

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number
EMI-PSW-4-D10-30-80-FW-W
(White Housing – Semi-Direct – Frosted Lens)

Test Number

IES-P00035

Test Date

2017-06-13

The results contained in this report pertain only to the tested sample.
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Luminaire Description:	Extruded Aluminum Housing, Semi-direct w/ Frosted Lens
Lamp:	LED (3000K, 80+ CRI)
Installation:	Suspension from Ceiling, Surface & Wall Mounted
Luminous Length:	47.88 in
Luminous Width:	1.75 in
Luminous Height:	1.25 in

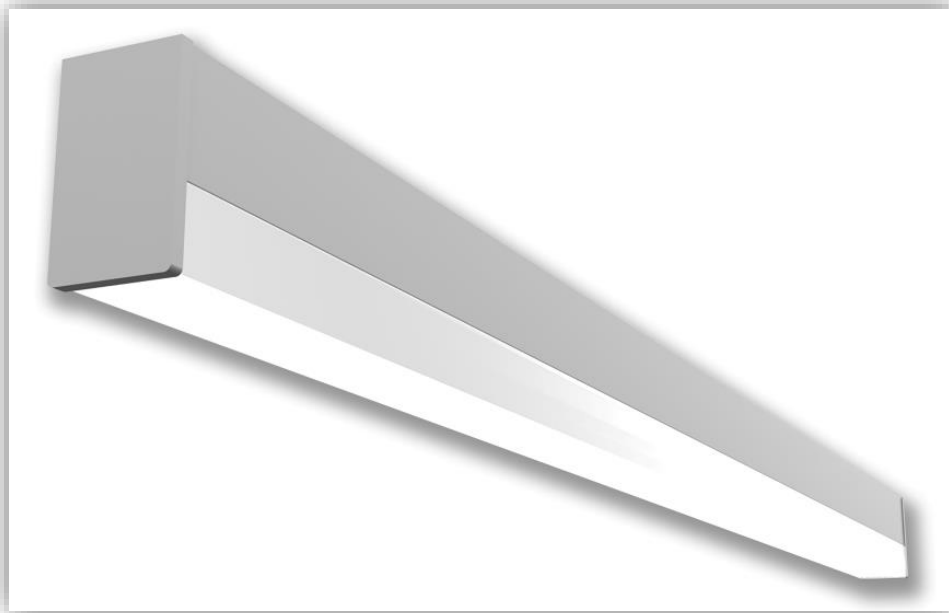


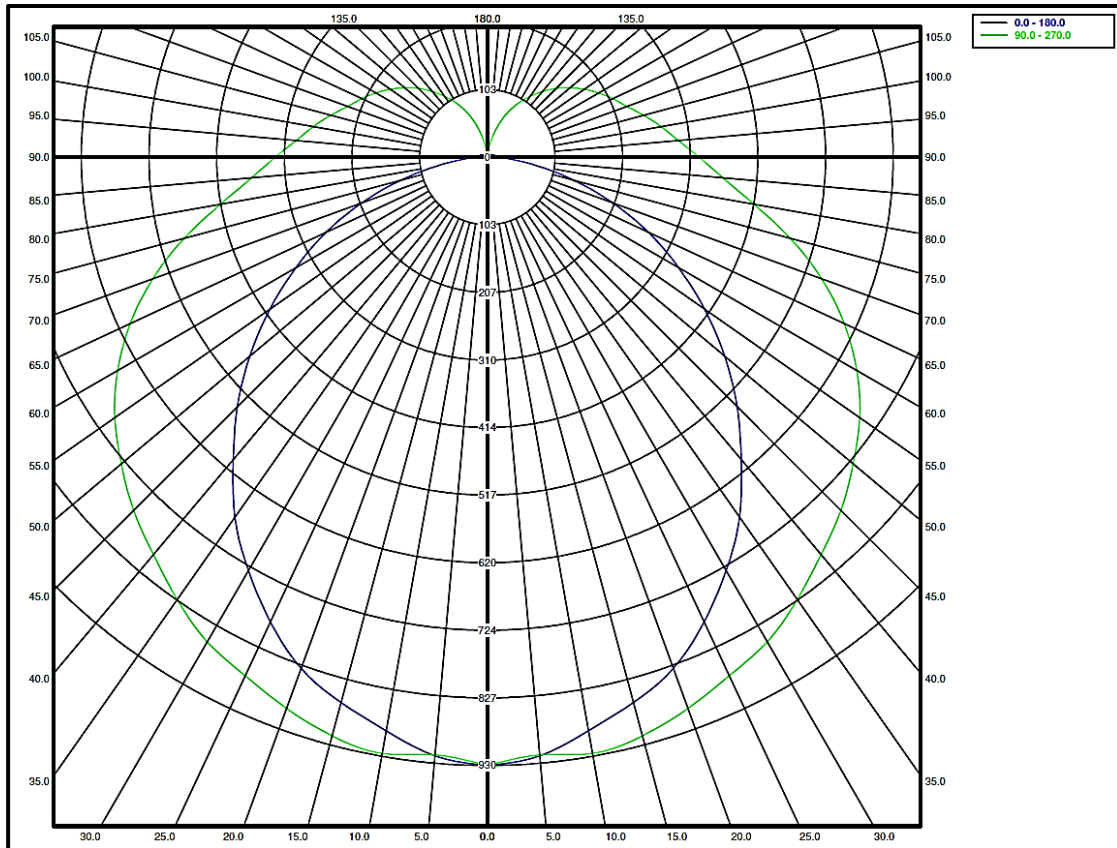
Image may differ slightly from actual unit

Summary of Results

System Power:	33.0W
Total Luminaire Output:	4008 Lumens
Luminaire Efficacy:	122 lm/W
Max Candela:	930.42 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	87.39	2.2%	90-100	198.3	4.9%
10-20	251.76	6.3%	100-110	162.79	4.1%
20-30	385.78	9.6%	110-120	130.78	3.3%
30-40	474.92	11.9%	120-130	99.29	2.5%
40-50	514.87	12.8%	130-140	68.94	1.7%
50-60	507.45	12.7%	140-150	41.61	1.0%
60-70	452.24	11.3%	150-160	19.58	0.5%
70-80	353.28	8.8%	160-170	5.5	0.1%
80-90	252.69	6.3%	170-180	0.37	0.0%
0-90	3280.38	81.9%	0-180	4007.54	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	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930
5	919	914	914	923	918	923	914	914	919	914	914	923	918	923	914	914
10	891	900	908	915	926	915	908	900	891	900	908	915	926	915	908	900
15	864	874	893	908	916	908	893	874	864	874	893	908	916	908	893	874
20	832	843	871	895	897	895	871	843	832	843	871	895	897	895	871	843
25	784	807	839	869	875	869	839	807	784	807	839	869	875	869	839	807
30	730	758	806	839	856	839	806	758	730	758	806	839	856	839	806	758
35	672	709	763	812	826	812	763	709	672	709	763	812	826	812	763	709
40	604	653	728	775	794	775	728	653	604	653	728	775	794	775	728	653
45	540	595	677	740	764	740	677	595	540	595	677	740	764	740	677	595
50	474	537	631	702	730	702	631	537	474	537	631	702	730	702	631	537
55	406	476	580	662	695	662	580	476	406	476	580	662	695	662	580	476
60	338	416	528	617	652	617	528	416	338	416	528	617	652	617	528	416
65	273	353	472	567	602	567	472	353	273	353	472	567	602	567	472	353
70	204	289	414	507	544	507	414	289	204	289	414	507	544	507	414	289
75	138	227	353	446	479	446	353	227	138	227	353	446	479	446	353	227
80	79	169	295	384	414	384	295	169	79	169	295	384	414	384	295	169
85	37	126	248	335	362	335	248	126	37	126	248	335	362	335	248	126
90	17	104	222	299	324	299	222	104	17	104	222	299	324	299	222	104
95	14	95	203	272	293	272	203	95	14	95	203	272	293	272	203	95
100	12	88	187	249	270	249	187	88	12	88	187	249	270	249	187	88
105	11	83	173	229	248	229	173	83	11	83	173	229	248	229	173	83
110	10	76	161	211	227	211	161	76	10	76	161	211	227	211	161	76
115	9	70	150	196	212	196	150	70	9	70	150	196	212	196	150	70
120	8	63	138	181	197	181	138	63	8	63	138	181	197	181	138	63
125	7	56	125	167	181	167	125	56	7	56	125	167	181	167	125	56
130	5	50	112	152	165	152	112	50	5	50	112	152	165	152	112	50
135	4	43	100	136	149	136	100	43	4	43	100	136	149	136	100	43
140	3	35	87	120	131	120	87	35	3	35	87	120	131	120	87	35
145	2	29	73	104	114	104	73	29	2	29	73	104	114	104	73	29
150	1	22	60	86	95	86	60	22	1	22	60	86	95	86	60	22
155	1	15	45	68	77	68	45	15	1	15	45	68	77	68	45	15
160	0	10	31	49	57	49	31	10	0	10	31	49	57	49	31	10
165	0	5	19	31	35	31	19	5	0	5	19	31	35	31	19	5
170	0	2	8	14	16	14	8	2	0	2	8	14	16	14	8	2
175	0	0	1	3	4	3	1	0	0	0	1	3	4	3	1	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	17212	17212	17212
45	13759	11611	11652
55	12606	10685	11084
65	11285	9724	10400
75	9001	8540	9340
85	6085	7535	8367

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	4609	4609	4609	4609	4408	4408	4408	4408	4048	4048	4048	3727	3727	3727	3406	3406	3406	3286
1	4088	3847	3647	3487	3887	3687	3527	3366	3406	3246	3126	3126	3006	2885	2845	2765	2685	2525
2	3687	3326	3006	2765	3487	3166	2885	2645	2926	2685	2485	2685	2485	2324	2445	2284	2164	2044
3	3326	2885	2525	2244	3166	2765	2445	2164	2525	2284	2044	2324	2124	1924	2124	1964	1803	1683
4	3046	2525	2164	1884	2885	2445	2084	1803	2244	1964	1723	2044	1803	1603	1884	1683	1523	1403
5	2805	2244	1884	1603	2645	2164	1803	1563	2004	1683	1483	1843	1563	1403	1683	1483	1322	1202
6	2565	2004	1643	1363	2445	1924	1603	1322	1803	1483	1282	1643	1403	1202	1523	1322	1122	1042
7	2364	1803	1443	1202	2244	1763	1403	1162	1603	1322	1122	1483	1242	1042	1403	1162	1002	922
8	2204	1643	1322	1082	2084	1603	1282	1042	1483	1202	1002	1363	1122	962	1282	1042	882	802
9	2044	1523	1162	962	1964	1443	1162	922	1363	1082	882	1282	1002	842	1162	962	802	721
10	1924	1403	1082	842	1843	1322	1042	842	1242	1002	802	1162	922	761	1082	882	721	641

