

## **Indoor Distribution Test Report**

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

46 Sellers St.  
Kearny, NJ 07032

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

#### **Catalog Number**

**KAY-L-4'-D5-I3-30K-80-OPL-W**

(White Housing – Direct / Indirect – Opal Lenses)

Test Number

**IES-P00076**

Test Date

2017-04-12

The results contained in this report pertain only to the tested sample.  
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<b>Luminaire Description:</b>	Extruded Aluminum Housing, Direct / Indirect w/ Opal Lenses
<b>Lamp:</b>	LED (3000K, 80+ CRI)
<b>Installation:</b>	Suspension from Ceiling
<b>Luminous Length:</b>	48.13 in
<b>Luminous Width:</b>	2.31 in
<b>Luminous Height:</b>	4.63 in



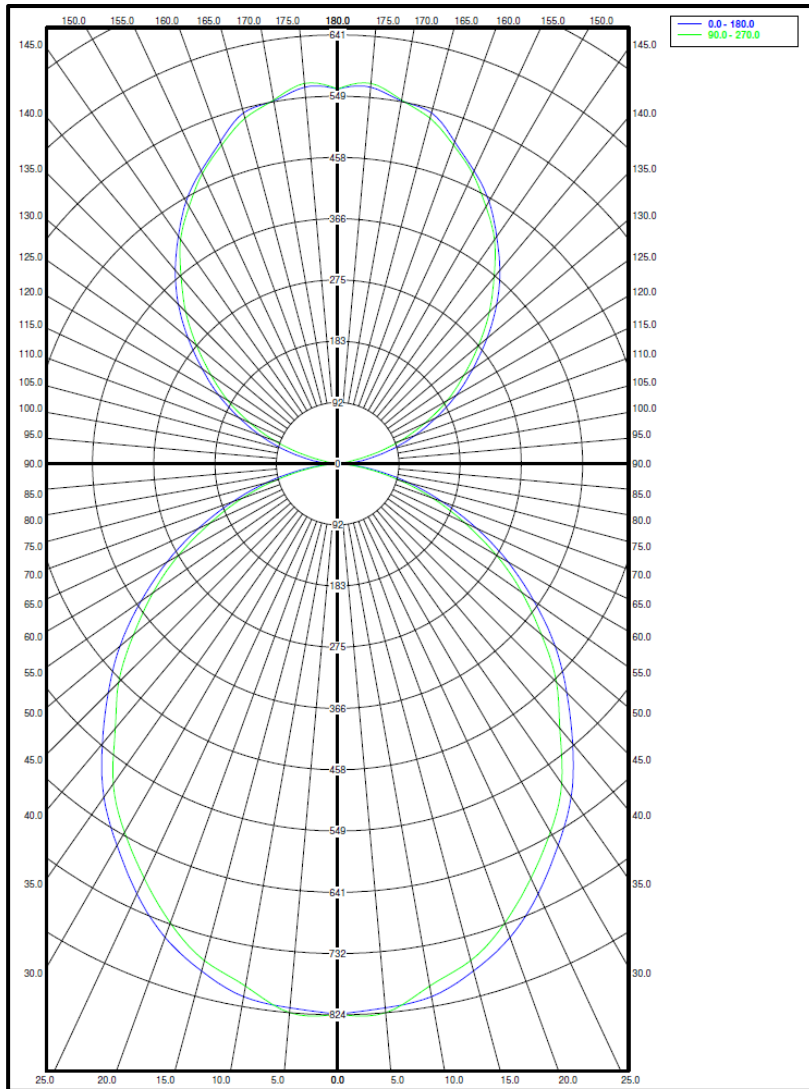
Image may differ slightly from actual unit

### **Summary of Results**

<b>System Power:</b>	44.7W
<b>Total Luminaire Output:</b>	3412 Lumens
<b>Luminaire Efficacy:</b>	76 lm/W
<b>Max Candela:</b>	827.98 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	77.8	2.3%	90-100	14.91	0.4%
10-20	218.06	6.4%	100-110	76.18	2.2%
20-30	319.96	9.4%	110-120	153.29	4.5%
30-40	369.54	10.8%	120-130	215.48	6.3%
40-50	363.58	10.7%	130-140	253.92	7.4%
50-60	310.25	9.1%	140-150	258.24	7.6%
60-70	219.2	6.4%	150-160	222.84	6.5%
70-80	110.82	3.2%	160-170	151.43	4.4%
80-90	23.06	0.7%	170-180	53.34	1.6%
0-90	2012.27	59.0%	0-180	3411.9	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	823	823	823	823	823	823	823	823	823	823	823	823	823	823	823	823
5	816	828	827	824	824	824	827	828	816	828	827	824	824	824	827	828
10	809	802	798	797	793	797	798	802	809	802	798	797	793	797	798	802
15	785	773	775	771	769	771	775	773	785	773	775	771	769	771	775	773
20	754	742	738	735	731	735	738	742	754	742	738	735	731	735	738	742
25	709	700	691	688	684	688	691	700	709	700	691	688	684	688	691	700
30	659	656	644	638	636	638	644	656	659	656	644	638	636	638	644	656
35	609	596	591	584	584	584	591	596	609	596	591	584	584	584	591	596
40	547	542	527	522	517	522	527	542	547	542	527	522	517	522	527	542
45	484	478	469	465	463	465	469	478	484	478	469	465	463	465	469	478
50	424	417	410	402	398	402	410	417	424	417	410	402	398	402	410	417
55	358	354	348	338	337	338	348	354	358	354	348	338	337	338	348	354
60	294	291	283	275	274	275	283	291	294	291	283	275	274	275	283	291
65	230	228	221	214	210	214	221	228	230	228	221	214	210	214	221	228
70	168	167	161	155	153	155	161	167	168	167	161	155	153	155	161	167
75	111	110	103	98	96	98	103	110	111	110	103	98	96	98	103	110
80	58	57	52	48	47	48	52	57	58	57	52	48	47	48	52	57
85	19	18	15	13	13	13	15	18	19	18	15	13	13	13	15	18
90	3	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1
95	26	17	4	3	3	3	4	17	26	17	4	3	3	3	4	17
100	52	50	34	20	16	20	34	50	52	50	34	20	16	20	34	50
105	85	83	73	60	53	60	73	83	85	83	73	60	53	60	73	83
110	123	121	112	104	100	104	112	121	123	121	112	104	100	104	112	121
115	162	163	155	147	145	147	155	163	162	163	155	147	145	147	155	163
120	205	205	199	191	190	191	199	205	205	205	199	191	190	191	199	205
125	247	248	240	235	231	235	240	248	247	248	240	235	231	235	240	248
130	291	292	285	278	275	278	285	292	291	292	285	278	275	278	285	292
135	336	336	329	323	321	323	329	336	336	336	329	323	321	323	329	336
140	377	380	371	366	364	366	371	380	377	380	371	366	364	366	371	380
145	415	420	415	408	409	408	415	420	415	420	415	408	409	408	415	420
150	453	455	449	446	444	446	449	455	453	455	449	446	444	446	449	455
155	483	488	486	482	478	482	486	488	483	488	486	482	478	482	486	488
160	512	517	515	514	507	514	515	517	512	517	515	514	507	514	515	517
165	543	538	541	538	534	538	541	538	543	538	541	538	534	538	541	538
170	550	551	552	549	552	549	552	551	550	551	552	549	552	549	552	551
175	565	561	559	570	570	570	559	561	565	561	559	570	570	570	559	561
180	560	560	560	560	560	560	560	560	560	560	560	560	560	560	560	560

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

#### Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	11464	11464	11464
45	8702	3717	3036
55	7652	2706	2118
65	6291	1738	1310
75	4388	851	610
85	1446	134	85

**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	3719	3719	3719	3719	3480	3480	3480	3480	3002	3002	3002	2593	2593	2593	2184	2184	2184	2013
1	3412	3275	3139	3037	3173	3071	2934	2832	2661	2559	2491	2286	2218	2184	1945	1911	1877	1706
2	2832	2525	2286	2081	2661	2354	2149	1979	2081	1911	1740	1808	1672	1569	1535	1433	1365	1228
3	2593	2252	1979	1774	2422	2115	1842	1672	1842	1638	1501	1604	1467	1331	1365	1262	1160	1058
4	2388	2013	1706	1501	2218	1877	1638	1433	1638	1467	1297	1433	1297	1160	1228	1126	1024	921
5	2218	1808	1501	1331	2047	1706	1433	1262	1501	1297	1126	1297	1160	1024	1126	989	921	819
6	2047	1638	1365	1160	1911	1535	1297	1092	1365	1160	989	1194	1024	921	1024	921	819	716
7	1911	1467	1194	1024	1774	1399	1160	989	1228	1024	887	1092	921	819	955	819	716	648
8	1774	1365	1092	921	1638	1262	1058	887	1126	955	819	989	853	716	887	751	648	580
9	1672	1228	989	819	1535	1160	955	785	1058	853	716	921	785	648	819	682	614	546

