2810	2458	2215	3304	2780	2443	2210	2721	2416	2198	2665	2389	2187	2613	2363	2176	2097
9	3184	2623	2279	2047	3123	2596	2268	2043	2546	2245	2034	2498	2223	2026	2452	2202	2018	1941
10	3014	2456	2123	1901	2958	2433	2113	1897	2389	2094	1891	2347	2076	1884	2308	2058	1878	1804

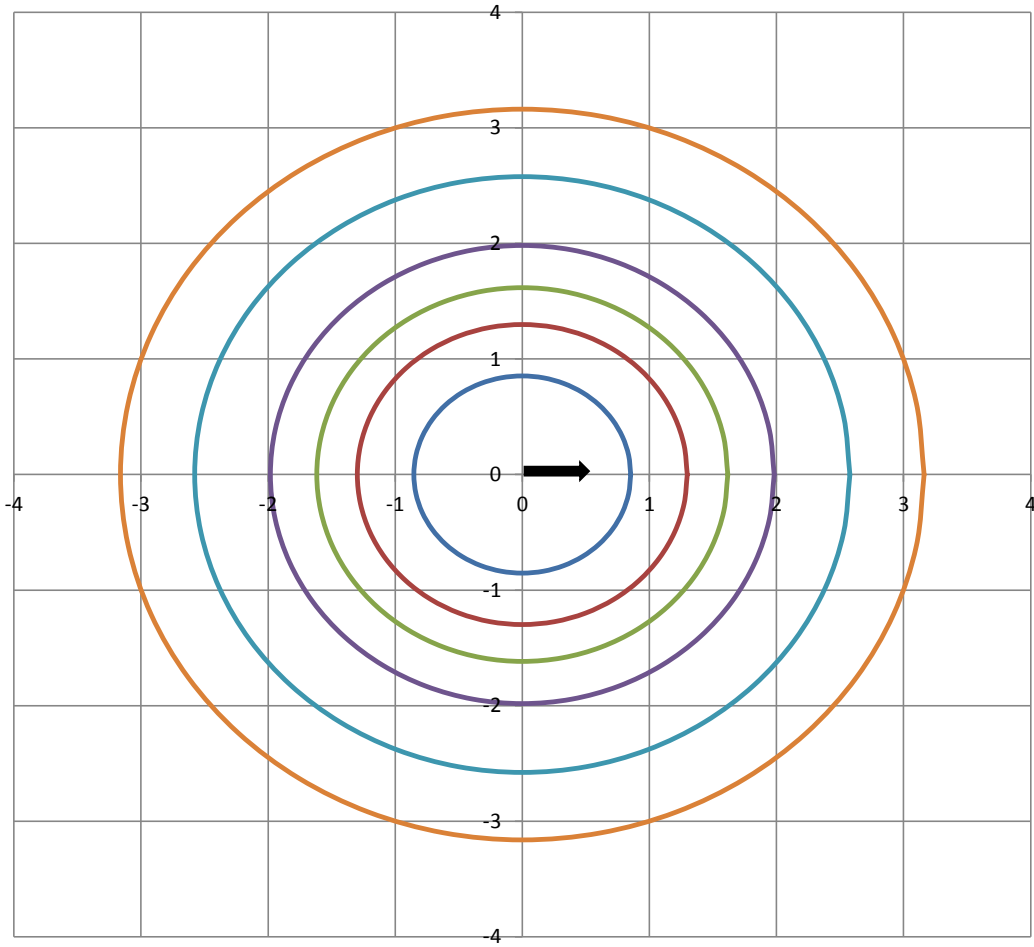
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	2755 Candela
Central Cone Intensity:	2746 Candela
Beam Flux:	2988.4 Lumens
Beam Angle (0-180):	67.9 Degrees
Beam Angle (90-270):	67.9 Degrees
Field Angle (0-180):	136.2 Degrees
Field Angle (90-270):	136.2 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

