

## **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-I3-30K-80-OPL-W**

(White Housing – Direct / Indirect – Opal Lens)

Test Number

**IES-P00009**

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



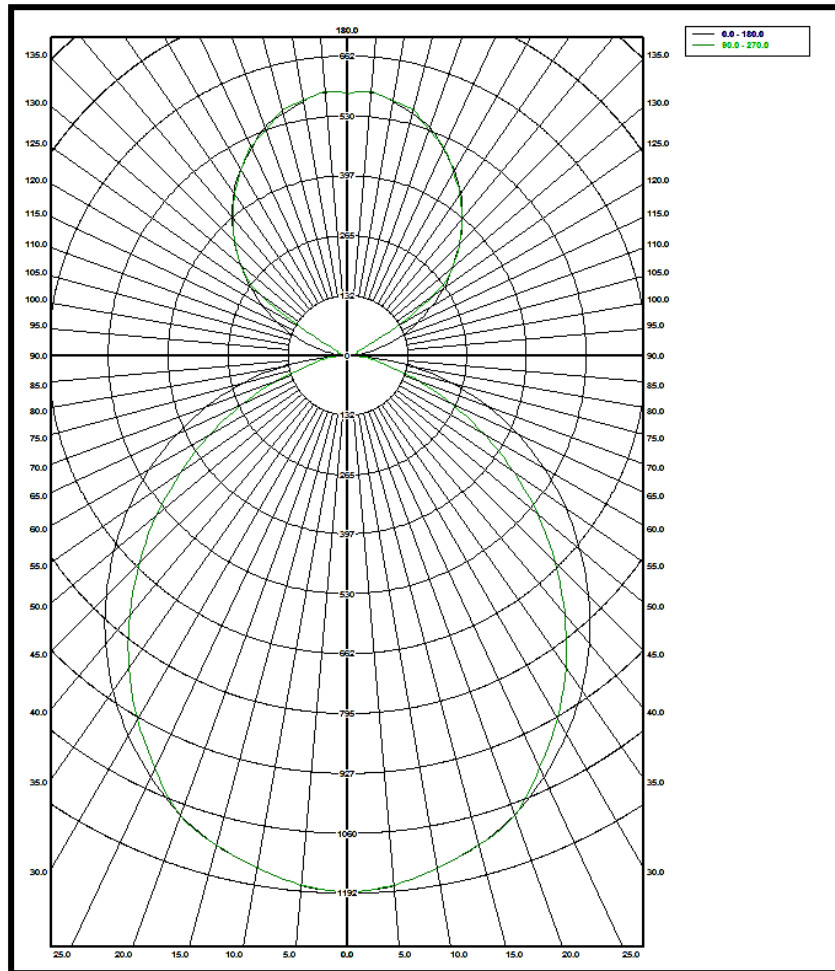
Image may differ slightly from actual unit

#### **Summary of Results**

<b>System Power:</b>	50.5W
<b>Total Luminaire Output:</b>	4409 Lumens
<b>Luminaire Efficacy:</b>	87 lm/W
<b>Max Candela:</b>	1192.08 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	111.83	2.5%	90-100	13.3	0.3%
10-20	317.41	7.2%	100-110	46.88	1.1%
20-30	472.62	10.7%	110-120	121.82	2.8%
30-40	551.2	12.5%	120-130	227.86	5.2%
40-50	546.8	12.4%	130-140	273.32	6.2%
50-60	467.32	10.6%	140-150	273.61	6.2%
60-70	330.7	7.5%	150-160	233.14	5.3%
70-80	167.03	3.8%	160-170	157.06	3.6%
80-90	42.24	1.0%	170-180	55.15	1.3%
0-90	3007.15	68.2%	0-180	4409.29	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	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192
5	1179	1178	1174	1182	1179	1182	1174	1178	1179	1178	1174	1182	1179	1182	1174	1178
10	1153	1156	1159	1155	1154	1155	1159	1156	1153	1156	1159	1155	1154	1155	1159	1156
15	1125	1127	1127	1124	1124	1124	1127	1127	1125	1127	1127	1124	1124	1124	1127	1127
20	1084	1084	1082	1084	1085	1084	1082	1084	1084	1084	1082	1084	1085	1084	1082	1084
25	1032	1032	1033	1021	1010	1021	1033	1032	1032	1032	1033	1021	1010	1021	1033	1032
30	972	977	967	941	931	941	967	977	972	977	967	941	931	941	967	977
35	907	908	888	854	845	854	888	908	907	908	888	854	845	854	888	908
40	834	834	800	765	750	765	800	834	834	834	800	765	750	765	800	834
45	756	755	710	666	652	666	710	755	756	755	710	666	652	666	710	755
50	675	669	617	570	553	570	617	669	675	669	617	570	553	570	617	669
55	592	578	519	469	452	469	519	578	592	578	519	469	452	469	519	578
60	509	487	422	371	355	371	422	487	509	487	422	371	355	371	422	487
65	421	392	323	277	260	277	323	392	421	392	323	277	260	277	323	392
70	332	297	229	187	175	187	229	297	332	297	229	187	175	187	229	297
75	244	202	139	105	96	105	139	202	244	202	139	105	96	105	139	202
80	155	109	64	57	58	57	64	109	155	109	64	57	58	57	64	109
85	60	34	29	29	29	29	29	34	60	34	29	29	29	29	29	34
90	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
95	21	9	10	10	10	10	10	9	21	9	10	10	10	10	10	9
100	56	26	16	18	19	18	16	26	56	26	16	18	19	18	16	26
105	89	72	19	21	22	21	19	72	89	72	19	21	22	21	19	72
110	128	131	50	23	23	23	50	131	128	131	50	23	23	23	50	131
115	173	177	141	46	33	46	141	177	173	177	141	46	33	46	141	177
120	217	221	220	156	108	156	220	221	217	221	220	156	108	156	220	221
125	264	266	265	258	242	258	265	266	264	266	265	258	242	258	265	266
130	307	311	310	308	308	308	310	311	307	311	310	308	308	308	310	311
135	354	356	355	354	354	354	355	356	354	356	355	354	354	354	355	356
140	398	399	396	396	396	396	396	399	398	399	396	396	396	396	396	399
145	439	439	439	436	436	436	439	439	439	439	439	436	436	436	439	439
150	475	474	476	475	472	475	476	474	475	474	476	475	472	475	476	474
155	505	506	506	506	508	506	506	506	505	506	506	506	508	506	506	506
160	537	535	534	533	531	533	534	535	537	535	534	533	531	533	534	535
165	554	560	557	560	561	560	557	560	554	560	557	560	561	560	557	560
170	570	572	572	572	572	572	572	572	570	572	572	572	572	572	572	572
175	584	580	583	580	585	580	583	580	584	580	583	580	585	580	583	580
180	579	579	579	579	579	579	579	579	579	579	579	579	579	579	579	579

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

#### Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	14145	14145	14145
45	11253	4520	3433
55	10364	3220	2272
65	9294	2015	1287
75	7597	896	480
85	3324	204	151

**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	4894	4894	4894	4894	4630	4630	4630	4630	4101	4101	4101	3660	3660	3660	3219	3219	3219	2998
1	4497	4321	4145	3968	4233	4057	3924	3792	3616	3527	3395	3219	3131	3042	2866	2778	2734	2557
2	4101	3792	3483	3263	3880	3572	3351	3131	3175	2998	2822	2866	2690	2557	2513	2425	2337	2161
3	3748	3307	2998	2734	3527	3131	2866	2601	2822	2601	2381	2513	2337	2205	2249	2116	1984	1808
4	3439	2954	2601	2337	3219	2778	2469	2249	2513	2249	2072	2249	2028	1896	2028	1852	1720	1587
5	3175	2646	2249	1984	2954	2513	2161	1940	2249	1984	1764	2028	1808	1631	1808	1631	1499	1367
6	2910	2381	1984	1720	2734	2249	1940	1676	2028	1764	1543	1852	1587	1455	1631	1455	1323	1191
7	2690	2161	1764	1543	2557	2028	1720	1499	1852	1587	1367	1676	1455	1279	1499	1323	1191	1058
8	2513	1940	1587	1367	2381	1852	1543	1323	1676	1411	1235	1543	1323	1146	1367	1191	1058	970
9	2337	1808	1455	1235	2205	1720	1411	1191	1543	1279	1102	1411	1191	1014	1279	1102	970	882
10	2205	1631	1323	1102	2072	1587	1279	1058	1455	1191	1014	1323	1102	926	1191	1014	882	794

