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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
AP06H-LED3090-AP06S04
Order Number
12173939
Test Number
12173939.02

Test Date

2018-02-09

Prepared By

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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. DS20W046C2043D010-0020 driver

Luminaire



Luminaire Characteristics

Luminous Diameter: 6.00 in.

Summary of Results

Total Luminaire Output:	1340 Lumens
Luminaire Efficacy:	71 lm/w
Maximum Candela:	958 Candela

Test Conditions

Test Temperature:	24.6 °C
Voltage:	120.1 VAC
Current:	0.1578 A
Power:	18.87 W
Power Factor:	0.996
Frequency:	60 Hz
Current THD:	2.73 %

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



Distribution - Goniophotometer

Distribution Test Conditions

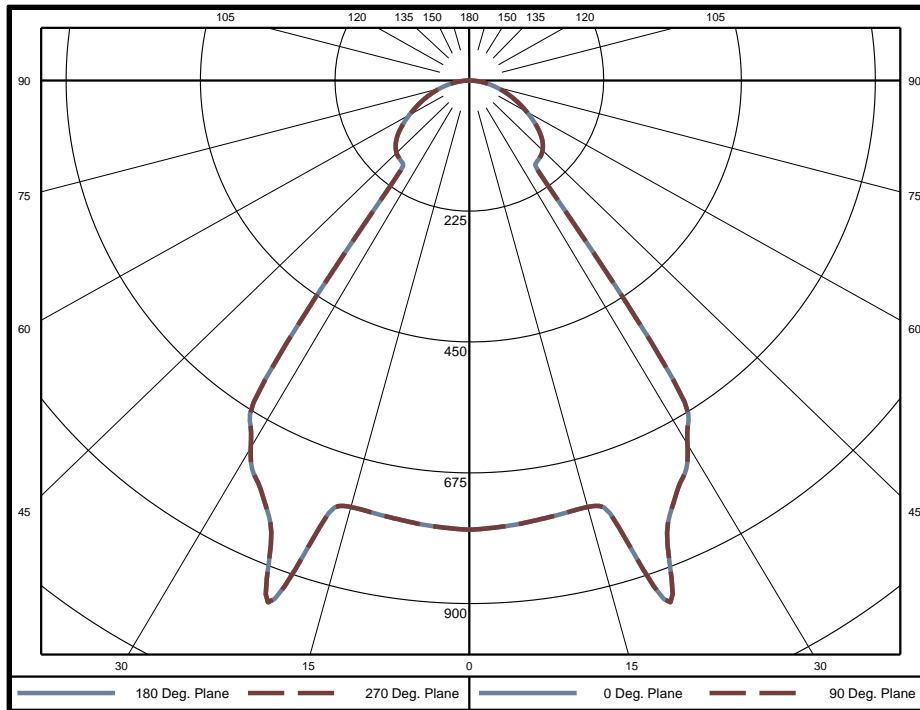
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.1 VAC	0.1578 A	18.87 W	0.996	60 Hz	2.73 %

Summary of Results

Spacing Criteria
 0-180: 1.30
 90-270: 1.30

Total Lumen Output: 1340 Lumens
Luminaire Efficacy: 71.0 lm/w
Maximum Candela: 958 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	18.4	1.4%	60-65	49.2	3.7%	120-125	0	0.0%
5-10	54.8	4.1%	65-70	40.1	3.0%	125-130	0	0.0%
10-15	90.3	6.7%	70-75	30.6	2.3%	130-135	0	0.0%
15-20	135.1	10.1%	75-80	21.1	1.6%	135-140	0	0.0%
20-25	183.4	13.7%	80-85	11.9	0.9%	140-145	0	0.0%
25-30	194.6	14.5%	85-90	3.3	0.2%	145-150	0	0.0%
30-35	185.2	13.8%	90-95	0	0.0%	150-155	0	0.0%
35-40	67.1	5.0%	95-100	0	0.0%	155-160	0	0.0%
40-45	65.2	4.9%	100-105	0	0.0%	160-165	0	0.0%
45-50	67.1	5.0%	105-110	0	0.0%	165-170	0	0.0%
50-55	64.6	4.8%	110-115	0	0.0%	170-175	0	0.0%
55-60	57.8	4.3%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	929	69.3%
0-60	1184	88.3%
0-90	1340	100.0%
90-180	0	0.0%



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	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9	772.9
5	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7
10	763.0	763.0	763.0	763.0	763.0	763.0	763.0	763.0	763.0	763.0	763.0	763.0	763.0	763.0	763.0	763.0
15	760.0	760.0	760.0	760.0	760.0	760.0	760.0	760.0	760.0	760.0	760.0	760.0	760.0	760.0	760.0	760.0
20	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4
25	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.6	804.6
30	728.7	728.7	728.7	728.7	728.7	728.7	728.7	728.7	728.7	728.7	728.7	728.7	728.7	728.7	728.7	728.7
35	358.4	358.4	358.4	358.4	358.4	358.4	358.4	358.4	358.4	358.4	358.4	358.4	358.4	358.4	358.4	358.4
40	178.6	178.6	178.6	178.6	178.6	178.6	178.6	178.6	178.6	178.6	178.6	178.6	178.6	178.6	178.6	178.6
45	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4
50	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7
55	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3
60	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0
65	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
70	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
75	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
80	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
85	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
90	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

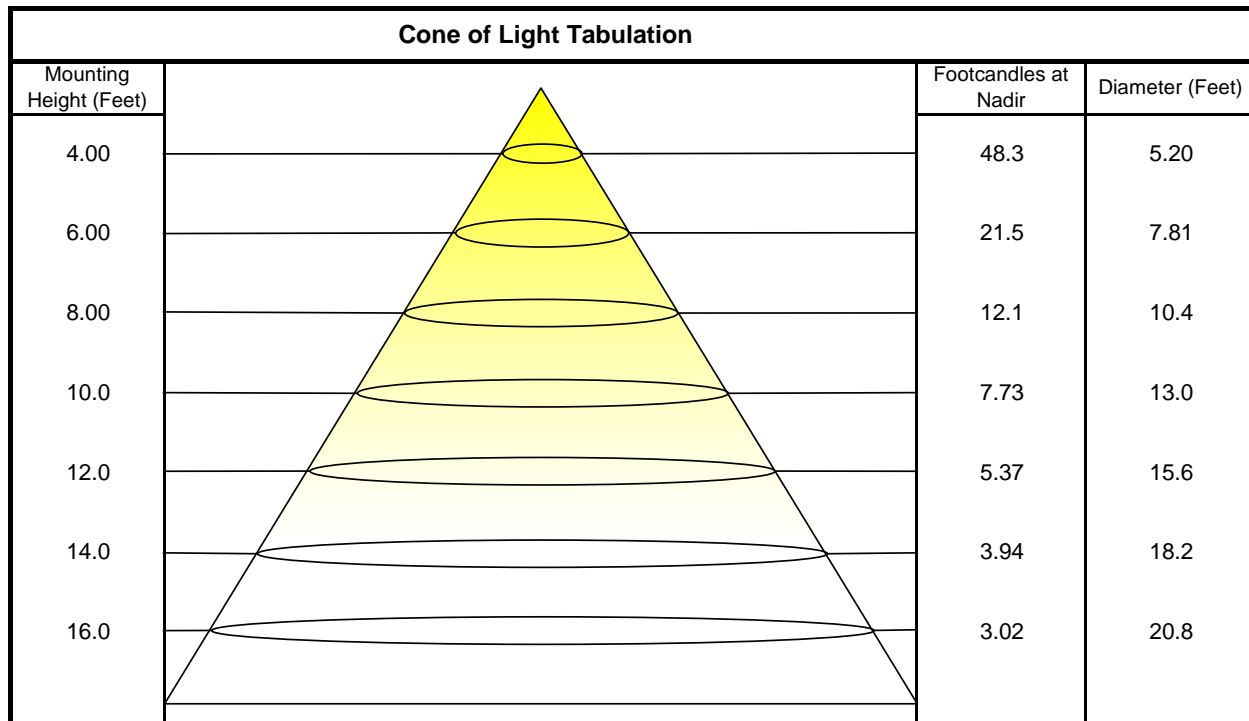
	0	45	90
0	42370	42370	42370
45	13360	13360	13360
55	13120	13120	13120
65	11670	11670	11670
75	10300	10300	10300
85	8557	8557	8557



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	1595	1595	1595	1595	1558	1558	1558	1558	1489	1489	1489	1425	1425	1425	1367	1367	1367	1340
1	1486	1434	1388	1346	1451	1404	1362	1324	1349	1314	1283	1297	1270	1244	1250	1228	1207	1181
2	1380	1291	1216	1154	1348	1266	1198	1140	1221	1164	1115	1178	1131	1090	1140	1101	1066	1040
3	1284	1168	1078	1007	1254	1148	1065	998	1110	1040	982	1075	1016	965	1043	993	950	924
4	1197	1064	966	892	1169	1047	956	886	1016	937	875	987	919	864	959	901	853	828
5	1119	975	874	799	1094	961	866	795	934	851	787	910	837	780	887	823	772	748
6	1048	897	796	723	1025	885	790	720	863	778	714	842	767	709	823	756	703	680
7	985	830	729	659	964	820	724	657	800	715	652	783	706	648	766	697	644	621
8	927	770	672	604	908	761	668	602	745	660	599	730	653	596	715	645	593	571
9	874	717	621	557	857	710	618	556	696	612	553	683	606	551	670	600	549	527
10	826	671	577	515	811	664	575	515	652	570	513	640	564	511	629	560	509	488

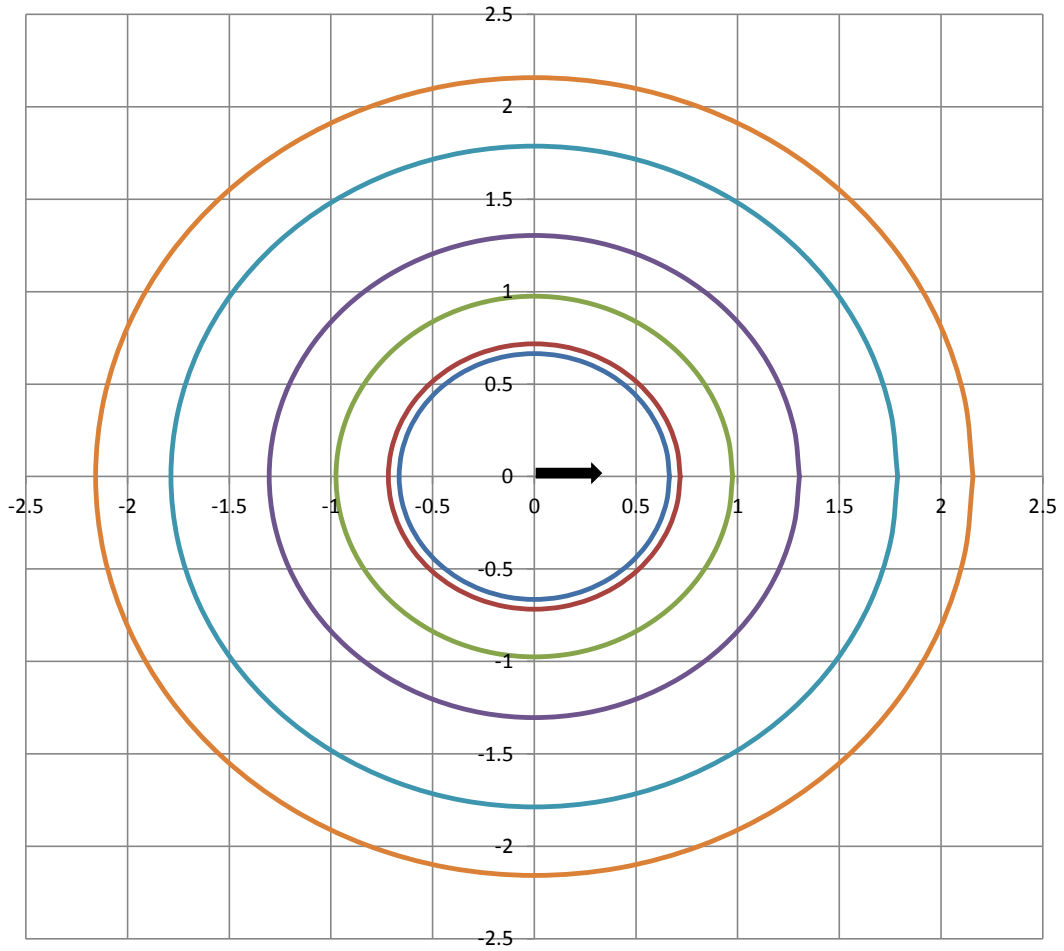
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	772.9 Candela
Central Cone Intensity:	771 Candela
Beam Flux:	857.7 Lumens
Beam Angle (0-180):	69.7 Degrees
Beam Angle (90-270):	69.7 Degrees
Field Angle (0-180):	135.9 Degrees
Field Angle (90-270):	135.9 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

