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## Indoor Distribution Test Report

Relevant Standards  
IES LM-79-2008  
ANSI C82.77-2002

Prepared For  
**Picasso Lighting Industries**

46 Sellers St  
Kearny, NJ 07032-4216

Catalog Number  
**JAC-LED-22-29W-30K-S-D10-UE**

Order Number

11532175

Test Number

11532175.02

Test Date

2016-11-18

Prepared By

Derek Smarr, Technician

Approved By

Timothy Wagner, Project Handler

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** White enamel steel housing, frosted plastic lens  
**Lamp:** 144 white LEDs  
**Mounting:** Recessed  
**Ballast/Driver:** Philips XI054C150V054BST1

### Luminaire



### Luminaire Characteristics

Luminous Length: 22.50 in.  
Luminous Width: 22.63 in.

### Summary of Results

Total Luminaire Output:	2775 Lumens
Luminaire Efficacy:	107.8 lm/w
Maximum Candela:	1037 Candela

### Test Conditions

Test Temperature:	25.0 °C
Voltage:	120.1 VAC
Current:	0.2166 A
Power:	25.74 W
Power Factor:	0.990
Frequency:	60 Hz
Current THD:	12.0 %

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



## Distribution - Goniophotometer

### Distribution Test Conditions

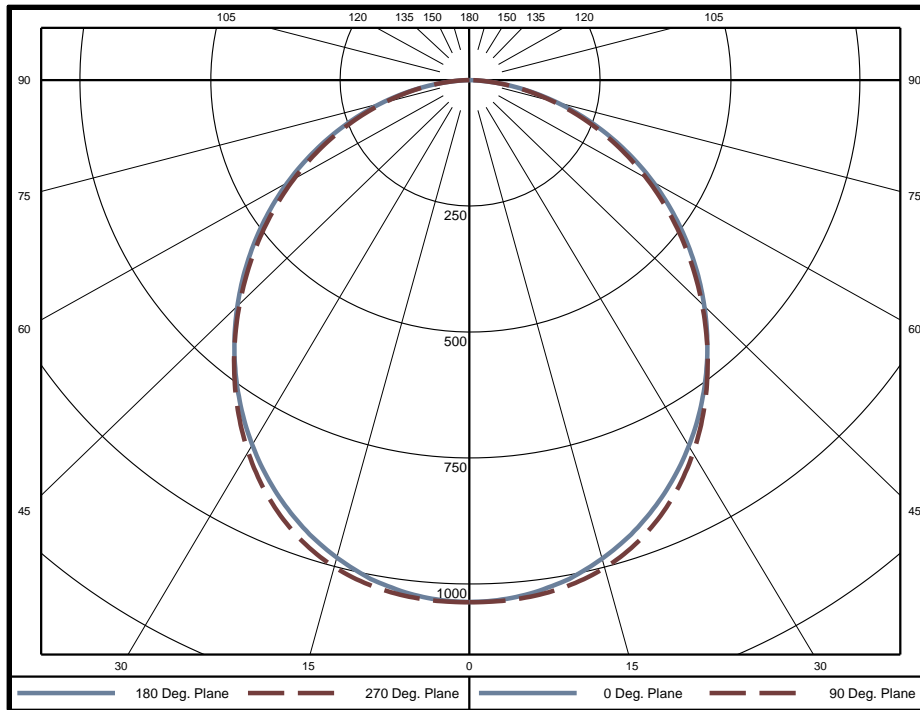
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.1 VAC	0.2166 A	25.74 W	0.990	60 Hz	12.0 %

### Summary of Results

**Spacing Criteria**  
 0-180: 1.21  
 90-270: 1.21

**Total Lumen Output:** 2775 Lumens  
**Luminaire Efficacy:** 107.8 lm/w  
**Maximum Candela:** 1037 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	24.7	0.9%	60-65	177.7	6.4%	120-125	0	0.0%
5-10	73.4	2.6%	65-70	145.2	5.2%	125-130	0	0.0%
10-15	119.4	4.3%	70-75	109.7	4.0%	130-135	0	0.0%
15-20	161.0	5.8%	75-80	73.3	2.6%	135-140	0	0.0%
20-25	196.2	7.1%	80-85	38.2	1.4%	140-145	0	0.0%
25-30	223.6	8.1%	85-90	8.6	0.3%	145-150	0	0.0%
30-35	242.2	8.7%	90-95	0	0.0%	150-155	0	0.0%
35-40	251.7	9.1%	95-100	0	0.0%	155-160	0	0.0%
40-45	252.2	9.1%	100-105	0	0.0%	160-165	0	0.0%
45-50	244.1	8.8%	105-110	0	0.0%	165-170	0	0.0%
50-55	228.3	8.2%	110-115	0	0.0%	170-175	0	0.0%
55-60	205.8	7.4%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1292	46.6%
0-60	2223	80.1%
0-90	2775	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	1036	1036	1036	1036	1036	1036	1036	1036	1036	1036	1036	1036	1036	1036	1036	1036
	5	1030	1031	1033	1034	1034	1034	1033	1031	1030	1031	1033	1034	1034	1034	1033	1031
	10	1013	1015	1019	1022	1024	1022	1019	1015	1013	1015	1019	1022	1024	1022	1019	1015
	15	984	988	997	1000	1002	1000	997	988	984	988	997	1000	1002	1000	997	988
	20	945	952	961	966	967	966	961	952	945	952	961	966	967	966	961	952
	25	897	905	917	918	918	918	917	905	897	905	917	918	918	918	917	905
	30	841	851	861	859	857	859	861	851	841	851	861	859	857	859	861	851
	35	778	789	798	791	787	791	798	789	778	789	798	791	787	791	798	789
	40	710	722	728	716	711	716	728	722	710	722	728	716	711	716	728	722
	45	638	649	652	638	632	638	652	649	638	649	652	638	632	638	652	649
	50	563	572	574	558	552	558	574	572	563	572	574	558	552	558	574	572
	55	487	493	492	478	473	478	492	493	487	493	492	478	473	478	492	493
	60	409	413	411	398	394	398	411	413	409	413	411	398	394	398	411	413
	65	330	332	329	319	317	319	329	332	330	332	329	319	317	319	329	332
	70	253	252	250	243	241	243	250	252	253	252	250	243	241	243	250	252
	75	177	175	173	170	169	170	173	175	177	175	173	170	169	170	173	175
80	106	103	102	102	102	102	102	103	106	103	102	102	102	102	102	103	
85	40	38	39	41	42	41	39	38	40	38	39	41	42	41	39	38	
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)

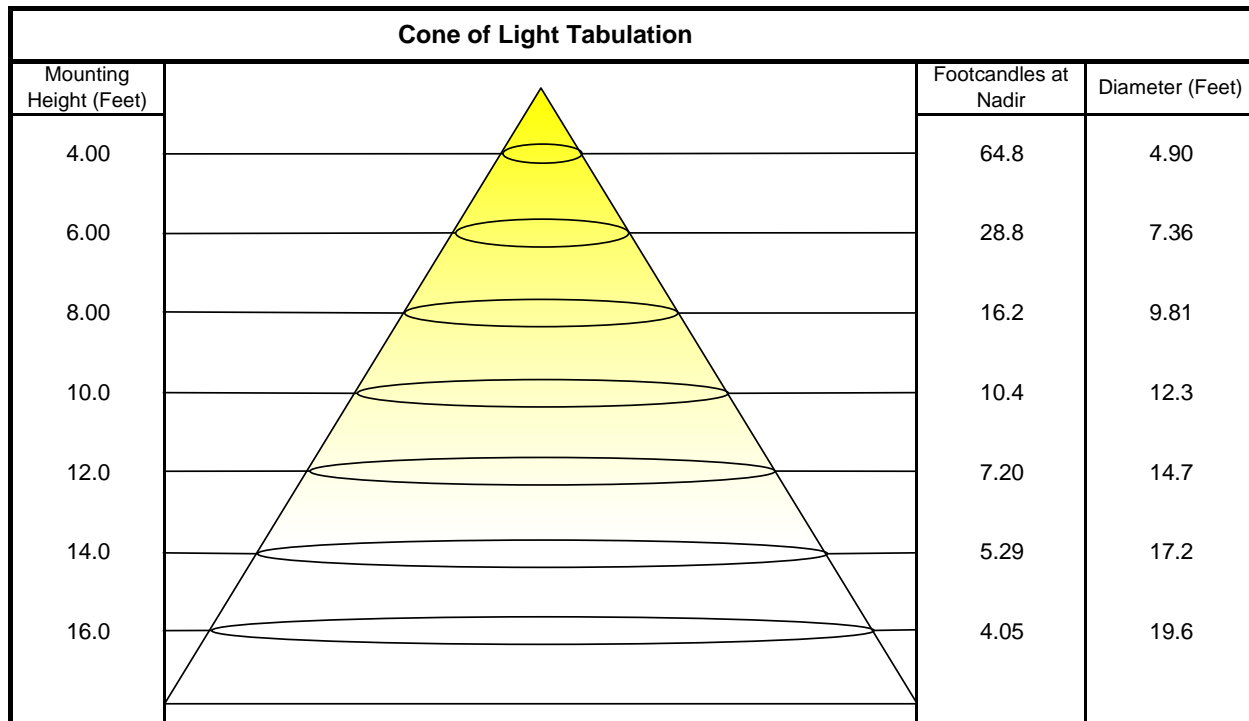
Vertical Angle (Degrees)	0	45	90	
	0	3155	3155	3155
	45	2748	2809	2719
	55	2585	2613	2510
	65	2379	2374	2284
	75	2084	2032	1993
	85	1409	1365	1464



### 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	3304	3304	3304	3304	3227	3227	3227	3227	3084	3084	3084	2952	2952	2952	2832	2832	2832	2775
1	3024	2894	2777	2671	2948	2831	2724	2628	2713	2625	2545	2604	2533	2467	2504	2447	2394	2336
2	2754	2528	2341	2184	2681	2476	2304	2158	2377	2232	2107	2286	2165	2059	2202	2103	2013	1954
3	2514	2224	2000	1822	2445	2180	1973	1805	2098	1920	1773	2021	1870	1742	1950	1822	1712	1652
4	2304	1974	1733	1548	2240	1937	1712	1537	1868	1671	1516	1803	1633	1495	1743	1596	1475	1415
5	2121	1767	1519	1337	2062	1736	1503	1329	1677	1472	1315	1622	1442	1300	1571	1413	1286	1228
6	1960	1593	1347	1170	1907	1567	1334	1164	1517	1309	1154	1470	1285	1144	1426	1262	1134	1077
7	1819	1446	1204	1035	1771	1424	1194	1031	1381	1174	1024	1341	1155	1016	1303	1136	1009	954
8	1694	1321	1086	925	1651	1302	1078	922	1265	1062	916	1230	1046	911	1198	1030	905	852
9	1584	1214	987	834	1544	1197	980	832	1165	966	827	1135	953	823	1107	941	818	768
10	1486	1121	902	757	1450	1106	897	755	1079	885	752	1053	874	748	1028	864	745	697

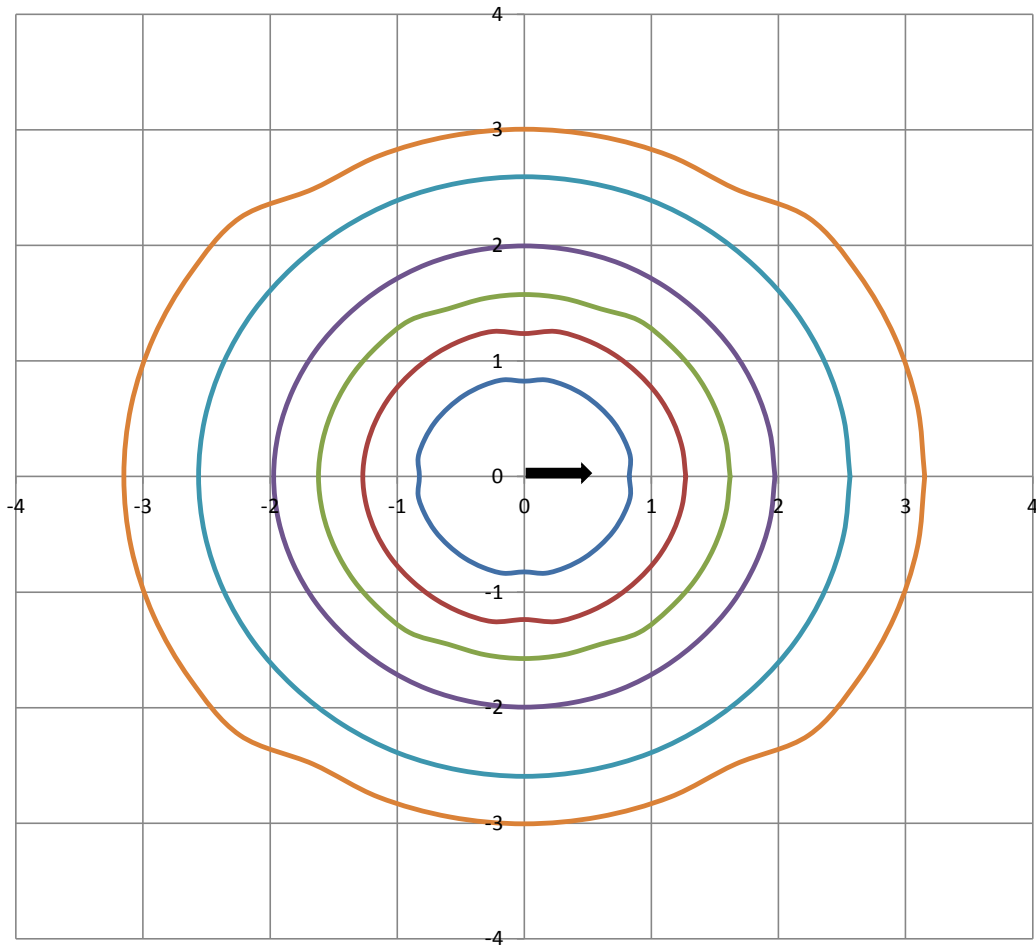
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	1036 Candela
Central Cone Intensity:	1035 Candela
Beam Flux:	1926.8 Lumens
Beam Angle (0-180):	105.9 Degrees
Beam Angle (90-270):	104.3 Degrees
Field Angle (0-180):	160.3 Degrees
Field Angle (90-270):	159.7 Degrees





### ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

