



## **Indoor Distribution Test Report**

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

46 Sellers St.  
Kearny, NJ 07032

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

**Catalog Number**  
**CAT-L-4'-D5-30K-80-OPL**  
(Aluminum Housing – Direct – Opal Lens)

Test Number

**IES-P00091**

Test Date

2017-03-27

The results contained in this report pertain only to the tested sample.  
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<b>Luminaire Description:</b>	Extruded Aluminum Housing, Direct w/ Opal Lens
<b>Lamp:</b>	LED (3000K, 80+ CRI)
<b>Installation:</b>	Under Cabinet, Surface Mounted
<b>Luminous Length:</b>	47.63 in
<b>Luminous Width:</b>	0.81 in
<b>Luminous Height:</b>	0.00 in

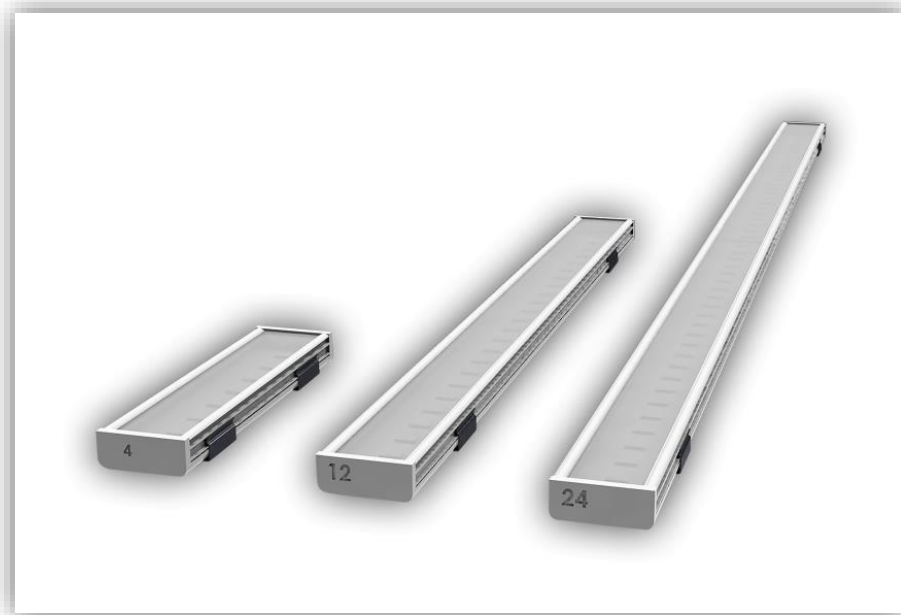


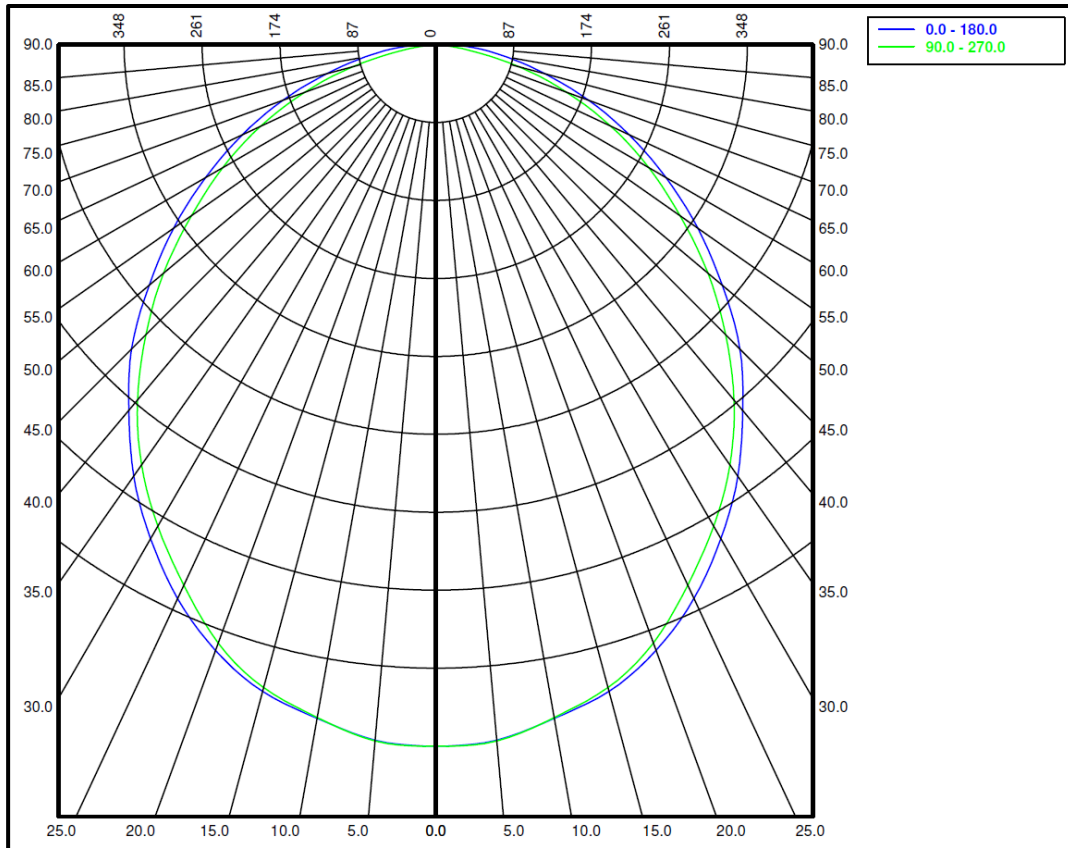
Image may differ slightly from actual unit

### Summary of Results

<b>System Power:</b>	39.3W
<b>Total Luminaire Output:</b>	2003 Lumens
<b>Luminaire Efficacy:</b>	51 lm/W
<b>Max Candela:</b>	783.59 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	74.07	3.7%	90-100	0	0.0%
10-20	209.73	10.5%	100-110	0	0.0%
20-30	310.18	15.5%	110-120	0	0.0%
30-40	363.09	18.1%	120-130	0	0.0%
40-50	361.46	18.0%	130-140	0	0.0%
50-60	310.24	15.5%	140-150	0	0.0%
60-70	225.66	11.3%	150-160	0	0.0%
70-80	120.64	6.0%	160-170	0	0.0%
80-90	28.04	1.4%	170-180	0	0.0%
0-90	2003.11	100.0%	0-180	2003.11	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	784	784	784	784	784	784	784	784	784	784	784	784	784	784	784	784
5	780	779	780	783	781	783	780	779	780	779	780	783	781	783	780	779
10	764	768	769	769	763	769	769	768	764	768	769	769	763	769	769	768
15	748	746	743	742	744	742	743	746	748	746	743	742	744	742	743	746
20	720	715	711	709	711	709	711	715	720	715	711	709	711	709	711	715
25	683	677	671	669	666	669	671	677	683	677	671	669	666	669	671	677
30	637	634	630	626	621	626	630	634	637	634	630	626	621	626	630	634
35	589	586	580	577	573	577	580	586	589	586	580	577	573	577	580	586
40	534	533	526	521	519	521	526	533	534	533	526	521	519	521	526	533
45	481	474	469	463	458	463	469	474	481	474	469	463	458	463	469	474
50	418	415	409	400	397	400	409	415	418	415	409	400	397	400	409	415
55	358	355	346	338	333	338	346	355	358	355	346	338	333	338	346	355
60	297	295	287	279	275	279	287	295	297	295	287	279	275	279	287	295
65	239	235	229	219	216	219	229	235	239	235	229	219	216	219	229	235
70	182	179	171	161	156	161	171	179	182	179	171	161	156	161	171	179
75	127	124	115	103	96	103	115	124	127	124	115	103	96	103	115	124
80	81	77	63	46	39	46	63	77	81	77	63	46	39	46	63	77
85	44	33	14	8	7	8	14	33	44	33	14	8	7	8	14	33
90	10	2	0	0	0	0	0	2	10	2	0	0	0	0	0	2

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

#### Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	31482	31482	31482
45	27297	26624	26010
55	25039	24232	23324
65	22677	21726	20513
75	19620	17817	14879
85	20121	6231	3178

**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	2384	2384	2384	2384	2324	2324	2324	2324	2223	2223	2223	2123	2123	2123	2043	2043	2043	2003
1	2183	2103	2023	1943	2143	2043	1983	1903	1963	1903	1843	1883	1843	1783	1823	1783	1743	1703
2	2003	1843	1703	1602	1943	1803	1683	1582	1723	1623	1542	1663	1582	1502	1602	1522	1462	1422
3	1823	1623	1462	1342	1783	1582	1442	1322	1522	1402	1302	1482	1362	1282	1422	1322	1262	1202
4	1683	1442	1262	1142	1623	1422	1242	1122	1362	1222	1122	1322	1202	1102	1282	1162	1082	1042
5	1542	1282	1122	982	1502	1262	1102	982	1222	1082	961	1182	1062	961	1142	1042	941	901
6	1422	1162	982	861	1382	1142	982	861	1102	961	841	1082	941	841	1042	921	841	801
7	1322	1062	881	761	1282	1042	881	761	1002	861	761	982	841	741	961	841	741	701
8	1242	961	801	681	1202	961	801	681	921	781	681	901	761	681	881	761	661	621
9	1162	881	721	621	1122	881	721	621	861	701	621	841	701	601	821	701	601	561
10	1082	821	661	561	1062	801	661	561	781	661	561	781	641	561	761	641	561	521

