

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

TRU-M-PW-4-D7-I7-30-80-OW-CL-W

(White Housing – Direct / Indirect – Opal & Matte Clear Lenses)

Test Number

IES-P00145

Test Date

2017-10-03

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 & Matte Clear Lenses
Lamp:	LED (3000K, 80+ CRI)
Installation:	Suspension from Ceiling, Wall Mounted
Luminous Length:	47.50 in
Luminous Width:	2.75 in
Luminous Height:	4.75 in



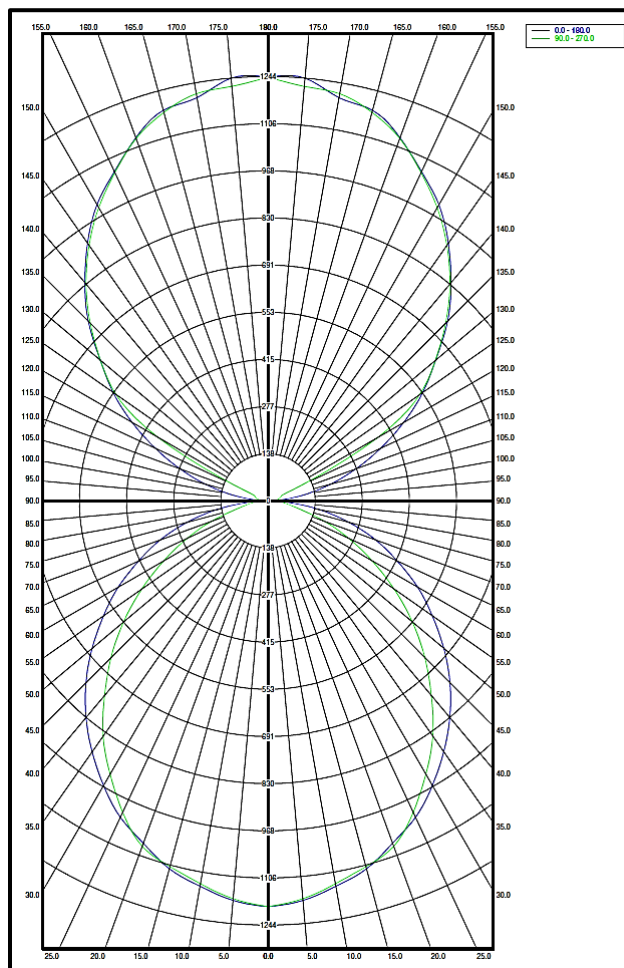
Image may differ slightly from actual unit

Summary of Results

System Power:	67.4W
Total Luminaire Output:	6006 Lumens
Luminaire Efficacy:	89 lm/W
Max Candela:	1245.96 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	111.19	1.9%	90-100	26.02	0.4%
10-20	314.39	5.2%	100-110	103.67	1.7%
20-30	469.15	7.8%	110-120	290.4	4.8%
30-40	548.55	9.1%	120-130	492.47	8.2%
40-50	545.48	9.1%	130-140	575.41	9.6%
50-60	467.53	7.8%	140-150	576.18	9.6%
60-70	331.99	5.5%	150-160	492.28	8.2%
70-80	168.98	2.8%	160-170	331.94	5.5%
80-90	42.9	0.7%	170-180	117.18	2.0%
0-90	3000.16	50.0%	0-180	6005.71	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	1190	1190	1190	1190	1190	1190	1190	1190	1190	1190	1190	1190	1190	1190	1190	1190
5	1177	1170	1173	1167	1172	1167	1173	1170	1177	1170	1173	1167	1172	1167	1173	1170
10	1148	1155	1142	1150	1141	1150	1142	1155	1148	1155	1142	1150	1141	1150	1142	1155
15	1117	1114	1110	1115	1111	1115	1110	1114	1117	1114	1110	1115	1111	1115	1110	1114
20	1069	1078	1075	1069	1079	1069	1075	1078	1069	1078	1075	1069	1079	1069	1075	1078
25	1024	1018	1031	1015	1008	1015	1031	1018	1024	1018	1031	1015	1008	1015	1031	1018
30	964	969	961	931	926	931	961	969	964	969	961	931	926	931	961	969
35	899	902	888	854	843	854	888	902	899	902	888	854	843	854	888	902
40	830	827	800	761	746	761	800	827	830	827	800	761	746	761	800	827
45	755	750	708	669	651	669	708	750	755	750	708	669	651	669	708	750
50	673	668	615	569	553	569	615	668	673	668	615	569	553	569	615	668
55	589	579	521	472	452	472	521	579	589	579	521	472	452	472	521	579
60	507	486	423	372	354	372	423	486	507	486	423	372	354	372	423	486
65	419	393	326	280	262	280	326	393	419	393	326	280	262	280	326	393
70	336	299	231	189	176	189	231	299	336	299	231	189	176	189	231	299
75	247	204	141	107	97	107	141	204	247	204	141	107	97	107	141	204
80	156	111	64	56	58	56	64	111	156	111	64	56	58	56	64	111
85	61	34	29	30	29	30	29	34	61	34	29	30	29	30	29	34
90	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
95	49	16	18	18	18	18	16	49	16	18	18	18	18	18	16	49
100	118	64	26	31	32	31	26	64	118	64	26	31	32	31	26	64
105	191	173	42	35	37	35	42	173	191	173	42	35	37	35	42	173
110	276	281	160	48	42	48	160	281	276	281	160	48	42	48	160	281
115	365	376	351	178	108	178	351	376	365	376	351	178	108	178	351	376
120	460	468	465	425	373	425	465	468	460	468	465	425	373	425	465	468
125	554	562	557	549	544	549	557	562	554	562	557	549	544	549	557	562
130	642	656	656	649	642	649	656	656	642	656	656	649	642	649	656	656
135	746	751	749	744	737	744	749	751	746	751	749	744	737	744	749	751
140	835	842	840	833	830	833	840	842	835	842	840	833	830	833	840	842
145	923	926	922	921	915	921	922	926	923	926	922	921	915	921	922	926
150	1003	996	1003	997	993	997	1003	996	1003	996	1003	997	993	997	1003	996
155	1066	1070	1073	1066	1062	1066	1073	1070	1066	1070	1073	1066	1062	1066	1073	1070
160	1133	1132	1133	1129	1131	1129	1133	1132	1133	1132	1133	1129	1131	1129	1133	1132
165	1186	1177	1169	1178	1179	1178	1169	1177	1186	1177	1169	1178	1179	1178	1169	1177
170	1200	1211	1216	1212	1212	1212	1216	1211	1200	1211	1216	1212	1212	1212	1216	1211
175	1244	1241	1225	1246	1220	1246	1225	1241	1244	1241	1225	1246	1220	1246	1225	1241
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	14122	14122	14122
45	11510	5180	4003
55	10650	3782	2697
65	9668	2425	1565
75	8230	1113	598
85	3902	252	188

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	6426	6426	6426	6426	5946	5946	5946	5946	4985	4985	4985	4144	4144	4144	3363	3363	3363	3003
1	5886	5645	5405	5165	5405	5225	4985	4805	4384	4264	4144	3663	3543	3483	3003	2943	2883	2522
2	5345	4925	4564	4264	4925	4564	4264	3964	3844	3603	3423	3243	3063	2943	2643	2522	2402	2162
3	4865	4324	3904	3543	4504	4024	3603	3303	3423	3123	2883	2883	2643	2462	2342	2222	2042	1802
4	4504	3844	3363	3003	4144	3543	3123	2823	3063	2703	2462	2522	2282	2102	2102	1922	1802	1561
5	4084	3423	2943	2582	3784	3183	2763	2402	2703	2402	2102	2282	2042	1862	1862	1682	1561	1381
6	3784	3063	2582	2222	3483	2823	2402	2102	2462	2102	1862	2042	1802	1622	1742	1501	1381	1201
7	3483	2763	2282	1982	3243	2582	2162	1862	2222	1862	1622	1862	1622	1441	1561	1381	1201	1081
8	3243	2522	2042	1742	3003	2342	1922	1622	2042	1682	1441	1742	1441	1261	1441	1261	1081	961
9	3003	2282	1862	1561	2763	2162	1742	1441	1862	1501	1321	1561	1321	1141	1321	1141	961	841
10	2823	2102	1682	1381	2582	1982	1561	1321	1682	1381	1201	1441	1201	1021	1261	1021	901	781

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	33 fc	16 ft
8 ft	19 fc	22 ft
10 ft	12 fc	27 ft
12 ft	8 fc	33 ft
15 ft	5 fc	41 ft

