

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-I7-30K-80-OPL-W

(White Housing – Direct / Indirect – Opal Lenses)

Test Number

IES-P00078

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



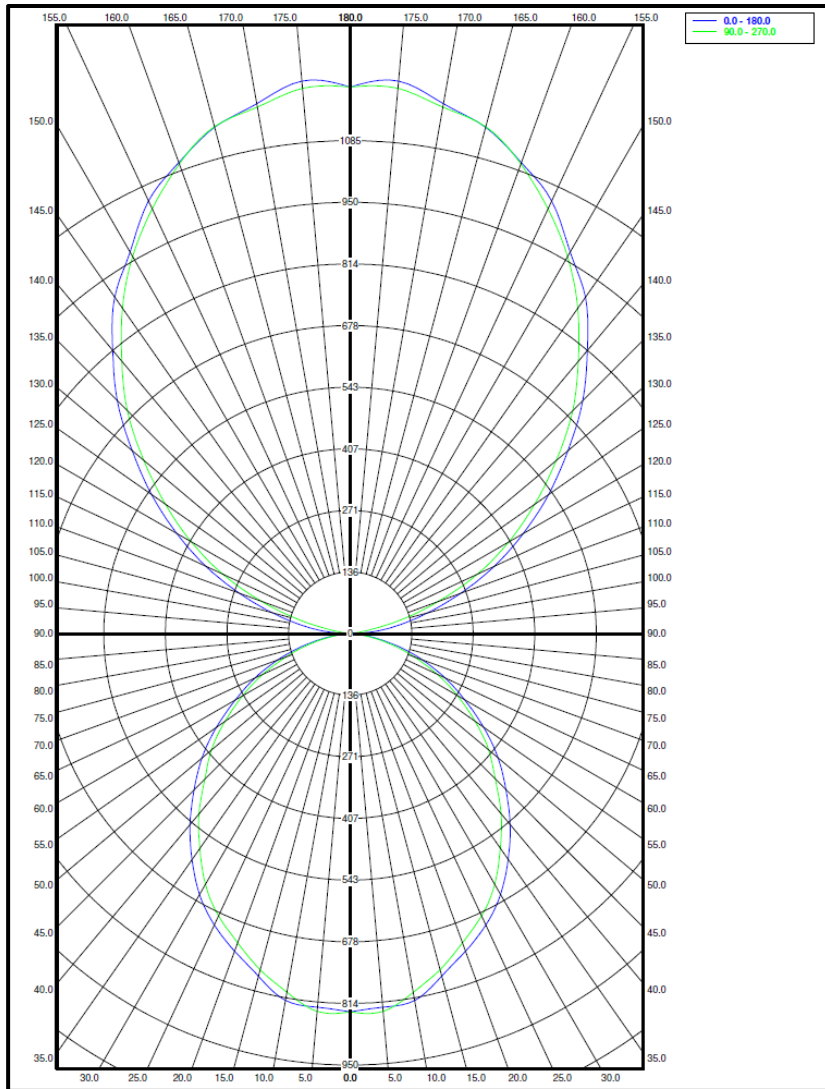
Image may differ slightly from actual unit

Summary of Results

System Power:	61.3W
Total Luminaire Output:	5017 Lumens
Luminaire Efficacy:	82 lm/W
Max Candela:	1220.99 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	77.92	1.6%	90-100	31.67	0.6%
10-20	217.85	4.3%	100-110	163.39	3.3%
20-30	319.82	6.4%	110-120	329.19	6.6%
30-40	369.61	7.4%	120-130	462.61	9.2%
40-50	363.07	7.2%	130-140	546.59	10.9%
50-60	310.36	6.2%	140-150	554.63	11.1%
60-70	219.3	4.4%	150-160	478.43	9.5%
70-80	110.64	2.2%	160-170	324.72	6.5%
80-90	23.33	0.5%	170-180	114.32	2.3%
0-90	2011.9	40.1%	0-180	5017.45	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	833	833	833	833	833	833	833	833	833	833	833	833	833	833	833	833
5	825	820	821	820	835	820	821	820	825	820	821	820	835	820	821	820
10	820	803	802	795	802	795	802	803	820	803	802	795	802	795	802	803
15	781	777	772	770	766	770	772	777	781	777	772	770	766	770	772	777
20	744	741	735	737	724	737	735	741	744	741	735	737	724	737	735	741
25	708	700	694	686	686	686	694	700	708	700	694	686	686	686	694	700
30	663	654	646	638	638	638	646	654	663	654	646	638	638	638	646	654
35	607	601	589	583	577	583	589	601	607	601	589	583	577	583	589	601
40	549	540	529	522	518	522	529	540	549	540	529	522	518	522	529	540
45	486	477	469	463	453	463	469	477	486	477	469	463	453	463	469	477
50	426	416	408	403	399	403	408	416	426	416	408	403	399	403	408	416
55	359	356	348	338	336	338	348	356	359	356	348	338	336	338	348	356
60	292	288	284	275	273	275	284	288	292	288	284	275	273	275	284	288
65	231	228	222	216	212	216	222	228	231	228	222	216	212	216	222	228
70	170	166	161	154	150	154	161	166	170	166	161	154	150	154	161	166
75	110	110	104	97	96	97	104	110	110	110	104	97	96	97	104	110
80	57	58	52	48	47	48	52	58	57	58	52	48	47	48	52	58
85	19	18	15	14	13	14	15	18	19	18	15	14	13	14	15	18
90	5	2	1	1	1	1	1	2	5	2	1	1	1	1	1	2
95	55	35	9	6	6	6	9	35	55	35	9	6	6	6	9	35
100	111	107	74	43	35	43	74	107	111	107	74	43	35	43	74	107
105	179	178	157	129	114	129	157	178	179	178	157	129	114	129	157	178
110	260	260	245	222	209	222	245	260	260	260	245	222	209	222	245	260
115	351	350	335	316	310	316	335	350	351	350	335	316	310	316	335	350
120	440	440	424	410	404	410	424	440	440	440	424	410	404	410	424	440
125	534	530	517	503	497	503	517	530	534	530	517	503	497	503	517	530
130	627	628	610	599	593	599	610	628	627	628	610	599	593	599	610	628
135	725	724	705	700	694	700	705	724	725	724	705	700	694	700	705	724
140	814	819	797	785	783	785	797	819	814	819	797	785	783	785	797	819
145	904	898	890	876	875	876	890	898	904	898	890	876	875	876	890	898
150	970	974	963	958	959	958	963	974	970	974	963	958	959	958	963	974
155	1051	1045	1043	1032	1032	1032	1043	1045	1051	1045	1043	1032	1032	1032	1043	1045
160	1104	1104	1099	1101	1100	1101	1099	1104	1104	1104	1099	1101	1100	1101	1099	1104
165	1154	1155	1157	1144	1155	1144	1157	1155	1154	1155	1157	1144	1155	1144	1157	1155
170	1185	1191	1187	1197	1177	1197	1187	1191	1185	1191	1187	1197	1177	1197	1187	1191
175	1221	1191	1204	1203	1205	1203	1204	1191	1221	1191	1204	1203	1205	1203	1204	1191
180	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	11602	11602	11602
45	8729	3722	2969
55	7668	2713	2117
65	6322	1746	1322
75	4361	856	608
85	1412	137	87

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	5268	5268	5268	5268	4767	4767	4767	4767	3914	3914	3914	3111	3111	3111	2358	2358	2358	2007
1	4817	4616	4415	4215	4365	4215	4014	3863	3412	3312	3211	2760	2659	2609	2107	2057	2007	1706
2	4365	4014	3713	3462	3964	3663	3412	3211	3010	2860	2659	2408	2308	2158	1856	1756	1706	1455
3	4014	3512	3161	2910	3613	3211	2910	2659	2659	2459	2258	2158	1957	1856	1656	1555	1455	1254
4	3663	3111	2760	2459	3312	2860	2509	2258	2358	2107	1907	1907	1706	1606	1455	1355	1254	1054
5	3362	2810	2408	2107	3061	2559	2208	1957	2107	1856	1656	1706	1505	1355	1355	1204	1104	903
6	3111	2509	2107	1806	2810	2308	1957	1706	1907	1656	1455	1555	1355	1204	1204	1054	953	803
7	2860	2258	1856	1606	2609	2057	1706	1505	1706	1455	1254	1405	1204	1054	1104	953	853	702
8	2659	2057	1656	1405	2408	1907	1555	1305	1555	1305	1104	1305	1104	953	1003	853	753	652
9	2459	1856	1505	1254	2258	1706	1405	1154	1455	1204	1003	1204	1003	853	953	803	702	602
10	2308	1706	1355	1104	2107	1555	1254	1054	1305	1054	903	1104	903	753	853	753	652	552

