

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-I3-30-80-OW-CL-W

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

Test Number

IES-P00135

Test Date

2017-10-04

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



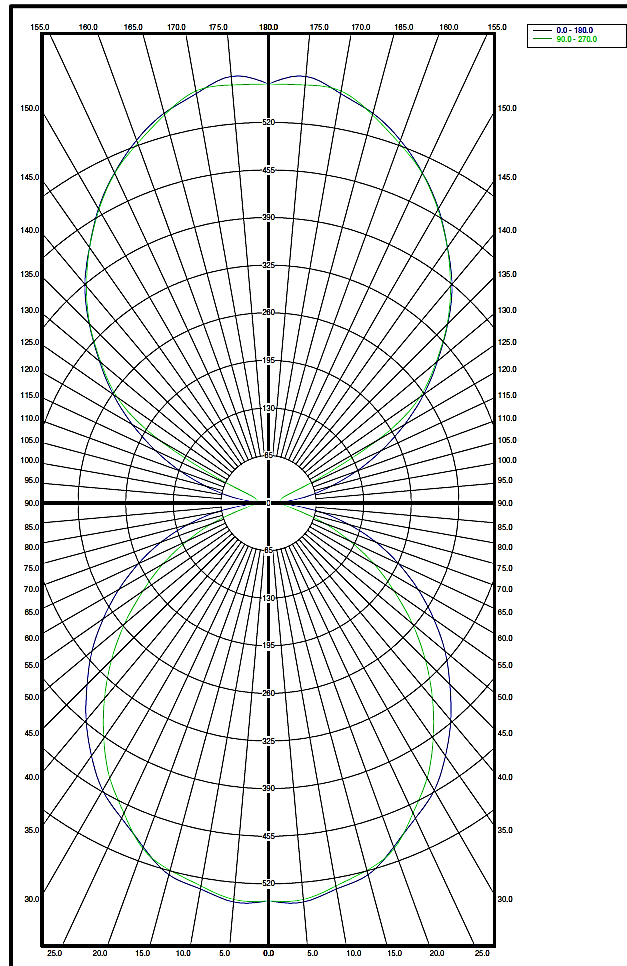
Image may differ slightly from actual unit

Summary of Results

System Power:	32.1W
Total Luminaire Output:	2802 Lumens
Luminaire Efficacy:	87 lm/W
Max Candela:	585.15 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	51.65	1.8%	90-100	12.19	0.4%
10-20	146.84	5.2%	100-110	48.25	1.7%
20-30	218.8	7.8%	110-120	135.66	4.8%
30-40	256.15	9.1%	120-130	229.87	8.2%
40-50	254.44	9.1%	130-140	268.47	9.6%
50-60	218.35	7.8%	140-150	268.86	9.6%
60-70	155.02	5.5%	150-160	229.39	8.2%
70-80	78.91	2.8%	160-170	154.79	5.5%
80-90	20.11	0.7%	170-180	54.61	1.9%
0-90	1400.27	50.0%	0-180	2802.36	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	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543
5	547	552	542	547	544	547	542	552	547	552	542	547	544	547	542	552
10	535	535	530	534	531	534	530	535	535	535	530	534	531	534	530	535
15	526	519	525	520	519	520	525	519	526	519	525	520	519	520	525	519
20	500	501	500	500	502	500	500	501	500	501	500	500	502	500	500	501
25	475	480	478	473	467	473	478	480	475	480	478	473	467	473	478	480
30	453	449	449	439	434	439	449	449	453	449	449	439	434	439	449	449
35	422	422	413	397	392	397	413	422	422	422	413	397	392	397	413	422
40	388	387	372	356	349	356	372	387	388	387	372	356	349	356	372	387
45	350	350	330	311	303	311	330	350	350	350	330	311	303	311	330	350
50	315	312	287	268	257	268	287	312	315	312	287	268	257	268	287	312
55	276	270	244	220	209	220	244	270	276	270	244	220	209	220	244	270
60	236	228	198	174	167	174	198	228	236	228	198	174	167	174	198	228
65	196	184	152	130	122	130	152	184	196	184	152	130	122	130	152	184
70	156	141	107	88	82	88	107	141	156	141	107	88	82	88	107	141
75	114	95	66	50	46	50	66	95	114	95	66	50	46	50	66	95
80	73	52	30	26	27	26	30	52	73	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	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
95	22	8	8	9	9	9	8	8	22	8	8	9	9	9	8	8
100	56	30	13	14	15	14	13	30	56	30	13	14	15	14	13	30
105	88	80	19	16	17	16	19	80	88	80	19	16	17	16	19	80
110	129	131	75	23	20	23	75	131	129	131	75	23	20	23	75	131
115	171	175	163	83	51	83	163	175	171	175	163	83	51	83	163	175
120	215	219	218	199	173	199	218	219	215	219	218	199	173	199	218	219
125	259	261	260	257	253	257	260	261	259	261	260	257	253	257	260	261
130	302	306	305	301	299	301	305	306	302	306	305	301	299	301	305	306
135	347	351	349	346	345	346	349	351	347	351	349	346	345	346	349	351
140	390	393	393	389	387	389	393	393	390	393	393	389	387	389	393	393
145	426	431	431	431	426	431	431	431	426	431	431	431	426	431	431	431
150	465	468	468	464	463	464	468	468	465	468	468	464	463	464	468	468
155	498	499	498	497	497	497	498	499	498	499	498	497	497	497	498	499
160	527	527	525	529	523	529	525	527	527	527	525	529	523	529	525	527
165	551	548	550	549	549	549	550	548	551	548	550	549	549	549	550	548
170	568	563	564	567	572	567	564	563	568	563	564	567	572	567	564	563
175	585	575	581	571	573	571	581	575	585	575	581	571	573	571	581	575
180	572	572	572	572	572	572	572	572	572	572	572	572	572	572	572	572

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	6445	6445	6445
45	5341	2414	1865
55	4984	1769	1248
65	4528	1127	730
75	3807	521	282
85	1839	120	89

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	2999	2999	2999	2999	2774	2774	2774	2774	2326	2326	2326	1934	1934	1934	1569	1569	1569	1401
1	2746	2634	2522	2410	2522	2438	2326	2242	2046	1990	1934	1709	1653	1625	1401	1373	1345	1177
2	2494	2298	2130	1990	2298	2130	1990	1850	1794	1681	1597	1513	1429	1373	1233	1177	1121	1009
3	2270	2018	1822	1653	2102	1878	1681	1541	1597	1457	1345	1345	1233	1149	1093	1037	953	841
4	2102	1794	1569	1401	1934	1653	1457	1317	1429	1261	1149	1177	1065	981	981	897	841	729
5	1906	1597	1373	1205	1765	1485	1289	1121	1261	1121	981	1065	953	869	869	785	729	645
6	1765	1429	1205	1037	1625	1317	1121	981	1149	981	869	953	841	757	813	701	645	560
7	1625	1289	1065	925	1513	1205	1009	869	1037	869	757	869	757	673	729	645	560	504
8	1513	1177	953	813	1401	1093	897	757	953	785	673	813	673	588	673	588	504	448
9	1401	1065	869	729	1289	1009	813	673	869	701	617	729	617	532	617	532	448	392
10	1317	981	785	645	1205	925	729	617	785	645	560	673	560	476	588	476	420	364

