



## **Indoor Distribution Test Report**

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

46 Sellers St.  
Kearny, NJ 07032

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

**Catalog Number**  
**NIC-PSW-4-D3-30-80-FW-W**  
(White Housing – Semi-Direct – Frosted Lens)

Test Number

**IES-P00036**

Test Date

2017-06-14

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 & Wall Mounted
<b>Luminous Length:</b>	47.88 in
<b>Luminous Width:</b>	1.75 in
<b>Luminous Height:</b>	1.25 in

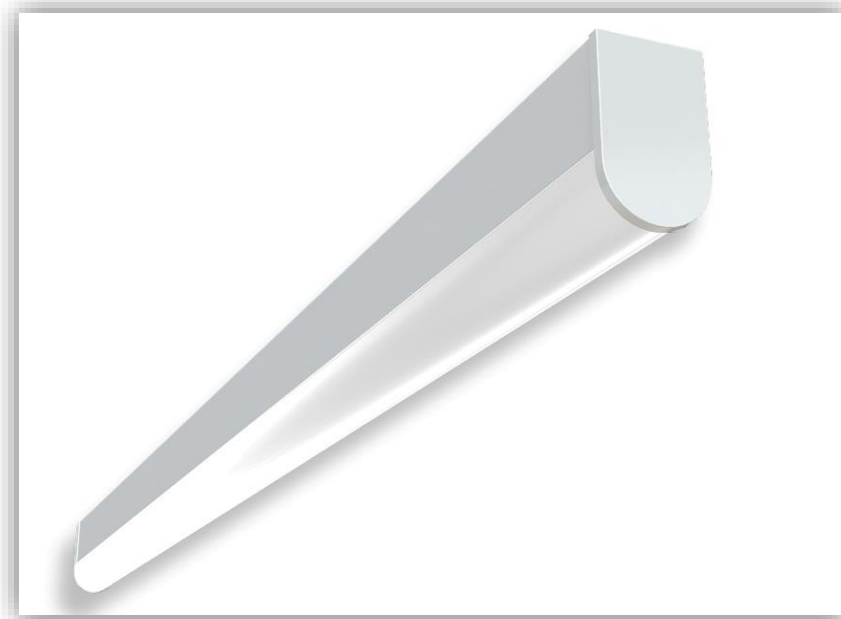


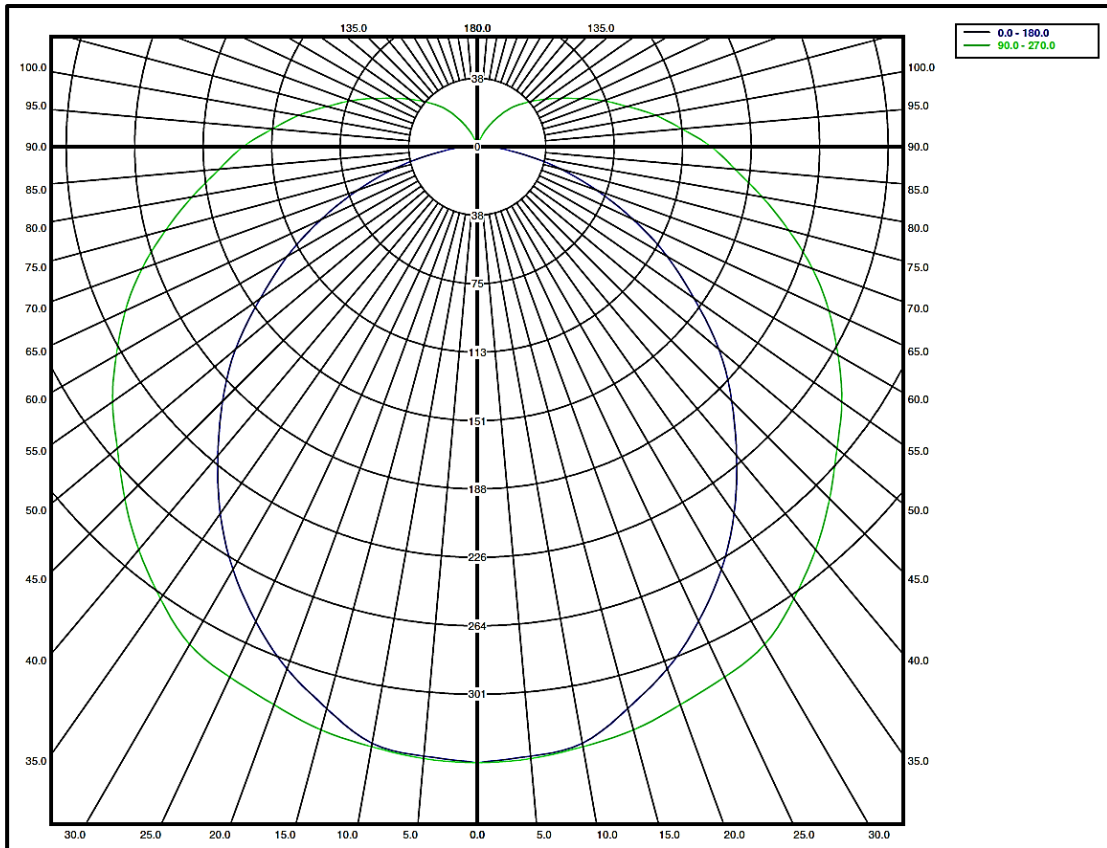
Image may differ slightly from actual unit

#### **Summary of Results**

<b>System Power:</b>	12.7W
<b>Total Luminaire Output:</b>	1401 Lumens
<b>Luminaire Efficacy:</b>	110 lm/W
<b>Max Candela:</b>	340.00 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	32.09	2.3%	90-100	74.4	5.3%
10-20	91.98	6.6%	100-110	52.13	3.7%
20-30	141.1	10.1%	110-120	34.86	2.5%
30-40	173.6	12.4%	120-130	22.36	1.6%
40-50	185.66	13.3%	130-140	13.19	0.9%
50-60	179.68	12.8%	140-150	6.13	0.4%
60-70	160.39	11.4%	150-160	1.86	0.1%
70-80	131.26	9.4%	160-170	0.24	0.0%
80-90	100.22	7.2%	170-180	0	0.0%
0-90	1195.98	85.4%	0-180	1401.15	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	339	339	339	339	339	339	339	339	339	339	339	339	339	339	339	339
5	337	336	340	338	338	338	340	336	337	336	340	338	338	338	340	336
10	333	332	332	334	335	334	332	332	333	332	332	334	335	334	332	332
15	320	321	324	329	332	329	324	321	320	321	324	329	332	329	324	321
20	306	307	318	326	327	326	318	307	306	307	318	326	327	326	318	307
25	288	294	306	318	322	318	306	294	288	294	306	318	322	318	306	294
30	269	277	294	309	316	309	294	277	269	277	294	309	316	309	294	277
35	247	257	280	297	304	297	280	257	247	257	280	297	304	297	280	257
40	222	236	264	283	290	283	264	236	222	236	264	283	290	283	264	236
45	198	215	243	267	274	267	243	215	198	215	243	267	274	267	243	215
50	174	193	224	249	258	249	224	193	174	193	224	249	258	249	224	193
55	146	169	204	233	245	233	204	169	146	169	204	233	245	233	204	169
60	121	146	185	218	229	218	185	146	121	146	185	218	229	218	185	146
65	95	124	167	202	213	202	167	124	95	124	167	202	213	202	167	124
70	70	102	150	184	196	184	150	102	70	102	150	184	196	184	150	102
75	48	84	133	166	177	166	133	84	48	84	133	166	177	166	133	84
80	28	66	116	149	159	149	116	66	28	66	116	149	159	149	116	66
85	14	52	102	133	143	133	102	52	14	52	102	133	143	133	102	52
90	6	41	89	119	129	119	89	41	6	41	89	119	129	119	89	41
95	3	32	76	105	113	105	76	32	3	32	76	105	113	105	76	32
100	2	25	65	92	100	92	65	25	2	25	65	92	100	92	65	25
105	1	20	54	78	86	78	54	20	1	20	54	78	86	78	54	20
110	1	17	45	66	74	66	45	17	1	17	45	66	74	66	45	17
115	1	13	38	56	63	56	38	13	1	13	38	56	63	56	38	13
120	0	11	32	47	53	47	32	11	0	11	32	47	53	47	32	11
125	0	8	27	41	46	41	27	8	0	8	27	41	46	41	27	8
130	0	6	22	35	39	35	22	6	0	6	22	35	39	35	22	6
135	0	4	18	29	33	29	18	4	0	4	18	29	33	29	18	4
140	0	3	13	23	27	23	13	3	0	3	13	23	27	23	13	3
145	0	2	9	17	20	17	9	2	0	2	9	17	20	17	9	2
150	0	1	6	12	14	12	6	1	0	1	6	12	14	12	6	1
155	0	0	3	7	9	7	3	0	0	0	3	7	9	7	3	0
160	0	0	1	3	5	3	1	0	0	0	1	3	5	3	1	0
165	0	0	0	1	2	1	0	0	0	0	0	1	2	1	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	6273	6273	6273
45	5047	4175	4180
55	4531	3770	3906
65	3930	3438	3688
75	3120	3225	3456
85	2272	3083	3299

**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	1625	1625	1625	1625	1555	1555	1555	1555	1443	1443	1443	1331	1331	1331	1247	1247	1247	1191
1	1443	1359	1275	1219	1373	1303	1233	1177	1205	1149	1107	1107	1065	1023	1037	995	967	925
2	1289	1163	1051	967	1233	1121	1023	939	1037	953	883	953	883	827	883	827	785	743
3	1177	1009	883	785	1121	967	855	757	897	799	729	827	757	687	771	701	645	602
4	1065	883	757	659	1023	855	729	645	799	687	602	729	645	574	687	602	546	504
5	981	785	659	560	939	757	631	546	701	602	518	659	560	490	617	532	476	434
6	897	701	574	476	855	687	560	476	631	532	448	588	504	434	546	476	406	378
7	841	645	518	420	799	617	504	420	574	476	392	532	448	378	504	420	364	336
8	771	574	462	378	743	560	448	364	532	420	350	490	406	336	462	378	322	294
9	729	532	420	336	687	518	406	322	490	378	322	448	364	308	420	350	294	266
10	673	490	378	308	645	476	364	294	448	350	280	420	336	280	392	322	266	238

