

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

KAY-L-4'-D3-I5-30K-80-OPL-W

(White Housing – Direct / Indirect – Opal Lenses)

Test Number

IES-P00073

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



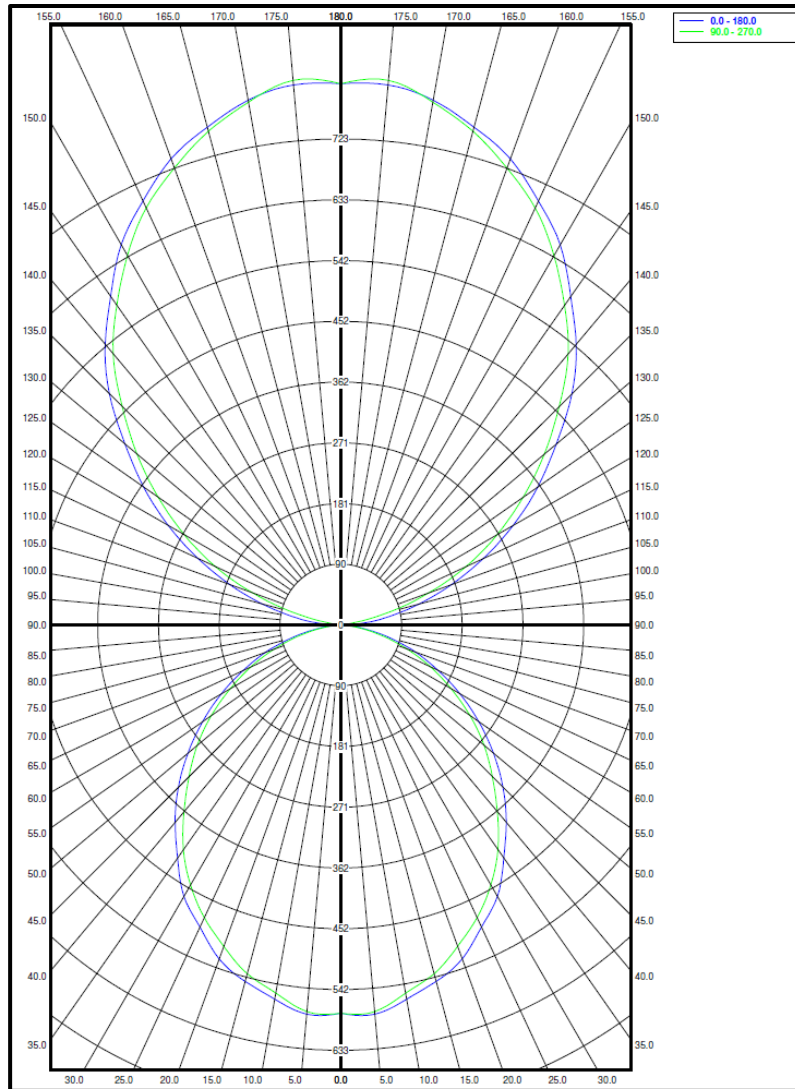
Image may differ slightly from actual unit

Summary of Results

System Power:	41.1W
Total Luminaire Output:	3413 Lumens
Luminaire Efficacy:	83 lm/W
Max Candela:	813.49 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	54.59	1.6%	90-100	21.1	0.6%
10-20	152.63	4.5%	100-110	108.88	3.2%
20-30	224.37	6.6%	110-120	219.37	6.4%
30-40	258.64	7.6%	120-130	308.44	9.0%
40-50	254.61	7.5%	130-140	364.74	10.7%
50-60	217.16	6.4%	140-150	369.7	10.8%
60-70	153.56	4.5%	150-160	318.79	9.3%
70-80	77.54	2.3%	160-170	216.35	6.3%
80-90	16.27	0.5%	170-180	76.35	2.2%
0-90	1409.37	41.3%	0-180	3413.09	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	578	578	578	578	578	578	578	578	578	578	578	578	578	578	578	578
5	581	585	574	576	577	576	574	585	581	585	574	576	577	576	574	585
10	565	563	560	561	556	561	560	563	565	563	560	561	556	561	560	563
15	549	544	542	537	537	537	542	544	549	544	542	537	537	537	542	544
20	529	519	515	513	509	513	515	519	529	519	515	513	509	513	515	519
25	496	493	487	483	480	483	487	493	496	493	487	483	480	483	487	493
30	467	456	453	447	447	447	453	456	467	456	453	447	447	447	453	456
35	423	417	413	407	408	407	413	417	423	417	413	407	408	407	413	417
40	383	377	370	369	363	369	370	377	383	377	370	369	363	369	370	377
45	342	335	330	325	319	325	330	335	342	335	330	325	319	325	330	335
50	297	291	287	282	279	282	287	291	297	291	287	282	279	282	287	291
55	251	249	242	236	235	236	242	249	251	249	242	236	235	236	242	249
60	205	204	200	194	190	194	200	204	205	204	200	194	190	194	200	204
65	160	158	156	151	148	151	156	158	160	158	156	151	148	151	156	158
70	119	117	112	109	106	109	112	117	119	117	112	109	106	109	112	117
75	78	76	72	69	67	69	72	76	78	76	72	69	67	69	72	76
80	41	40	37	33	33	33	37	40	41	40	37	33	33	33	37	40
85	13	13	11	9	9	9	11	13	13	13	11	9	9	9	11	13
90	3	1	1	1	1	1	1	1	3	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	71	49	28	24	28	49	71	74	71	49	28	24	28	49	71
105	121	118	104	85	77	85	104	118	121	118	104	85	77	85	104	118
110	175	172	163	148	140	148	163	172	175	172	163	148	140	148	163	172
115	235	235	222	210	207	210	222	235	235	235	222	210	207	210	222	235
120	296	294	283	273	269	273	283	294	296	294	283	273	269	273	283	294
125	358	355	342	336	331	336	342	355	358	355	342	336	331	336	342	355
130	419	417	407	399	396	399	407	417	419	417	407	399	396	399	407	417
135	487	482	472	465	460	465	472	482	487	482	472	465	460	465	472	482
140	545	545	532	529	527	529	532	545	545	545	532	529	527	529	532	545
145	597	597	591	587	581	587	591	597	597	597	591	587	581	587	591	597
150	653	648	641	640	635	640	641	648	653	648	641	640	635	640	641	648
155	696	698	693	687	685	687	693	698	696	698	693	687	685	687	693	698
160	738	742	738	732	724	732	738	742	738	742	738	732	724	732	738	742
165	767	769	764	770	761	770	764	769	767	769	764	770	761	770	764	769
170	793	795	793	793	790	793	793	795	793	795	793	793	790	793	793	795
175	806	800	801	803	813	803	801	800	806	800	801	803	813	803	801	800
180	805	805	805	805	805	805	805	805	805	805	805	805	805	805	805	805

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	8049	8049	8049
45	6138	2615	2095
55	5356	1887	1480
65	4373	1226	919
75	3071	594	424
85	1022	94	58

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	3584	3584	3584	3584	3277	3277	3277	3277	2662	2662	2662	2150	2150	2150	1638	1638	1638	1399
1	3277	3140	3004	2901	2969	2867	2765	2662	2355	2287	2219	1877	1843	1809	1468	1433	1399	1195
2	3004	2730	2526	2355	2730	2526	2321	2184	2082	1945	1843	1672	1570	1502	1297	1229	1195	1024
3	2730	2423	2184	1980	2492	2219	2014	1843	1843	1672	1536	1468	1365	1263	1160	1092	1024	853
4	2492	2150	1877	1672	2253	1945	1741	1536	1638	1468	1331	1331	1195	1092	1024	956	887	751
5	2287	1911	1638	1433	2082	1741	1502	1331	1468	1263	1126	1195	1058	956	922	853	751	648
6	2116	1707	1433	1229	1911	1570	1331	1160	1297	1126	990	1058	922	819	853	751	683	580
7	1945	1536	1263	1092	1775	1433	1195	1024	1195	990	887	956	853	751	785	683	614	512
8	1809	1399	1126	956	1638	1297	1058	887	1092	887	785	887	751	648	717	614	546	444
9	1672	1263	1024	853	1536	1160	956	785	990	819	683	819	683	580	648	546	478	410
10	1570	1160	922	751	1433	1092	853	717	922	751	614	751	614	546	614	512	444	375

