

## **Indoor Distribution Test Report**

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

46 Sellers St.  
Kearny, NJ 07032

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

#### **Catalog Number**

**TRU-L-4'-D7-I5-30K-80-OPL-W**

(White Housing – Direct / Indirect – Opal Lens)

Test Number

**IES-P00010**

Test Date

2017-01-12

The results contained in this report pertain only to the tested sample.  
This report shall not be reproduced, except in full, without written approval of Picasso Lighting Industries, LLC.

<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



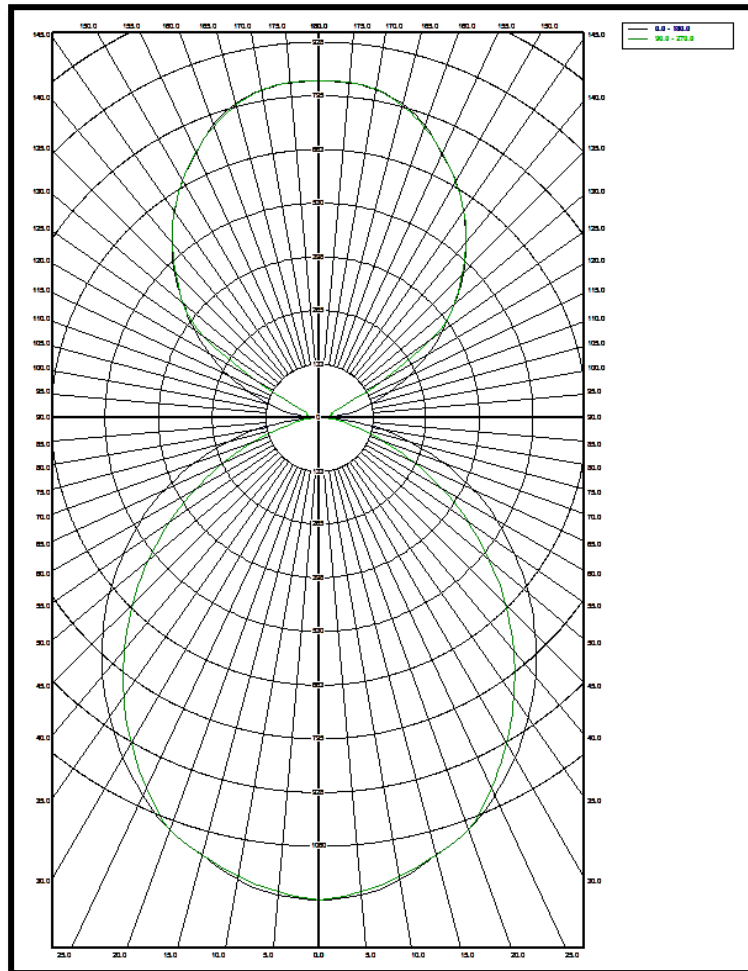
Image may differ slightly from actual unit

#### **Summary of Results**

<b>System Power:</b>	56.4W
<b>Total Luminaire Output:</b>	5010 Lumens
<b>Luminaire Efficacy:</b>	89 lm/W
<b>Max Candela:</b>	1192.74 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	111.88	2.2%	90-100	18.74	0.4%
10-20	317.05	6.3%	100-110	66.96	1.3%
20-30	472.57	9.4%	110-120	174.19	3.5%
30-40	550.82	11.0%	120-130	325.42	6.5%
40-50	546.82	10.9%	130-140	390.37	7.8%
50-60	467.42	9.3%	140-150	390.72	7.8%
60-70	330.93	6.6%	150-160	333.07	6.6%
70-80	166.73	3.3%	160-170	224.69	4.5%
80-90	42.21	0.8%	170-180	79.03	1.6%
0-90	3006.43	60.0%	0-180	5009.62	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	1193	1193	1193	1193	1193	1193	1193	1193	1193	1193	1193	1193	1193	1193	1193	1193
5	1185	1184	1180	1173	1177	1173	1180	1184	1185	1184	1180	1173	1177	1173	1180	1184
10	1160	1153	1153	1157	1154	1157	1153	1153	1160	1153	1153	1157	1154	1157	1153	1153
15	1120	1124	1124	1124	1121	1124	1124	1124	1120	1124	1124	1124	1121	1124	1124	1124
20	1085	1085	1083	1084	1083	1084	1083	1085	1085	1085	1083	1084	1083	1084	1083	1085
25	1032	1031	1034	1020	1011	1020	1034	1031	1032	1031	1034	1020	1011	1020	1034	1031
30	972	974	967	941	931	941	967	974	972	974	967	941	931	941	967	974
35	904	907	887	856	842	856	887	907	904	907	887	856	842	856	887	907
40	836	835	802	761	749	761	802	835	836	835	802	761	749	761	802	835
45	757	755	709	668	652	668	709	755	757	755	709	668	652	668	709	755
50	678	666	616	569	552	569	616	666	678	666	616	569	552	569	616	666
55	591	579	521	469	450	469	521	579	591	579	521	469	450	469	521	579
60	508	487	423	371	356	371	423	487	508	487	423	371	356	371	423	487
65	422	393	325	276	261	276	325	393	422	393	325	276	261	276	325	393
70	331	296	228	187	175	187	228	296	331	296	228	187	175	187	228	296
75	242	202	139	104	96	104	139	202	242	202	139	104	96	104	139	202
80	155	109	63	56	58	56	63	109	155	109	63	56	58	56	63	109
85	60	33	29	29	29	29	29	33	60	33	29	29	29	29	29	33
90	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
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	73	33	33	33	73	187	184	187	73	33	33	33	73	187
115	248	253	201	66	47	66	201	253	248	253	201	66	47	66	201	253
120	311	315	314	223	156	223	314	315	311	315	314	223	156	223	314	315
125	375	379	379	367	346	367	379	379	375	379	379	367	346	367	379	379
130	439	444	444	441	440	441	444	444	439	444	444	441	440	441	444	444
135	506	508	507	505	502	505	507	508	506	508	507	505	502	505	507	508
140	568	569	569	567	566	567	569	568	568	569	569	567	566	567	569	569
145	625	626	625	623	626	623	625	626	625	626	625	623	626	623	625	626
150	677	677	679	675	676	675	679	677	677	677	679	675	676	675	679	677
155	721	724	723	722	723	722	723	724	721	724	723	722	723	722	723	724
160	769	764	761	763	764	763	761	764	769	764	761	763	764	763	761	764
165	802	796	798	798	799	798	798	796	802	796	798	798	799	798	798	796
170	821	820	818	818	822	818	818	820	821	820	818	818	822	818	818	820
175	830	835	832	836	832	836	832	835	830	835	832	836	832	836	832	835
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	14153	14153	14153
45	11265	4513	3435
55	10356	3232	2261
65	9310	2027	1289
75	7540	899	480
85	3322	202	150

**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	5511	5511	5511	5511	5110	5110	5110	5110	4459	4459	4459	3857	3857	3857	3256	3256	3256	3006
1	5010	4809	4609	4459	4709	4509	4308	4158	3908	3807	3707	3407	3306	3206	2906	2855	2805	2555
2	4559	4208	3908	3657	4258	3958	3657	3457	3457	3256	3056	3006	2855	2705	2555	2455	2355	2154
3	4158	3707	3356	3056	3908	3457	3156	2906	3056	2805	2605	2655	2455	2304	2304	2154	2004	1854
4	3807	3306	2906	2555	3557	3106	2705	2455	2705	2455	2204	2355	2154	1954	2054	1854	1753	1553
5	3507	2906	2505	2204	3256	2755	2405	2104	2455	2154	1904	2104	1904	1703	1854	1653	1503	1353
6	3256	2655	2204	1904	3006	2505	2104	1854	2204	1904	1653	1904	1703	1503	1653	1503	1353	1202
7	3006	2405	1954	1703	2805	2254	1904	1603	2004	1703	1453	1753	1503	1353	1553	1353	1202	1052
8	2805	2154	1753	1503	2605	2054	1703	1453	1803	1503	1303	1603	1353	1202	1403	1202	1052	952
9	2605	2004	1603	1353	2405	1854	1503	1303	1653	1403	1202	1453	1252	1052	1303	1102	952	852
10	2455	1803	1453	1202	2254	1703	1403	1152	1553	1252	1052	1353	1152	952	1202	1002	902	802

