

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

EMI-L-4'-D10-30K-80-FST-W

(White Housing – Semi-Direct – Frosted Lens)

Test Number

IES-P00035

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

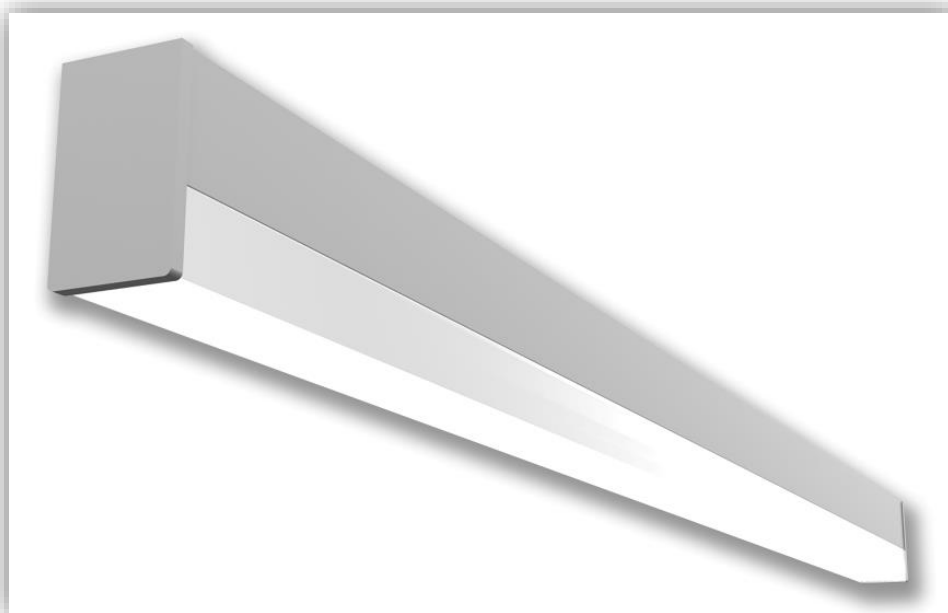


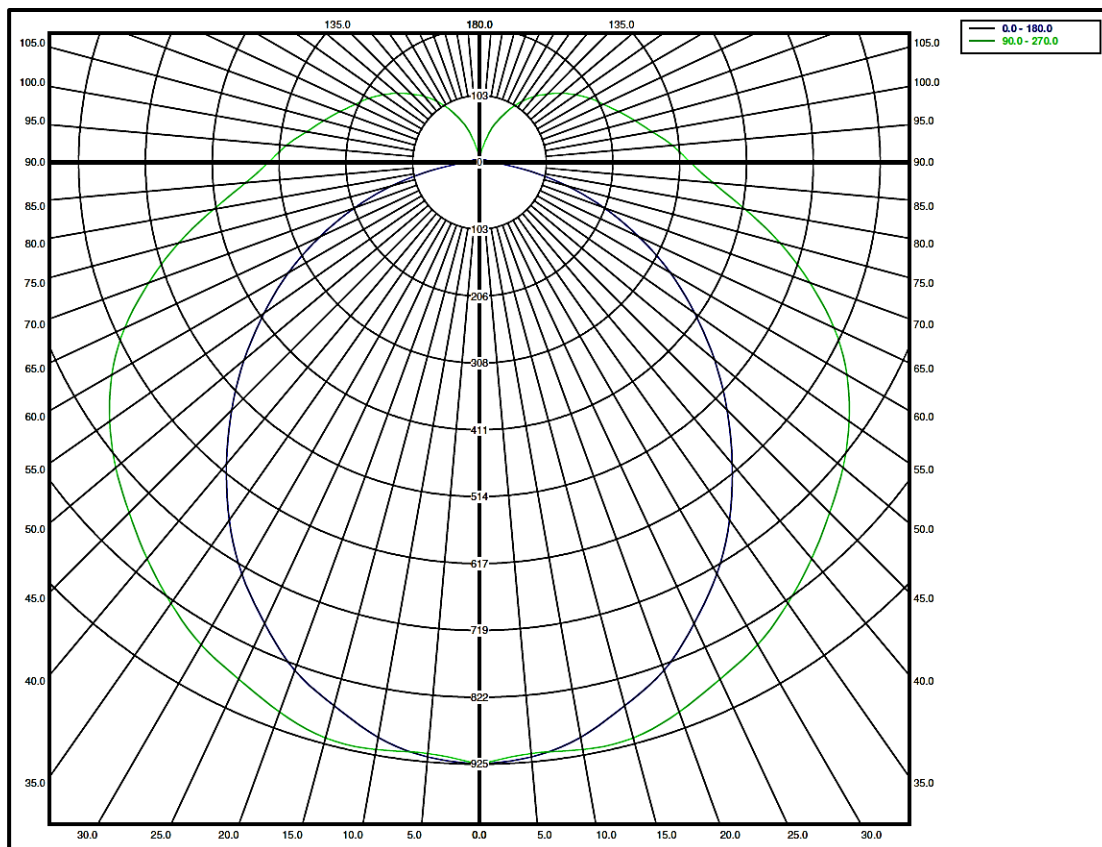
Image may differ slightly from actual unit

Summary of Results

System Power:	33.9W
Total Luminaire Output:	4007 Lumens
Luminaire Efficacy:	118 lm/W
Max Candela:	924.78 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	87.14	2.2%	90-100	198.81	5.0%
10-20	251.5	6.3%	100-110	163.17	4.1%
20-30	385.65	9.6%	110-120	130.67	3.3%
30-40	475.71	11.9%	120-130	99.47	2.5%
40-50	514.04	12.8%	130-140	68.99	1.7%
50-60	506.86	12.6%	140-150	41.57	1.0%
60-70	452.46	11.3%	150-160	19.6	0.5%
70-80	353.19	8.8%	160-170	5.44	0.1%
80-90	252.49	6.3%	170-180	0.38	0.0%
0-90	3279.04	81.8%	0-180	4007.14	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	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925
5	917	910	920	916	912	916	920	910	917	910	920	916	912	916	920	910
10	897	896	904	918	916	918	904	896	897	896	904	918	916	918	904	896
15	864	877	893	907	916	907	893	877	864	877	893	907	916	907	893	877
20	831	840	871	890	899	890	871	840	831	840	871	890	899	890	871	840
25	782	804	843	866	876	866	843	804	782	804	843	866	876	866	843	804
30	731	761	808	844	856	844	808	761	731	761	808	844	856	844	808	761
35	671	708	769	813	827	813	769	708	671	708	769	813	827	813	769	708
40	605	654	725	773	795	773	725	654	605	654	725	773	795	773	725	654
45	539	592	676	740	762	740	676	592	539	592	676	740	762	740	676	592
50	473	534	629	702	730	702	629	534	473	534	629	702	730	702	629	534
55	405	475	577	662	694	662	577	475	405	475	577	662	694	662	577	475
60	339	416	527	619	653	619	527	416	339	416	527	619	653	619	527	416
65	271	353	473	567	602	567	473	353	271	353	473	567	602	567	473	353
70	204	290	413	509	541	509	413	290	204	290	413	509	541	509	413	290
75	140	227	352	446	479	446	352	227	140	227	352	446	479	446	352	227
80	80	169	296	384	415	384	296	169	80	169	296	384	415	384	296	169
85	37	125	250	333	361	333	250	125	37	125	250	333	361	333	250	125
90	17	104	222	298	324	298	222	104	17	104	222	298	324	298	222	104
95	13	94	203	273	298	273	203	94	13	94	203	273	298	273	203	94
100	12	89	188	250	270	250	188	89	12	89	188	250	270	250	188	89
105	12	82	174	230	248	230	174	82	12	82	174	230	248	230	174	82
110	10	76	161	211	228	211	161	76	10	76	161	211	228	211	161	76
115	9	70	150	196	211	196	150	70	9	70	150	196	211	196	150	70
120	8	63	137	183	197	183	137	63	8	63	137	183	197	183	137	63
125	7	57	125	167	181	167	125	57	7	57	125	167	181	167	125	57
130	5	50	112	153	165	153	112	50	5	50	112	153	165	153	112	50
135	4	43	99	137	148	137	99	43	4	43	99	137	148	137	99	43
140	3	36	88	120	132	120	88	36	3	36	88	120	132	120	88	36
145	2	28	73	104	114	104	73	28	2	28	73	104	114	104	73	28
150	1	22	59	86	95	86	59	22	1	22	59	86	95	86	59	22
155	1	16	46	68	74	68	46	16	1	16	46	68	74	68	46	16
160	0	10	31	49	56	49	31	10	0	10	31	49	56	49	31	10
165	0	5	18	31	34	31	18	5	0	5	18	31	34	31	18	5
170	0	2	8	14	17	14	8	2	0	2	8	14	17	14	8	2
175	0	0	1	4	4	4	1	0	0	0	1	4	4	4	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	17107	17107	17107
45	13732	11598	11617
55	12574	10642	11074
65	11228	9746	10401
75	9085	8502	9330
85	6038	7577	8360

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	4608	4608	4608	4608	4408	4408	4408	4408	4047	4047	4047	3727	3727	3727	3406	3406	3406	3286
1	4087	3847	3646	3486	3887	3687	3526	3366	3406	3246	3126	3126	3005	2885	2845	2765	2685	2524
2	3687	3326	3005	2765	3486	3166	2885	2645	2925	2685	2484	2685	2484	2324	2444	2284	2164	2044
3	3326	2885	2524	2244	3166	2765	2444	2164	2524	2284	2044	2324	2124	1923	2124	1963	1803	1683
4	3045	2524	2164	1883	2885	2444	2084	1803	2244	1963	1723	2044	1803	1603	1883	1683	1523	1402
5	2805	2244	1883	1603	2645	2164	1803	1563	2004	1683	1483	1843	1563	1402	1683	1483	1322	1202
6	2565	2004	1643	1362	2444	1923	1603	1322	1803	1483	1282	1643	1402	1202	1523	1322	1122	1042
7	2364	1803	1443	1202	2244	1763	1402	1162	1603	1322	1122	1483	1242	1042	1402	1162	1002	922
8	2204	1643	1322	1082	2084	1603	1282	1042	1483	1202	1002	1362	1122	962	1282	1042	882	801
9	2044	1523	1162	962	1963	1443	1162	922	1362	1082	882	1282	1002	841	1162	962	801	721
10	1923	1402	1082	841	1843	1322	1042	841	1242	1002	801	1162	922	761	1082	882	721	641

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	26 fc	21 ft
8 ft	14 fc	28 ft
10 ft	9 fc	35 ft
12 ft	6 fc	42 ft
15 ft	4 fc	53 ft

