

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

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

Test Number

IES-P00139

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



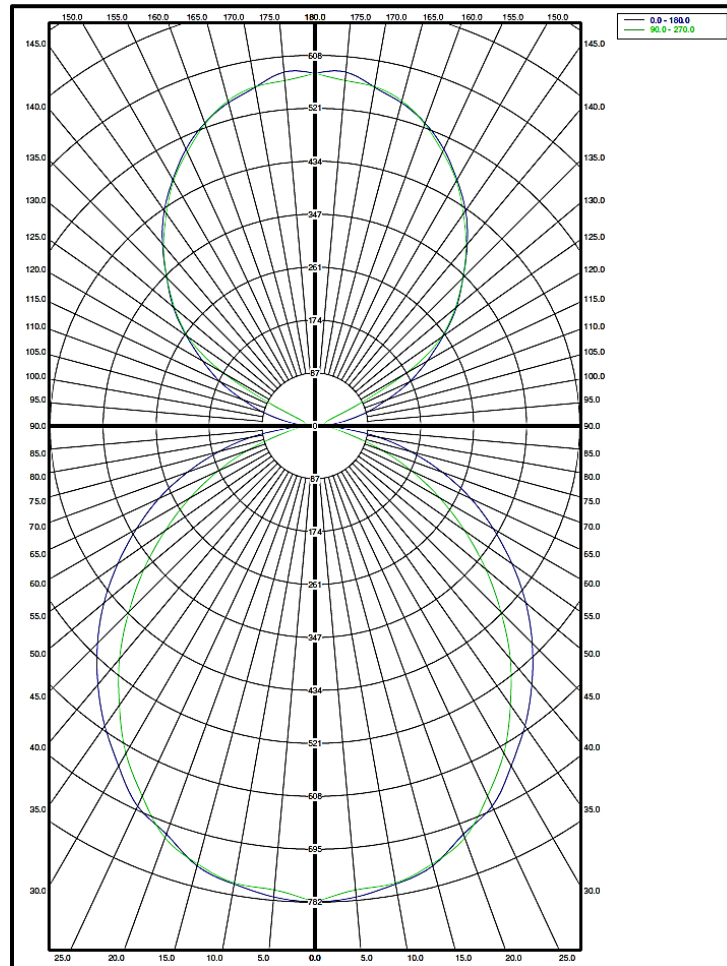
Image may differ slightly from actual unit

Summary of Results

System Power:	39.3W
Total Luminaire Output:	3404 Lumens
Luminaire Efficacy:	87 lm/W
Max Candela:	783.38 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	73.76	2.2%	90-100	12.32	0.4%
10-20	209.82	6.2%	100-110	48.31	1.4%
20-30	313.39	9.2%	110-120	135.34	4.0%
30-40	365.8	10.7%	120-130	230.02	6.8%
40-50	363.8	10.7%	130-140	268.29	7.9%
50-60	311.71	9.2%	140-150	268.99	7.9%
60-70	221.41	6.5%	150-160	230.02	6.8%
70-80	112.97	3.3%	160-170	154.72	4.5%
80-90	28.68	0.8%	170-180	54.52	1.6%
0-90	2001.34	58.8%	0-180	3403.87	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	782	782	782	782	782	782	782	782	782	782	782	782	782	782	782	782
5	776	783	781	778	764	778	781	783	776	783	781	778	764	778	781	783
10	764	764	764	759	762	759	764	764	764	764	764	759	762	759	764	764
15	748	740	744	746	744	746	744	740	748	740	744	746	744	746	744	740
20	713	716	720	719	720	719	720	716	713	716	720	719	720	719	720	716
25	689	682	684	679	671	679	684	682	689	682	684	679	671	679	684	682
30	645	647	640	624	621	624	640	647	645	647	640	624	621	624	640	647
35	601	603	591	565	560	565	591	603	601	603	591	565	560	565	591	603
40	554	553	535	507	499	507	535	553	554	553	535	507	499	507	535	553
45	505	500	472	446	432	446	472	500	505	500	472	446	432	446	472	500
50	452	445	411	379	366	379	411	445	452	445	411	379	366	379	411	445
55	395	385	348	313	300	313	348	385	395	385	348	313	300	313	348	385
60	338	325	283	247	237	247	283	325	338	325	283	247	237	247	283	325
65	282	262	217	185	176	185	217	262	282	262	217	185	176	185	217	262
70	223	200	153	126	118	126	153	200	223	200	153	126	118	126	153	200
75	164	137	94	72	66	72	94	137	164	137	94	72	66	72	94	137
80	106	75	43	38	38	38	43	75	106	75	43	38	38	38	43	75
85	41	23	19	20	19	20	19	23	41	23	19	20	19	20	19	23
90	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
95	23	8	8	9	9	9	8	8	23	8	8	9	9	9	8	8
100	55	30	12	15	16	15	12	30	55	30	12	15	16	15	12	30
105	90	80	20	16	17	16	20	80	90	80	20	16	17	16	20	80
110	127	132	75	23	20	23	75	132	127	132	75	23	20	23	75	132
115	172	173	164	82	50	82	164	173	172	173	164	82	50	82	164	173
120	213	219	217	200	173	200	217	219	213	219	217	200	173	200	217	219
125	257	262	261	257	253	257	261	262	257	262	261	257	253	257	261	262
130	304	306	305	301	301	301	305	306	304	306	305	301	301	301	305	306
135	344	351	349	346	344	346	349	351	344	351	349	346	344	346	349	351
140	389	392	392	391	386	391	392	392	389	392	392	391	386	391	392	392
145	431	430	430	430	425	430	430	430	431	430	430	430	425	430	430	430
150	466	469	470	468	464	468	470	469	466	469	470	468	464	468	470	469
155	501	498	500	500	496	500	500	498	501	498	500	500	496	500	500	498
160	529	526	526	531	527	531	526	526	529	526	526	531	527	531	526	526
165	549	549	549	549	552	549	549	549	549	549	549	549	552	549	549	549
170	564	562	561	564	565	564	561	562	564	562	561	564	565	564	561	562
175	583	577	573	577	569	577	573	577	583	577	573	577	569	577	573	577
180	578	578	578	578	578	578	578	578	578	578	578	578	578	578	578	578

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	9275	9275	9275
45	7690	3451	2655
55	7148	2527	1788
65	6525	1613	1049
75	5458	740	403
85	2590	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	3710	3710	3710	3710	3472	3472	3472	3472	2995	2995	2995	2587	2587	2587	2178	2178	2178	2008
1	3404	3268	3132	2995	3166	3029	2927	2825	2655	2553	2485	2281	2213	2144	1940	1906	1872	1702
2	3098	2859	2655	2451	2893	2655	2485	2315	2315	2178	2076	2008	1906	1804	1702	1634	1566	1430
3	2825	2519	2247	2042	2621	2349	2110	1940	2042	1872	1736	1770	1634	1532	1532	1430	1328	1225
4	2587	2213	1940	1736	2417	2076	1838	1668	1838	1634	1498	1600	1430	1328	1362	1259	1157	1055
5	2383	1974	1702	1498	2213	1872	1600	1430	1634	1430	1293	1430	1259	1157	1225	1123	1021	919
6	2213	1770	1498	1293	2042	1668	1430	1225	1464	1259	1123	1293	1123	1021	1123	987	885	783
7	2042	1600	1328	1157	1906	1532	1259	1089	1328	1123	987	1157	1021	885	1021	885	783	715
8	1872	1464	1191	1021	1770	1396	1123	953	1225	1021	885	1089	919	783	919	817	715	647
9	1770	1328	1089	919	1634	1259	1021	851	1123	919	783	987	817	715	851	749	647	579
10	1634	1225	987	817	1532	1157	919	783	1021	851	715	919	749	647	817	681	579	511

