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Allentown, PA 18106
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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 AP16S04
Order Number
12243341
Test Number
12243341.02

Test Date

2018-03-30

Prepared By

Cordaryl Cousar, Technician

Approved By

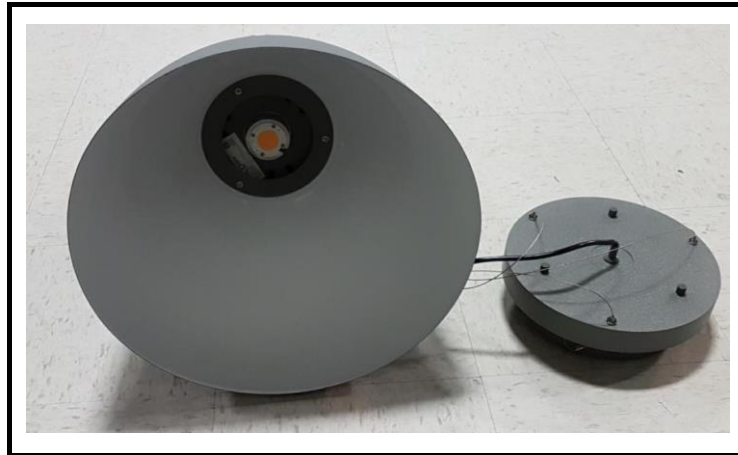
Alexa Lambert, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Gray formed aluminum/steel housing, white formed aluminum reflector, no lens enclosure
Lamp: One white LED
Mounting: Pendant
Ballast/Driver: LTF DS96W1750C

Luminaire



Luminaire Characteristics
Luminous Diameter: 16.00 in.

Summary of Results

Total Luminaire Output:	8017 Lumens
Luminaire Efficacy:	81 lm/w
Maximum Candela:	6613 Candela

Test Conditions

Test Temperature:	24.3 °C
Voltage:	120.1 VAC
Current:	0.8265 A
Power:	98.93 W
Power Factor:	0.997
Frequency:	60 Hz
Current THD:	5.68 %

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



Distribution - Goniophotometer

Distribution Test Conditions

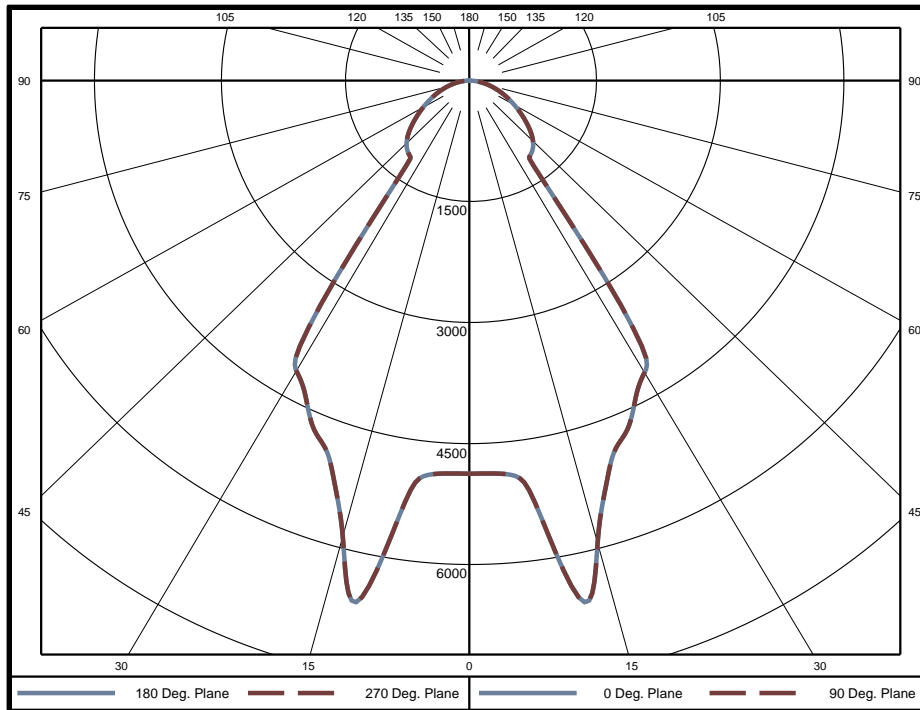
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.3 °C	120.1 VAC	0.8265 A	98.93 W	0.997	60 Hz	5.68 %

Summary of Results

Spacing Criteria
 0-180: 1.24
 90-270: 1.24

Total Lumen Output: 8017 Lumens
Luminaire Efficacy: 81.0 lm/w
Maximum Candela: 6613 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	117	1.5%	60-65	275	3.4%	120-125	0	0.0%
5-10	374	4.7%	65-70	222	2.8%	125-130	0	0.0%
10-15	754	9.4%	70-75	168	2.1%	130-135	0	0.0%
15-20	884	11.0%	75-80	116	1.4%	135-140	0	0.0%
20-25	1002	12.5%	80-85	66	0.8%	140-145	0	0.0%
25-30	1101	13.7%	85-90	20	0.2%	145-150	0	0.0%
30-35	982	12.2%	90-95	0	0.0%	150-155	0	0.0%
35-40	413	5.2%	95-100	0	0.0%	155-160	0	0.0%
40-45	415	5.2%	100-105	0	0.0%	160-165	0	0.0%
45-50	408	5.1%	105-110	0	0.0%	165-170	0	0.0%
50-55	374	4.7%	110-115	0	0.0%	170-175	0	0.0%
55-60	327	4.1%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	5627	70.2%
0-60	7151	89.2%
0-90	8018	100.0%
90-180	0	0.0%



Candela Tabulation
Horizontal Angle (Degrees)

Vertical 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	4875	4875	4875	4875	4875	4875	4875	4875	4875	4875	4875	4875	4875	4875	4875	4875
	5	4897	4897	4897	4897	4897	4897	4897	4897	4897	4897	4897	4897	4897	4897	4897	4897
	10	5951	5951	5951	5951	5951	5951	5951	5951	5951	5951	5951	5951	5951	5951	5951	5951
	15	5917	5917	5917	5917	5917	5917	5917	5917	5917	5917	5917	5917	5917	5917	5917	5917
	20	4978	4978	4978	4978	4978	4978	4978	4978	4978	4978	4978	4978	4978	4978	4978	4978
	25	4587	4587	4587	4587	4587	4587	4587	4587	4587	4587	4587	4587	4587	4587	4587	4587
	30	4179	4179	4179	4179	4179	4179	4179	4179	4179	4179	4179	4179	4179	4179	4179	4179
	35	1723	1723	1723	1723	1723	1723	1723	1723	1723	1723	1723	1723	1723	1723	1723	1723
	40	1158	1158	1158	1158	1158	1158	1158	1158	1158	1158	1158	1158	1158	1158	1158	1158
	45	1075	1075	1075	1075	1075	1075	1075	1075	1075	1075	1075	1075	1075	1075	1075	1075
	50	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940
	55	782	782	782	782	782	782	782	782	782	782	782	782	782	782	782	782
	60	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634	634
	65	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
	70	379	379	379	379	379	379	379	379	379	379	379	379	379	379	379	379
	75	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268
80	168	168	168	168	168	168	168	168	168	168	168	168	168	168	168	168	
85	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	
90	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
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)

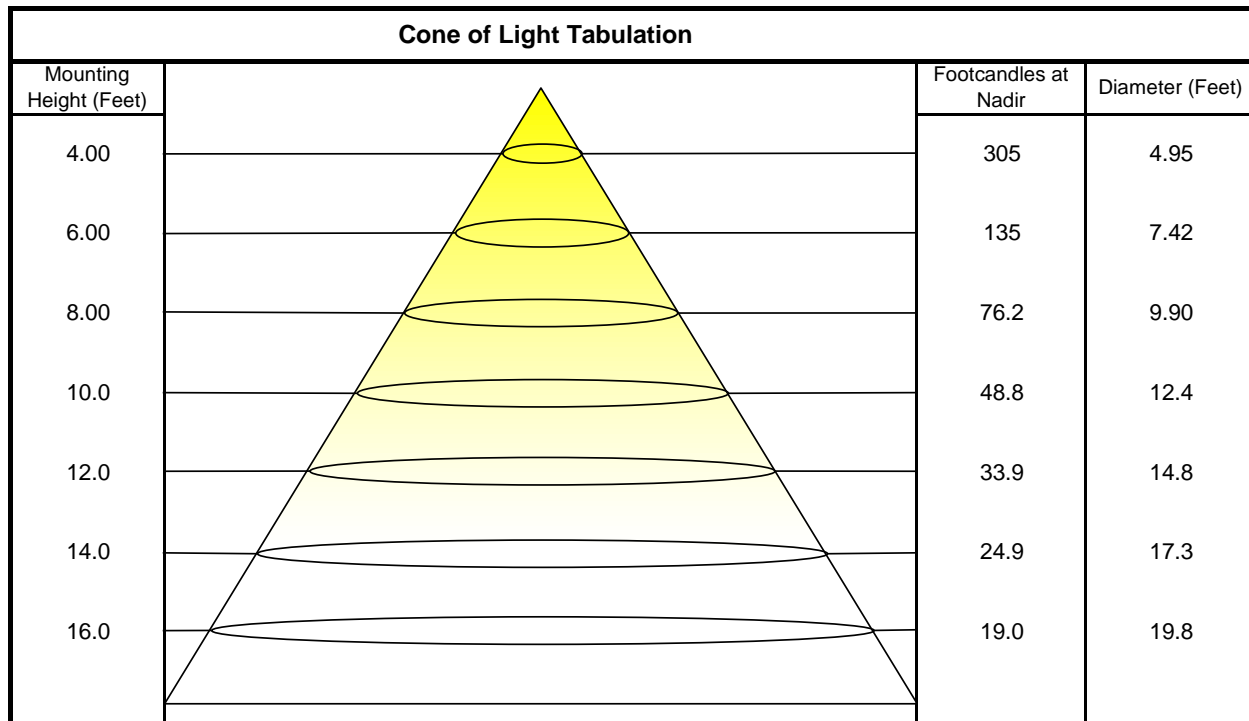
Vertical Angle (Degrees)	0	45	90	
	0	37590	37590	37590
	45	11720	11720	11720
	55	10510	10510	10510
	65	9120	9120	9120
	75	7981	7981	7981
	85	6712	6712	6712



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	9544	9544	9544	9544	9322	9322	9322	9322	8907	8907	8907	8528	8528	8528	8180	8180	8180	8017
1	8910	8608	8337	8093	8702	8430	8185	7962	8097	7897	7714	7791	7630	7481	7510	7382	7262	7106
2	8296	7772	7339	6974	8102	7628	7231	6894	7356	7024	6738	7105	6831	6590	6873	6649	6448	6295
3	7734	7058	6535	6118	7555	6939	6456	6066	6715	6303	5964	6507	6159	5866	6315	6022	5772	5621
4	7228	6450	5880	5445	7064	6351	5820	5410	6164	5705	5341	5991	5595	5275	5829	5490	5210	5062
5	6770	5926	5337	4901	6621	5844	5291	4877	5687	5202	4829	5541	5116	4783	5405	5035	4737	4594
6	6356	5472	4879	4453	6221	5402	4843	4435	5270	4772	4401	5146	4705	4368	5031	4640	4335	4196
7	5981	5075	4487	4075	5859	5016	4458	4063	4903	4402	4038	4797	4348	4013	4698	4296	3989	3854
8	5641	4725	4149	3753	5530	4674	4126	3744	4578	4080	3725	4487	4036	3706	4401	3993	3688	3558
9	5332	4415	3854	3474	5231	4371	3834	3467	4288	3797	3453	4209	3761	3439	4135	3725	3425	3299
10	5051	4139	3594	3231	4959	4101	3578	3225	4029	3547	3214	3960	3516	3203	3895	3487	3192	3071

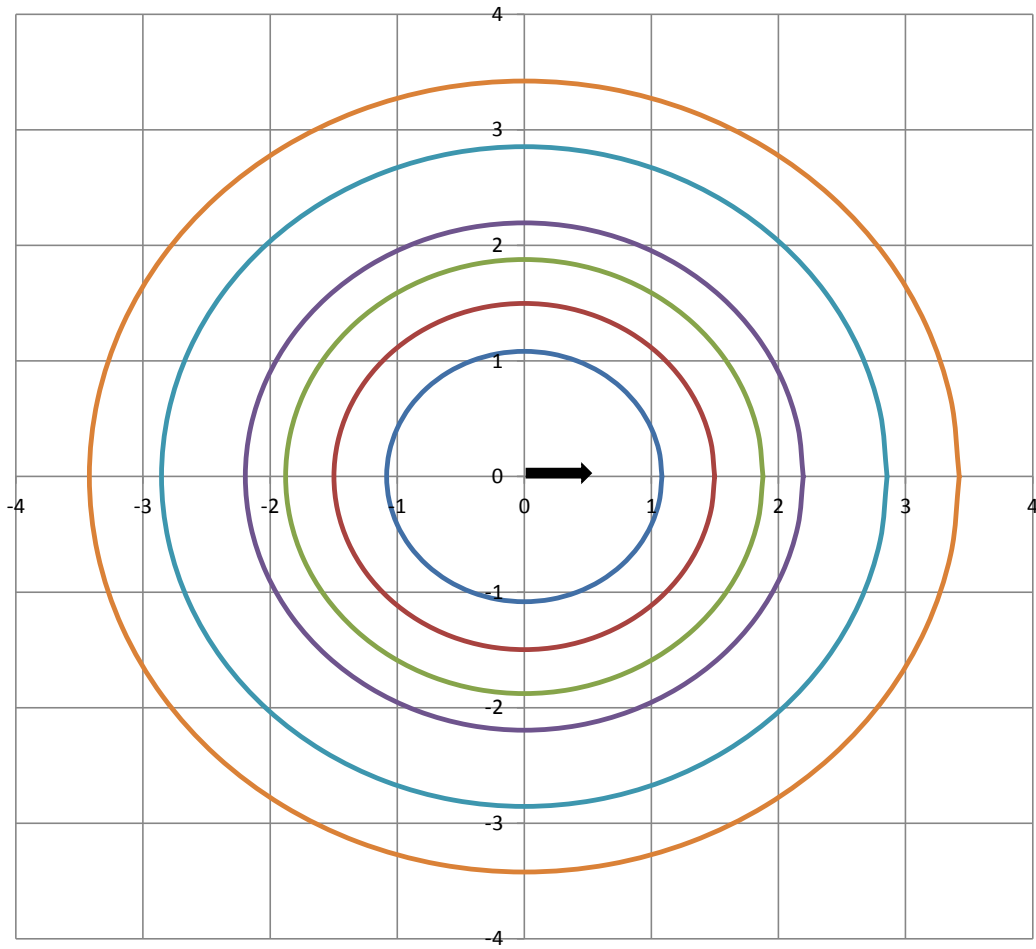
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	4875 Candela
Central Cone Intensity:	4880 Candela
Beam Flux:	5089.2 Lumens
Beam Angle (0-180):	68.1 Degrees
Beam Angle (90-270):	68.1 Degrees
Field Angle (0-180):	131.0 Degrees
Field Angle (90-270):	131.0 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

