

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-D3-I7-30-80-OW-CL-W

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

Test Number

IES-P00137

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



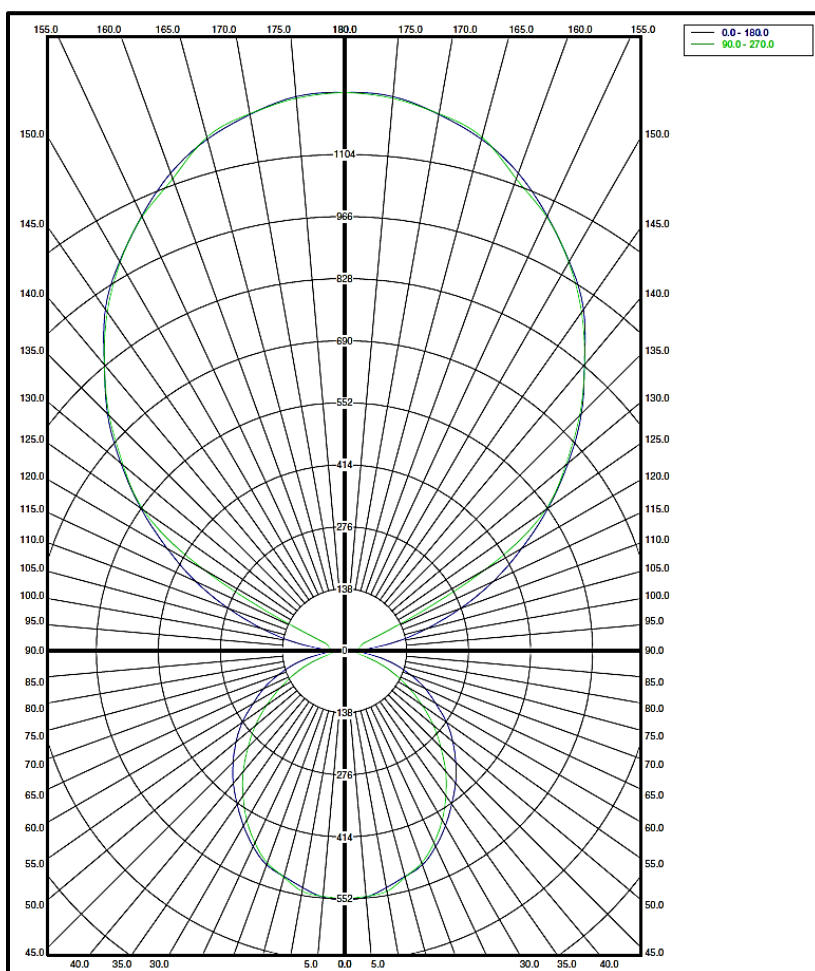
Image may differ slightly from actual unit

Summary of Results

System Power:	47.9W
Total Luminaire Output:	4404 Lumens
Luminaire Efficacy:	92 lm/W
Max Candela:	1241.73 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	51.88	1.2%	90-100	25.87	0.6%
10-20	147.16	3.3%	100-110	103.64	2.4%
20-30	219.22	5.0%	110-120	289.86	6.6%
30-40	255.82	5.8%	120-130	491.96	11.2%
40-50	254.41	5.8%	130-140	574.98	13.1%
50-60	218.08	5.0%	140-150	576.67	13.1%
60-70	154.83	3.5%	150-160	491.89	11.2%
70-80	78.97	1.8%	160-170	331.96	7.5%
80-90	20.38	0.5%	170-180	116.84	2.7%
0-90	1400.75	31.8%	0-180	4404.42	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	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553
5	549	551	542	547	548	547	542	551	549	551	542	547	548	547	542	551
10	535	531	532	539	543	539	532	531	535	531	532	539	543	539	532	531
15	520	523	523	523	521	523	523	523	520	523	523	523	521	523	523	523
20	506	503	499	502	502	502	499	503	506	503	499	502	502	502	499	503
25	480	479	478	473	471	473	478	479	480	479	478	473	471	473	478	479
30	449	450	449	437	435	437	449	450	449	450	449	437	435	437	449	450
35	416	421	412	399	393	399	412	421	416	421	412	399	393	399	412	421
40	385	386	373	356	350	356	373	386	385	386	373	356	350	356	373	386
45	350	350	331	310	303	310	331	350	350	350	331	310	303	310	331	350
50	315	311	287	267	259	267	287	311	315	311	287	267	259	267	287	311
55	278	269	242	218	211	218	242	269	278	269	242	218	211	218	242	269
60	235	227	197	175	166	175	197	227	235	227	197	175	166	175	197	227
65	198	183	152	129	123	129	152	183	198	183	152	129	123	129	152	183
70	156	139	107	88	83	88	107	139	156	139	107	88	83	88	107	139
75	115	96	66	50	45	50	66	96	115	96	66	50	45	50	66	96
80	73	52	30	27	27	27	30	52	73	52	30	27	27	27	30	52
85	29	16	14	14	14	14	14	16	29	16	14	14	14	14	14	16
90	3	3	3	3	2	3	3	3	3	3	3	3	2	3	3	3
95	49	16	18	18	19	18	18	16	49	16	18	18	19	18	18	16
100	118	64	27	31	33	31	27	64	118	64	27	31	33	31	27	64
105	190	174	41	34	36	34	41	174	190	174	41	34	36	34	41	174
110	274	282	161	49	42	49	161	282	274	282	161	49	42	49	161	282
115	366	374	351	177	108	177	351	374	366	374	351	177	108	177	351	374
120	456	466	465	426	365	426	465	466	456	466	465	426	365	426	465	466
125	553	561	558	548	546	548	558	561	553	561	558	548	546	548	558	561
130	649	655	654	646	642	646	654	655	649	655	654	646	642	646	654	655
135	746	749	749	744	740	744	749	749	746	749	749	744	740	744	749	749
140	831	838	837	837	831	837	837	838	831	838	837	837	831	837	837	838
145	927	926	926	919	920	919	926	926	927	926	926	919	920	919	926	926
150	1000	1004	999	994	998	994	999	1004	1000	1004	999	994	998	994	999	1004
155	1067	1073	1067	1067	1065	1067	1067	1073	1067	1073	1067	1067	1065	1067	1067	1073
160	1131	1128	1129	1130	1117	1130	1129	1128	1131	1128	1129	1130	1117	1130	1129	1128
165	1178	1181	1176	1176	1183	1176	1176	1181	1178	1181	1176	1176	1183	1176	1176	1181
170	1211	1207	1222	1215	1213	1215	1222	1207	1211	1207	1222	1215	1213	1215	1222	1207
175	1237	1221	1227	1225	1233	1225	1227	1221	1237	1221	1227	1225	1233	1225	1227	1221
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	6556	6556	6556
45	5341	2417	1866
55	5019	1760	1260
65	4583	1130	735
75	3842	520	277
85	1836	119	89

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	4537	4537	4537	4537	4052	4052	4052	4052	3215	3215	3215	2466	2466	2466	1718	1718	1718	1409
1	4140	3964	3788	3656	3700	3568	3435	3303	2819	2731	2643	2158	2114	2026	1542	1498	1453	1189
2	3744	3435	3171	2995	3391	3127	2907	2687	2466	2334	2202	1894	1806	1718	1365	1277	1233	1013
3	3435	3039	2731	2466	3083	2731	2466	2246	2202	1982	1850	1674	1542	1453	1189	1145	1057	837
4	3127	2687	2334	2070	2819	2422	2114	1894	1938	1718	1586	1498	1365	1233	1057	969	925	749
5	2863	2378	2026	1806	2599	2158	1850	1630	1718	1498	1365	1321	1189	1057	969	881	793	617
6	2643	2114	1806	1542	2378	1938	1630	1409	1542	1321	1189	1189	1057	925	881	793	705	573
7	2422	1938	1586	1365	2202	1762	1453	1233	1409	1189	1013	1101	925	837	793	705	617	484
8	2246	1718	1409	1189	2026	1586	1277	1101	1277	1057	925	1013	837	749	749	617	573	440
9	2114	1586	1277	1057	1894	1453	1145	969	1189	969	793	925	749	661	661	573	484	396
10	1982	1453	1145	925	1762	1321	1057	881	1057	881	705	837	705	573	617	529	440	352

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	15 fc	16 ft
8 ft	9 fc	22 ft
10 ft	6 fc	27 ft
12 ft	4 fc	33 ft
15 ft	2 fc	41 ft

