



**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'-D10-30K-80-OPL-W**  
(White Housing – Direct – Opal Lens)

Test Number

**IES-P00020**

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 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



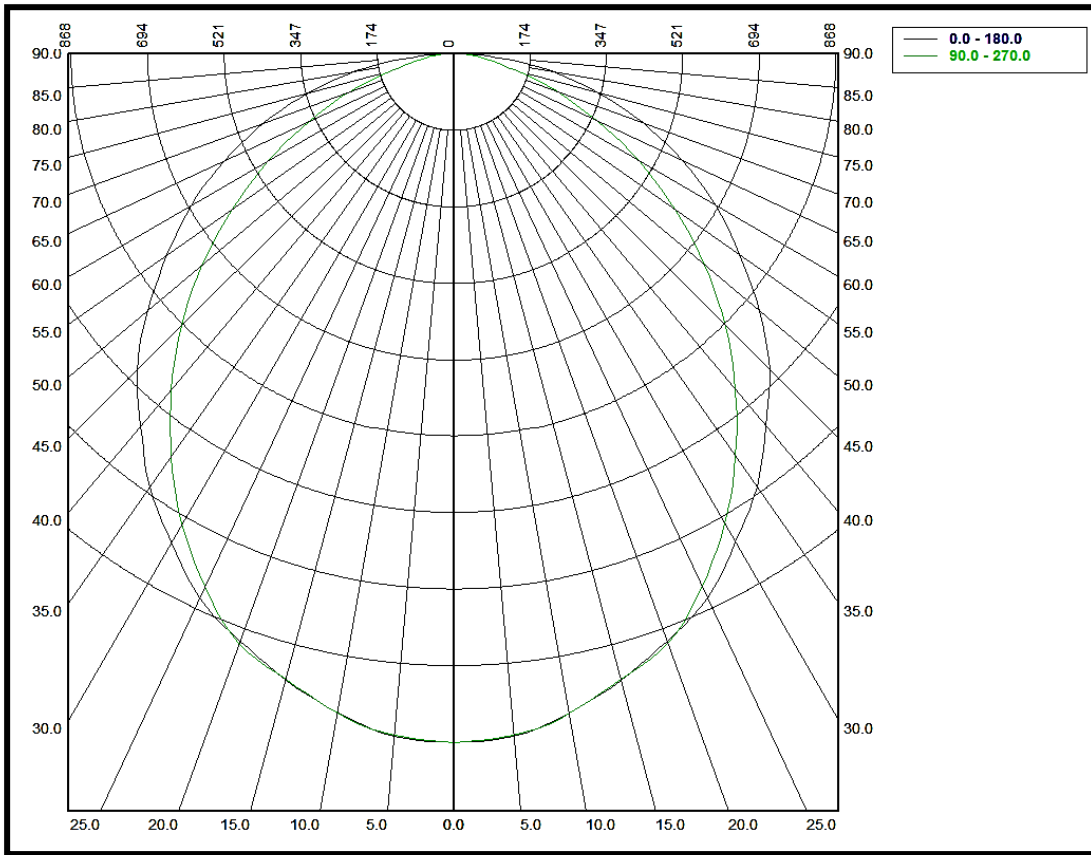
Image may differ slightly from actual unit

#### **Summary of Results**

<b>System Power:</b>	50.8W
<b>Total Luminaire Output:</b>	4040 Lumens
<b>Luminaire Efficacy:</b>	79 lm/W
<b>Max Candela:</b>	1562.52 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	146.88	3.6%	90-100	0	0.0%
10-20	416.51	10.3%	100-110	0	0.0%
20-30	623.1	15.4%	110-120	0	0.0%
30-40	730.47	18.1%	120-130	0	0.0%
40-50	730.79	18.1%	130-140	0	0.0%
50-60	631.66	15.6%	140-150	0	0.0%
60-70	455.42	11.3%	150-160	0	0.0%
70-80	238.44	5.9%	160-170	0	0.0%
80-90	66.42	1.6%	170-180	0	0.0%
0-90	4039.69	100.0%	0-180	4039.69	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	1563	1563	1563	1563	1563	1563	1563	1563	1563	1563	1563	1563	1563	1563	1563	1563
5	1555	1541	1555	1544	1553	1544	1555	1541	1555	1541	1555	1544	1553	1544	1555	1541
10	1519	1514	1516	1521	1520	1521	1516	1514	1519	1514	1516	1521	1520	1521	1516	1514
15	1472	1479	1478	1475	1470	1475	1478	1479	1472	1479	1478	1475	1470	1475	1478	1479
20	1419	1423	1430	1421	1425	1421	1430	1423	1419	1423	1430	1421	1425	1421	1430	1423
25	1364	1362	1361	1346	1335	1346	1361	1362	1364	1362	1361	1346	1335	1346	1361	1362
30	1281	1286	1277	1246	1232	1246	1277	1286	1281	1286	1277	1246	1232	1246	1277	1286
35	1201	1202	1177	1136	1117	1136	1177	1202	1201	1202	1177	1136	1117	1136	1177	1202
40	1104	1110	1066	1018	997	1018	1066	1110	1104	1110	1066	1018	997	1018	1066	1110
45	1015	1003	948	894	874	894	948	1003	1015	1003	948	894	874	894	948	1003
50	906	896	826	768	745	768	826	896	906	896	826	768	745	768	826	896
55	793	781	700	640	613	640	700	781	793	781	700	640	613	640	700	781
60	689	660	576	509	486	509	576	660	689	660	576	509	486	509	576	660
65	574	537	448	384	363	384	448	537	574	537	448	384	363	384	448	537
70	458	413	323	266	247	266	323	413	458	413	323	266	247	266	323	413
75	341	289	201	155	141	155	201	289	341	289	201	155	141	155	201	289
80	225	163	96	81	81	81	96	163	225	163	96	81	81	81	96	163
85	98	55	45	46	45	46	45	55	98	55	45	46	45	46	45	55
90	13	12	12	11	11	11	12	12	13	12	12	11	11	11	12	12

**Average Luminance (cd/m<sup>2</sup>)**
**Horizontal Angle (Degrees)**

ANGLES	0-Deg	45-Deg	90-Deg
0	18541	18541	18541
45	17012	15901	14657
55	16393	14473	12671
65	16087	12560	10174
75	15600	9223	6446
85	13329	6179	6128

**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	4807	4807	4807	4807	4686	4686	4686	4686	4484	4484	4484	4282	4282	4282	4120	4120	4120	4040
1	4403	4242	4040	3918	4282	4120	3959	3838	3959	3838	3717	3797	3717	3595	3676	3555	3515	3434
2	4040	3717	3434	3191	3918	3636	3393	3151	3474	3272	3111	3353	3191	3030	3232	3070	2949	2868
3	3676	3272	2949	2666	3555	3191	2909	2666	3070	2828	2626	2949	2747	2545	2868	2666	2505	2424
4	3353	2909	2545	2262	3272	2828	2505	2262	2747	2464	2222	2666	2383	2222	2545	2343	2181	2101
5	3111	2585	2222	1979	3030	2545	2222	1979	2464	2181	1939	2383	2141	1939	2303	2101	1899	1818
6	2868	2343	1979	1737	2787	2303	1979	1737	2222	1939	1697	2141	1899	1697	2101	1858	1656	1575
7	2666	2141	1777	1535	2585	2101	1777	1535	2020	1737	1495	1979	1697	1495	1899	1656	1495	1414
8	2464	1939	1616	1373	2424	1899	1575	1373	1858	1575	1373	1818	1535	1333	1777	1535	1333	1252
9	2303	1777	1454	1252	2262	1777	1454	1212	1697	1414	1212	1656	1414	1212	1616	1373	1212	1131
10	2181	1656	1333	1131	2141	1616	1333	1131	1575	1293	1131	1535	1293	1091	1495	1293	1091	1050

