

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number
EMI-PSW-4-D7-30-80-FW-W
(White Housing – Semi-Direct – Frosted Lens)

Test Number

IES-P00034

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

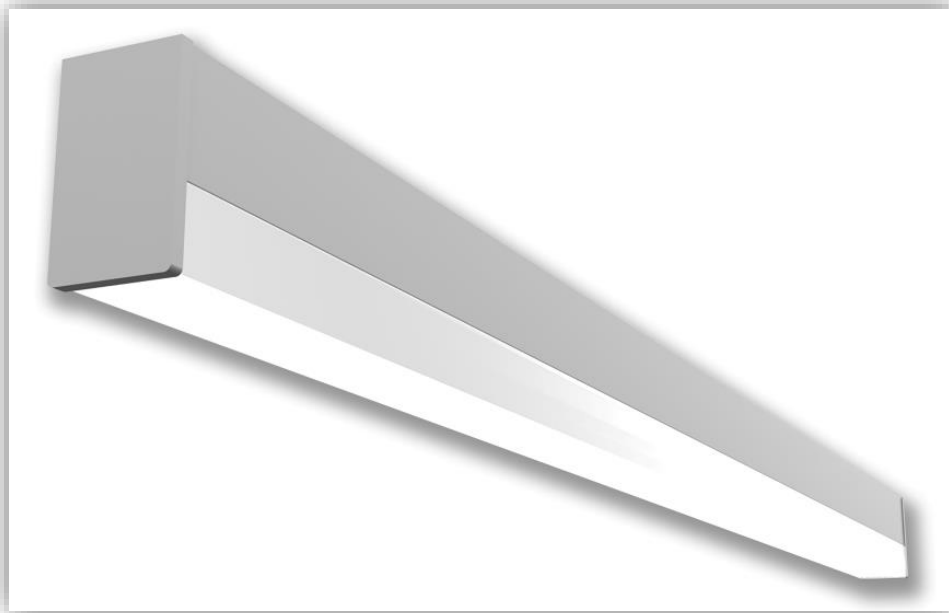


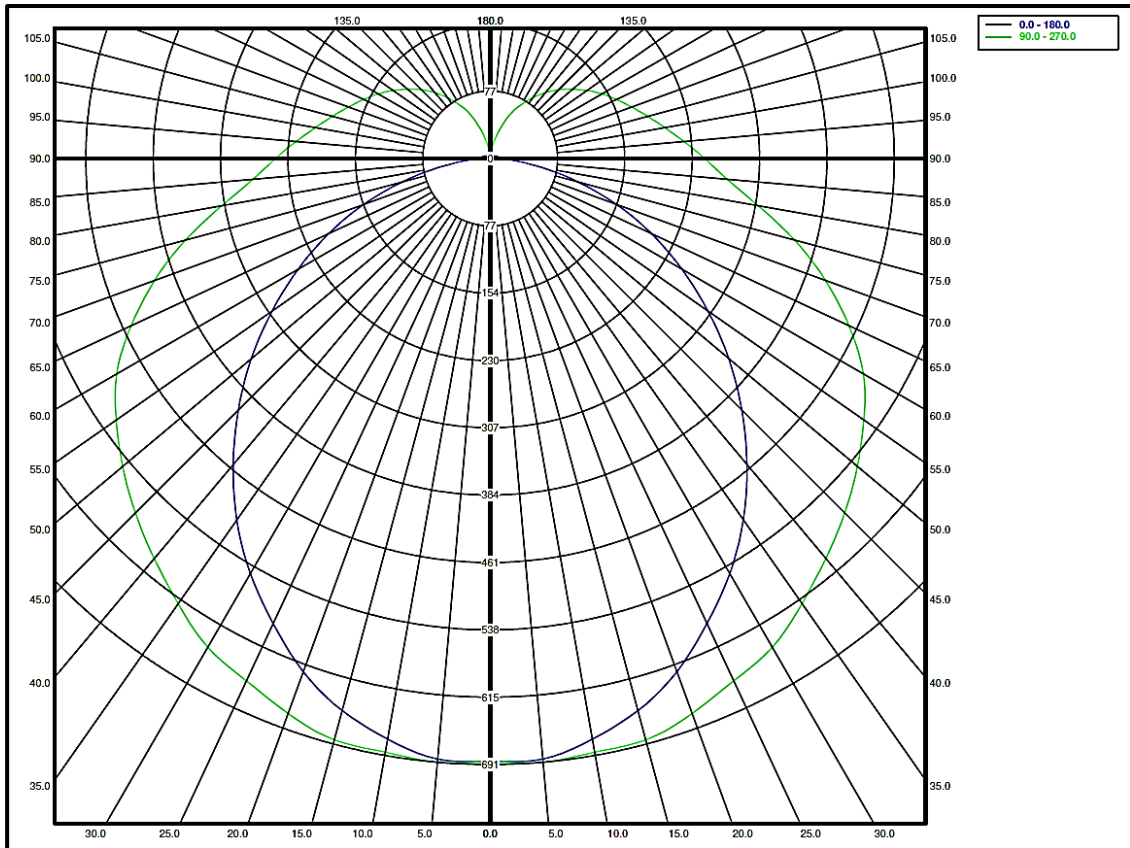
Image may differ slightly from actual unit

Summary of Results

System Power:	24.8W
Total Luminaire Output:	3006 Lumens
Luminaire Efficacy:	121 lm/W
Max Candela:	695.66 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	65.41	2.2%	90-100	149.1	5.0%
10-20	188.76	6.3%	100-110	122.26	4.1%
20-30	289.29	9.6%	110-120	98.22	3.3%
30-40	356.73	11.9%	120-130	74.49	2.5%
40-50	385.62	12.8%	130-140	51.72	1.7%
50-60	380.15	12.6%	140-150	31.19	1.0%
60-70	339.15	11.3%	150-160	14.72	0.5%
70-80	265.23	8.8%	160-170	4.06	0.1%
80-90	189.45	6.3%	170-180	0.27	0.0%
0-90	2459.79	81.8%	0-180	3005.82	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	687	687	687	687	687	687	687	687	687	687	687	687	687	687	687	687
5	688	684	686	696	691	696	686	684	688	684	686	696	691	696	686	684
10	673	671	679	689	688	689	679	671	673	671	679	689	688	689	679	671
15	652	656	669	682	687	682	669	656	652	656	669	682	687	682	669	656
20	623	631	655	669	674	669	655	631	623	631	655	669	674	669	655	631
25	585	604	631	650	658	650	631	604	585	604	631	650	658	650	631	604
30	547	568	607	632	644	632	607	568	547	568	607	632	644	632	607	568
35	504	532	576	610	620	610	576	532	504	532	576	610	620	610	576	532
40	456	489	543	580	596	580	543	489	456	489	543	580	596	580	543	489
45	406	446	508	553	572	553	508	446	406	446	508	553	572	553	508	446
50	356	401	471	526	547	526	471	401	356	401	471	526	547	526	471	401
55	304	357	434	496	520	496	434	357	304	357	434	496	520	496	434	357
60	253	312	396	463	492	463	396	312	253	312	396	463	492	463	396	312
65	204	265	354	425	452	425	354	265	204	265	354	425	452	425	354	265
70	154	217	310	381	407	381	310	217	154	217	310	381	407	381	310	217
75	104	170	265	335	360	335	265	170	104	170	265	335	360	335	265	170
80	60	126	221	288	311	288	221	126	60	126	221	288	311	288	221	126
85	28	95	186	250	271	250	186	95	28	95	186	250	271	250	186	95
90	13	78	166	224	245	224	166	78	13	78	166	224	245	224	166	78
95	10	71	153	205	222	205	153	71	10	71	153	205	222	205	153	71
100	10	66	141	187	202	187	141	66	10	66	141	187	202	187	141	66
105	9	62	130	172	186	172	130	62	9	62	130	172	186	172	130	62
110	8	57	121	159	172	159	121	57	8	57	121	159	172	159	121	57
115	7	53	112	148	159	148	112	53	7	53	112	148	159	148	112	53
120	6	48	103	137	147	137	103	48	6	48	103	137	147	137	103	48
125	5	42	94	125	135	125	94	42	5	42	94	125	135	125	94	42
130	4	38	84	114	123	114	84	38	4	38	84	114	123	114	84	38
135	3	32	75	103	111	103	75	32	3	32	75	103	111	103	75	32
140	2	27	65	90	98	90	65	27	2	27	65	90	98	90	65	27
145	1	22	55	78	85	78	55	22	1	22	55	78	85	78	55	22
150	1	17	45	64	71	64	45	17	1	17	45	64	71	64	45	17
155	0	12	34	51	58	51	34	12	0	12	34	51	58	51	34	12
160	0	8	24	36	41	36	24	8	0	8	24	36	41	36	24	8
165	0	4	14	23	26	23	14	4	0	4	14	23	26	23	14	4
170	0	1	6	10	13	10	6	1	0	1	6	10	13	10	6	1
175	0	0	1	2	3	2	1	0	0	0	1	2	3	2	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	12709	12709	12709
45	10342	8706	8721
55	9431	7996	8299
65	8430	7298	7800
75	6795	6409	7004
85	4524	5656	6279

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	3457	3457	3457	3457	3306	3306	3306	3306	3036	3036	3036	2795	2795	2795	2555	2555	2555	2465
1	3066	2886	2735	2615	2916	2765	2645	2525	2555	2435	2345	2345	2254	2164	2134	2074	2014	1894
2	2765	2495	2254	2074	2615	2375	2164	1984	2194	2014	1864	2014	1864	1743	1834	1713	1623	1533
3	2495	2164	1894	1683	2375	2074	1834	1623	1894	1713	1533	1743	1593	1443	1593	1473	1353	1262
4	2284	1894	1623	1413	2164	1834	1563	1353	1683	1473	1293	1533	1353	1202	1413	1262	1142	1052
5	2104	1683	1413	1202	1984	1623	1353	1172	1503	1262	1112	1383	1172	1052	1262	1112	992	902
6	1924	1503	1232	1022	1834	1443	1202	992	1353	1112	962	1232	1052	902	1142	992	842	782
7	1773	1353	1082	902	1683	1323	1052	872	1202	992	842	1112	932	782	1052	872	751	691
8	1653	1232	992	812	1563	1202	962	782	1112	902	751	1022	842	721	962	782	661	601
9	1533	1142	872	721	1473	1082	872	691	1022	812	661	962	751	631	872	721	601	541
10	1443	1052	812	631	1383	992	782	631	932	751	601	872	691	571	812	661	541	481

