

## **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-I5-30-80-OW-CL-W**

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

Test Number

**IES-P00144**

Test Date

2017-10-03

The results contained in this report pertain only to the tested sample.  
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<b>Luminaire Description:</b>	Aluminum, Extruded Housing, Direct / Indirect w/ Opal & Matte Clear Lenses
<b>Lamp:</b>	LED (3000K, 80+ CRI)
<b>Installation:</b>	Suspension from Ceiling, Wall Mounted
<b>Luminous Length:</b>	47.50 in
<b>Luminous Width:</b>	2.75 in
<b>Luminous Height:</b>	4.75 in



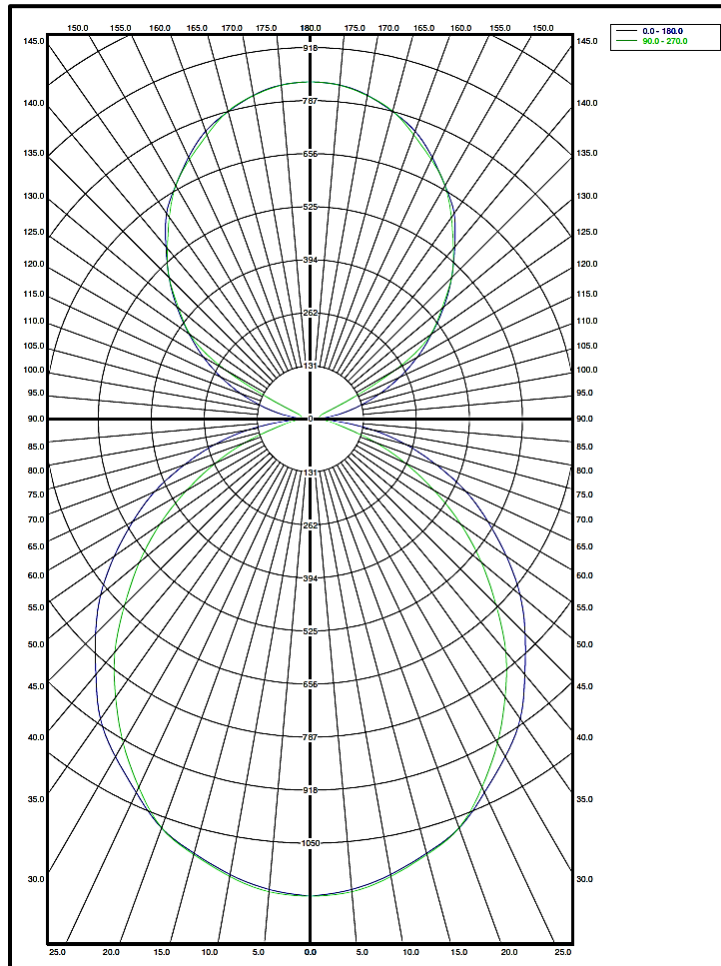
Image may differ slightly from actual unit

#### **Summary of Results**

<b>System Power:</b>	57.4W
<b>Total Luminaire Output:</b>	5007 Lumens
<b>Luminaire Efficacy:</b>	87 lm/W
<b>Max Candela:</b>	1183.72 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	111.26	2.2%	90-100	17.68	0.4%
10-20	314.38	6.3%	100-110	68.74	1.4%
20-30	469.43	9.4%	110-120	193.3	3.9%
30-40	548.55	11.0%	120-130	328.14	6.6%
40-50	545.87	10.9%	130-140	383.67	7.7%
50-60	468.26	9.4%	140-150	385.38	7.7%
60-70	331.72	6.6%	150-160	328.64	6.6%
70-80	168.97	3.4%	160-170	221.74	4.4%
80-90	42.94	0.9%	170-180	78.38	1.6%
0-90	3001.38	59.9%	0-180	5007.05	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	1181	1181	1181	1181	1181	1181	1181	1181	1181	1181	1181	1181	1181	1181	1181	1181
5	1168	1184	1173	1173	1174	1173	1173	1184	1168	1184	1173	1173	1174	1173	1173	1184
10	1144	1155	1144	1144	1149	1144	1144	1155	1144	1155	1144	1144	1149	1144	1144	1155
15	1112	1110	1123	1104	1116	1104	1123	1110	1112	1110	1123	1104	1116	1104	1123	1110
20	1077	1073	1072	1078	1076	1078	1072	1073	1077	1073	1072	1078	1076	1078	1072	1073
25	1020	1025	1026	1018	1005	1018	1026	1025	1020	1025	1026	1018	1005	1018	1026	1025
30	965	966	963	935	926	935	963	966	965	966	963	935	926	935	963	966
35	906	899	884	853	840	853	884	899	906	899	884	853	840	853	884	899
40	826	831	798	763	752	763	798	831	826	831	798	763	752	763	798	831
45	752	752	709	667	650	667	709	752	752	752	709	667	650	667	709	752
50	677	669	616	569	553	569	616	669	677	669	616	569	553	569	616	669
55	592	578	523	471	455	471	523	578	592	578	523	471	455	471	523	578
60	507	486	424	371	354	371	424	486	507	486	424	371	354	371	424	486
65	424	394	324	277	261	277	324	394	424	394	324	277	261	277	324	394
70	332	299	231	190	176	190	231	299	332	299	231	190	176	190	231	299
75	246	205	141	108	96	108	141	205	246	205	141	108	96	108	141	205
80	157	112	65	57	58	57	65	112	157	112	65	57	58	57	65	112
85	62	35	29	29	28	29	29	35	62	35	29	29	28	29	29	35
90	4	3	3	3	3	3	3	3	4	3	3	3	3	3	3	3
95	33	11	12	12	12	12	12	11	33	11	12	12	12	12	12	11
100	79	42	18	21	22	21	18	42	79	42	18	21	22	21	18	42
105	126	114	28	23	24	23	28	114	126	114	28	23	24	23	28	114
110	183	187	107	32	28	32	107	187	183	187	107	32	28	32	107	187
115	244	249	234	119	71	119	234	249	244	249	234	119	71	119	234	249
120	306	310	309	285	246	285	309	310	306	310	309	285	246	285	309	310
125	367	372	372	367	363	367	372	372	367	372	372	367	363	367	372	372
130	431	438	439	432	425	432	439	438	431	438	439	432	425	432	439	438
135	495	501	499	494	495	494	499	501	495	501	499	494	495	494	499	501
140	556	562	562	557	551	557	562	562	556	562	562	557	551	557	562	562
145	620	621	617	614	609	614	617	621	620	621	617	614	609	614	617	621
150	667	673	668	667	666	667	668	673	667	673	668	667	666	667	668	673
155	714	717	714	710	708	710	714	717	714	717	714	710	708	710	714	717
160	757	753	751	756	748	756	751	753	757	753	751	756	748	756	751	753
165	787	787	790	783	788	783	790	787	787	787	790	783	788	783	790	787
170	813	811	816	808	812	808	816	811	813	811	816	808	812	808	816	811
175	829	823	822	827	828	827	822	823	829	823	822	827	828	827	822	823
180	834	834	834	834	834	834	834	834	834	834	834	834	834	834	834	834

### Average Luminance (cd/m<sup>2</sup>)

#### Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	14011	14011	14011
45	11457	5184	3993
55	10708	3800	2710
65	9805	2412	1554
75	8198	1107	593
85	3964	253	186

**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	5508	5508	5508	5508	5107	5107	5107	5107	4456	4456	4456	3855	3855	3855	3255	3255	3255	3004
1	5007	4807	4606	4456	4657	4506	4306	4156	3905	3805	3655	3405	3305	3205	2904	2854	2804	2554
2	4556	4206	3905	3655	4256	3956	3655	3455	3455	3255	3054	3004	2854	2704	2554	2453	2353	2153
3	4156	3705	3305	3054	3905	3455	3154	2854	3054	2804	2554	2654	2453	2303	2253	2153	2003	1803
4	3805	3255	2854	2554	3555	3104	2704	2453	2704	2403	2203	2353	2153	1953	2053	1853	1752	1552
5	3505	2904	2504	2203	3255	2754	2403	2103	2403	2153	1903	2103	1903	1702	1853	1652	1502	1352
6	3255	2604	2203	1903	3004	2453	2103	1853	2203	1903	1652	1903	1702	1502	1652	1502	1352	1202
7	3004	2353	1953	1702	2804	2253	1853	1602	2003	1702	1452	1752	1502	1352	1502	1352	1202	1051
8	2804	2153	1752	1502	2604	2053	1702	1452	1803	1502	1302	1602	1352	1202	1402	1202	1051	951
9	2604	1953	1602	1352	2403	1853	1502	1302	1652	1352	1152	1452	1252	1051	1302	1102	951	851
10	2403	1803	1452	1202	2253	1702	1402	1152	1552	1252	1051	1352	1152	951	1202	1001	851	801

