

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-I10-30-80-OW-CL-W

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

Test Number

IES-P00138

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



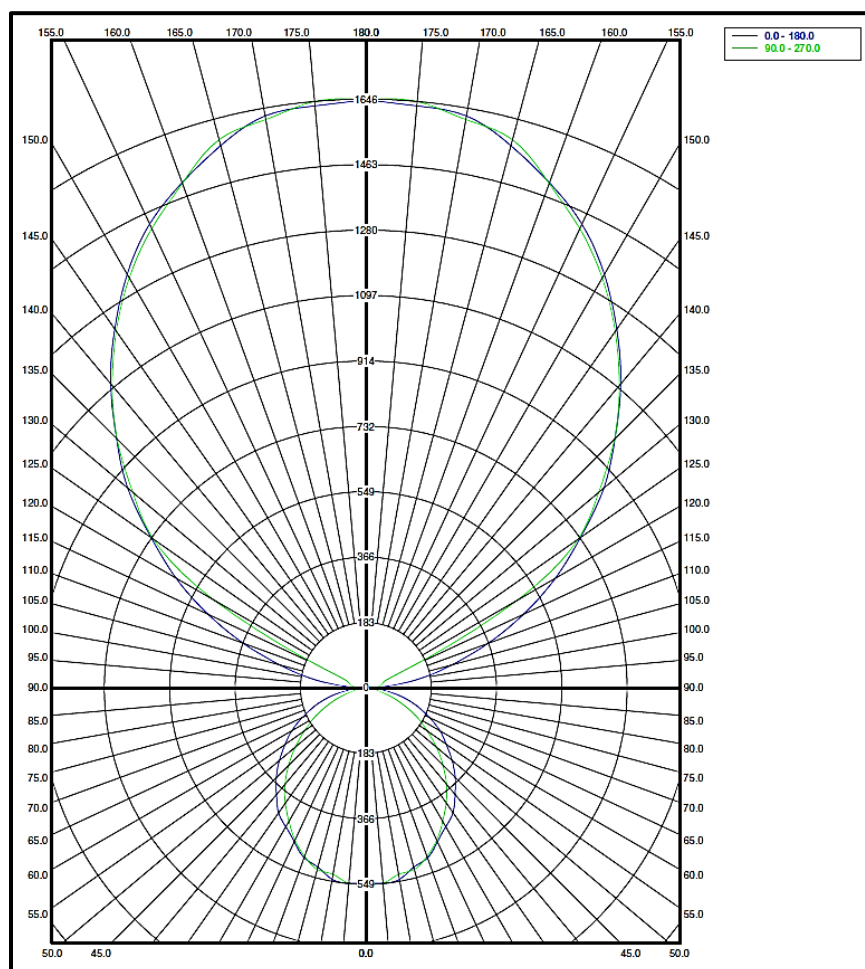
Image may differ slightly from actual unit

Summary of Results

System Power:	57.2W
Total Luminaire Output:	5409 Lumens
Luminaire Efficacy:	95 lm/W
Max Candela:	1653.82 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	51.61	1.0%	90-100	34.31	0.6%
10-20	147	2.7%	100-110	137.57	2.5%
20-30	219.11	4.1%	110-120	386.9	7.2%
30-40	256.48	4.7%	120-130	656.37	12.1%
40-50	254.75	4.7%	130-140	766.95	14.2%
50-60	218.46	4.0%	140-150	768.88	14.2%
60-70	155.02	2.9%	150-160	656.35	12.1%
70-80	78.85	1.5%	160-170	443.47	8.2%
80-90	20.48	0.4%	170-180	155.99	2.9%
0-90	1401.76	25.9%	0-180	5408.55	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	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544
5	548	545	546	540	548	540	546	545	548	545	546	540	548	540	546	545
10	543	532	535	533	529	533	535	532	543	532	535	533	529	533	535	532
15	519	521	521	521	525	521	521	521	519	521	521	521	525	521	521	521
20	505	502	505	502	501	502	505	502	505	502	505	502	501	502	505	502
25	474	479	477	474	469	474	477	479	474	479	477	474	469	474	477	479
30	448	453	449	440	431	440	449	453	448	453	449	440	431	440	449	453
35	426	420	413	399	393	399	413	420	426	420	413	399	393	399	413	420
40	389	388	375	354	352	354	375	388	389	388	375	354	352	354	375	388
45	354	349	332	310	306	310	332	349	354	349	332	310	306	310	332	349
50	316	311	286	266	258	266	286	311	316	311	286	266	258	266	286	311
55	276	272	243	219	210	219	243	272	276	272	243	219	210	219	243	272
60	239	228	198	174	167	174	198	228	239	228	198	174	167	174	198	228
65	196	184	151	130	122	130	151	184	196	184	151	130	122	130	151	184
70	156	139	107	89	82	89	107	139	156	139	107	89	82	89	107	139
75	114	96	66	51	45	51	66	96	114	96	66	51	45	51	66	96
80	74	52	30	26	27	26	30	52	74	52	30	26	27	26	30	52
85	29	16	14	14	14	14	14	16	29	16	14	14	14	14	14	16
90	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
95	66	21	23	25	24	25	23	21	66	21	23	25	24	25	23	21
100	159	85	35	42	43	42	35	85	159	85	35	42	43	42	35	85
105	250	231	55	45	48	45	55	231	250	231	55	45	48	45	55	231
110	365	374	214	64	57	64	214	374	365	374	214	64	57	64	214	374
115	487	499	468	237	145	237	468	499	487	499	468	237	145	237	468	499
120	613	625	620	567	490	567	620	625	613	625	620	567	490	567	620	625
125	734	746	744	733	726	733	744	746	734	746	744	733	726	733	744	746
130	870	874	874	861	852	861	874	874	870	874	874	861	852	861	874	874
135	986	1001	999	991	985	991	999	1001	986	1001	999	991	985	991	999	1001
140	1110	1125	1121	1113	1104	1113	1121	1125	1110	1125	1121	1113	1104	1113	1121	1125
145	1225	1235	1233	1230	1217	1230	1233	1235	1225	1235	1233	1230	1217	1230	1233	1235
150	1335	1338	1336	1327	1324	1327	1336	1338	1335	1338	1336	1327	1324	1327	1336	1338
155	1431	1430	1424	1421	1417	1421	1424	1430	1431	1430	1424	1421	1417	1421	1424	1430
160	1503	1507	1510	1504	1501	1504	1510	1507	1503	1507	1510	1504	1501	1504	1510	1507
165	1570	1582	1570	1573	1587	1573	1570	1582	1570	1582	1570	1573	1587	1573	1570	1582
170	1624	1612	1622	1621	1613	1621	1622	1612	1624	1612	1622	1621	1613	1621	1622	1612
175	1634	1640	1654	1639	1646	1639	1654	1640	1634	1640	1654	1639	1646	1639	1654	1640
180	1644	1644	1644	1644	1644	1644	1644	1644	1644	1644	1644	1644	1644	1644	1644	1644

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	6455	6455	6455
45	5399	2426	1878
55	4987	1768	1250
65	4538	1124	728
75	3819	517	279
85	1813	118	90

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	5463	5463	5463	5463	4868	4868	4868	4868	3786	3786	3786	2758	2758	2758	1839	1839	1839	1406
1	4976	4760	4597	4381	4435	4273	4110	3948	3299	3191	3083	2434	2380	2326	1623	1568	1568	1190
2	4543	4165	3840	3570	4056	3732	3461	3245	2921	2704	2596	2163	2055	1947	1460	1352	1298	1028
3	4165	3678	3299	2975	3678	3299	2975	2704	2542	2326	2163	1893	1731	1623	1298	1190	1136	865
4	3786	3245	2812	2542	3353	2921	2542	2272	2272	2001	1839	1677	1514	1406	1136	1028	974	757
5	3461	2867	2434	2163	3083	2596	2218	1947	2001	1785	1568	1514	1352	1190	1028	919	865	649
6	3191	2596	2163	1839	2867	2326	1947	1677	1839	1568	1352	1352	1190	1028	919	811	757	541
7	2975	2326	1893	1623	2596	2109	1731	1460	1623	1406	1190	1244	1082	919	865	757	649	487
8	2704	2109	1677	1406	2434	1893	1514	1298	1514	1244	1082	1136	974	811	757	649	595	433
9	2542	1893	1514	1244	2272	1731	1352	1136	1352	1136	919	1028	865	757	703	595	541	379
10	2380	1731	1352	1136	2109	1568	1244	1028	1244	1028	865	974	757	649	649	541	487	379

