

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

AND-L-4'-D10-30K-80-OPL-W

(White Housing – Semi-Direct – Opal Lens)

Test Number

IES-P00095

Test Date

2017-04-10

The results contained in this report pertain only to the tested sample.
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Luminaire Description:	Extruded Aluminum Housing, Semi-direct w/ Opal Lens
Lamp:	LED (3000K, 80+ CRI)
Installation:	Suspension from Ceiling, Recess & Surface Mount
Luminous Length:	47.13 in
Luminous Width:	1.63 in
Luminous Height:	0.95 in

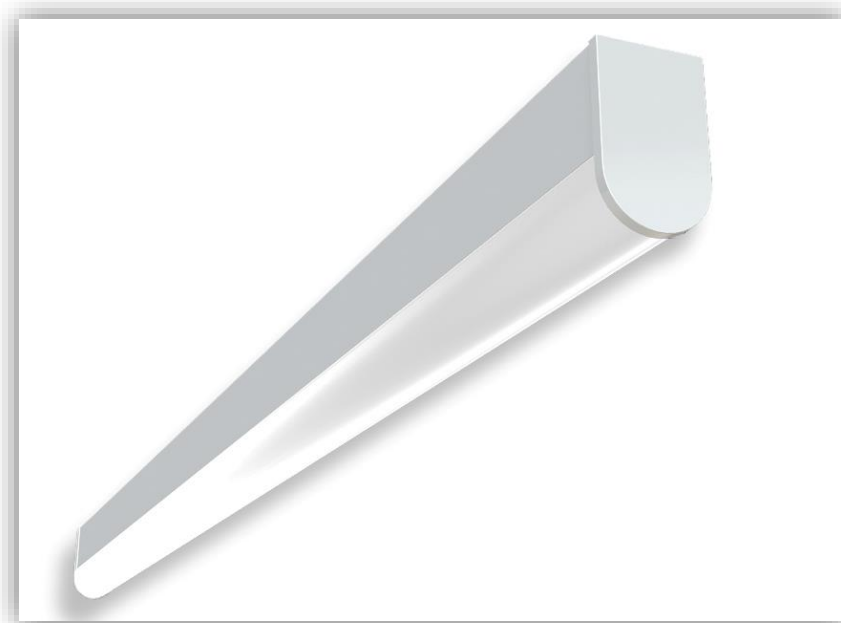


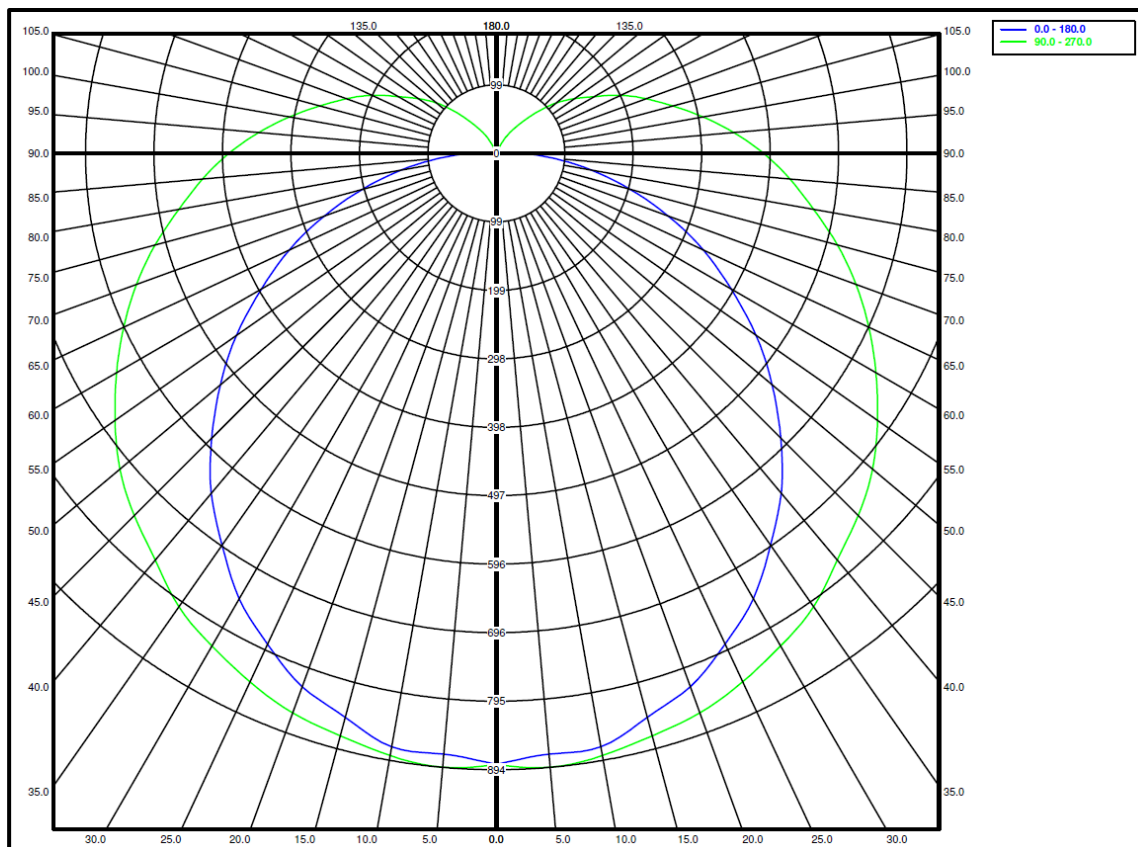
Image may differ slightly from actual unit

Summary of Results

System Power:	36.7W
Total Luminaire Output:	4003 Lumens
Luminaire Efficacy:	109 lm/W
Max Candela:	897.46 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	84.58	2.1%	90-100	231.98	5.8%
10-20	244.45	6.1%	100-110	162.81	4.1%
20-30	376.95	9.4%	110-120	107.19	2.7%
30-40	470.31	11.7%	120-130	63.81	1.6%
40-50	516.07	12.9%	130-140	31.6	0.8%
50-60	514.9	12.9%	140-150	11.43	0.3%
60-70	471.82	11.8%	150-160	1.81	0.0%
70-80	399.41	10.0%	160-170	0.01	0.0%
80-90	313.78	7.8%	170-180	0	0.0%
0-90	3392.27	84.7%	0-180	4002.91	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	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890
5	879	888	887	897	885	897	887	888	879	888	887	897	885	897	887	888
10	873	879	882	888	882	888	882	879	873	879	882	888	882	888	882	879
15	855	852	867	877	877	877	867	852	855	852	867	877	877	877	867	852
20	821	827	846	859	865	859	846	827	821	827	846	859	865	859	846	827
25	786	795	816	836	843	836	816	795	786	795	816	836	843	836	816	795
30	748	760	782	818	837	818	782	760	748	760	782	818	837	818	782	760
35	692	712	751	789	808	789	751	712	692	712	751	789	808	789	751	712
40	645	661	716	756	773	756	716	661	645	661	716	756	773	756	716	661
45	584	613	671	722	746	722	671	613	584	613	671	722	746	722	671	613
50	522	557	627	693	713	693	627	557	522	557	627	693	713	693	627	557
55	460	500	582	650	676	650	582	500	460	500	582	650	676	650	582	500
60	394	442	535	610	635	610	535	442	394	442	535	610	635	610	535	442
65	331	386	490	564	597	564	490	386	331	386	490	564	597	564	490	386
70	264	330	439	525	554	525	439	330	264	330	439	525	554	525	439	330
75	201	276	396	480	513	480	396	276	201	276	396	480	513	480	396	276
80	141	228	352	438	467	438	352	228	141	228	352	438	467	438	352	228
85	85	181	310	398	428	398	310	181	85	181	310	398	428	398	310	181
90	39	145	273	358	390	358	273	145	39	145	273	358	390	358	273	145
95	18	111	235	317	347	317	235	111	18	111	235	317	347	317	235	111
100	9	87	198	277	304	277	198	87	9	87	198	277	304	277	198	87
105	4	68	169	241	267	241	169	68	4	68	169	241	267	241	169	68
110	1	51	141	208	232	208	141	51	1	51	141	208	232	208	141	51
115	0	37	116	176	198	176	116	37	0	37	116	176	198	176	116	37
120	0	26	95	147	166	147	95	26	0	26	95	147	166	147	95	26
125	0	16	74	122	139	122	74	16	0	16	74	122	139	122	74	16
130	0	10	54	99	112	99	54	10	0	10	54	99	112	99	54	10
135	0	5	39	73	87	73	39	5	0	5	39	73	87	73	39	5
140	0	1	26	51	62	51	26	1	0	1	26	51	62	51	26	1
145	0	0	13	35	43	35	13	0	0	0	13	35	43	35	13	0
150	0	0	4	20	27	20	4	0	0	0	4	20	27	20	4	0
155	0	0	0	5	9	5	0	0	0	0	0	5	9	5	0	0
160	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	17967	17967	17967
45	16309	13403	13441
55	15698	12720	12971
65	15129	12200	12658
75	14575	11907	12572
85	15982	12207	12921

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	4603	4603	4603	4603	4443	4443	4443	4443	4123	4123	4123	3803	3803	3803	3523	3523	3523	3402
1	4083	3843	3603	3443	3923	3683	3483	3322	3402	3242	3082	3122	3002	2882	2882	2802	2682	2562
2	3683	3282	2962	2682	3483	3162	2842	2602	2922	2682	2442	2682	2482	2322	2482	2322	2162	2041
3	3322	2842	2482	2202	3162	2722	2402	2122	2522	2242	2001	2322	2082	1881	2162	1961	1801	1681
4	3002	2482	2122	1801	2882	2402	2041	1761	2202	1921	1681	2041	1801	1601	1881	1681	1521	1401
5	2762	2202	1841	1561	2642	2122	1761	1521	1961	1681	1441	1841	1561	1361	1681	1481	1281	1201
6	2562	1961	1601	1321	2442	1921	1561	1321	1761	1481	1241	1641	1401	1201	1521	1321	1121	1041
7	2362	1801	1441	1161	2242	1721	1401	1121	1601	1321	1081	1481	1241	1041	1401	1161	1001	881
8	2202	1641	1281	1041	2082	1561	1241	1001	1481	1161	961	1361	1121	921	1281	1041	881	801
9	2041	1481	1161	921	1961	1441	1121	881	1361	1081	881	1241	1001	841	1161	961	801	721
10	1921	1361	1041	841	1841	1321	1001	801	1241	961	761	1161	921	761	1081	881	721	640

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	25 fc	28 ft
8 ft	14 fc	38 ft
10 ft	9 fc	47 ft
12 ft	6 fc	56 ft
15 ft	4 fc	70 ft

