



**PICASSO LIGHTING INDUSTRIES, LLC**  
46 Sellers Street, Kearny, NJ 07032  
201.246.8188

## **Indoor Distribution Test Report**

### **Picasso Lighting Industries, LLC**

46 Sellers St.  
Kearny, NJ 07032

#### **Photopia Photometric Analysis & Optical Design**

#### **Catalog Number**

**TRU-L-4'-D10-I5-30K-80-OPL-W**

(White Housing – Direct / Indirect – Opal Lens)

Test Number

**IES-P00014**

Test Date

2017-01-13

The results contained in this report pertain only to the tested sample.  
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<b>Luminaire Description:</b>	Aluminum, Extruded Housing, Direct / Indirect w/ Opal Lens
<b>Lamp:</b>	LED (3000K, 80+ CRI)
<b>Installation:</b>	Suspension from Ceiling
<b>Luminous Length:</b>	47.50 in
<b>Luminous Width:</b>	2.75 in
<b>Luminous Height:</b>	0.00 in



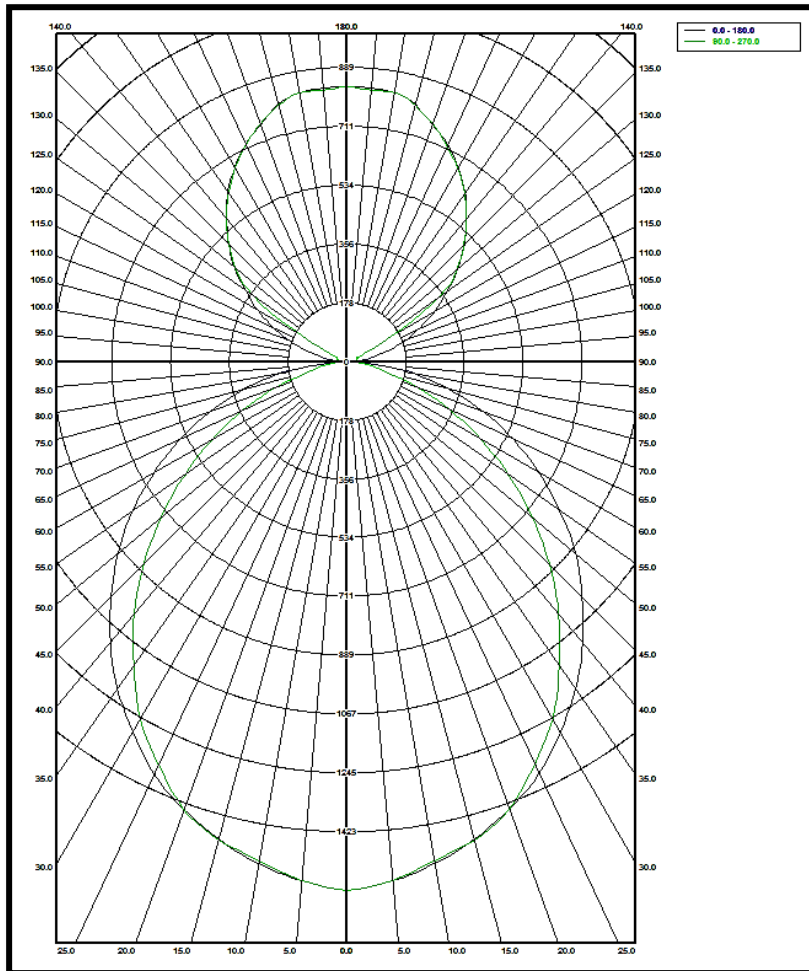
Image may differ slightly from actual unit

#### **Summary of Results**

<b>System Power:</b>	69.5W
<b>Total Luminaire Output:</b>	6013 Lumens
<b>Luminaire Efficacy:</b>	87 lm/W
<b>Max Candela:</b>	1600.55 Candela

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

**Polar Plot**



**Zonal Lumen Summary**

Zone	Lumens	% Fixture	Zone	Lumens	% Fixture
0-10	149.01	2.5%	90-100	18.86	0.3%
10-20	422.7	7.0%	100-110	67	1.1%
20-30	630.24	10.5%	110-120	174.16	2.9%
30-40	735.19	12.2%	120-130	325.65	5.4%
40-50	728.78	12.1%	130-140	390.54	6.5%
50-60	622.96	10.4%	140-150	391.3	6.5%
60-70	440.37	7.3%	150-160	333.66	5.5%
70-80	222.59	3.7%	160-170	225.04	3.7%
80-90	56.38	0.9%	170-180	78.97	1.3%
0-90	4008.22	66.7%	0-180	6013.4	100.0%

### Candela Distribution

#### 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	1601	1601	1601	1601	1601	1601	1601	1601	1601	1601	1601	1601	1601	1601	1601	1601
5	1578	1570	1567	1565	1576	1565	1567	1570	1578	1570	1567	1565	1576	1565	1567	1570
10	1542	1539	1534	1533	1534	1533	1534	1539	1542	1539	1534	1533	1534	1533	1534	1539
15	1496	1501	1498	1500	1499	1500	1498	1501	1496	1501	1498	1500	1499	1500	1498	1501
20	1442	1446	1448	1447	1442	1447	1448	1446	1442	1446	1448	1447	1442	1447	1448	1446
25	1379	1375	1375	1363	1346	1363	1375	1375	1379	1375	1375	1363	1346	1363	1375	1375
30	1295	1296	1290	1257	1249	1257	1290	1296	1295	1296	1290	1257	1249	1257	1290	1296
35	1210	1211	1185	1142	1123	1142	1185	1211	1210	1211	1185	1142	1123	1142	1185	1211
40	1112	1113	1068	1017	1000	1017	1068	1113	1112	1113	1068	1017	1000	1017	1068	1113
45	1009	1006	944	890	867	890	944	1006	1009	1006	944	890	867	890	944	1006
50	904	891	821	758	734	758	821	891	904	891	821	758	734	758	821	891
55	789	771	693	625	601	625	693	771	789	771	693	625	601	625	693	771
60	676	651	563	494	473	494	563	651	676	651	563	494	473	494	563	651
65	559	521	431	368	348	368	431	521	559	521	431	368	348	368	431	521
70	443	396	305	250	232	250	305	396	443	396	305	250	232	250	305	396
75	323	269	185	141	128	141	185	269	323	269	185	141	128	141	185	269
80	207	146	85	76	76	76	85	146	207	146	85	76	76	76	85	146
85	81	44	39	39	39	39	39	44	81	44	39	39	39	39	39	44
90	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
95	30	12	14	14	14	14	14	12	30	12	14	14	14	14	14	12
100	79	37	23	26	27	26	23	37	79	37	23	26	27	26	23	37
105	127	103	27	30	31	30	27	103	127	103	27	30	31	30	27	103
110	184	187	72	33	33	33	72	187	184	187	72	33	33	33	72	187
115	248	253	203	67	46	67	203	253	248	253	203	67	46	67	203	253
120	312	315	312	223	155	223	312	315	312	315	312	223	155	223	312	315
125	374	378	379	370	347	370	379	378	374	378	379	370	347	370	379	378
130	444	443	444	441	440	441	444	443	444	443	444	441	440	441	444	443
135	505	506	507	505	505	505	507	506	505	506	507	505	505	505	507	506
140	566	570	568	568	567	568	568	570	566	570	568	568	567	568	568	570
145	627	627	627	625	624	625	627	627	627	627	627	625	624	625	627	627
150	678	682	680	676	676	676	680	682	678	682	680	676	676	676	680	682
155	726	724	724	724	722	724	724	724	726	724	724	724	722	724	724	724
160	762	768	766	763	765	763	766	768	762	768	766	763	765	763	766	768
165	804	795	798	797	801	797	798	795	804	795	798	797	801	797	798	795
170	824	817	825	825	824	825	825	817	824	817	825	825	824	825	825	817
175	829	831	828	834	824	834	828	831	829	831	828	834	824	834	828	831
180	831	831	831	831	831	831	831	831	831	831	831	831	831	831	831	831

### Average Luminance (cd/m<sup>2</sup>)

#### Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	18992	18992	18992
45	15013	6012	4570
55	13818	4299	3020
65	12347	2689	1717
75	10065	1197	639
85	4482	272	203

**Coefficients of Utilization – Zonal Cavity Method**

Effective Floor Cavity Reflectance 20%																		
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	Values are in Lumens delivered to the Task Plane																	
0	6675	6675	6675	6675	6314	6314	6314	6314	5592	5592	5592	4931	4931	4931	4270	4270	4270	4029
1	6134	5833	5653	5412	5773	5532	5352	5111	4931	4751	4630	4330	4209	4149	3849	3728	3668	3428
2	5592	5111	4751	4450	5232	4871	4510	4209	4330	4089	3849	3849	3608	3488	3368	3247	3067	2886
3	5111	4510	4089	3728	4811	4270	3849	3548	3788	3488	3247	3368	3127	2947	3007	2826	2646	2465
4	4690	4029	3548	3127	4390	3788	3368	3007	3428	3067	2766	3007	2766	2526	2706	2465	2285	2105
5	4270	3608	3067	2706	4029	3368	2947	2586	3067	2706	2405	2706	2405	2165	2405	2165	1984	1804
6	3969	3247	2706	2345	3728	3067	2586	2285	2766	2405	2105	2465	2165	1924	2225	1924	1744	1624
7	3668	2886	2405	2105	3428	2766	2345	1984	2526	2105	1864	2225	1924	1684	1984	1744	1563	1443
8	3428	2646	2165	1864	3187	2526	2105	1804	2285	1924	1684	2045	1744	1503	1864	1624	1383	1263
9	3187	2405	1984	1684	3007	2285	1864	1624	2105	1744	1503	1924	1624	1383	1684	1443	1263	1143
10	2947	2225	1804	1503	2826	2105	1744	1443	1924	1563	1323	1744	1443	1263	1563	1323	1143	1022

