



**PICASSO LIGHTING INDUSTRIES, LLC**  
46 Sellers Street, Kearny, NJ 07032  
201.246.8188

## **Indoor Distribution Test Report**

### **Picasso Lighting Industries, LLC**

46 Sellers St.  
Kearny, NJ 07032

#### **Photopia Photometric Analysis & Optical Design**

#### **Catalog Number**

**EMI-L-4'-D3-30K-80-FST-W**

(White Housing – Semi-Direct – Frosted Lens)

Test Number

**IES-P00032**

Test Date

2017-02-20

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

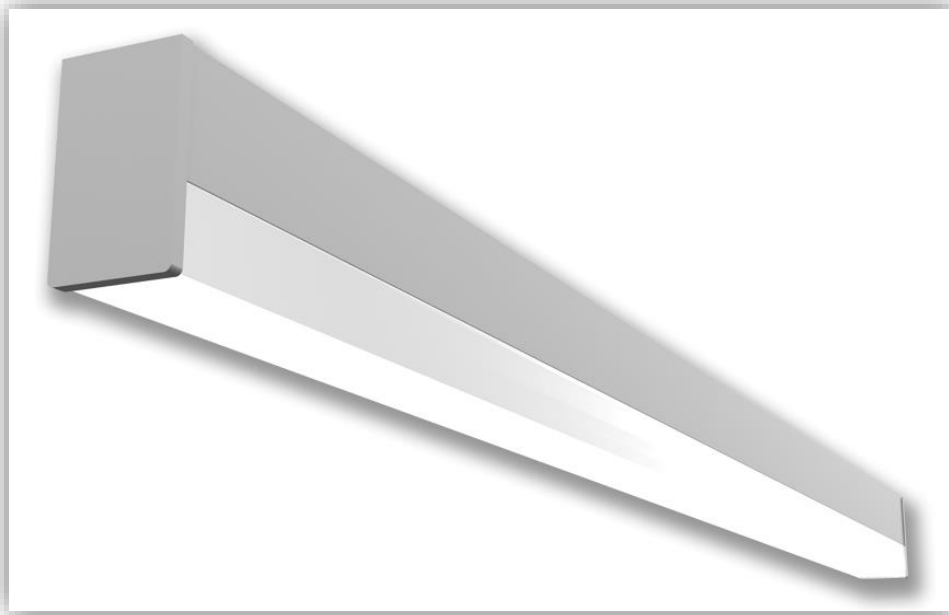


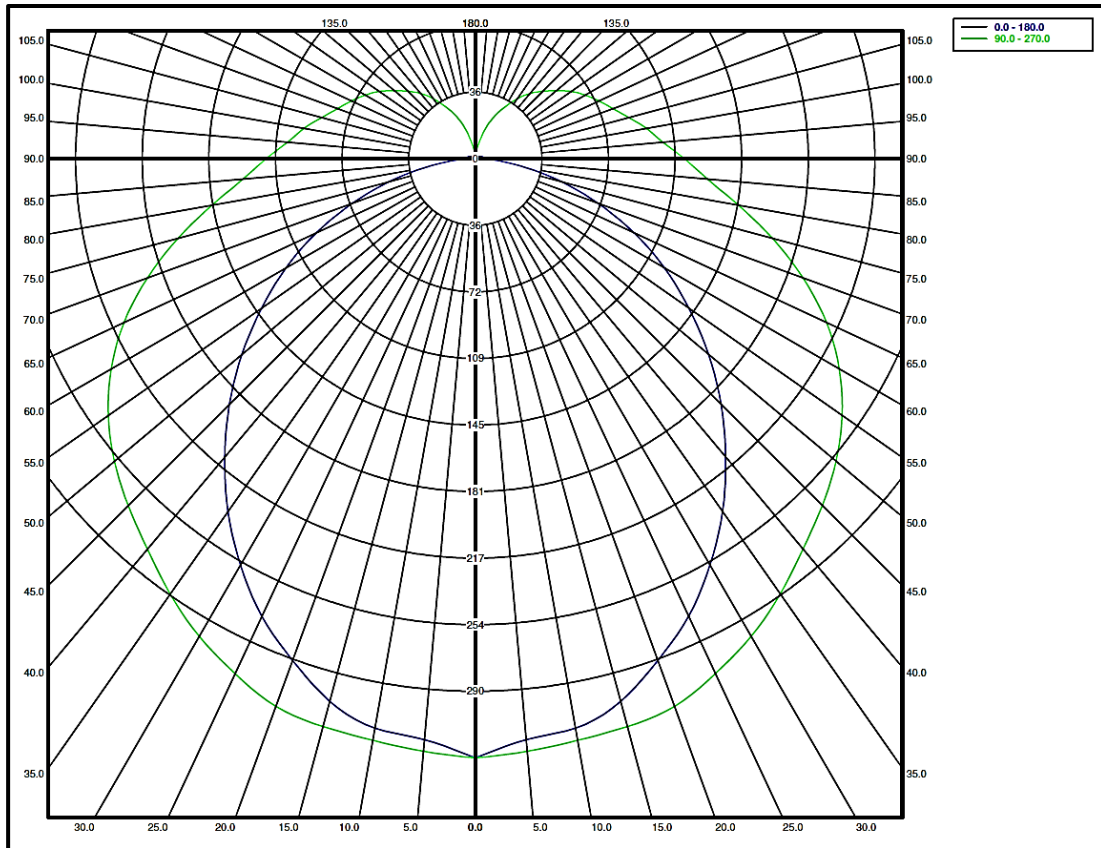
Image may differ slightly from actual unit

#### **Summary of Results**

<b>System Power:</b>	11.5W
<b>Total Luminaire Output:</b>	1404 Lumens
<b>Luminaire Efficacy:</b>	122 lm/W
<b>Max Candela:</b>	326.01 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	30.61	2.2%	90-100	69.5	4.9%
10-20	88.15	6.3%	100-110	57.09	4.1%
20-30	135.39	9.6%	110-120	45.83	3.3%
30-40	166.51	11.9%	120-130	34.85	2.5%
40-50	180.2	12.8%	130-140	24.15	1.7%
50-60	177.89	12.7%	140-150	14.57	1.0%
60-70	158.34	11.3%	150-160	6.85	0.5%
70-80	123.75	8.8%	160-170	1.9	0.1%
80-90	88.5	6.3%	170-180	0.13	0.0%
0-90	1149.34	81.8%	0-180	1404.21	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	326	326	326	326	326	326	326	326	326	326	326	326	326	326	326	326
5	317	318	321	325	324	325	321	318	317	318	321	325	324	325	321	318
10	315	316	320	320	321	320	320	316	315	316	320	320	321	320	320	316
15	306	305	312	318	320	318	312	305	306	305	312	318	320	318	312	305
20	291	295	304	314	317	314	304	295	291	295	304	314	317	314	304	295
25	275	283	295	305	309	305	295	283	275	283	295	305	309	305	295	283
30	255	265	283	296	300	296	283	265	255	265	283	296	300	296	283	265
35	235	248	270	285	289	285	270	248	235	248	270	285	289	285	270	248
40	212	229	253	271	277	271	253	229	212	229	253	271	277	271	253	229
45	189	208	238	259	267	259	238	208	189	208	238	259	267	259	238	208
50	166	189	220	246	256	246	220	189	166	189	220	246	256	246	220	189
55	142	167	203	232	244	232	203	167	142	167	203	232	244	232	203	167
60	119	146	185	217	229	217	185	146	119	146	185	217	229	217	185	146
65	95	123	165	199	211	199	165	123	95	123	165	199	211	199	165	123
70	71	101	145	178	190	178	145	101	71	101	145	178	190	178	145	101
75	49	79	124	157	167	157	124	79	49	79	124	157	167	157	124	79
80	28	59	104	135	145	135	104	59	28	59	104	135	145	135	104	59
85	13	44	87	117	127	117	87	44	13	44	87	117	127	117	87	44
90	6	36	78	105	114	105	78	36	6	36	78	105	114	105	78	36
95	5	33	71	96	103	96	71	33	5	33	71	96	103	96	71	33
100	4	31	66	87	95	87	66	31	4	31	66	87	95	87	66	31
105	4	28	61	81	86	81	61	28	4	28	61	81	86	81	61	28
110	4	27	56	75	80	75	56	27	4	27	56	75	80	75	56	27
115	3	24	52	69	74	69	52	24	3	24	52	69	74	69	52	24
120	3	22	48	64	69	64	48	22	3	22	48	64	69	64	48	22
125	2	20	44	58	64	58	44	20	2	20	44	58	64	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	30	42	46	42	30	13	1	13	30	42	46	42	30	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	6	16	24	26	24	16	6	0	6	16	24	26	24	16	6
160	0	4	11	17	19	17	11	4	0	4	11	17	19	17	11	4
165	0	2	6	11	12	11	6	2	0	2	6	11	12	11	6	2
170	0	1	3	5	6	5	3	1	0	1	3	5	6	5	3	1
175	0	0	1	1	2	1	1	0	0	0	1	1	2	1	1	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

### Average Luminance (cd/m<sup>2</sup>)

#### Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	6031	6031	6031
45	4818	4077	4070
55	4409	3744	3886
65	3950	3408	3641
75	3185	2989	3260
85	2095	2649	2935

**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	1615	1615	1615	1615	1545	1545	1545	1545	1418	1418	1418	1306	1306	1306	1194	1194	1194	1151
1	1432	1348	1278	1222	1362	1292	1236	1180	1194	1137	1095	1095	1053	1011	997	969	941	885
2	1292	1165	1053	969	1236	1109	1011	927	1025	941	871	941	871	814	857	800	758	716
3	1165	1011	885	786	1109	969	857	758	885	800	716	814	744	674	744	688	632	590
4	1067	885	758	660	1011	857	730	632	786	688	604	716	632	562	660	590	534	491
5	983	786	660	562	927	758	632	548	702	590	520	646	562	491	590	520	463	421
6	899	702	576	477	857	674	562	477	632	520	449	576	491	421	534	463	393	365
7	828	632	506	421	786	618	491	407	562	463	393	520	435	365	491	407	351	323
8	772	576	463	379	730	562	449	365	520	421	351	477	393	337	449	365	309	281
9	716	534	407	337	688	506	407	323	477	379	309	449	351	295	407	337	281	253
10	674	491	379	295	646	477	365	295	435	351	281	407	323	267	379	309	253	225

