

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

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

Test Number

IES-P00146

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



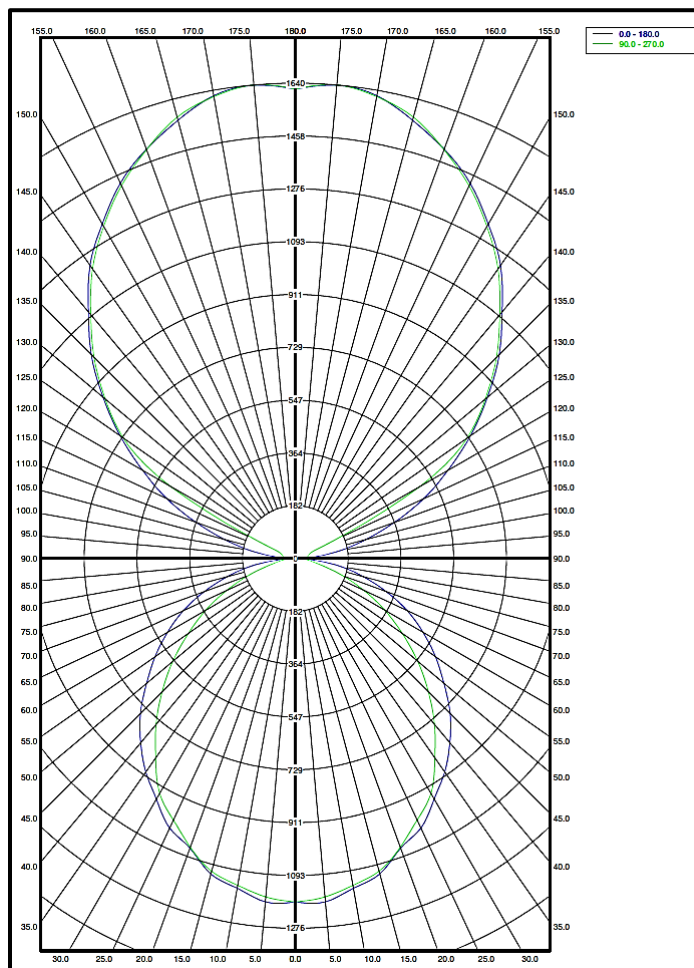
Image may differ slightly from actual unit

Summary of Results

System Power:	76.7W
Total Luminaire Output:	7009 Lumens
Luminaire Efficacy:	91 lm/W
Max Candela:	1646.67 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	111.07	1.6%	90-100	34.84	0.5%
10-20	315.06	4.5%	100-110	137.8	2.0%
20-30	468.78	6.7%	110-120	387.69	5.5%
30-40	548.6	7.8%	120-130	657.04	9.4%
40-50	545.7	7.8%	130-140	766.94	10.9%
50-60	467.47	6.7%	140-150	768.72	11.0%
60-70	332.79	4.7%	150-160	656.37	9.4%
70-80	168.89	2.4%	160-170	442.47	6.3%
80-90	43.3	0.6%	170-180	155.53	2.2%
0-90	3001.66	42.8%	0-180	7009.06	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	1185	1185	1185	1185	1185	1185	1185	1185	1185	1185	1185	1185	1185	1185	1185	1185
5	1189	1174	1164	1171	1172	1171	1164	1174	1189	1174	1164	1171	1172	1171	1164	1174
10	1155	1142	1147	1141	1145	1141	1147	1142	1155	1142	1147	1141	1145	1141	1147	1142
15	1127	1123	1119	1113	1117	1113	1119	1123	1127	1123	1119	1113	1117	1113	1119	1123
20	1063	1078	1074	1082	1060	1082	1074	1078	1063	1078	1074	1082	1060	1082	1074	1078
25	1026	1022	1027	1016	995	1016	1027	1022	1026	1022	1027	1016	995	1016	1027	1022
30	959	964	959	934	937	934	959	964	959	964	959	934	937	934	959	964
35	900	906	886	851	840	851	886	906	900	906	886	851	840	851	886	906
40	830	833	797	762	748	762	797	833	830	833	797	762	748	762	797	833
45	756	753	709	667	650	667	709	753	756	753	709	667	650	667	709	753
50	670	666	615	568	552	568	615	666	670	666	615	568	552	568	615	666
55	591	581	520	470	451	470	520	581	591	581	520	470	451	470	520	581
60	509	489	424	371	357	371	424	489	509	489	424	371	357	371	424	489
65	427	395	325	279	263	279	325	395	427	395	325	279	263	279	325	395
70	335	299	231	189	175	189	231	299	335	299	231	189	175	189	231	299
75	244	203	142	108	99	108	142	203	244	203	142	108	99	108	142	203
80	159	112	64	57	57	57	64	112	159	112	64	57	57	57	64	112
85	62	35	29	29	29	29	29	35	62	35	29	29	29	29	29	35
90	5	5	4	4	4	4	4	5	5	5	4	4	4	4	4	5
95	67	22	24	25	25	25	24	22	67	22	24	25	25	25	24	22
100	159	85	35	42	44	42	35	85	159	85	35	42	44	42	35	85
105	252	230	56	46	48	46	56	230	252	230	56	46	48	46	56	230
110	365	376	215	64	56	64	215	376	365	376	215	64	56	64	215	376
115	490	502	468	238	145	238	468	502	490	502	468	238	145	238	468	502
120	608	621	622	569	497	569	622	621	608	621	622	569	497	569	622	621
125	738	747	744	737	724	737	744	747	738	747	744	737	724	737	744	747
130	866	874	874	861	856	861	874	874	866	874	874	861	856	861	874	874
135	996	1003	998	991	982	991	998	1003	996	1003	998	991	982	991	998	1003
140	1111	1123	1115	1112	1098	1112	1115	1123	1111	1123	1115	1112	1098	1112	1115	1123
145	1235	1229	1236	1228	1220	1228	1236	1229	1235	1229	1236	1228	1220	1228	1236	1229
150	1333	1344	1335	1332	1323	1332	1335	1344	1333	1344	1335	1332	1323	1332	1335	1344
155	1429	1424	1423	1423	1419	1423	1423	1424	1429	1424	1423	1423	1419	1423	1423	1424
160	1503	1510	1512	1502	1501	1502	1512	1510	1503	1510	1512	1502	1501	1502	1512	1510
165	1565	1565	1574	1569	1576	1569	1574	1565	1565	1565	1574	1569	1576	1569	1574	1565
170	1622	1608	1613	1622	1618	1622	1613	1608	1622	1608	1613	1622	1618	1622	1613	1608
175	1639	1635	1647	1646	1640	1646	1647	1635	1639	1635	1647	1646	1640	1646	1647	1635
180	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	14057	14057	14057
45	11522	5186	3995
55	10686	3775	2689
65	9855	2419	1568
75	8130	1113	608
85	3941	253	189

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	7360	7360	7360	7360	6729	6729	6729	6729	5537	5537	5537	4486	4486	4486	3505	3505	3505	3014
1	6729	6448	6168	5958	6168	5888	5677	5467	4906	4696	4556	3925	3855	3715	3084	3014	2944	2523
2	6168	5677	5257	4836	5607	5187	4836	4486	4276	3995	3785	3505	3294	3154	2734	2593	2523	2173
3	5607	4976	4486	4065	5117	4556	4135	3785	3785	3434	3224	3084	2874	2663	2383	2243	2103	1822
4	5117	4416	3855	3434	4696	4065	3575	3224	3364	3014	2734	2734	2453	2243	2173	1963	1822	1542
5	4696	3925	3364	2944	4276	3575	3084	2734	3014	2663	2383	2453	2173	1963	1963	1752	1612	1332
6	4346	3505	2944	2523	3925	3224	2734	2383	2734	2313	2033	2243	1963	1752	1752	1542	1402	1192
7	3995	3154	2593	2243	3645	2944	2453	2103	2453	2103	1822	2033	1752	1542	1612	1402	1262	1051
8	3715	2874	2313	1963	3364	2663	2173	1822	2243	1892	1612	1822	1542	1332	1472	1262	1121	981
9	3434	2593	2103	1752	3154	2453	1963	1612	2033	1682	1402	1682	1402	1192	1332	1192	981	841
10	3224	2383	1892	1542	2944	2243	1752	1472	1892	1542	1262	1542	1262	1121	1262	1051	911	771

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

