

## **Indoor Distribution Test Report**

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

46 Sellers St.  
Kearny, NJ 07032

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

**Catalog Number**  
**SIE-PSW-4-D5-30-80-FWD.5-W**  
(White Housing – Direct – ½” Dropped Lens)

Test Number

**IES-P00104**

Test Date

2017-06-20

The results contained in this report pertain only to the tested sample.  
This report shall not be reproduced, except in full, without written approval of Picasso Lighting Industries, LLC.

<b>Luminaire Description:</b>	Extruded Aluminum Housing, Direct w/ 1/2" Dropped Lens
<b>Lamp:</b>	LED (3000K, 80+ CRI)
<b>Installation:</b>	Suspension from Ceiling, Surface Mounted
<b>Luminous Length:</b>	48.00 in
<b>Luminous Width:</b>	2.31 in
<b>Luminous Height:</b>	0.50 in

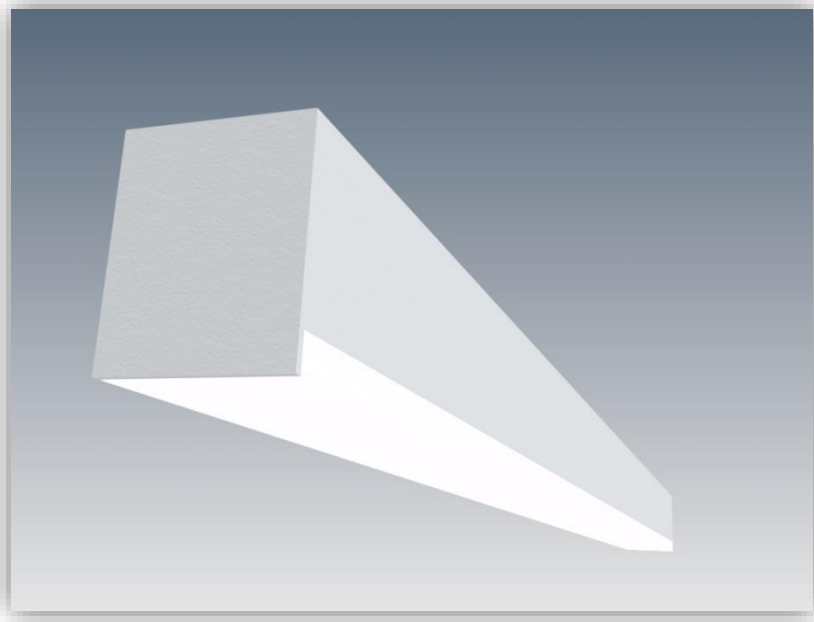


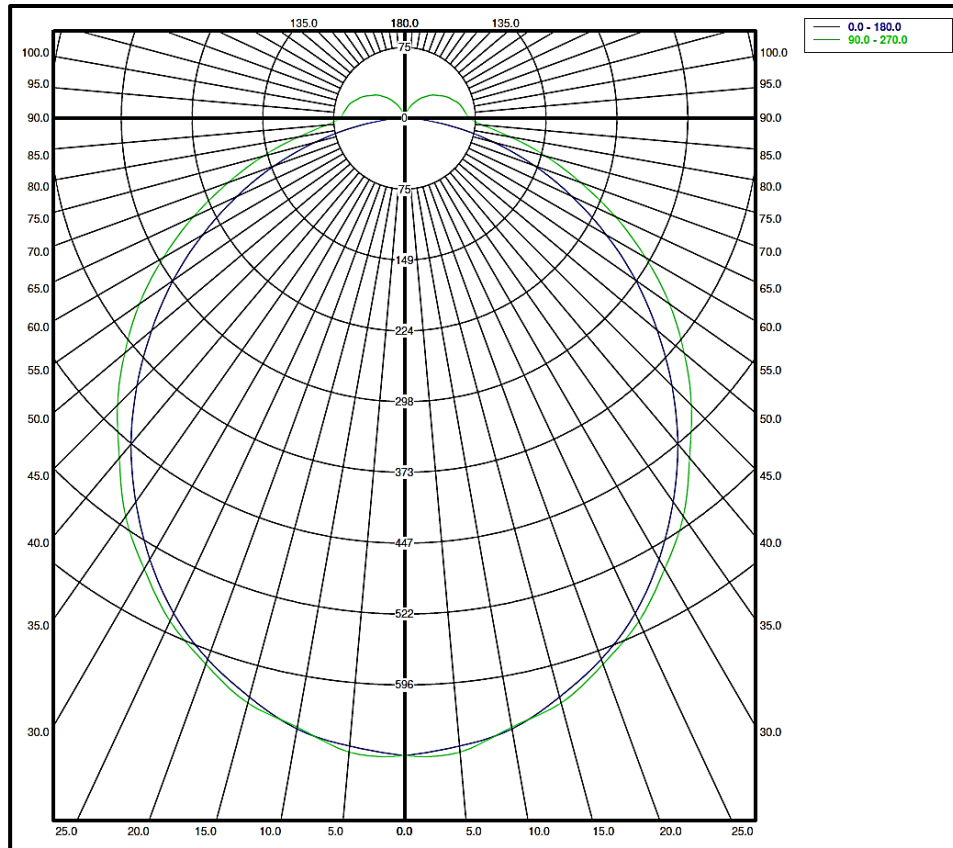
Image may differ slightly from actual unit

#### **Summary of Results**

<b>System Power:</b>	24.8W
<b>Total Luminaire Output:</b>	2004 Lumens
<b>Luminaire Efficacy:</b>	81 lm/W
<b>Max Candela:</b>	670.95 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	63.2	3.2%	90-100	40.17	2.0%
10-20	178.88	8.9%	100-110	34.89	1.7%
20-30	266.77	13.3%	110-120	28.32	1.4%
30-40	314.9	15.7%	120-130	20.95	1.0%
40-50	320.2	16.0%	130-140	13.74	0.7%
50-60	287.19	14.3%	140-150	7.55	0.4%
60-70	221.91	11.1%	150-160	3.02	0.2%
70-80	137.95	6.9%	160-170	0.57	0.0%
80-90	64.21	3.2%	170-180	0.01	0.0%
0-90	1855.21	92.6%	0-180	2004.43	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	671	671	671	671	671	671	671	671	671	671	671	671	671	671	671	671
5	663	669	665	667	670	667	665	669	663	669	665	667	670	667	665	669
10	653	651	654	654	651	654	654	651	653	651	654	654	651	654	654	651
15	631	633	635	635	637	635	635	633	631	633	635	635	637	635	635	633
20	606	608	610	613	611	613	610	608	606	608	610	613	611	613	610	608
25	575	577	578	580	584	580	578	577	575	577	578	580	584	580	578	577
30	536	541	545	548	548	548	545	541	536	541	545	548	548	548	545	541
35	493	499	504	509	512	509	504	499	493	499	504	509	512	509	504	499
40	448	452	461	467	467	467	461	452	448	452	461	467	467	467	461	452
45	398	406	417	423	427	423	417	406	398	406	417	423	427	423	417	406
50	348	358	369	382	385	382	369	358	348	358	369	382	385	382	369	358
55	297	307	322	335	341	335	322	307	297	307	322	335	341	335	322	307
60	246	256	276	289	293	289	276	256	246	256	276	289	293	289	276	256
65	195	207	228	240	245	240	228	207	195	207	228	240	245	240	228	207
70	146	159	179	193	197	193	179	159	146	159	179	193	197	193	179	159
75	97	112	132	149	154	149	132	112	97	112	132	149	154	149	132	112
80	54	68	90	108	114	108	90	68	54	68	90	108	114	108	90	68
85	20	34	57	75	83	75	57	34	20	34	57	75	83	75	57	34
90	4	19	42	61	69	61	42	19	4	19	42	61	69	61	42	19
95	2	16	39	57	64	57	39	16	2	16	39	57	64	57	39	16
100	2	15	37	55	62	55	37	15	2	15	37	55	62	55	37	15
105	1	14	35	53	59	53	35	14	1	14	35	53	59	53	35	14
110	1	13	33	49	55	49	33	13	1	13	33	49	55	49	33	13
115	1	12	30	45	51	45	30	12	1	12	30	45	51	45	30	12
120	1	11	28	42	47	42	28	11	1	11	28	42	47	42	28	11
125	0	9	25	38	42	38	25	9	0	9	25	38	42	38	25	9
130	0	8	22	33	38	33	22	8	0	8	22	33	38	33	22	8
135	0	6	19	29	33	29	19	6	0	6	19	29	33	29	19	6
140	0	5	16	25	28	25	16	5	0	5	16	25	28	25	16	5
145	0	4	13	20	22	20	13	4	0	4	13	20	22	20	13	4
150	0	2	10	16	18	16	10	2	0	2	10	16	18	16	10	2
155	0	1	7	11	13	11	7	1	0	1	7	11	13	11	7	1
160	0	0	3	7	9	7	3	0	0	0	3	7	9	7	3	0
165	0	0	1	3	4	3	1	0	0	0	1	3	4	3	1	0
170	0	0	0	1	1	1	0	0	0	0	0	1	1	1	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/m<sup>2</sup>)

#### Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	9379	9379	9379
45	7789	7098	6939
55	7137	6385	6336
65	6306	5599	5535
75	5057	4459	4602
85	2865	3196	3813

**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	2345	2345	2345	2345	2285	2285	2285	2285	2145	2145	2145	2024	2024	2024	1904	1904	1904	1864
1	2145	2045	1944	1864	2065	1984	1884	1824	1864	1804	1744	1764	1704	1664	1664	1624	1583	1523
2	1944	1764	1624	1523	1864	1724	1583	1483	1624	1523	1423	1543	1443	1363	1463	1383	1323	1263
3	1764	1563	1383	1263	1704	1503	1363	1243	1423	1303	1203	1363	1243	1163	1283	1203	1122	1062
4	1624	1383	1203	1062	1563	1343	1183	1042	1263	1122	1022	1203	1082	982	1143	1042	962	902
5	1483	1223	1042	922	1443	1203	1022	902	1143	1002	882	1082	962	862	1022	922	842	782
6	1383	1102	922	802	1323	1082	922	782	1022	882	762	982	842	762	942	822	742	682
7	1283	1002	822	702	1223	982	822	702	942	782	682	902	762	661	862	742	661	601
8	1183	922	742	621	1143	902	742	621	862	722	601	822	702	601	782	661	581	541
9	1102	842	682	561	1062	822	661	561	782	641	541	762	621	541	722	621	521	501
10	1042	782	621	521	1002	762	601	501	722	601	501	702	581	481	682	561	481	441

