

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

TRU-L-4'-D7-I7-30K-80-OPL-W

(White Housing – Direct / Indirect – Opal Lens)

Test Number

IES-P00011

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



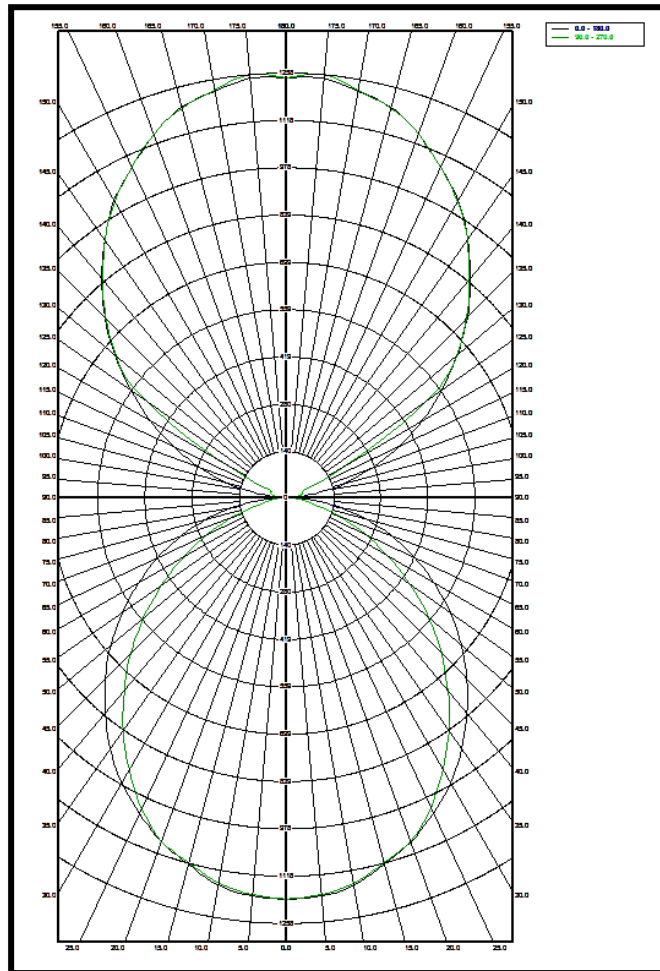
Image may differ slightly from actual unit

Summary of Results

System Power:	65.9W
Total Luminaire Output:	6013 Lumens
Luminaire Efficacy:	91 lm/W
Max Candela:	1257.90 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	111.98	1.9%	90-100	27.68	0.5%
10-20	317.01	5.3%	100-110	100.37	1.7%
20-30	472.82	7.9%	110-120	261.23	4.3%
30-40	551.4	9.2%	120-130	488.89	8.1%
40-50	546.93	9.1%	130-140	585.47	9.7%
50-60	467.53	7.8%	140-150	585.88	9.7%
60-70	330.71	5.5%	150-160	499.8	8.3%
70-80	167.08	2.8%	160-170	336.9	5.6%
80-90	42.42	0.7%	170-180	118.5	2.0%
0-90	3007.88	50.0%	0-180	6012.6	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	1187	1187	1187	1187	1187	1187	1187	1187	1187	1187	1187	1187	1187	1187	1187	1187
5	1181	1187	1178	1183	1176	1183	1178	1187	1181	1187	1178	1183	1176	1183	1178	1187
10	1163	1160	1155	1153	1157	1153	1155	1160	1163	1160	1155	1153	1157	1153	1155	1160
15	1122	1123	1127	1122	1117	1122	1127	1123	1122	1123	1127	1122	1117	1122	1127	1123
20	1082	1080	1084	1085	1080	1085	1084	1080	1082	1080	1084	1085	1080	1085	1084	1080
25	1029	1033	1033	1021	1013	1021	1033	1033	1029	1033	1033	1021	1013	1021	1033	1033
30	975	975	972	945	929	945	972	975	975	975	972	945	929	945	972	975
35	907	907	888	856	842	856	888	907	907	907	888	856	842	856	888	907
40	834	836	799	763	747	763	799	836	834	836	799	763	747	763	799	836
45	757	754	710	668	652	668	710	754	757	754	710	668	652	668	710	754
50	678	670	617	570	552	570	617	670	678	670	617	570	552	570	617	670
55	594	578	520	469	451	469	520	578	594	578	520	469	451	469	520	578
60	507	487	422	372	353	372	422	487	507	487	422	372	353	372	422	487
65	422	393	323	276	262	276	323	393	422	393	323	276	262	276	323	393
70	333	296	229	188	174	188	229	296	333	296	229	188	174	188	229	296
75	245	201	139	105	96	105	139	201	245	201	139	105	96	105	139	201
80	155	109	63	57	58	57	63	109	155	109	63	57	58	57	63	109
85	60	33	29	29	28	29	29	33	60	33	29	29	28	29	29	33
90	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
95	44	18	20	21	21	21	20	18	44	18	20	21	21	21	20	18
100	117	56	34	39	40	39	34	56	117	56	34	39	40	39	34	56
105	191	153	41	45	47	45	41	153	191	153	41	45	47	45	41	153
110	275	280	108	49	50	49	108	280	275	280	108	49	50	49	108	280
115	373	379	302	99	70	99	302	379	373	379	302	99	70	99	302	379
120	468	474	469	334	233	334	469	474	468	474	469	334	233	334	469	474
125	563	570	571	553	520	553	571	570	563	570	571	553	520	553	571	570
130	662	666	666	660	659	660	666	666	662	666	666	660	659	660	666	666
135	759	763	761	758	756	758	761	763	759	763	761	758	756	758	761	763
140	850	852	852	847	845	847	852	852	850	852	852	847	845	847	852	852
145	937	940	939	935	936	935	939	940	937	940	939	935	936	935	939	940
150	1018	1016	1017	1015	1016	1015	1017	1016	1018	1016	1017	1015	1016	1015	1017	1016
155	1082	1088	1086	1081	1082	1081	1086	1088	1082	1088	1086	1081	1082	1081	1086	1088
160	1147	1146	1147	1147	1147	1147	1147	1146	1147	1146	1147	1147	1147	1147	1147	1146
165	1199	1196	1199	1192	1195	1192	1199	1196	1199	1196	1199	1192	1195	1192	1199	1196
170	1224	1230	1230	1231	1227	1231	1230	1230	1224	1230	1230	1231	1227	1231	1230	1230
175	1247	1249	1250	1250	1258	1250	1250	1249	1247	1249	1250	1250	1258	1250	1250	1249
180	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	14089	14089	14089
45	11274	4521	3433
55	10404	3225	2266
65	9304	2013	1292
75	7623	895	480
85	3336	203	149

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	6433	6433	6433	6433	5952	5952	5952	5952	4990	4990	4990	4149	4149	4149	3367	3367	3367	3006
1	5892	5652	5411	5171	5411	5231	4990	4810	4389	4269	4149	3668	3547	3487	3006	2946	2886	2525
2	5351	4930	4570	4269	4930	4570	4269	3968	3848	3668	3427	3247	3066	2946	2646	2525	2405	2165
3	4930	4329	3908	3547	4509	4028	3608	3307	3427	3127	2886	2886	2646	2465	2345	2225	2044	1804
4	4509	3848	3367	3006	4149	3547	3127	2826	3066	2706	2465	2585	2345	2104	2104	1924	1804	1563
5	4149	3427	2946	2585	3788	3187	2766	2405	2706	2405	2165	2285	2044	1864	1924	1684	1563	1383
6	3788	3066	2585	2225	3487	2886	2405	2104	2465	2104	1864	2104	1804	1623	1744	1503	1383	1203
7	3487	2766	2285	1984	3247	2585	2165	1864	2225	1864	1623	1864	1623	1443	1563	1383	1203	1082
8	3247	2525	2044	1744	3006	2345	1924	1623	2044	1684	1443	1744	1443	1263	1443	1263	1082	962
9	3006	2285	1864	1563	2826	2165	1744	1443	1864	1563	1323	1563	1323	1142	1323	1142	962	842
10	2826	2104	1684	1383	2646	1984	1563	1323	1744	1383	1203	1443	1203	1022	1263	1022	902	782

