

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

TRU-L-4'-D3-I3-30K-80-OPL-W

(White Housing – Direct / Indirect – Opal Lens)

Test Number

IES-P00001

Test Date

2017-01-12

The results contained in this report pertain only to the tested sample.
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Luminaire Description:	Aluminum, Extruded Housing, Direct / Indirect w/ Opal Lens
Lamp:	LED (3000K, 80+ CRI)
Installation:	Suspension from Ceiling
Luminous Length:	47.50 in
Luminous Width:	2.75 in
Luminous Height:	0.00 in



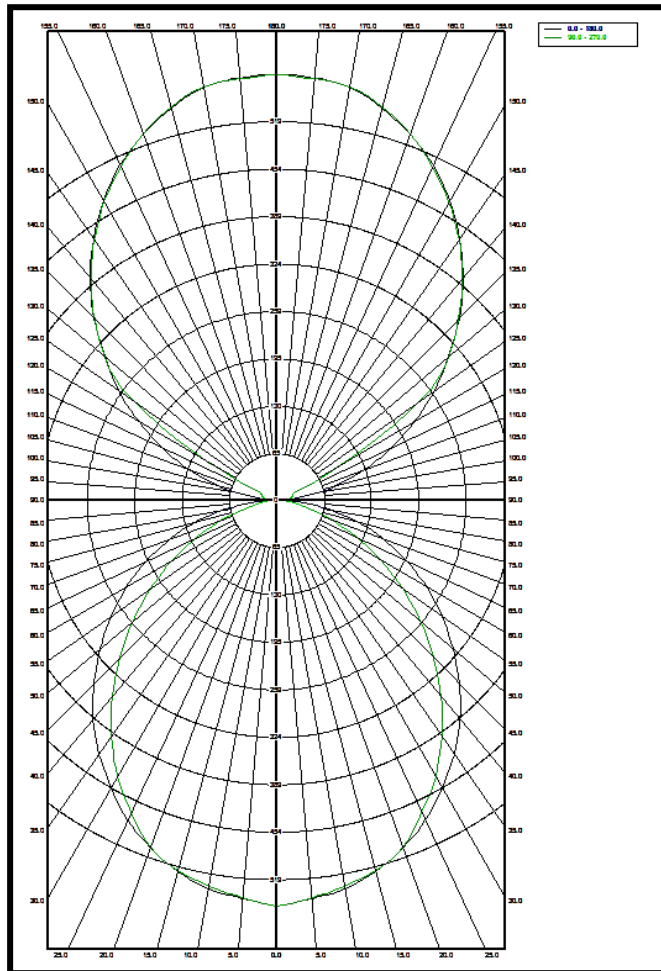
Image may differ slightly from actual unit

Summary of Results

System Power:	29.9W
Total Luminaire Output:	2806 Lumens
Luminaire Efficacy:	94 lm/W
Max Candela:	583.83 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	52.09	1.9%	90-100	12.98	0.5%
10-20	148.11	5.3%	100-110	46.9	1.7%
20-30	220.56	7.9%	110-120	121.8	4.3%
30-40	257.36	9.2%	120-130	227.93	8.1%
40-50	255.15	9.1%	130-140	273.4	9.7%
50-60	218.04	7.8%	140-150	273.48	9.7%
60-70	154.44	5.5%	150-160	233.15	8.3%
70-80	77.94	2.8%	160-170	157.3	5.6%
80-90	19.76	0.7%	170-180	55.26	2.0%
0-90	1403.45	50.0%	0-180	2805.65	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	556	556	556	556	556	556	556	556	556	556	556	556	556	556	556	556
5	546	550	548	548	546	548	548	550	546	550	548	548	546	548	548	550
10	540	541	538	541	535	541	538	541	540	541	538	541	535	541	538	541
15	526	525	525	526	524	526	525	525	526	525	525	526	524	526	525	525
20	506	505	506	505	505	505	506	505	506	505	506	505	505	505	506	505
25	483	482	482	476	471	476	482	482	483	482	482	476	471	476	482	482
30	454	454	452	440	436	440	452	454	454	454	452	440	436	440	452	454
35	424	424	414	398	394	398	414	424	424	424	414	398	394	398	414	424
40	391	389	374	357	351	357	374	389	391	389	374	357	351	357	374	389
45	353	352	332	311	303	311	332	352	353	352	332	311	303	311	332	352
50	315	312	287	265	257	265	287	312	315	312	287	265	257	265	287	312
55	277	270	242	219	211	219	242	270	277	270	242	219	211	219	242	270
60	238	227	197	173	166	173	197	227	238	227	197	173	166	173	197	227
65	197	183	151	129	122	129	151	183	197	183	151	129	122	129	151	183
70	155	138	107	87	82	87	107	138	155	138	107	87	82	87	107	138
75	114	94	65	49	44	49	65	94	114	94	65	49	44	49	65	94
80	72	51	30	26	27	26	30	51	72	51	30	26	27	26	30	51
85	28	15	14	14	14	14	14	15	28	15	14	14	14	14	14	15
90	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
95	21	8	10	10	10	10	10	8	21	8	10	10	10	10	10	8
100	55	26	16	18	19	18	16	26	55	26	16	18	19	18	16	26
105	88	72	19	21	22	21	19	72	88	72	19	21	22	21	19	72
110	129	131	51	23	23	23	51	131	129	131	51	23	23	23	51	131
115	174	176	141	46	33	46	141	176	174	176	141	46	33	46	141	176
120	218	220	219	156	109	156	219	220	218	220	219	156	109	156	219	220
125	264	266	266	258	242	258	266	266	264	266	266	258	242	258	266	266
130	308	310	311	309	307	309	311	310	308	310	311	309	307	309	311	310
135	353	356	355	354	353	354	355	356	353	356	355	354	353	354	355	356
140	397	399	397	397	395	397	397	399	397	399	397	397	395	397	397	399
145	437	438	438	437	435	437	438	438	437	438	438	437	435	437	438	438
150	474	475	475	474	472	474	475	475	474	475	475	474	472	474	475	475
155	507	506	506	505	505	505	506	506	507	506	506	505	505	505	506	506
160	535	535	534	536	535	536	534	535	535	535	534	536	535	536	534	535
165	556	560	557	558	559	558	557	560	556	560	557	558	559	558	557	560
170	575	573	575	576	576	576	575	573	575	573	575	576	576	576	575	573
175	581	580	580	583	580	583	580	580	581	580	580	583	580	583	580	580
180	584	584	584	584	584	584	584	584	584	584	584	584	584	584	584	584

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	6594	6594	6594
45	5259	2112	1597
55	4842	1504	1058
65	4339	944	602
75	3557	418	223
85	1556	95	71

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	3002	3002	3002	3002	2778	2778	2778	2778	2329	2329	2329	1936	1936	1936	1571	1571	1571	1403
1	2750	2637	2525	2413	2525	2441	2329	2245	2048	1992	1936	1711	1655	1627	1403	1375	1347	1178
2	2497	2301	2132	1992	2301	2132	1992	1852	1796	1711	1599	1515	1431	1375	1234	1178	1122	1010
3	2301	2020	1824	1655	2104	1880	1683	1543	1599	1459	1347	1347	1234	1150	1094	1038	954	842
4	2104	1796	1571	1403	1936	1655	1459	1319	1431	1263	1150	1206	1094	982	982	898	842	729
5	1908	1599	1375	1206	1768	1487	1291	1122	1263	1122	982	1066	954	870	898	786	729	645
6	1768	1431	1206	1038	1627	1347	1122	982	1150	982	870	982	842	758	814	701	645	561
7	1627	1291	1066	926	1515	1206	1010	870	1038	870	758	870	758	673	729	645	561	505
8	1515	1178	954	814	1403	1094	898	758	954	786	673	814	673	589	673	589	505	449
9	1403	1066	870	729	1319	1010	814	673	870	729	617	729	617	533	617	533	449	393
10	1319	982	786	645	1234	926	729	617	814	645	561	673	561	477	589	477	421	365

