

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-D5-I7-30-80-OW-CL-W

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

Test Number

IES-P00141

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



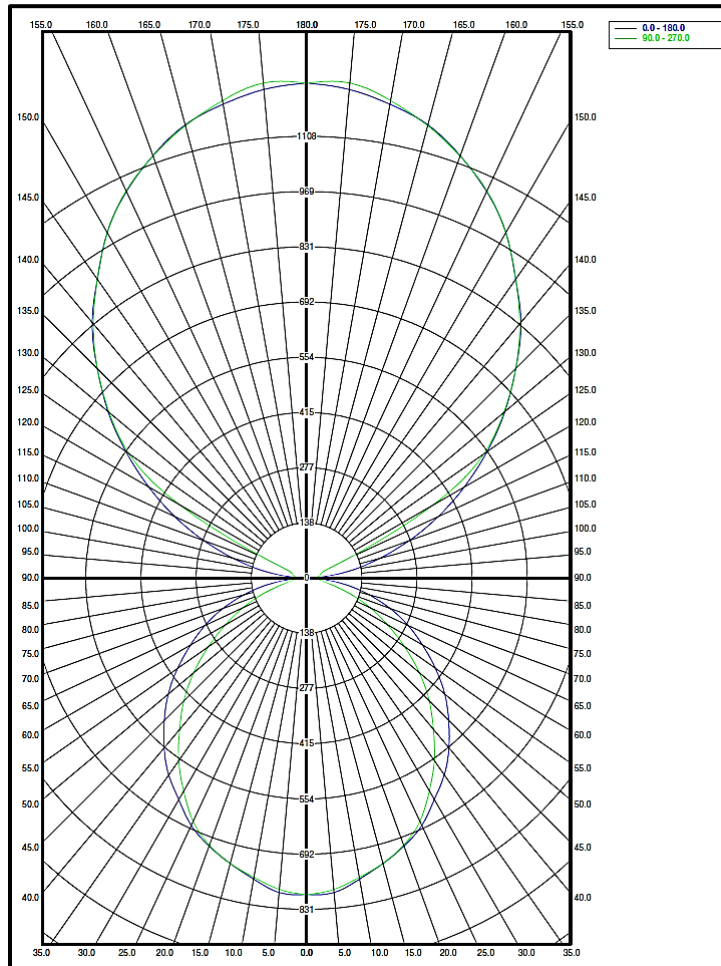
Image may differ slightly from actual unit

Summary of Results

System Power:	55.1W
Total Luminaire Output:	5008 Lumens
Luminaire Efficacy:	91 lm/W
Max Candela:	1246.22 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	74.23	1.5%	90-100	26.08	0.5%
10-20	210.03	4.2%	100-110	103.21	2.1%
20-30	313.09	6.3%	110-120	290.37	5.8%
30-40	366.31	7.3%	120-130	492.84	9.8%
40-50	364.51	7.3%	130-140	575.33	11.5%
50-60	312.01	6.2%	140-150	576.47	11.5%
60-70	221.42	4.4%	150-160	492.51	9.8%
70-80	112.39	2.2%	160-170	331.49	6.6%
80-90	28.8	0.6%	170-180	116.69	2.3%
0-90	2002.79	40.0%	0-180	5007.78	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	794	794	794	794	794	794	794	794	794	794	794	794	794	794	794	794
5	791	788	776	776	784	776	776	788	791	788	776	776	784	776	776	788
10	766	768	768	766	762	766	768	768	766	768	768	766	762	766	768	768
15	741	746	750	741	741	741	750	746	741	746	750	741	741	741	750	746
20	715	713	718	719	713	719	718	713	715	713	718	719	713	719	718	713
25	685	678	686	680	673	680	686	678	685	678	686	680	673	680	686	678
30	641	647	641	626	617	626	641	647	641	647	641	626	617	626	641	647
35	603	603	591	570	559	570	591	603	603	603	591	570	559	570	591	603
40	556	553	536	509	496	509	536	553	556	553	536	509	496	509	536	553
45	505	503	473	444	436	444	473	503	505	503	473	444	436	444	473	503
50	453	446	408	381	370	381	408	446	453	446	408	381	370	381	408	446
55	395	387	348	314	301	314	348	387	395	387	348	314	301	314	348	387
60	336	324	281	248	235	248	281	324	336	324	281	248	235	248	281	324
65	281	263	218	186	176	186	218	263	281	263	218	186	176	186	218	263
70	224	199	154	126	118	126	154	199	224	199	154	126	118	126	154	199
75	163	136	94	71	65	71	94	136	163	136	94	71	65	71	94	136
80	104	74	44	37	38	37	44	74	104	74	44	37	38	37	44	74
85	41	23	20	20	19	20	20	23	41	23	20	20	19	20	20	23
90	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
95	49	16	18	19	19	19	18	16	49	16	18	19	19	19	18	16
100	119	63	27	31	33	31	27	63	119	63	27	31	33	31	27	63
105	190	173	41	34	36	34	41	173	190	173	41	34	36	34	41	173
110	275	280	161	49	42	49	161	280	275	280	161	49	42	49	161	280
115	366	374	352	178	108	178	352	374	366	374	352	178	108	178	352	374
120	457	468	468	425	371	425	468	468	457	468	468	425	371	425	468	468
125	553	559	560	550	543	550	560	559	553	559	560	550	543	550	560	559
130	650	658	654	647	646	647	654	658	650	658	654	647	646	647	654	658
135	742	748	751	742	743	742	751	748	742	748	751	742	743	742	751	748
140	837	843	837	832	832	832	837	843	837	843	837	832	832	832	837	843
145	915	926	922	924	915	924	922	926	915	926	922	924	915	924	922	926
150	1001	1001	1001	1001	999	1001	1001	1001	1001	1001	1001	1001	999	1001	1001	1001
155	1070	1071	1067	1068	1071	1068	1067	1071	1070	1071	1067	1068	1071	1068	1067	1071
160	1127	1130	1127	1132	1126	1132	1127	1130	1127	1130	1127	1132	1126	1132	1127	1130
165	1177	1177	1175	1176	1175	1176	1175	1177	1177	1177	1175	1176	1175	1176	1175	1177
170	1207	1207	1210	1210	1216	1210	1210	1207	1207	1207	1210	1210	1216	1210	1210	1207
175	1230	1232	1219	1221	1246	1221	1219	1232	1230	1232	1219	1221	1246	1221	1219	1232
180	1241	1241	1241	1241	1241	1241	1241	1241	1241	1241	1241	1241	1241	1241	1241	1241

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	9417	9417	9417
45	7690	3459	2678
55	7145	2527	1796
65	6498	1624	1047
75	5430	739	397
85	2604	171	127

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	5258	5258	5258	5258	4757	4757	4757	4757	3906	3906	3906	3105	3105	3105	2354	2354	2354	2003
1	4807	4557	4407	4207	4357	4156	4006	3856	3405	3305	3205	2704	2654	2604	2103	2053	2003	1703
2	4357	4006	3706	3455	3956	3656	3405	3205	3005	2804	2654	2404	2254	2153	1853	1753	1703	1452
3	4006	3505	3155	2854	3606	3205	2905	2654	2654	2404	2254	2103	1953	1853	1653	1552	1452	1202
4	3656	3105	2704	2454	3305	2854	2504	2254	2354	2103	1903	1903	1703	1552	1452	1352	1252	1052
5	3355	2754	2354	2103	3055	2554	2203	1953	2103	1853	1653	1703	1502	1352	1302	1202	1102	901
6	3055	2504	2103	1803	2804	2304	1953	1653	1903	1653	1452	1552	1352	1202	1202	1052	951	801
7	2854	2254	1853	1552	2604	2053	1703	1452	1703	1452	1252	1402	1202	1052	1102	951	851	701
8	2654	2053	1653	1402	2404	1853	1552	1302	1552	1302	1102	1252	1102	951	1002	851	751	651
9	2454	1853	1502	1252	2254	1703	1402	1152	1452	1152	1002	1152	951	851	901	801	701	551
10	2304	1703	1352	1102	2103	1552	1252	1052	1302	1052	901	1102	901	751	851	701	601	501

