

## **Indoor Distribution Test Report**

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

46 Sellers St.  
Kearny, NJ 07032

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

#### **Catalog Number**

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

(White Housing – Semi-Direct – Frosted Lens)

Test Number

**IES-P00036**

Test Date

2017-02-21

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

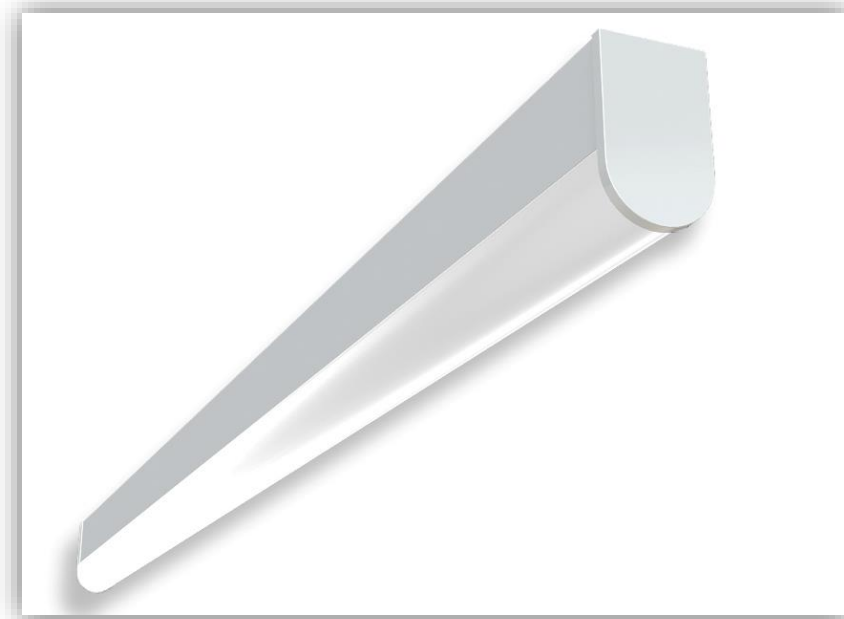


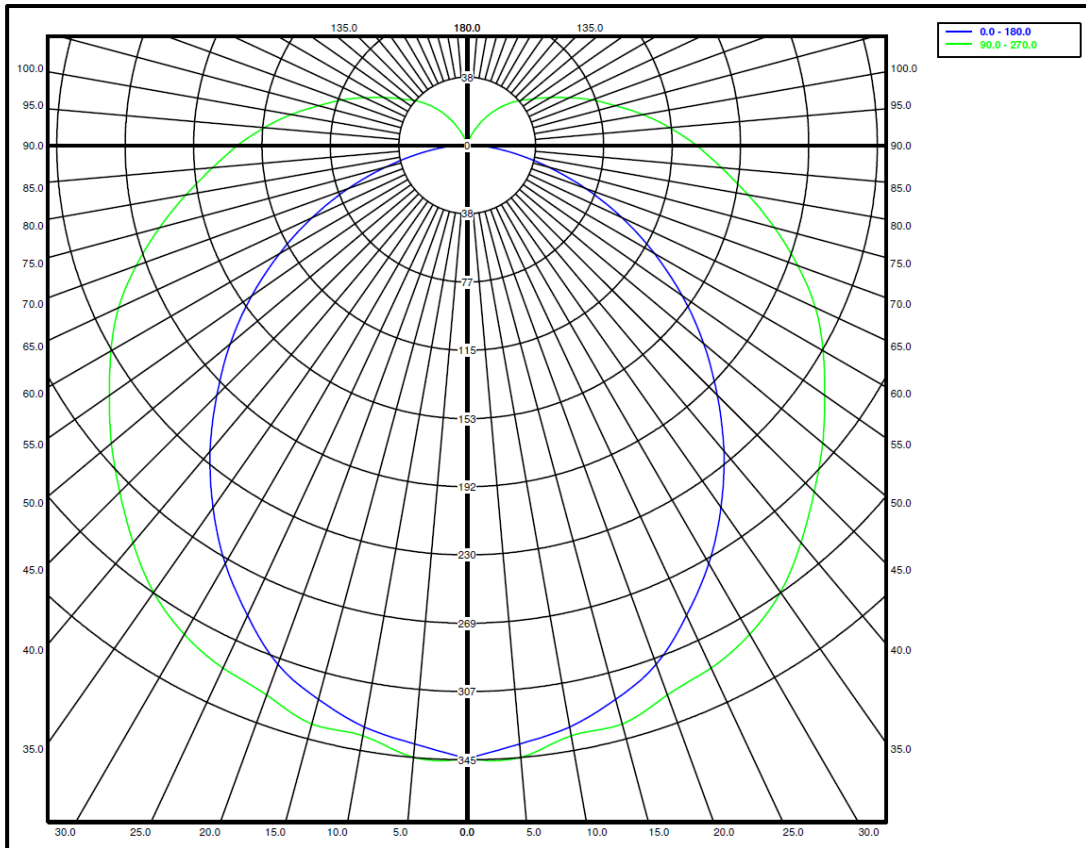
Image may differ slightly from actual unit

#### **Summary of Results**

<b>System Power:</b>	11.5W
<b>Total Luminaire Output:</b>	1411 Lumens
<b>Luminaire Efficacy:</b>	123 lm/W
<b>Max Candela:</b>	345.29 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	32.31	2.3%	90-100	74.81	5.3%
10-20	92.69	6.6%	100-110	52.44	3.7%
20-30	142.16	10.1%	110-120	35.08	2.5%
30-40	174.61	12.4%	120-130	22.54	1.6%
40-50	186.74	13.2%	130-140	13.29	0.9%
50-60	180.72	12.8%	140-150	6.16	0.4%
60-70	161.67	11.5%	150-160	1.86	0.1%
70-80	132.33	9.4%	160-170	0.23	0.0%
80-90	101	7.2%	170-180	0	0.0%
0-90	1204.23	85.4%	0-180	1410.64	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	345	345	345	345	345	345	345	345	345	345	345	345	345	345	345	345
5	338	340	337	341	345	341	337	340	338	340	337	341	345	341	337	340
10	332	334	333	336	337	336	333	334	332	334	333	336	337	336	333	334
15	322	323	328	332	337	332	328	323	322	323	328	332	337	332	328	323
20	310	312	320	327	329	327	320	312	310	312	320	327	329	327	320	312
25	292	296	308	320	324	320	308	296	292	296	308	320	324	320	308	296
30	271	279	296	312	317	312	296	279	271	279	296	312	317	312	296	279
35	249	258	281	299	307	299	281	258	249	258	281	299	307	299	281	258
40	224	238	264	283	292	283	264	238	224	238	264	283	292	283	264	238
45	199	216	246	269	276	269	246	216	199	216	246	269	276	269	246	216
50	174	193	226	250	261	250	226	193	174	193	226	250	261	250	226	193
55	148	170	205	234	245	234	205	170	148	170	205	234	245	234	205	170
60	121	147	187	220	231	220	187	147	121	147	187	220	231	220	187	147
65	96	124	169	203	216	203	169	124	96	124	169	203	216	203	169	124
70	71	103	152	186	198	186	152	103	71	103	152	186	198	186	152	103
75	48	85	134	167	179	167	134	85	48	85	134	167	179	167	134	85
80	28	66	118	150	160	150	118	66	28	66	118	150	160	150	118	66
85	14	53	102	134	143	134	102	53	14	53	102	134	143	134	102	53
90	6	42	89	120	129	120	89	42	6	42	89	120	129	120	89	42
95	3	32	77	105	114	105	77	32	3	32	77	105	114	105	77	32
100	2	25	65	91	100	91	65	25	2	25	65	91	100	91	65	25
105	1	20	54	78	86	78	54	20	1	20	54	78	86	78	54	20
110	1	17	45	67	75	67	45	17	1	17	45	67	75	67	45	17
115	1	14	38	56	63	56	38	14	1	14	38	56	63	56	38	14
120	0	11	33	48	54	48	33	11	0	11	33	48	54	48	33	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	30	33	30	18	4	0	4	18	30	33	30	18	4
140	0	3	13	23	27	23	13	3	0	3	13	23	27	23	13	3
145	0	2	9	17	21	17	9	2	0	2	9	17	21	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	4	3	1	0	0	0	1	3	4	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/m<sup>2</sup>)

#### Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	6376	6376	6376
45	5061	4221	4202
55	4589	3779	3909
65	3979	3477	3726
75	3110	3245	3481
85	2306	3110	3317

**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	1636	1636	1636	1636	1566	1566	1566	1566	1453	1453	1453	1340	1340	1340	1255	1255	1255	1199
1	1453	1368	1284	1227	1382	1312	1241	1185	1213	1157	1100	1114	1072	1030	1030	1002	973	931
2	1298	1171	1058	973	1241	1129	1030	945	1044	959	889	959	889	832	889	832	790	748
3	1185	1016	889	790	1129	973	860	762	903	804	734	832	762	691	776	705	649	607
4	1072	889	762	663	1030	860	734	649	804	691	607	734	649	578	691	607	550	508
5	987	790	663	564	945	762	635	550	705	607	522	663	564	494	621	536	480	437
6	903	705	578	480	860	691	564	480	635	536	451	592	508	437	550	480	409	381
7	846	649	522	423	804	621	508	423	578	480	395	536	451	381	508	423	367	339
8	776	578	466	381	748	564	451	367	536	423	353	494	409	339	466	381	324	296
9	734	536	423	339	691	522	409	324	494	381	324	451	367	310	423	353	296	268
10	677	494	381	310	649	480	367	296	451	353	282	423	339	282	395	324	268	240

