

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-I7-30K-80-OPL-W

(White Housing – Direct / Indirect – Opal Lenses)

Test Number

IES-P00074

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



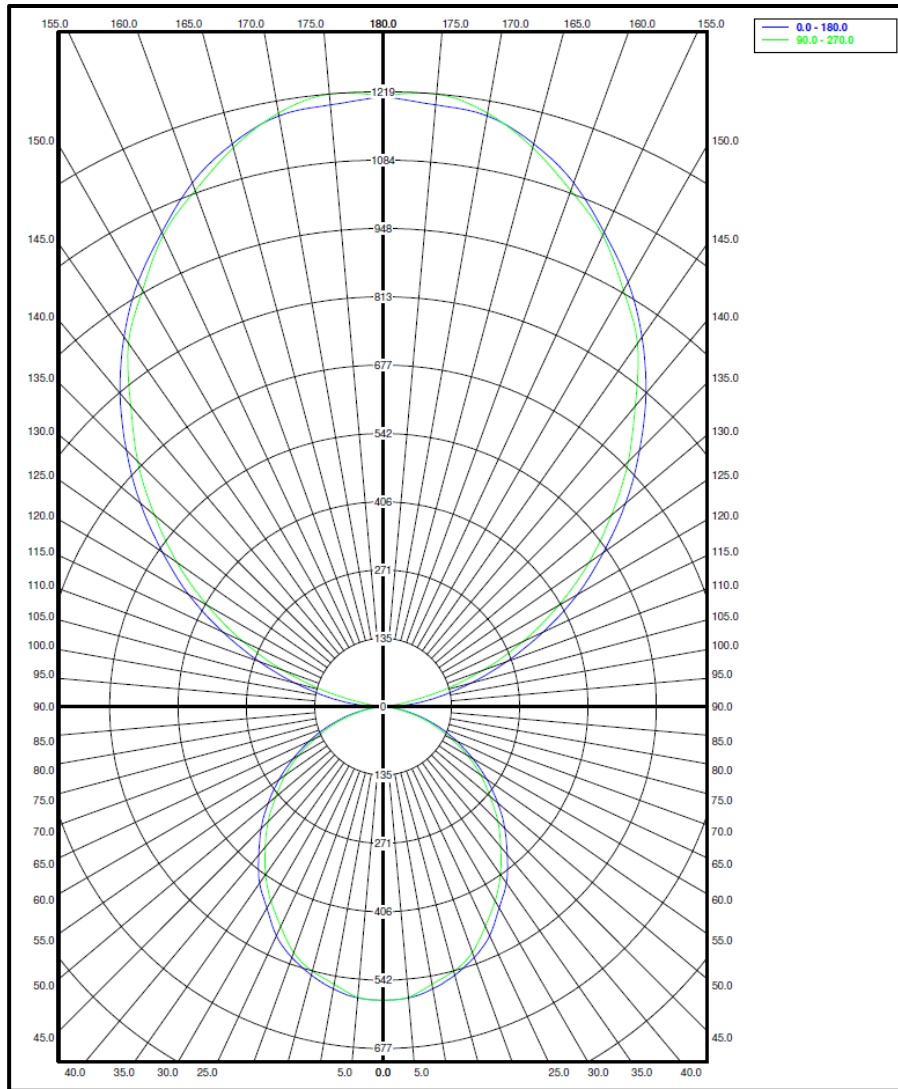
Image may differ slightly from actual unit

Summary of Results

System Power:	51.5W
Total Luminaire Output:	4413 Lumens
Luminaire Efficacy:	86 lm/W
Max Candela:	1219.40 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	54.69	1.2%	90-100	31.53	0.7%
10-20	153.15	3.5%	100-110	163.18	3.7%
20-30	224.49	5.1%	110-120	328.46	7.4%
30-40	258.8	5.9%	120-130	462.55	10.5%
40-50	254.92	5.8%	130-140	544.97	12.3%
50-60	217.73	4.9%	140-150	554.58	12.6%
60-70	153.93	3.5%	150-160	477.43	10.8%
70-80	77.42	1.8%	160-170	324.31	7.3%
80-90	16.48	0.4%	170-180	114.5	2.6%
0-90	1411.61	32.0%	0-180	4413.12	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	582	582	582	582	582	582	582	582	582	582	582	582	582	582	582	582
5	579	581	573	579	578	579	573	581	579	581	573	579	578	579	573	581
10	568	564	569	559	559	559	569	564	568	564	569	559	559	559	569	564
15	551	545	542	540	543	540	542	545	551	545	542	540	543	540	542	545
20	529	518	516	513	518	513	516	518	529	518	516	513	518	513	516	518
25	501	492	487	481	480	481	487	492	501	492	487	481	480	481	487	492
30	461	460	453	446	445	446	453	460	461	460	453	446	445	446	453	460
35	427	419	412	408	406	408	412	419	427	419	412	408	406	408	412	419
40	383	378	371	367	363	367	371	378	383	378	371	367	363	367	371	378
45	342	337	330	323	323	323	330	337	342	337	330	323	323	323	330	337
50	298	293	288	280	278	280	288	293	298	293	288	280	278	280	288	293
55	252	246	244	239	237	239	244	246	252	246	244	239	237	239	244	246
60	206	205	199	195	194	195	199	205	206	205	199	195	194	195	199	205
65	161	160	155	151	148	151	155	160	161	160	155	151	148	151	155	160
70	119	117	112	107	107	107	112	117	119	117	112	107	107	107	112	117
75	78	77	72	68	67	68	72	77	78	77	72	68	67	68	72	77
80	42	41	37	33	33	33	37	41	42	41	37	33	33	33	37	41
85	13	13	11	10	9	10	11	13	13	13	11	10	9	10	11	13
90	4	1	1	1	1	1	1	1	4	1	1	1	1	1	1	1
95	55	35	9	6	6	6	9	35	55	35	9	6	6	6	9	35
100	111	108	74	43	36	43	74	108	111	108	74	43	36	43	74	108
105	180	177	156	128	116	128	156	177	180	177	156	128	116	128	156	177
110	261	260	244	221	211	221	244	260	261	260	244	221	211	221	244	260
115	351	347	334	315	307	315	334	347	351	347	334	315	307	315	334	347
120	446	441	425	409	403	409	425	441	446	441	425	409	403	409	425	441
125	534	530	516	501	499	501	516	530	534	530	516	501	499	501	516	530
130	628	628	610	597	591	597	610	628	628	628	610	597	591	597	610	628
135	720	722	706	694	688	694	706	722	720	722	706	694	688	694	706	722
140	811	812	801	788	778	788	801	812	811	812	801	788	778	788	801	812
145	895	899	886	881	880	881	886	899	895	899	886	881	880	881	886	899
150	972	975	967	958	954	958	967	975	972	975	967	958	954	958	967	975
155	1038	1047	1037	1031	1032	1031	1037	1047	1038	1047	1037	1031	1032	1031	1037	1047
160	1106	1102	1099	1093	1089	1093	1099	1102	1106	1102	1099	1093	1089	1093	1099	1102
165	1155	1150	1157	1155	1148	1155	1157	1150	1155	1150	1157	1155	1148	1155	1157	1150
170	1190	1178	1189	1184	1195	1184	1189	1178	1190	1178	1189	1184	1195	1184	1189	1178
175	1198	1202	1214	1204	1219	1204	1214	1202	1198	1202	1214	1204	1219	1204	1214	1202
180	1210	1210	1210	1210	1210	1210	1210	1210	1210	1210	1210	1210	1210	1210	1210	1210

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	8106	8106	8106
45	6143	2614	2116
55	5377	1897	1491
65	4407	1225	920
75	3069	591	427
85	977	97	63

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	4546	4546	4546	4546	4104	4104	4104	4104	3222	3222	3222	2471	2471	2471	1765	1765	1765	1412
1	4148	3972	3795	3663	3707	3575	3442	3310	2824	2736	2648	2162	2118	2074	1545	1500	1500	1192
2	3795	3442	3222	3001	3398	3133	2913	2736	2515	2339	2207	1898	1809	1721	1368	1324	1280	1015
3	3442	3045	2736	2471	3089	2736	2471	2295	2207	2030	1854	1677	1545	1456	1236	1147	1059	883
4	3133	2692	2339	2118	2824	2427	2162	1942	1942	1765	1589	1500	1368	1236	1103	1015	927	750
5	2869	2383	2030	1809	2604	2162	1854	1633	1765	1545	1368	1368	1192	1103	971	883	794	662
6	2648	2162	1809	1545	2383	1942	1633	1412	1589	1368	1192	1236	1059	927	883	794	706	574
7	2471	1942	1589	1368	2207	1765	1456	1236	1412	1192	1059	1103	971	838	794	706	618	485
8	2295	1765	1412	1192	2030	1589	1324	1103	1280	1059	927	1015	838	750	750	662	574	441
9	2118	1589	1280	1059	1898	1456	1192	971	1192	971	838	927	794	662	706	574	530	397
10	1986	1456	1147	927	1765	1324	1059	883	1103	883	750	838	706	618	618	530	485	353

