

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

EMI-PSW-4-D3-30-80-FW-W

(White Housing – Semi-Direct – Frosted Lens)

Test Number

IES-P00032

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

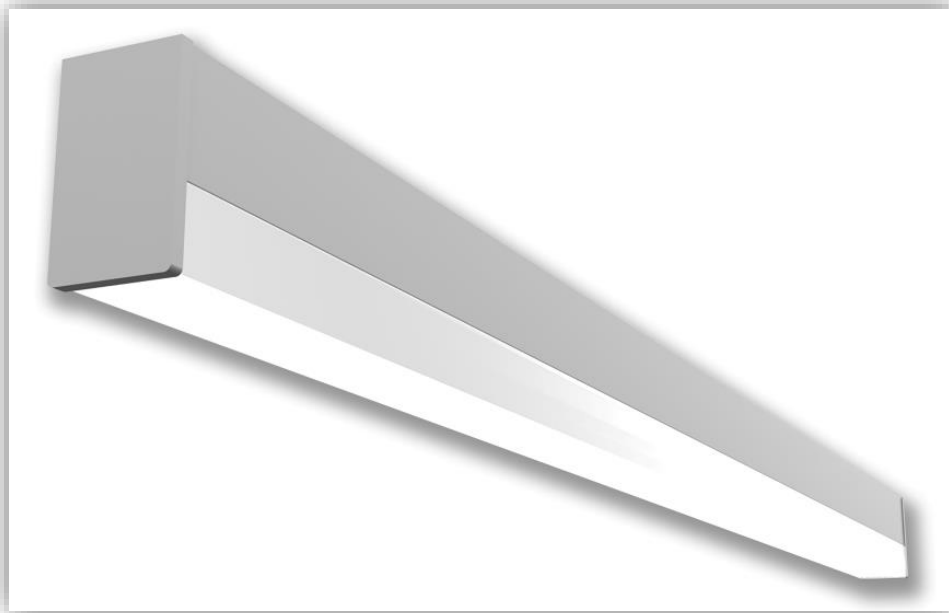


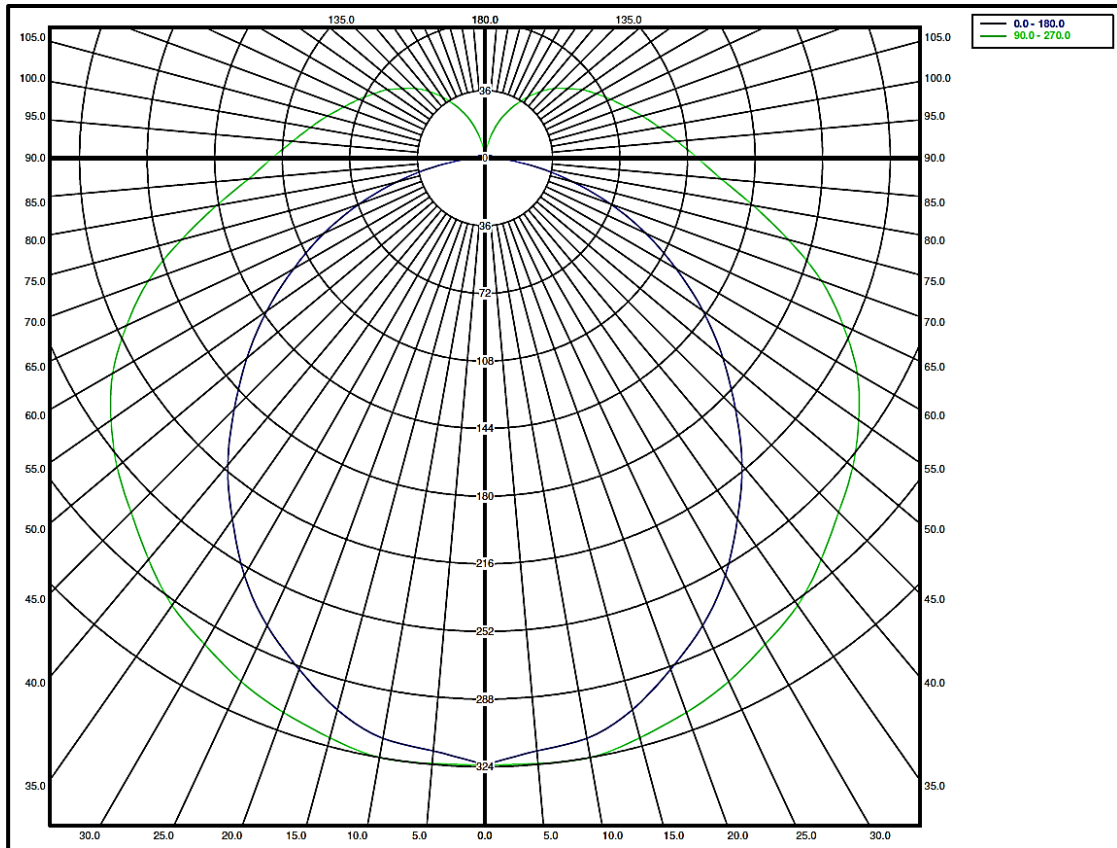
Image may differ slightly from actual unit

Summary of Results

System Power:	12.5W
Total Luminaire Output:	1402 Lumens
Luminaire Efficacy:	112 lm/W
Max Candela:	323.83 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	30.5	2.2%	90-100	69.4	4.9%
10-20	88.08	6.3%	100-110	57.1	4.1%
20-30	135.08	9.6%	110-120	45.79	3.3%
30-40	166.45	11.9%	120-130	34.72	2.5%
40-50	180.01	12.8%	130-140	24.15	1.7%
50-60	177.44	12.7%	140-150	14.57	1.0%
60-70	158.14	11.3%	150-160	6.84	0.5%
70-80	123.68	8.8%	160-170	1.93	0.1%
80-90	88.41	6.3%	170-180	0.13	0.0%
0-90	1147.79	81.8%	0-180	1402.42	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	323	323	323	323	323	323	323	323	323	323	323	323	323	323	323	323
5	317	319	321	321	323	321	321	319	317	319	321	321	323	321	321	319
10	313	314	318	319	324	319	318	314	313	314	318	319	324	319	318	314
15	304	306	313	318	319	318	313	306	304	306	313	318	319	318	313	306
20	289	295	304	313	314	313	304	295	289	295	304	313	314	313	304	295
25	275	281	295	305	307	305	295	281	275	281	295	305	307	305	295	281
30	256	266	282	295	299	295	282	266	256	266	282	295	299	295	282	266
35	235	248	268	285	291	285	268	248	235	248	268	285	291	285	268	248
40	213	229	254	271	279	271	254	229	213	229	254	271	279	271	254	229
45	189	207	238	258	267	258	238	207	189	207	238	258	267	258	238	207
50	166	188	220	245	256	245	220	188	166	188	220	245	256	245	220	188
55	142	167	203	231	243	231	203	167	142	167	203	231	243	231	203	167
60	118	145	185	216	229	216	185	145	118	145	185	216	229	216	185	145
65	95	123	165	198	211	198	165	123	95	123	165	198	211	198	165	123
70	71	101	145	178	191	178	145	101	71	101	145	178	191	178	145	101
75	49	79	124	156	167	156	124	79	49	79	124	156	167	156	124	79
80	29	59	104	134	145	134	104	59	29	59	104	134	145	134	104	59
85	13	44	87	117	126	117	87	44	13	44	87	117	126	117	87	44
90	6	37	78	104	113	104	78	37	6	37	78	104	113	104	78	37
95	5	33	71	95	103	95	71	33	5	33	71	95	103	95	71	33
100	4	31	65	88	94	88	65	31	4	31	65	88	94	88	65	31
105	4	29	61	80	87	80	61	29	4	29	61	80	87	80	61	29
110	4	27	57	74	80	74	57	27	4	27	57	74	80	74	57	27
115	3	25	52	69	74	69	52	25	3	25	52	69	74	69	52	25
120	3	22	48	64	68	64	48	22	3	22	48	64	68	64	48	22
125	2	20	44	58	63	58	44	20	2	20	44	58	63	58	44	20
130	2	17	40	53	58	53	40	17	2	17	40	53	58	53	40	17
135	1	15	35	48	52	48	35	15	1	15	35	48	52	48	35	15
140	1	13	31	42	46	42	31	13	1	13	31	42	46	42	31	13
145	1	10	26	36	40	36	26	10	1	10	26	36	40	36	26	10
150	0	8	21	30	33	30	21	8	0	8	21	30	33	30	21	8
155	0	5	16	23	26	23	16	5	0	5	16	23	26	23	16	5
160	0	3	11	17	20	17	11	3	0	3	11	17	20	17	11	3
165	0	2	7	11	12	11	7	2	0	2	7	11	12	11	7	2
170	0	1	3	5	6	5	3	1	0	1	3	5	6	5	3	1
175	0	0	0	1	2	1	0	0	0	0	0	1	2	1	0	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	5972	5972	5972
45	4809	4078	4064
55	4412	3734	3877
65	3925	3409	3638
75	3164	2994	3259
85	2130	2646	2924

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	1613	1613	1613	1613	1543	1543	1543	1543	1416	1416	1416	1304	1304	1304	1192	1192	1192	1150
1	1430	1346	1276	1220	1360	1290	1234	1178	1192	1136	1094	1094	1052	1010	996	968	940	884
2	1290	1164	1052	968	1234	1108	1010	926	1024	940	870	940	870	813	855	799	757	715
3	1164	1010	884	785	1108	968	855	757	884	799	715	813	743	673	743	687	631	589
4	1066	884	757	659	1010	855	729	631	785	687	603	715	631	561	659	589	533	491
5	982	785	659	561	926	757	631	547	701	589	519	645	561	491	589	519	463	421
6	898	701	575	477	855	673	561	477	631	519	449	575	491	421	533	463	393	365
7	827	631	505	421	785	617	491	407	561	463	393	519	435	365	491	407	351	323
8	771	575	463	379	729	561	449	365	519	421	351	477	393	337	449	365	309	280
9	715	533	407	337	687	505	407	323	477	379	309	449	351	295	407	337	280	252
10	673	491	379	295	645	477	365	295	435	351	280	407	323	266	379	309	252	224

