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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  
**RLET-P405FX-20-3590-M-WHWH**

Order Number  
11642482  
Test Number  
11642482.04

Test Date

2017-02-24

Prepared By

Derek Smarr, Technician

Approved By

Tiffany Hamm, Project Handler

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Formed steel housing, black formed aluminum heatsink, patterned specular internal reflector, clear plastic lens enclosure, white formed steel external reflector  
**Lamp:** One white LED  
**Mounting:** Recessed  
**Ballast/Driver:** One ERP ESM030W-0550-42

**Luminaire**



**Luminaire Characteristics**

Luminous Length: 3.25 in.  
Luminous Width: 3.250 in.

**Summary of Results**

Total Luminaire Output: 1763 Lumens  
Luminaire Efficacy: 83.3 lm/w  
Maximum Candela: 2997 Candela

**Test Conditions**

Test Temperature: 24.7 °C  
Voltage: 120.0 VAC  
Current: 0.1785 A  
Power: 21.17 W  
Power Factor: 0.989  
Frequency: 60 Hz  
Current THD: 9.37 %

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



## Distribution - Goniophotometer

### Distribution Test Conditions

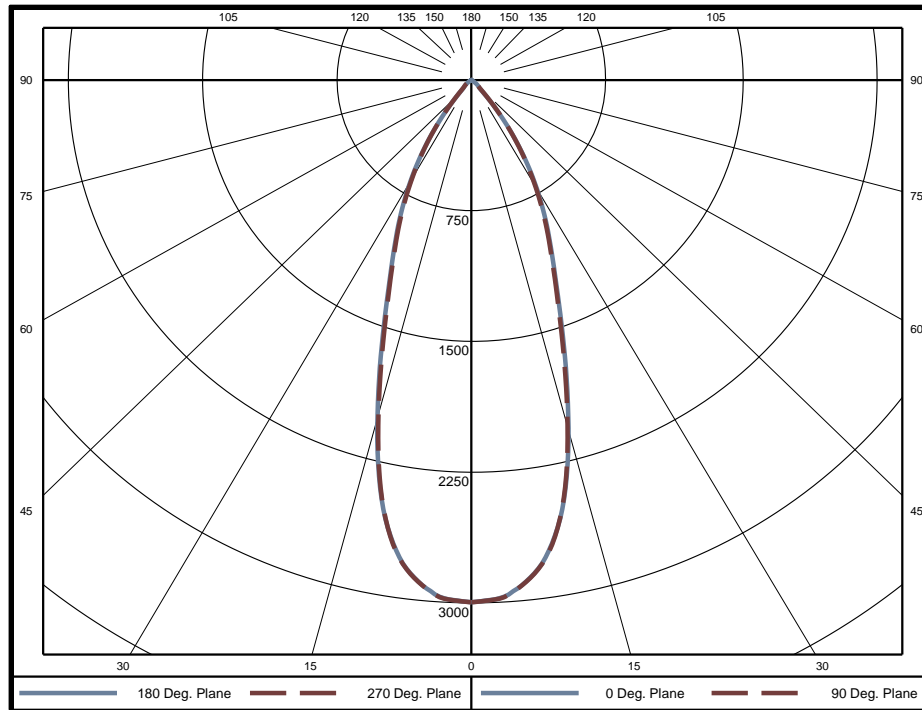
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.1785 A	21.17 W	0.989	60 Hz	9.37 %

### Summary of Results

**Spacing Criteria**  
 0-180: 0.63  
 90-270: 0.63

**Total Lumen Output:** 1763 Lumens  
**Luminaire Efficacy:** 83.3 lm/w  
**Maximum Candela:** 2997 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	71.0	4.0%	60-65	4.4	0.2%	120-125	0	0.0%
5-10	200.6	11.4%	65-70	1.9	0.1%	125-130	0	0.0%
10-15	280.3	15.9%	70-75	1.3	0.1%	130-135	0	0.0%
15-20	282.4	16.0%	75-80	0.7	0.0%	135-140	0	0.0%
20-25	251.4	14.3%	80-85	0.2	0.0%	140-145	0	0.0%
25-30	224.2	12.7%	85-90	0.2	0.0%	145-150	0	0.0%
30-35	186.1	10.6%	90-95	0	0.0%	150-155	0	0.0%
35-40	130.0	7.4%	95-100	0	0.0%	155-160	0	0.0%
40-45	70.3	4.0%	100-105	0	0.0%	160-165	0	0.0%
45-50	32.1	1.8%	105-110	0	0.0%	165-170	0	0.0%
50-55	16.8	1.0%	110-115	0	0.0%	170-175	0	0.0%
55-60	8.7	0.5%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1626	92.2%
0-60	1754	99.5%
0-90	1763	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	2997	2997	2997	2997	2997	2997	2997	2997	2997	2997	2997	2997	2997	2997	2997	2997
	5	2928	2928	2925	2930	2931	2930	2925	2928	2928	2928	2925	2930	2931	2930	2925	2928
	10	2653	2657	2652	2653	2660	2653	2652	2657	2653	2657	2652	2653	2660	2653	2652	2657
	15	2068	2067	2059	2055	2050	2055	2059	2067	2068	2067	2059	2055	2050	2055	2059	2067
	20	1434	1427	1427	1423	1414	1423	1427	1427	1434	1427	1427	1423	1414	1423	1427	1427
	25	1023	1027	1034	1023	1012	1023	1034	1027	1023	1027	1034	1023	1012	1023	1034	1027
	30	724	763	808	756	710	756	808	763	724	763	808	756	710	756	808	763
	35	438	504	594	504	436	504	594	504	438	504	594	504	436	504	594	504
	40	189	275	377	278	197	278	377	275	189	275	377	278	197	278	377	275
	45	63	98	200	106	69	106	200	98	63	98	200	106	69	106	200	98
	50	45	48	75	49	45	49	75	48	45	48	75	49	45	49	75	48
	55	23	25	31	25	22	25	31	25	23	25	31	25	22	25	31	25
	60	11	14	16	13	11	13	16	14	11	14	16	13	11	13	16	14
	65	4	5	8	5	4	5	8	5	4	5	8	5	4	5	8	5
	70	2	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3
	75	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
80	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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/m<sup>2</sup>)**  
Horizontal Angle (Degrees)

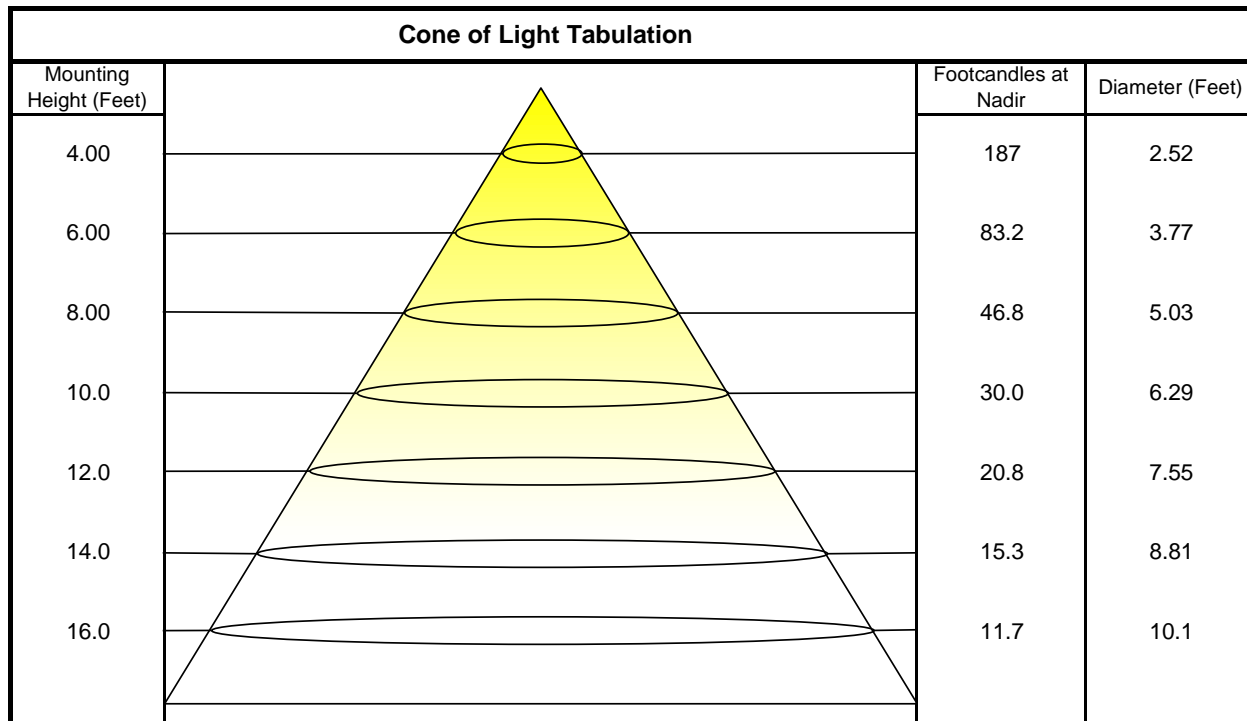
Vertical Angle (Degrees)	0	45	90
	0	439700	439700
45	13140	41430	14390
55	5886	7806	5717
65	1484	2949	1495
75	1249	1061	1282
85	502	602	578



### 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	2098	2098	2098	2098	2049	2049	2049	2049	1958	1958	1958	1875	1875	1875	1798	1798	1798	1763
1	2005	1958	1916	1878	1962	1920	1883	1849	1849	1819	1792	1784	1760	1738	1724	1705	1688	1657
2	1912	1830	1762	1704	1873	1799	1738	1685	1743	1692	1649	1691	1650	1613	1642	1609	1580	1552
3	1821	1714	1630	1564	1787	1689	1613	1551	1644	1579	1526	1601	1548	1503	1562	1518	1480	1453
4	1736	1609	1517	1446	1705	1589	1504	1437	1552	1479	1421	1517	1455	1404	1485	1432	1388	1362
5	1655	1515	1418	1346	1627	1499	1408	1340	1468	1389	1328	1439	1370	1316	1412	1353	1305	1280
6	1578	1430	1330	1259	1553	1416	1322	1254	1390	1308	1246	1366	1293	1237	1343	1279	1229	1205
7	1507	1353	1252	1182	1484	1341	1246	1179	1319	1234	1173	1299	1223	1167	1279	1212	1161	1137
8	1441	1282	1183	1115	1420	1273	1178	1112	1254	1168	1108	1236	1159	1103	1220	1150	1098	1076
9	1379	1218	1120	1054	1360	1210	1116	1052	1194	1108	1049	1179	1101	1045	1164	1094	1042	1020
10	1321	1160	1064	1000	1304	1153	1060	998	1139	1054	995	1125	1048	993	1113	1042	990	969

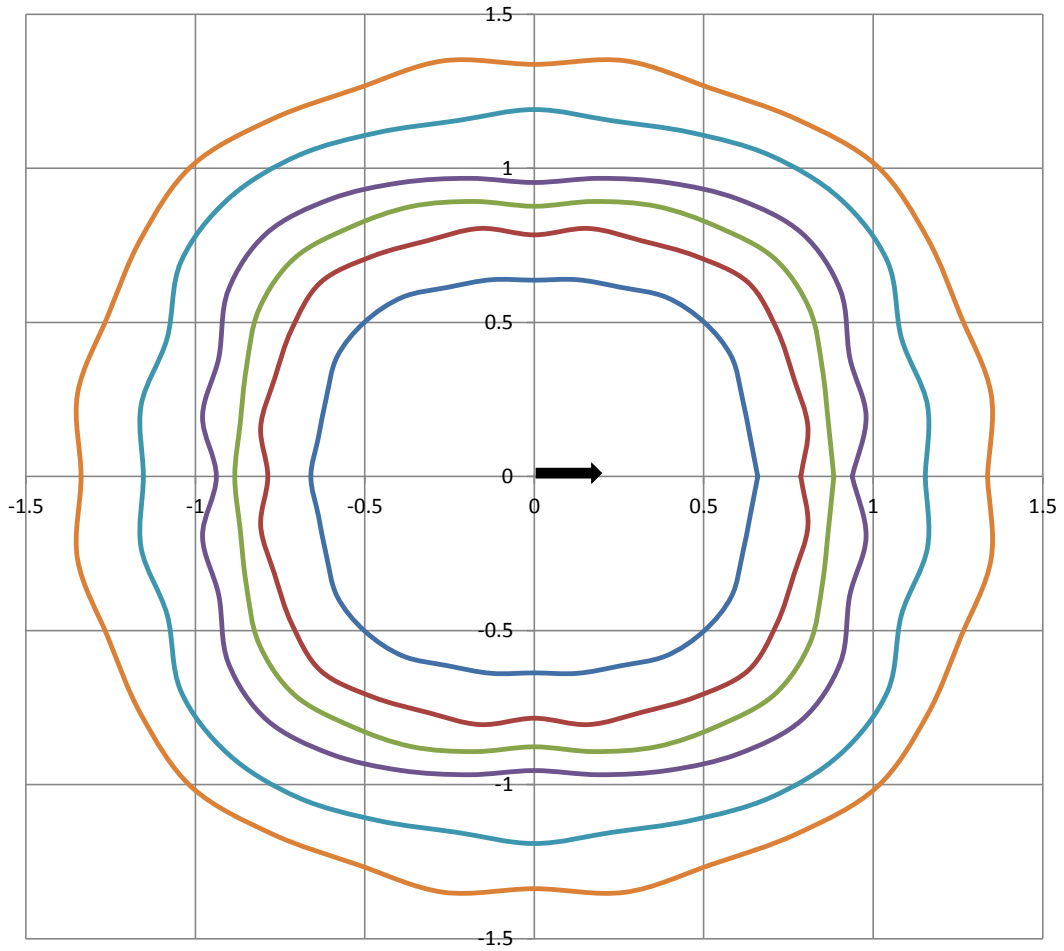
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	2997 Candela
Central Cone Intensity:	2976 Candela
Beam Flux:	798.9 Lumens
Beam Angle (0-180):	38.8 Degrees
Beam Angle (90-270):	38.5 Degrees
Field Angle (0-180):	75.2 Degrees
Field Angle (90-270):	75.4 Degrees





### ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

