

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

EMI-L-4'-D7-30K-80-FST-W

(White Housing – Semi-Direct – Frosted Lens)

Test Number

IES-P00034

Test Date

2017-02-21

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 Mounted
Luminous Length:	47.88 in
Luminous Width:	1.75 in
Luminous Height:	1.25 in

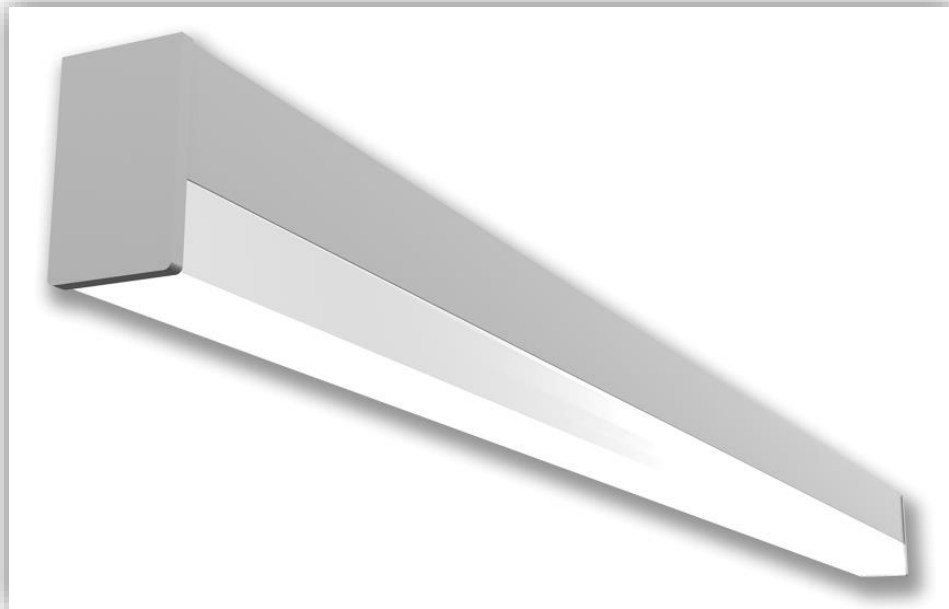


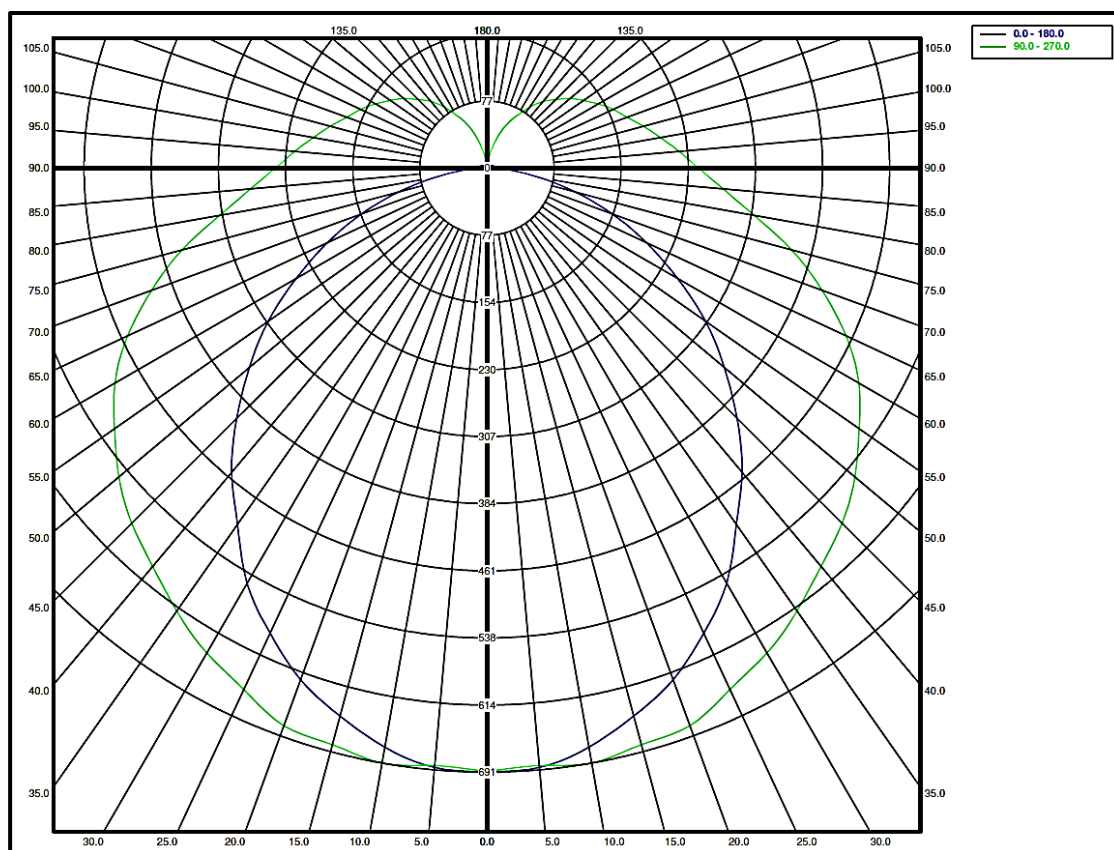
Image may differ slightly from actual unit

Summary of Results

System Power:	25.3W
Total Luminaire Output:	3006 Lumens
Luminaire Efficacy:	119 lm/W
Max Candela:	691.27 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	65.42	2.2%	90-100	148.88	5.0%
10-20	188.91	6.3%	100-110	122.12	4.1%
20-30	289.49	9.6%	110-120	97.8	3.3%
30-40	356.42	11.9%	120-130	74.47	2.5%
40-50	386.14	12.8%	130-140	51.85	1.7%
50-60	380.72	12.7%	140-150	31.28	1.0%
60-70	338.88	11.3%	150-160	14.65	0.5%
70-80	265.33	8.8%	160-170	4.1	0.1%
80-90	189.59	6.3%	170-180	0.28	0.0%
0-90	2460.9	81.9%	0-180	3006.33	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	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691
5	688	682	687	687	686	687	687	682	688	682	687	687	686	687	687	682
10	673	676	683	691	691	691	683	676	673	676	683	691	691	691	683	676
15	649	656	669	680	683	680	669	656	649	656	669	680	683	680	669	656
20	623	634	651	672	679	672	651	634	623	634	651	672	679	672	651	634
25	587	601	631	652	658	652	631	601	587	601	631	652	658	652	631	601
30	549	570	607	632	641	632	607	570	549	570	607	632	641	632	607	570
35	498	532	576	609	619	609	576	532	498	532	576	609	619	609	576	532
40	454	489	546	580	595	580	546	489	454	489	546	580	595	580	546	489
45	405	446	510	554	575	554	510	446	405	446	510	554	575	554	510	446
50	355	402	470	528	550	528	470	402	355	402	470	528	550	528	470	402
55	306	358	436	495	520	495	436	358	306	358	436	495	520	495	436	358
60	252	311	396	463	491	463	396	311	252	311	396	463	491	463	396	311
65	202	265	354	424	453	424	354	265	202	265	354	424	453	424	354	265
70	153	216	310	381	408	381	310	216	153	216	310	381	408	381	310	216
75	104	171	265	336	361	336	265	171	104	171	265	336	361	336	265	171
80	61	126	222	289	310	289	222	126	61	126	222	289	310	289	222	126
85	28	94	187	250	271	250	187	94	28	94	187	250	271	250	187	94
90	13	78	167	225	242	225	167	78	13	78	167	225	242	225	167	78
95	10	71	153	204	221	204	153	71	10	71	153	204	221	204	153	71
100	9	65	141	187	202	187	141	65	9	65	141	187	202	187	141	65
105	9	61	130	172	185	172	130	61	9	61	130	172	185	172	130	61
110	8	57	120	159	171	159	120	57	8	57	120	159	171	159	120	57
115	7	52	111	147	159	147	111	52	7	52	111	147	159	147	111	52
120	6	48	103	136	147	136	103	48	6	48	103	136	147	136	103	48
125	5	43	94	125	135	125	94	43	5	43	94	125	135	125	94	43
130	4	37	85	114	124	114	85	37	4	37	85	114	124	114	85	37
135	3	32	75	103	111	103	75	32	3	32	75	103	111	103	75	32
140	2	27	66	90	100	90	66	27	2	27	66	90	100	90	66	27
145	2	21	56	78	85	78	56	21	2	21	56	78	85	78	56	21
150	1	17	44	64	70	64	44	17	1	17	44	64	70	64	44	17
155	1	12	34	50	57	50	34	12	1	12	34	50	57	50	34	12
160	0	8	24	36	42	36	24	8	0	8	24	36	42	36	24	8
165	0	4	14	23	26	23	14	4	0	4	14	23	26	23	14	4
170	0	1	6	11	12	11	6	1	0	1	6	11	12	11	6	1
175	0	0	1	3	3	3	1	0	0	0	1	3	3	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	12774	12774	12774
45	10313	8745	8762
55	9494	8038	8294
65	8347	7297	7832
75	6787	6396	7034
85	4573	5673	6282

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	3307	3307	3307	3307	3036	3036	3036	2796	2796	2796	2555	2555	2555	2465
1	3066	2886	2736	2616	2916	2766	2646	2525	2555	2435	2345	2345	2255	2165	2134	2074	2014	1894
2	2766	2495	2255	2074	2646	2375	2165	1984	2195	2014	1864	2014	1864	1744	1834	1714	1623	1533
3	2495	2165	1894	1684	2375	2074	1834	1623	1894	1714	1533	1744	1593	1443	1593	1473	1353	1263
4	2285	1894	1623	1413	2165	1834	1563	1353	1684	1473	1293	1533	1353	1203	1413	1263	1142	1052
5	2104	1684	1413	1203	1984	1623	1353	1172	1503	1263	1112	1383	1203	1052	1263	1112	992	902
6	1924	1503	1233	1022	1834	1443	1203	1022	1353	1112	962	1233	1052	902	1142	992	842	782
7	1774	1353	1082	902	1684	1323	1052	872	1203	992	842	1112	932	782	1052	872	752	691
8	1653	1233	992	812	1563	1203	962	782	1112	902	752	1022	842	722	962	782	661	601
9	1533	1142	872	722	1473	1082	872	691	1022	812	661	962	752	631	872	722	601	541
10	1443	1052	812	631	1383	992	782	631	932	752	601	872	691	571	812	661	541	481

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	19 fc	21 ft
8 ft	11 fc	28 ft
10 ft	7 fc	35 ft
12 ft	5 fc	42 ft
15 ft	3 fc	53 ft

