

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-I5-30-80-OW-CL-W

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

Test Number

IES-P00140

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



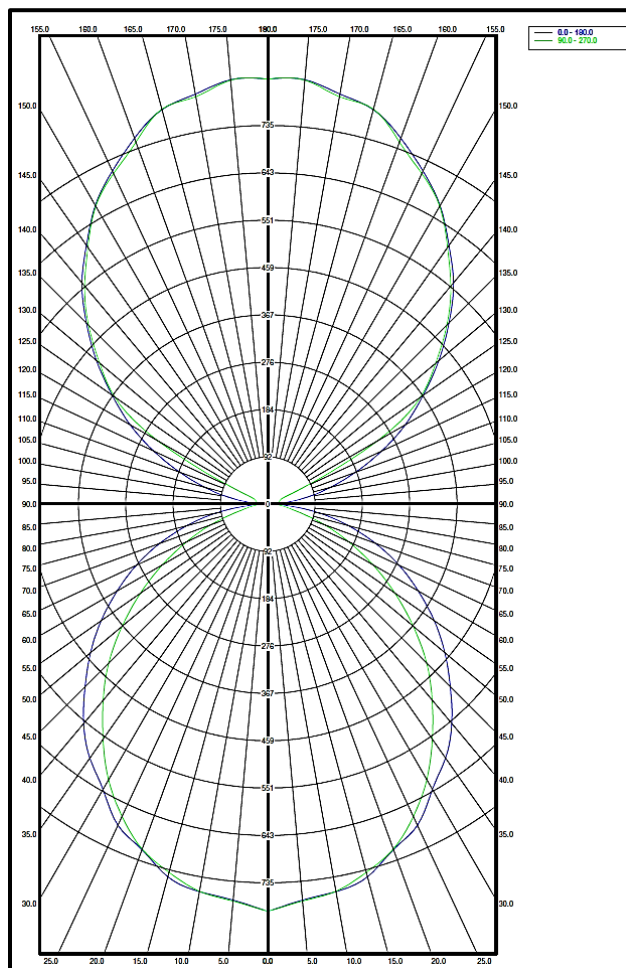
Image may differ slightly from actual unit

Summary of Results

System Power:	45.1W
Total Luminaire Output:	4003 Lumens
Luminaire Efficacy:	89 lm/W
Max Candela:	826.85 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	74.14	1.9%	90-100	17.4	0.4%
10-20	209.52	5.2%	100-110	68.79	1.7%
20-30	312.54	7.8%	110-120	193.06	4.8%
30-40	365.59	9.1%	120-130	328.13	8.2%
40-50	363.64	9.1%	130-140	383.61	9.6%
50-60	311.35	7.8%	140-150	384.45	9.6%
60-70	221.39	5.5%	150-160	328.35	8.2%
70-80	112.68	2.8%	160-170	221.7	5.5%
80-90	28.76	0.7%	170-180	77.86	1.9%
0-90	1999.61	50.0%	0-180	4002.96	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	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790	790
5	772	781	786	789	773	789	786	781	772	781	786	789	773	789	786	781
10	764	765	765	765	763	765	765	765	764	765	765	765	763	765	765	765
15	749	739	746	742	740	742	746	739	749	739	746	742	740	742	746	739
20	714	712	719	714	713	714	719	712	714	712	719	714	713	714	719	712
25	688	683	685	672	669	672	685	683	688	683	685	672	669	672	685	683
30	640	645	641	623	618	623	641	645	640	645	641	623	618	623	641	645
35	602	602	590	569	557	569	590	602	602	602	590	569	557	569	590	602
40	556	555	531	508	497	508	531	555	556	555	531	508	497	508	531	555
45	501	501	474	443	437	443	474	501	501	501	474	443	437	443	474	501
50	449	443	409	380	369	380	409	443	449	443	409	380	369	380	409	443
55	395	384	348	313	302	313	348	384	395	384	348	313	302	313	348	384
60	338	324	282	248	236	248	282	324	338	324	282	248	236	248	282	324
65	282	264	217	185	174	185	217	264	282	264	217	185	174	185	217	264
70	223	200	153	126	118	126	153	200	223	200	153	126	118	126	153	200
75	163	136	94	72	66	72	94	136	163	136	94	72	66	72	94	136
80	105	74	43	38	38	38	43	74	105	74	43	38	38	38	43	74
85	42	23	20	19	19	19	20	23	42	23	20	19	19	19	20	23
90	3	3	3	3	2	3	3	3	3	3	3	3	2	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	21	21	18	42	79	42	18	21	21	21	18	42
105	126	114	28	23	24	23	28	114	126	114	28	23	24	23	28	114
110	182	187	107	33	28	33	107	187	182	187	107	33	28	33	107	187
115	244	246	233	118	73	118	233	246	244	246	233	118	73	118	233	246
120	308	311	311	283	247	283	311	311	308	311	311	283	247	283	311	311
125	368	374	371	365	362	365	371	374	368	374	371	365	362	365	371	374
130	434	436	435	434	426	434	435	436	434	436	435	434	426	434	435	436
135	498	499	500	496	492	496	500	499	498	499	500	496	492	496	500	499
140	561	562	561	554	553	554	561	562	561	562	561	554	553	554	561	562
145	613	618	613	612	609	612	613	618	613	618	613	612	609	612	613	618
150	669	672	669	668	668	668	669	672	669	672	669	668	668	668	669	672
155	714	716	711	708	708	708	711	716	714	716	711	708	708	708	711	716
160	756	754	755	752	748	752	755	754	756	754	755	752	748	752	755	754
165	793	787	785	786	794	786	785	787	793	787	785	786	794	786	785	787
170	808	805	810	812	803	812	810	805	808	805	810	812	803	812	810	805
175	827	816	816	817	826	817	816	816	827	816	816	817	826	817	816	816
180	825	825	825	825	825	825	825	825	825	825	825	825	825	825	825	825

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	9379	9379	9379
45	7641	3467	2684
55	7138	2526	1799
65	6514	1615	1039
75	5436	743	406
85	2651	168	126

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	4283	4283	4283	4283	3963	3963	3963	3963	3322	3322	3322	2762	2762	2762	2242	2242	2242	2001
1	3923	3763	3603	3443	3603	3483	3322	3202	2922	2842	2762	2442	2362	2322	2001	1961	1921	1681
2	3563	3282	3042	2842	3282	3042	2842	2642	2562	2402	2282	2162	2042	1961	1761	1681	1601	1441
3	3242	2882	2602	2362	3002	2682	2402	2202	2282	2082	1921	1921	1761	1641	1561	1481	1361	1201
4	3002	2562	2242	2001	2762	2362	2082	1881	2042	1801	1641	1681	1521	1401	1401	1281	1201	1041
5	2722	2282	1961	1721	2522	2122	1841	1601	1801	1601	1401	1521	1361	1241	1241	1121	1041	921
6	2522	2042	1721	1481	2322	1881	1601	1401	1641	1401	1241	1361	1201	1081	1161	1001	921	801
7	2322	1841	1521	1321	2162	1721	1441	1241	1481	1241	1081	1241	1081	961	1041	921	801	721
8	2162	1681	1361	1161	2001	1561	1281	1081	1361	1121	961	1161	961	841	961	841	721	640
9	2001	1521	1241	1041	1841	1441	1161	961	1241	1001	881	1041	881	761	881	761	640	560
10	1881	1401	1121	921	1721	1321	1041	881	1121	921	801	961	801	681	841	681	600	520

