

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-I3-30K-80-OPL-W

(White Housing – Direct / Indirect – Opal Lenses)

Test Number

IES-P00072

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



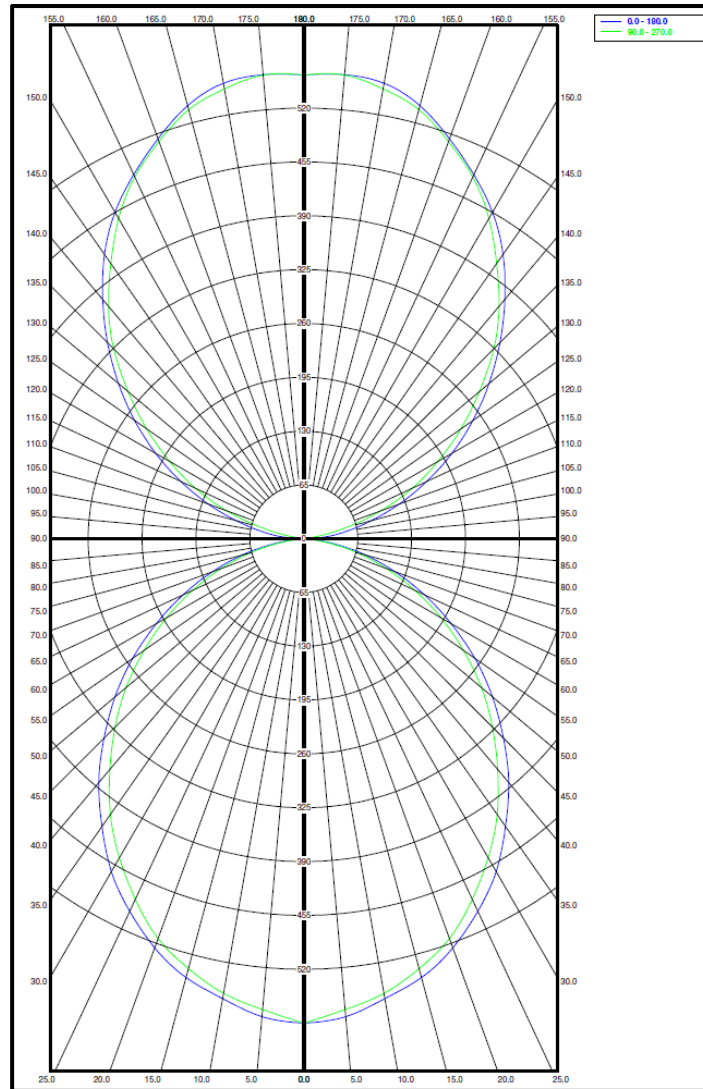
Image may differ slightly from actual unit

Summary of Results

System Power:	34.9W
Total Luminaire Output:	2812 Lumens
Luminaire Efficacy:	81 lm/W
Max Candela:	584.87 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	54.64	1.9%	90-100	14.84	0.5%
10-20	152.75	5.4%	100-110	76.44	2.7%
20-30	224.32	8.0%	110-120	153.57	5.5%
30-40	258.74	9.2%	120-130	215.81	7.7%
40-50	254.69	9.1%	130-140	254.72	9.1%
50-60	217.28	7.7%	140-150	258.83	9.2%
60-70	153.61	5.5%	150-160	223.09	7.9%
70-80	77.67	2.8%	160-170	151.64	5.4%
80-90	16.28	0.6%	170-180	53.37	1.9%
0-90	1409.98	50.1%	0-180	2812.29	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	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585
5	579	581	578	574	571	574	578	581	579	581	578	574	571	574	578	581
10	564	564	564	561	557	561	564	564	564	564	564	561	557	561	564	564
15	549	546	540	538	537	538	540	546	549	546	540	538	537	538	540	546
20	526	521	516	513	514	513	516	521	526	521	516	513	514	513	516	521
25	497	492	486	483	481	483	486	492	497	492	486	483	481	483	486	492
30	464	457	452	446	445	446	452	457	464	457	452	446	445	446	452	457
35	424	419	413	408	407	408	413	419	424	419	413	408	407	408	413	419
40	385	378	370	367	364	367	370	378	385	378	370	367	364	367	370	378
45	341	335	329	325	322	325	329	335	341	335	329	325	322	325	329	335
50	297	292	287	281	280	281	287	292	297	292	287	281	280	281	287	292
55	252	248	243	237	235	237	243	248	252	248	243	237	235	237	243	248
60	205	203	199	193	191	193	199	203	205	203	199	193	191	193	199	203
65	161	159	156	150	148	150	156	159	161	159	156	150	148	150	156	159
70	118	117	113	109	106	109	113	117	118	117	113	109	106	109	113	117
75	77	77	72	69	67	69	72	77	77	77	72	69	67	69	72	77
80	41	40	37	34	33	34	37	40	41	40	37	34	33	34	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	26	16	4	3	3	3	4	16	26	16	4	3	3	3	4	16
100	52	50	34	20	16	20	34	50	52	50	34	20	16	20	34	50
105	85	83	73	60	54	60	73	83	85	83	73	60	54	60	73	83
110	123	121	114	104	99	104	114	121	123	121	114	104	99	104	114	121
115	164	163	156	148	144	148	156	163	164	163	156	148	144	148	156	163
120	206	204	199	192	187	192	199	204	206	204	199	192	187	192	199	204
125	249	248	241	234	231	234	241	248	249	248	241	234	231	234	241	248
130	292	293	286	279	277	279	286	293	292	293	286	279	277	279	286	293
135	335	337	330	325	324	325	330	337	335	337	330	325	324	325	330	337
140	377	379	374	368	367	368	374	379	377	379	374	368	367	368	374	379
145	419	419	414	410	406	410	414	419	419	419	414	410	406	410	414	419
150	455	457	452	448	447	448	452	457	455	457	452	448	447	448	452	457
155	485	488	484	480	482	480	484	488	485	488	484	480	482	480	484	488
160	514	516	514	513	510	513	514	516	514	516	514	513	510	513	514	516
165	541	540	540	538	536	538	540	540	541	540	540	538	536	538	540	540
170	558	552	557	553	551	553	557	552	558	552	557	553	551	553	557	552
175	562	561	563	565	562	565	563	561	562	561	563	565	562	565	563	561
180	560	560	560	560	560	560	560	560	560	560	560	560	560	560	560	560

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	8151	8151	8151
45	6117	2606	2112
55	5378	1892	1477
65	4393	1226	920
75	3065	596	426
85	1005	95	62

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	3009	3009	3009	3009	2784	2784	2784	2784	2334	2334	2334	1940	1940	1940	1575	1575	1575	1406
1	2756	2644	2531	2447	2531	2447	2362	2278	2081	1997	1940	1715	1687	1631	1406	1378	1350	1209
2	2503	2306	2137	1997	2306	2137	1997	1856	1828	1715	1603	1519	1434	1378	1237	1181	1153	1012
3	2306	2025	1828	1659	2109	1884	1715	1575	1603	1462	1350	1350	1237	1153	1097	1041	984	872
4	2109	1800	1575	1406	1940	1659	1491	1322	1434	1294	1153	1209	1097	1012	984	900	844	731
5	1940	1603	1378	1209	1772	1491	1294	1153	1294	1125	1012	1069	956	872	900	816	731	647
6	1772	1434	1209	1041	1631	1350	1153	984	1153	984	872	984	844	759	816	731	647	562
7	1659	1294	1069	928	1519	1209	1012	872	1041	900	787	900	759	675	731	647	591	506
8	1519	1181	956	816	1406	1097	900	787	956	787	703	816	703	591	675	591	534	450
9	1434	1069	872	731	1322	1012	816	703	872	731	619	759	619	534	619	534	478	422
10	1322	984	787	647	1237	928	759	619	816	647	562	703	562	506	591	506	422	366

