

## **Indoor Distribution Test Report**

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

46 Sellers St.  
Kearny, NJ 07032

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

#### **Catalog Number**

**TRU-L-4'-D5-I10-30K-80-OPL-W**

(White Housing – Direct / Indirect – Opal Lens)

Test Number

**IES-P00008**

Test Date

2017-01-12

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



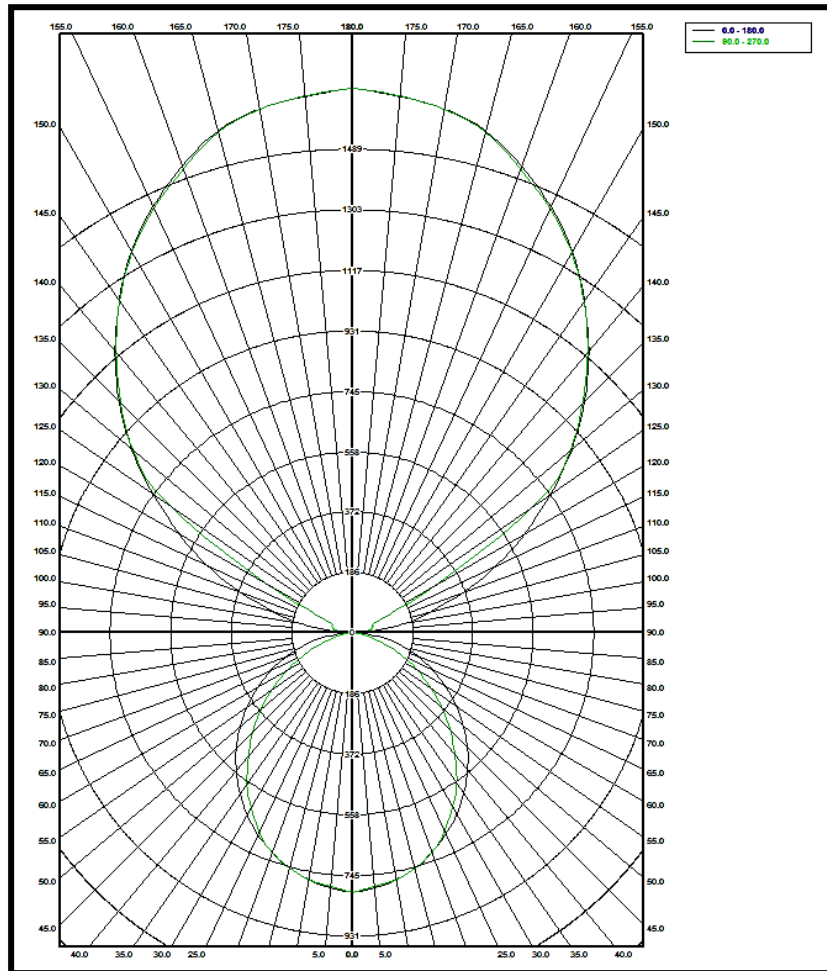
Image may differ slightly from actual unit

#### **Summary of Results**

<b>System Power:</b>	62.8W
<b>Total Luminaire Output:</b>	6013 Lumens
<b>Luminaire Efficacy:</b>	96 lm/W
<b>Max Candela:</b>	1675.29 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	74.49	1.2%	90-100	36.78	0.6%
10-20	211.25	3.5%	100-110	134.22	2.2%
20-30	314.66	5.2%	110-120	348.85	5.8%
30-40	367.3	6.1%	120-130	651.56	10.8%
40-50	364.08	6.1%	130-140	782.06	13.0%
50-60	310.87	5.2%	140-150	782.22	13.0%
60-70	219.85	3.7%	150-160	667.15	11.1%
70-80	111.07	1.8%	160-170	449.61	7.5%
80-90	28.55	0.5%	170-180	158.15	2.6%
0-90	2002.12	33.3%	0-180	6012.72	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	797	797	797	797	797	797	797	797	797	797	797	797	797	797	797	797
5	787	784	786	783	781	783	786	784	787	784	786	783	781	783	786	784
10	769	767	771	771	771	771	771	767	769	767	771	771	771	771	771	767
15	749	749	747	750	747	750	747	749	749	749	747	750	747	750	747	749
20	720	724	722	721	718	721	722	724	720	724	722	721	718	721	722	724
25	686	689	684	678	676	678	684	689	686	689	684	678	676	678	684	689
30	647	650	646	628	620	628	646	650	647	650	646	628	620	628	646	650
35	603	606	593	568	565	568	593	606	603	606	593	568	565	568	593	606
40	555	555	534	507	496	507	534	555	555	555	534	507	496	507	534	555
45	505	501	474	445	434	445	474	501	505	501	474	445	434	445	474	501
50	449	444	409	380	367	380	409	444	449	444	409	380	367	380	409	444
55	395	385	346	313	299	313	346	385	395	385	346	313	299	313	346	385
60	338	323	280	247	236	247	280	323	338	323	280	247	236	247	280	323
65	280	261	216	183	172	183	216	261	280	261	216	183	172	183	216	261
70	223	197	152	125	117	125	152	197	223	197	152	125	117	125	152	197
75	162	133	92	70	64	70	92	133	162	133	92	70	64	70	92	133
80	104	73	42	38	38	38	42	73	104	73	42	38	38	38	42	73
85	40	22	20	19	19	19	20	22	40	22	20	19	19	19	20	22
90	3	4	4	4	4	4	4	4	3	4	4	4	4	4	4	4
95	61	24	27	28	28	28	27	24	61	24	27	28	28	28	27	24
100	158	74	46	52	54	52	46	74	158	74	46	52	54	52	46	74
105	254	205	55	60	63	60	55	205	254	205	55	60	63	60	55	205
110	369	374	145	65	66	65	145	374	369	374	145	65	66	65	145	374
115	495	507	404	133	93	133	404	507	495	507	404	133	93	133	404	507
120	622	633	627	447	310	447	627	633	622	633	627	447	310	447	627	633
125	748	757	759	737	695	737	759	757	748	757	759	737	695	737	759	757
130	884	886	888	882	881	882	888	886	884	886	888	882	881	882	888	886
135	1014	1019	1019	1011	1007	1011	1019	1019	1014	1019	1019	1011	1007	1011	1019	1019
140	1135	1137	1141	1134	1129	1134	1141	1137	1135	1137	1141	1134	1129	1134	1141	1137
145	1249	1253	1252	1251	1247	1251	1252	1253	1249	1253	1252	1251	1247	1251	1252	1253
150	1358	1360	1354	1356	1353	1356	1354	1360	1358	1360	1354	1356	1353	1356	1354	1360
155	1449	1452	1451	1447	1444	1447	1451	1452	1449	1452	1451	1447	1444	1447	1451	1452
160	1530	1530	1528	1528	1520	1528	1528	1530	1530	1530	1528	1528	1520	1528	1528	1530
165	1599	1598	1598	1594	1596	1594	1598	1598	1599	1598	1598	1594	1596	1594	1598	1598
170	1638	1638	1644	1646	1637	1646	1644	1638	1638	1638	1644	1646	1637	1646	1644	1638
175	1658	1661	1668	1667	1659	1667	1668	1661	1658	1661	1668	1667	1659	1667	1668	1661
180	1675	1675	1675	1675	1675	1675	1675	1675	1675	1675	1675	1675	1675	1675	1675	1675

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

#### Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	9455	9455	9455
45	7518	3021	2284
55	6909	2148	1503
65	6181	1346	851
75	5051	594	319
85	2214	136	102

**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	6193	6193	6193	6193	5592	5592	5592	5592	4449	4449	4449	3427	3427	3427	2465	2465	2465	1984
1	5652	5411	5171	4991	5111	4870	4690	4510	3908	3788	3668	3006	2946	2826	2165	2104	2104	1684
2	5171	4750	4389	4089	4630	4269	3968	3728	3427	3247	3066	2646	2525	2405	1924	1864	1744	1443
3	4690	4149	3728	3367	4209	3788	3427	3127	3006	2766	2525	2345	2165	2044	1684	1623	1503	1203
4	4329	3668	3187	2886	3848	3307	2946	2646	2706	2405	2165	2104	1864	1744	1503	1383	1323	1022
5	3968	3247	2826	2465	3548	2946	2585	2285	2405	2104	1864	1864	1684	1503	1383	1263	1142	902
6	3608	2946	2465	2104	3247	2646	2225	1924	2165	1864	1623	1684	1443	1323	1263	1082	1022	782
7	3367	2646	2165	1864	3006	2405	1984	1684	1924	1623	1443	1503	1323	1142	1142	962	902	722
8	3127	2405	1924	1623	2766	2165	1804	1503	1804	1503	1263	1383	1203	1022	1022	902	782	661
9	2886	2165	1744	1443	2585	1984	1623	1323	1623	1323	1142	1263	1082	902	962	842	722	601
10	2706	1984	1563	1263	2405	1804	1443	1203	1503	1203	1022	1203	962	842	902	722	661	541

