

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number
AND-L-4'-D5-30K-80-OPL-W
(White Housing – Semi-Direct – Opal Lens)

Test Number

IES-P00093

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

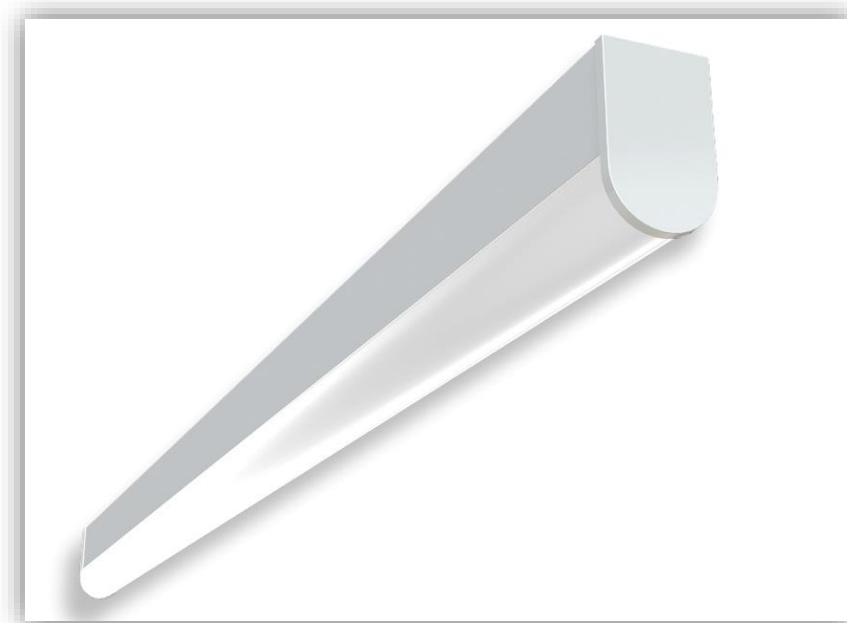


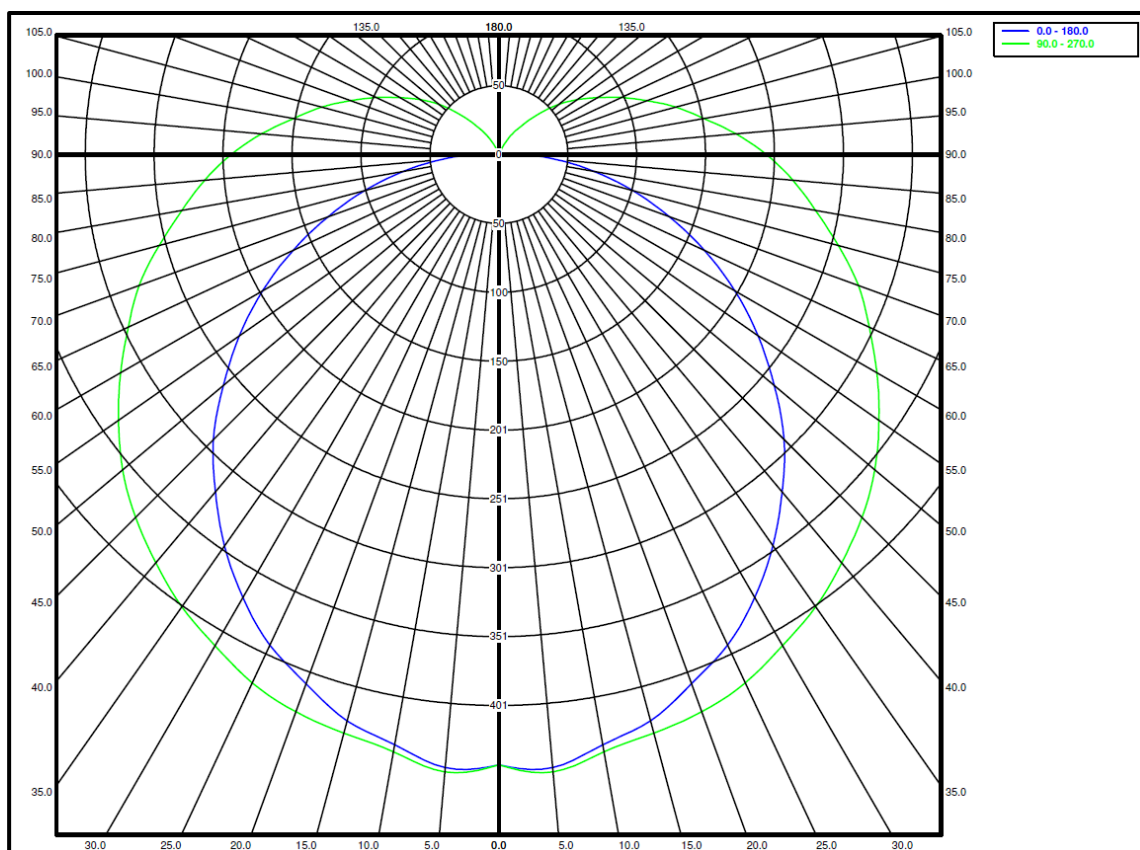
Image may differ slightly from actual unit

Summary of Results

System Power:	17.5W
Total Luminaire Output:	2001 Lumens
Luminaire Efficacy:	114 lm/W
Max Candela:	452.27 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	42.36	2.1%	90-100	116.06	5.8%
10-20	122.1	6.1%	100-110	81.39	4.1%
20-30	188.48	9.4%	110-120	53.54	2.7%
30-40	235.24	11.8%	120-130	31.9	1.6%
40-50	257.94	12.9%	130-140	15.79	0.8%
50-60	257.72	12.9%	140-150	5.7	0.3%
60-70	235.6	11.8%	150-160	0.91	0.0%
70-80	199.62	10.0%	160-170	0.01	0.0%
80-90	157	7.8%	170-180	0	0.0%
0-90	1696.06	84.7%	0-180	2001.36	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	451	451	451	451	451	451	451	451	451	451	451	451	451	451	451	451
5	447	445	443	444	452	444	443	445	447	445	443	444	452	444	443	445
10	436	437	438	444	443	444	438	437	436	437	438	444	443	444	438	437
15	426	427	431	439	442	439	431	427	426	427	431	439	442	439	431	427
20	410	413	422	430	430	430	422	413	410	413	422	430	430	430	422	413
25	393	398	408	419	425	419	408	398	393	398	408	419	425	419	408	398
30	372	378	393	408	415	408	393	378	372	378	393	408	415	408	393	378
35	347	357	378	395	402	395	378	357	347	357	378	395	402	395	378	357
40	320	332	357	378	387	378	357	332	320	332	357	378	387	378	357	332
45	291	306	337	362	370	362	337	306	291	306	337	362	370	362	337	306
50	261	279	313	343	358	343	313	279	261	279	313	343	358	343	313	279
55	231	251	292	326	338	326	292	251	231	251	292	326	338	326	292	251
60	198	221	268	304	317	304	268	221	198	221	268	304	317	304	268	221
65	165	193	244	282	296	282	244	193	165	193	244	282	296	282	244	193
70	131	165	221	262	277	262	221	165	131	165	221	262	277	262	221	165
75	101	138	197	240	256	240	197	138	101	138	197	240	256	240	197	138
80	70	114	176	220	235	220	176	114	70	114	176	220	235	220	176	114
85	43	91	155	198	215	198	155	91	43	91	155	198	215	198	155	91
90	20	72	137	180	195	180	137	72	20	72	137	180	195	180	137	72
95	9	56	118	158	173	158	118	56	9	56	118	158	173	158	118	56
100	4	44	100	139	152	139	100	44	4	44	100	139	152	139	100	44
105	2	34	84	120	133	120	84	34	2	34	84	120	133	120	84	34
110	1	25	70	104	116	104	70	25	1	25	70	104	116	104	70	25
115	0	19	58	88	98	88	58	19	0	19	58	88	98	88	58	19
120	0	13	48	74	82	74	48	13	0	13	48	74	82	74	48	13
125	0	9	37	61	70	61	37	9	0	9	37	61	70	61	37	9
130	0	5	27	49	56	49	27	5	0	5	27	49	56	49	27	5
135	0	2	19	36	43	36	19	2	0	2	19	36	43	36	19	2
140	0	1	13	26	31	26	13	1	0	1	13	26	31	26	13	1
145	0	0	7	17	21	17	7	0	0	0	7	17	21	17	7	0
150	0	0	2	10	13	10	2	0	0	0	2	10	13	10	2	0
155	0	0	0	3	5	3	0	0	0	0	0	3	5	3	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	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	9102	9102	9102
45	8143	6727	6670
55	7879	6376	6490
65	7543	6070	6280
75	7308	5934	6283
85	8027	6098	6484

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	2302	2302	2302	2302	2222	2222	2222	2222	2061	2061	2061	1901	1901	1901	1761	1761	1761	1701
1	2041	1921	1821	1721	1961	1841	1741	1661	1701	1621	1541	1561	1501	1441	1441	1401	1341	1281
2	1841	1641	1481	1341	1741	1581	1421	1301	1461	1341	1221	1341	1241	1161	1241	1161	1081	1021
3	1661	1421	1241	1101	1581	1361	1201	1061	1261	1121	1001	1161	1041	941	1081	981	901	841
4	1501	1241	1061	901	1441	1201	1021	881	1101	961	841	1021	901	801	941	841	761	700
5	1381	1101	921	781	1321	1061	881	761	981	841	720	921	781	680	841	741	640	600
6	1281	1001	801	660	1221	961	781	660	881	741	620	821	700	600	761	660	560	520
7	1181	901	720	580	1121	861	700	560	801	660	540	741	620	520	700	580	500	440
8	1101	821	640	520	1041	781	620	500	741	580	480	680	560	460	640	520	440	400
9	1021	741	580	460	981	720	560	440	680	540	440	620	500	420	580	480	400	360
10	961	680	520	420	921	660	500	400	620	480	380	580	460	380	540	440	360	320

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	13 fc	29 ft
8 ft	7 fc	39 ft
10 ft	5 fc	48 ft
12 ft	3 fc	58 ft
15 ft	2 fc	73 ft

