

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-I10-30K-80-OPL-W

(White Housing – Direct / Indirect – Opal Lenses)

Test Number

IES-P00079

Test Date

2017-04-12

The results contained in this report pertain only to the tested sample.
This report shall not be reproduced, except in full, without written approval of Picasso Lighting Industries, LLC.

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



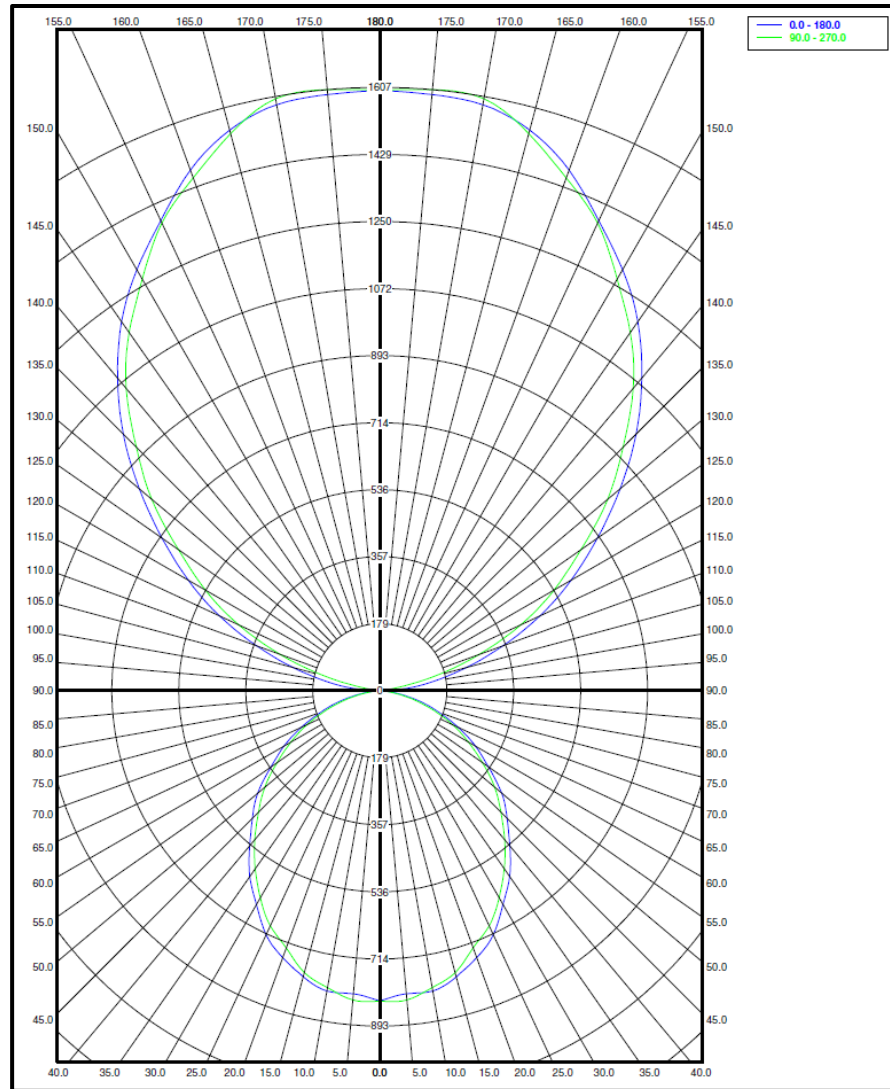
Image may differ slightly from actual unit

Summary of Results

System Power:	71.9W
Total Luminaire Output:	6022 Lumens
Luminaire Efficacy:	84 lm/W
Max Candela:	1638.12 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	77.7	1.3%	90-100	42.21	0.7%
10-20	218.92	3.6%	100-110	217.24	3.6%
20-30	321.16	5.3%	110-120	438.38	7.3%
30-40	369.62	6.1%	120-130	616.35	10.2%
40-50	363.09	6.0%	130-140	727.83	12.1%
50-60	310.74	5.2%	140-150	739.82	12.3%
60-70	219.63	3.6%	150-160	637.87	10.6%
70-80	111.3	1.8%	160-170	433.35	7.2%
80-90	23.45	0.4%	170-180	153.23	2.5%
0-90	2015.61	33.5%	0-180	6021.89	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	826	826	826	826	826	826	826	826	826	826	826	826	826	826	826	826
5	810	811	823	819	827	819	823	811	810	811	823	819	827	819	823	811
10	812	813	805	794	803	794	805	813	812	813	805	794	803	794	805	813
15	788	781	775	770	777	770	775	781	788	781	775	770	777	770	775	781
20	757	748	733	739	729	739	733	748	757	748	733	739	729	739	733	748
25	717	705	696	688	691	688	696	705	717	705	696	688	691	688	696	705
30	658	657	640	644	637	644	640	657	658	657	640	644	637	644	640	657
35	605	602	590	581	579	581	590	602	605	602	590	581	579	581	590	602
40	540	537	533	526	519	526	533	537	540	537	533	526	519	526	533	537
45	481	477	470	462	457	462	470	477	481	477	470	462	457	462	470	477
50	425	419	409	401	401	401	409	419	425	419	409	401	401	401	409	419
55	355	355	350	339	335	339	350	355	355	355	350	339	335	339	350	355
60	295	290	286	278	274	278	286	290	295	290	286	278	274	278	286	290
65	231	228	220	214	214	214	220	228	231	228	220	214	214	214	220	228
70	168	167	161	153	153	153	161	167	168	167	161	153	153	153	161	167
75	113	110	105	99	97	99	105	110	113	110	105	99	97	99	105	110
80	58	57	52	49	47	49	52	57	58	57	52	49	47	49	52	57
85	18	18	15	14	12	14	15	18	18	18	15	14	12	14	15	18
90	6	2	1	1	1	1	1	2	6	2	1	1	1	1	1	2
95	72	47	12	8	8	8	12	47	72	47	12	8	8	8	12	47
100	148	144	98	59	46	59	98	144	148	144	98	59	46	59	98	144
105	241	234	208	170	156	170	208	234	241	234	208	170	156	170	208	234
110	350	342	323	296	283	296	323	342	350	342	323	296	283	296	323	342
115	472	465	442	419	415	419	442	465	472	465	442	419	415	419	442	465
120	590	588	567	547	538	547	567	588	590	588	567	547	538	547	567	588
125	709	708	689	668	655	668	689	708	709	708	689	668	655	668	689	708
130	837	836	815	794	794	794	815	836	837	836	815	794	794	794	815	836
135	967	969	946	920	918	920	946	969	967	969	946	920	918	920	946	969
140	1088	1081	1064	1051	1052	1051	1064	1081	1088	1081	1064	1051	1052	1051	1064	1081
145	1200	1199	1186	1170	1165	1170	1186	1199	1200	1199	1186	1170	1165	1170	1186	1199
150	1296	1305	1289	1280	1267	1280	1289	1305	1296	1305	1289	1280	1267	1280	1289	1305
155	1382	1394	1386	1381	1375	1381	1386	1394	1382	1394	1386	1381	1375	1381	1386	1394
160	1476	1469	1480	1469	1454	1469	1480	1469	1476	1469	1480	1469	1454	1469	1480	1469
165	1546	1549	1531	1521	1537	1521	1531	1549	1546	1549	1531	1521	1537	1521	1531	1549
170	1585	1589	1594	1593	1601	1593	1594	1589	1585	1589	1594	1593	1601	1593	1594	1589
175	1594	1615	1611	1638	1607	1638	1611	1615	1594	1615	1611	1638	1607	1638	1611	1615
180	1599	1599	1599	1599	1599	1599	1599	1599	1599	1599	1599	1599	1599	1599	1599	1599

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	11511	11511	11511
45	8634	3723	3001
55	7573	2728	2106
65	6302	1737	1335
75	4459	860	615
85	1396	137	83

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	6203	6203	6203	6203	5600	5600	5600	5600	4456	4456	4456	3432	3432	3432	2469	2469	2469	1987
1	5661	5420	5179	4998	5119	4878	4697	4516	3914	3794	3673	3011	2951	2891	2168	2168	2108	1746
2	5179	4757	4396	4095	4637	4276	3974	3734	3432	3252	3071	2650	2529	2409	1927	1867	1807	1445
3	4697	4155	3734	3432	4215	3794	3432	3131	3011	2770	2589	2349	2168	2047	1746	1626	1505	1204
4	4336	3673	3252	2891	3854	3372	2951	2650	2710	2409	2168	2108	1927	1746	1566	1385	1325	1084
5	3974	3312	2830	2469	3553	3011	2589	2288	2409	2108	1867	1867	1686	1505	1385	1265	1144	903
6	3613	2951	2469	2108	3252	2650	2288	1987	2168	1867	1626	1686	1505	1325	1265	1144	1024	843
7	3372	2650	2168	1867	3011	2409	1987	1746	1987	1686	1445	1566	1325	1144	1144	1024	903	723
8	3131	2409	1927	1626	2830	2168	1807	1505	1807	1505	1265	1385	1204	1024	1084	903	783	662
9	2891	2168	1746	1445	2589	1987	1626	1325	1626	1325	1144	1265	1084	903	964	843	723	602
10	2710	1987	1566	1325	2469	1807	1445	1204	1505	1204	1024	1204	964	843	903	783	662	542

