

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-I5-30K-80-OPL-W

(White Housing – Direct / Indirect – Opal Lenses)

Test Number

IES-P00077

Test Date

2017-04-12

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



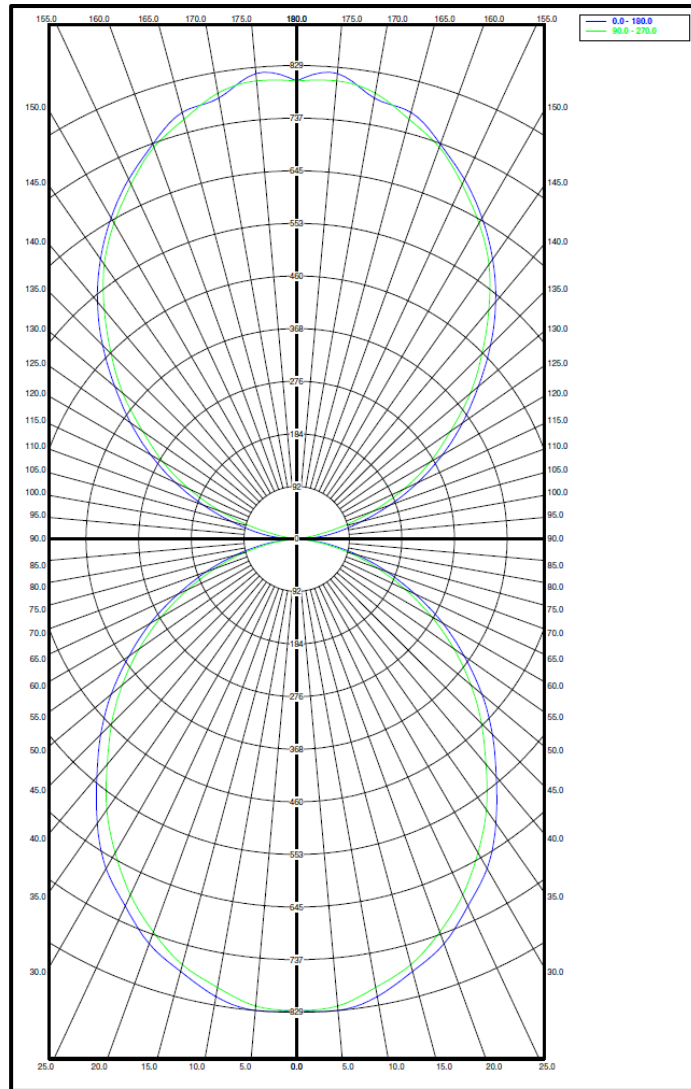
Image may differ slightly from actual unit

Summary of Results

System Power:	51.0W
Total Luminaire Output:	4015 Lumens
Luminaire Efficacy:	79 lm/W
Max Candela:	828.77 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	77.82	1.9%	90-100	21.27	0.5%
10-20	218.41	5.4%	100-110	108.78	2.7%
20-30	320.86	8.0%	110-120	219.43	5.5%
30-40	369.58	9.2%	120-130	308.08	7.7%
40-50	363.25	9.0%	130-140	363.59	9.1%
50-60	310.46	7.7%	140-150	369.72	9.2%
60-70	219.31	5.5%	150-160	318.41	7.9%
70-80	110.75	2.8%	160-170	216.23	5.4%
80-90	23.19	0.6%	170-180	76.11	1.9%
0-90	2013.63	50.1%	0-180	4015.25	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	825	825	825	825	825	825	825	825	825	825	825	825	825	825	825	825
5	829	820	828	819	821	819	828	820	829	820	828	819	821	819	828	820
10	814	804	799	798	797	798	799	804	814	804	799	798	797	798	799	804
15	784	778	773	772	772	772	773	778	784	778	773	772	772	772	773	778
20	754	746	740	732	733	732	740	746	754	746	740	732	733	732	740	746
25	709	705	694	691	688	691	694	705	709	705	694	691	688	691	694	705
30	667	656	645	638	635	638	645	656	667	656	645	638	635	638	645	656
35	608	598	591	581	579	581	591	598	608	598	591	581	579	581	591	598
40	544	542	530	522	516	522	530	542	544	542	530	522	516	522	530	542
45	485	477	469	463	458	463	469	477	485	477	469	463	458	463	469	477
50	423	419	409	402	398	402	409	419	423	419	409	402	398	402	409	419
55	358	353	348	339	337	339	348	353	358	353	348	339	337	339	348	353
60	296	290	284	277	273	277	284	290	296	290	284	277	273	277	284	290
65	229	229	221	214	211	214	221	229	229	229	221	214	211	214	221	229
70	168	166	162	155	152	155	162	166	168	166	162	155	152	155	162	166
75	111	110	103	97	97	97	103	110	111	110	103	97	97	97	103	110
80	59	57	52	48	46	48	52	57	59	57	52	48	46	48	52	57
85	19	18	15	13	13	13	15	18	19	18	15	13	13	13	15	18
90	4	1	1	1	1	1	1	1	4	1	1	1	1	1	1	1
95	37	23	6	4	4	4	6	23	37	23	6	4	4	4	6	23
100	74	72	49	28	24	28	49	72	74	72	49	28	24	28	49	72
105	118	118	105	85	77	85	105	118	118	118	105	85	77	85	105	118
110	174	173	161	148	142	148	161	173	174	173	161	148	142	148	161	173
115	234	234	221	210	208	210	221	234	234	234	221	210	208	210	221	234
120	295	294	284	274	270	274	284	294	295	294	284	274	270	274	284	294
125	355	353	345	334	328	334	345	353	355	353	345	334	328	334	345	353
130	415	417	407	399	397	399	407	417	415	417	407	399	397	399	407	417
135	480	482	470	465	459	465	470	482	480	482	470	465	459	465	470	482
140	542	540	534	525	523	525	534	540	542	540	534	525	523	525	534	540
145	598	600	592	583	587	583	592	600	598	600	592	583	587	583	592	600
150	649	651	644	639	638	639	644	651	649	651	644	639	638	639	644	651
155	695	697	691	684	685	684	691	697	695	697	691	684	685	684	691	697
160	736	738	735	732	730	732	735	738	736	738	735	732	730	732	735	738
165	773	771	768	764	761	764	768	771	773	771	768	764	761	764	768	771
170	784	796	791	789	793	789	791	796	784	796	791	789	793	789	791	796
175	818	796	797	800	805	800	797	796	818	796	797	800	805	800	797	796
180	802	802	802	802	802	802	802	802	802	802	802	802	802	802	802	802

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	11497	11497	11497
45	8707	3723	3003
55	7645	2711	2117
65	6247	1742	1311
75	4385	847	616
85	1430	137	86

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	4296	4296	4296	4296	3975	3975	3975	3975	3333	3333	3333	2771	2771	2771	2249	2249	2249	2008
1	3935	3774	3614	3493	3614	3493	3373	3252	2971	2851	2771	2449	2409	2329	2008	1967	1927	1727
2	3574	3293	3052	2851	3293	3052	2851	2650	2610	2449	2289	2168	2048	1967	1767	1686	1646	1445
3	3293	2891	2610	2369	3011	2690	2449	2249	2289	2088	1927	1927	1767	1646	1566	1486	1405	1245
4	3011	2570	2249	2008	2771	2369	2128	1887	2048	1847	1646	1727	1566	1445	1405	1285	1205	1044
5	2771	2289	1967	1727	2530	2128	1847	1646	1847	1606	1445	1526	1365	1245	1285	1164	1044	924
6	2530	2048	1727	1526	2329	1927	1646	1405	1646	1405	1245	1405	1205	1084	1164	1044	924	803
7	2369	1847	1526	1325	2168	1727	1445	1245	1486	1285	1124	1285	1084	964	1044	924	843	723
8	2168	1686	1365	1164	2008	1566	1285	1124	1365	1124	1004	1164	1004	843	964	843	763	642
9	2048	1526	1245	1044	1887	1445	1164	1004	1245	1044	883	1084	883	763	883	763	683	602
10	1887	1405	1124	924	1767	1325	1084	883	1164	924	803	1004	803	723	843	723	602	522

