

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-I5-30K-80-OPL-W

(White Housing – Direct / Indirect – Opal Lens)

Test Number

IES-P00002

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



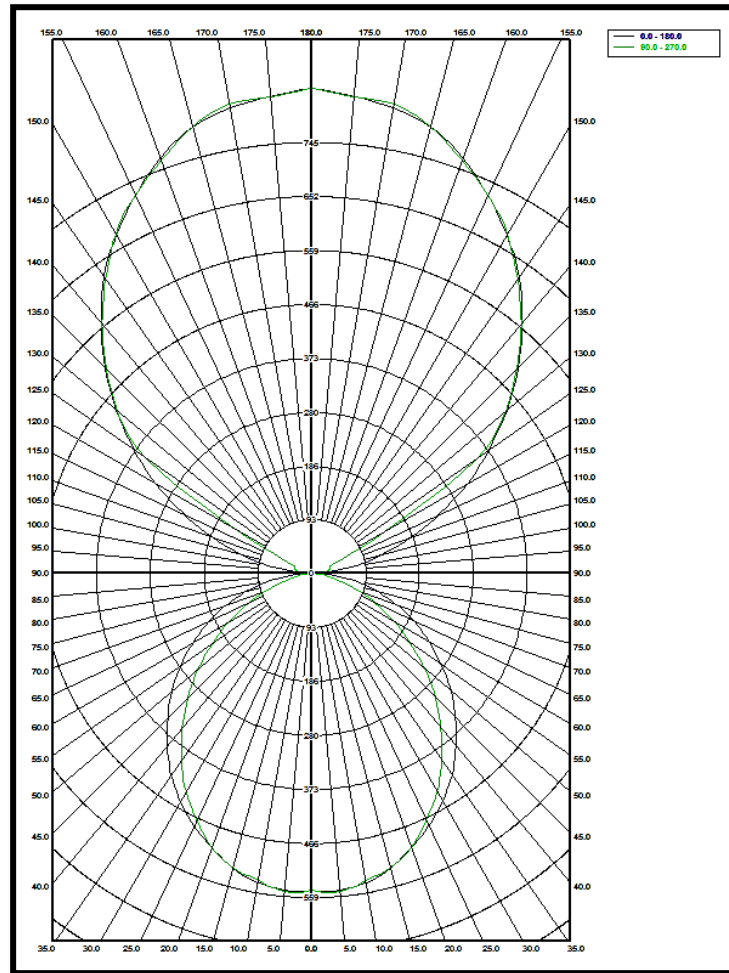
Image may differ slightly from actual unit

Summary of Results

System Power:	35.8W
Total Luminaire Output:	3407 Lumens
Luminaire Efficacy:	95 lm/W
Max Candela:	838.63 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	52.04	1.5%	90-100	18.42	0.5%
10-20	148.05	4.3%	100-110	66.89	2.0%
20-30	220.5	6.5%	110-120	174.25	5.1%
30-40	257.5	7.6%	120-130	325.89	9.6%
40-50	255.03	7.5%	130-140	390.4	11.5%
50-60	217.96	6.4%	140-150	390.75	11.5%
60-70	154.36	4.5%	150-160	333.13	9.8%
70-80	78.02	2.3%	160-170	224.67	6.6%
80-90	19.9	0.6%	170-180	79.18	2.3%
0-90	1403.36	41.2%	0-180	3406.94	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	547	547	547	547	547	547	547	547	547	547	547	547	547	547	547	547
5	549	550	548	547	551	547	548	550	549	550	548	547	551	547	548	550
10	541	540	542	539	538	539	542	540	541	540	542	539	538	539	542	540
15	527	524	524	523	527	523	524	524	527	524	524	523	527	523	524	524
20	504	506	506	506	504	506	506	506	504	506	506	506	504	506	506	506
25	481	481	482	476	470	476	482	481	481	481	482	476	470	476	482	481
30	454	455	452	440	435	440	452	455	454	455	452	440	435	440	452	455
35	424	424	415	401	393	401	415	424	424	424	415	401	393	401	415	424
40	389	390	374	357	349	357	374	390	389	390	374	357	349	357	374	390
45	352	352	331	310	304	310	331	352	352	352	331	310	304	310	331	352
50	316	312	287	266	257	266	287	312	316	312	287	266	257	266	287	312
55	276	270	243	218	209	218	243	270	276	270	243	218	209	218	243	270
60	236	227	197	173	166	173	197	227	236	227	197	173	166	173	197	227
65	197	182	151	129	122	129	151	182	197	182	151	129	122	129	151	182
70	156	139	107	87	82	87	107	139	156	139	107	87	82	87	107	139
75	115	94	65	49	45	49	65	94	115	94	65	49	45	49	65	94
80	73	51	30	27	27	27	30	51	73	51	30	27	27	27	30	51
85	28	16	14	14	13	14	14	16	28	16	14	14	13	14	14	16
90	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
95	30	12	14	14	14	14	14	12	30	12	14	14	14	14	14	12
100	79	37	23	26	26	26	23	37	79	37	23	26	26	26	23	37
105	127	102	27	29	31	29	27	102	127	102	27	29	31	29	27	102
110	184	187	72	33	33	33	72	187	184	187	72	33	33	33	72	187
115	247	253	202	66	47	66	202	253	247	253	202	66	47	66	202	253
120	311	317	313	224	155	224	313	317	311	317	313	224	155	224	313	317
125	375	380	379	369	346	369	379	380	375	380	379	369	346	369	379	380
130	441	443	444	440	439	440	444	443	441	443	444	440	439	440	444	443
135	506	507	509	506	502	506	509	507	506	507	509	506	502	506	509	507
140	566	569	569	566	564	566	569	569	566	569	569	566	564	566	569	569
145	626	626	627	623	622	623	627	626	626	626	627	623	622	623	627	626
150	676	678	677	679	678	679	677	678	676	678	677	679	678	679	677	678
155	722	720	725	723	723	723	725	720	722	720	725	723	723	723	725	720
160	765	764	763	763	761	763	763	764	765	764	763	763	761	763	763	764
165	799	796	799	795	799	795	799	796	799	796	799	795	799	795	799	796
170	817	823	823	822	824	822	823	823	817	823	823	822	824	822	823	823
175	828	833	835	835	828	835	835	833	828	833	835	835	828	835	835	833
180	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	6487	6487	6487
45	5244	2110	1599
55	4833	1505	1052
65	4340	944	604
75	3568	417	225
85	1546	94	69

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	3577	3577	3577	3577	3271	3271	3271	3271	2657	2657	2657	2146	2146	2146	1635	1635	1635	1397
1	3271	3134	2998	2896	2964	2862	2760	2657	2351	2283	2215	1874	1840	1772	1465	1431	1397	1192
2	2964	2726	2521	2351	2691	2487	2317	2180	2044	1942	1840	1669	1567	1499	1295	1226	1192	988
3	2726	2419	2146	1976	2453	2215	1976	1806	1806	1669	1533	1465	1363	1261	1124	1056	988	852
4	2487	2112	1874	1669	2249	1942	1703	1533	1601	1431	1295	1295	1192	1090	1022	920	852	750
5	2283	1908	1635	1431	2078	1738	1499	1329	1431	1261	1124	1158	1056	954	920	818	750	647
6	2112	1703	1431	1226	1908	1567	1329	1158	1295	1124	988	1056	920	818	818	750	681	545
7	1942	1533	1261	1090	1772	1397	1158	1022	1192	988	852	954	818	715	750	647	579	511
8	1806	1397	1124	954	1635	1295	1056	886	1090	886	784	886	750	647	681	613	545	443
9	1669	1261	1022	852	1533	1158	954	784	988	818	681	818	681	579	647	545	477	409
10	1567	1158	920	750	1431	1056	852	715	920	750	613	750	613	511	613	511	443	375

