

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number
AND-L-4'-D7-30K-80-OPL-W
(White Housing – Semi-Direct – Opal Lens)

Test Number

IES-P00094

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

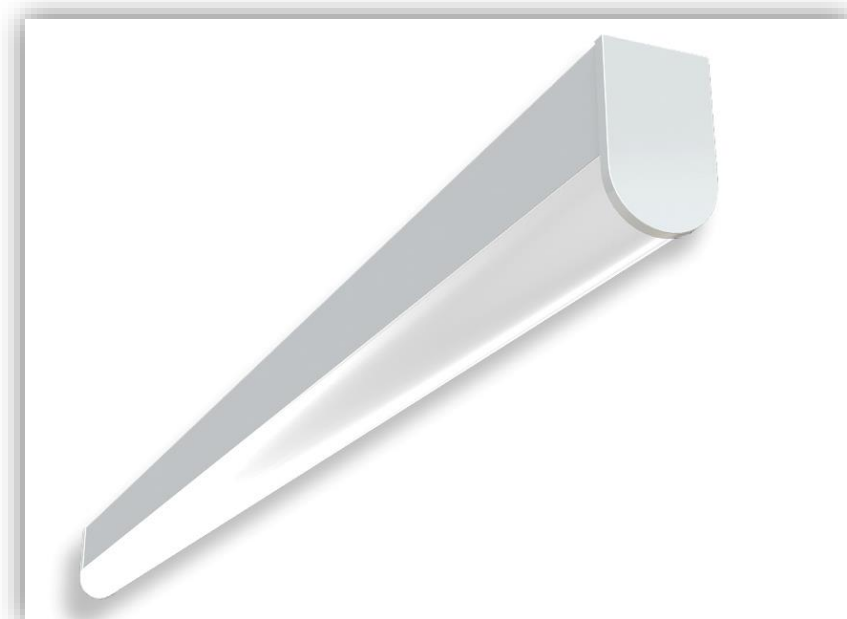


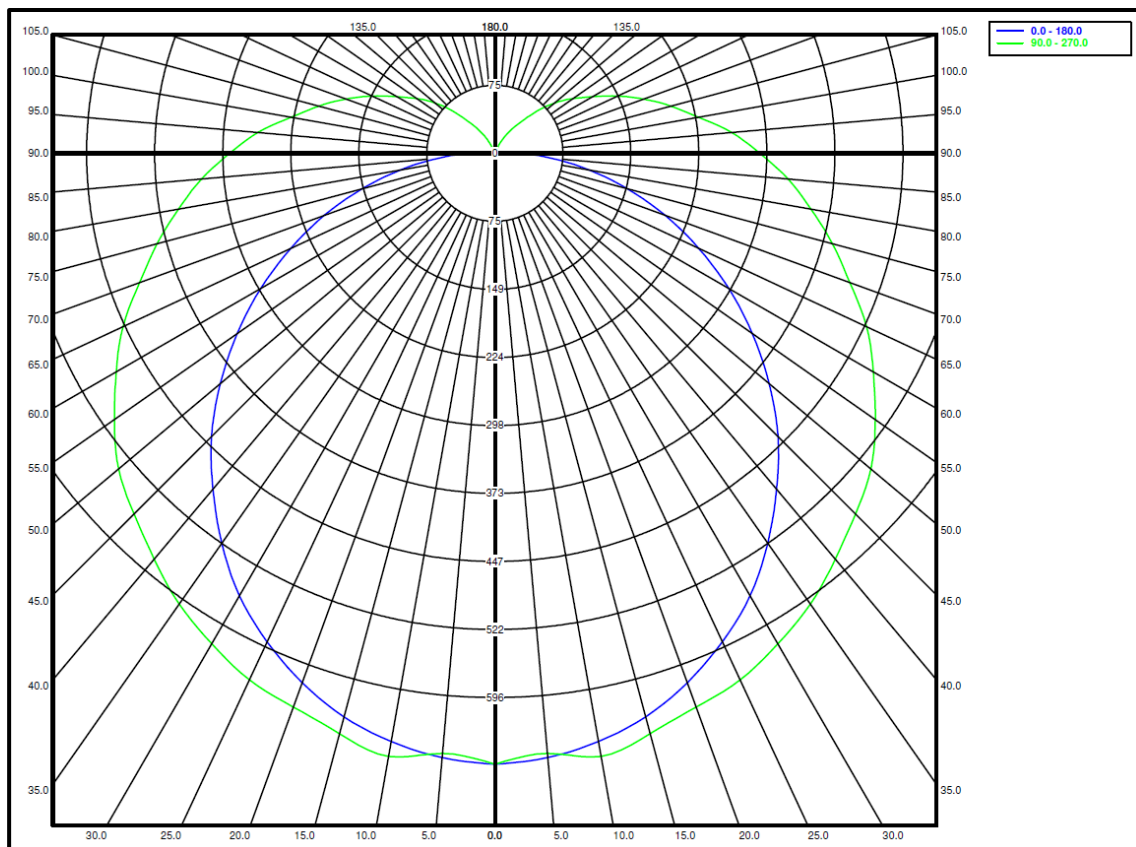
Image may differ slightly from actual unit

Summary of Results

System Power:	26.8W
Total Luminaire Output:	3002 Lumens
Luminaire Efficacy:	112 lm/W
Max Candela:	669.45 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	63.32	2.1%	90-100	173.84	5.8%
10-20	183.37	6.1%	100-110	121.91	4.1%
20-30	282.9	9.4%	110-120	80.34	2.7%
30-40	352.4	11.7%	120-130	47.87	1.6%
40-50	386.94	12.9%	130-140	23.76	0.8%
50-60	386.21	12.9%	140-150	8.56	0.3%
60-70	354.07	11.8%	150-160	1.35	0.0%
70-80	299.65	10.0%	160-170	0.01	0.0%
80-90	235.31	7.8%	170-180	0	0.0%
0-90	2544.17	84.8%	0-180	3001.81	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	665	665	665	665	665	665	665	665	665	665	665	665	665	665	665	665
5	661	669	661	669	667	669	661	669	661	669	661	669	667	669	661	669
10	661	661	657	663	657	663	657	661	661	661	657	663	657	663	657	661
15	639	642	651	658	658	658	651	642	639	642	651	658	658	658	651	642
20	613	623	633	644	647	644	633	623	613	623	633	644	647	644	633	623
25	587	598	614	630	634	630	614	598	587	598	614	630	634	630	614	598
30	554	566	590	615	621	615	590	566	554	566	590	615	621	615	590	566
35	520	534	562	592	601	592	562	534	520	534	562	592	601	592	562	534
40	484	500	534	567	579	567	534	500	484	500	534	567	579	567	534	500
45	437	459	502	543	558	543	502	459	437	459	502	543	558	543	502	459
50	392	418	470	518	536	518	470	418	392	418	470	518	536	518	470	418
55	343	375	436	487	510	487	436	375	343	375	436	487	510	487	436	375
60	297	333	402	457	475	457	402	333	297	333	402	457	475	457	402	333
65	248	291	364	425	447	425	364	291	248	291	364	425	447	425	364	291
70	200	248	331	393	417	393	331	248	200	248	331	393	417	393	331	248
75	151	208	297	360	384	360	297	208	151	208	297	360	384	360	297	208
80	106	169	264	328	352	328	264	169	106	169	264	328	352	328	264	169
85	64	136	233	298	321	298	233	136	64	136	233	298	321	298	233	136
90	30	109	205	269	292	269	205	109	30	109	205	269	292	269	205	109
95	13	84	176	237	261	237	176	84	13	84	176	237	261	237	176	84
100	6	65	150	206	228	206	150	65	6	65	150	206	228	206	150	65
105	3	51	127	180	200	180	127	51	3	51	127	180	200	180	127	51
110	1	38	106	156	172	156	106	38	1	38	106	156	172	156	106	38
115	0	28	87	132	149	132	87	28	0	28	87	132	149	132	87	28
120	0	19	71	110	124	110	71	19	0	19	71	110	124	110	71	19
125	0	13	56	92	104	92	56	13	0	13	56	92	104	92	56	13
130	0	7	41	74	85	74	41	7	0	7	41	74	85	74	41	7
135	0	4	29	55	66	55	29	4	0	4	29	55	66	55	29	4
140	0	1	20	38	46	38	20	1	0	1	20	38	46	38	20	1
145	0	0	10	26	32	26	10	0	0	0	10	26	32	26	10	0
150	0	0	3	15	20	15	3	0	0	0	3	15	20	15	3	0
155	0	0	0	4	8	4	0	0	0	0	0	4	8	4	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	13414	13414	13414
45	12218	10036	10044
55	11710	9518	9773
65	11340	9070	9470
75	10930	8923	9414
85	12000	9159	9698

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	3452	3452	3452	3452	3332	3332	3332	3332	3092	3092	3092	2852	2852	2852	2642	2642	2642	2552
1	3062	2882	2702	2582	2942	2762	2612	2492	2552	2431	2311	2341	2251	2161	2161	2101	2011	1921
2	2762	2461	2221	2011	2612	2371	2131	1951	2191	2011	1831	2011	1861	1741	1861	1741	1621	1531
3	2492	2131	1861	1651	2371	2041	1801	1591	1891	1681	1501	1741	1561	1411	1621	1471	1351	1261
4	2251	1861	1591	1351	2161	1801	1531	1321	1651	1441	1261	1531	1351	1201	1411	1261	1141	1051
5	2071	1651	1381	1171	1981	1591	1321	1141	1471	1261	1081	1381	1171	1021	1261	1111	961	901
6	1921	1471	1201	991	1831	1441	1171	991	1321	1111	931	1231	1051	901	1141	991	841	780
7	1771	1351	1051	871	1681	1291	1051	841	1201	991	810	1111	931	780	1051	871	750	660
8	1651	1231	961	780	1561	1171	931	750	1111	871	720	1021	841	690	961	780	660	600
9	1531	1111	871	690	1471	1081	841	660	1021	810	660	931	750	630	871	720	600	540
10	1441	1021	780	630	1381	991	750	600	931	720	570	871	690	570	810	660	540	480

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	18 fc	28 ft
8 ft	10 fc	37 ft
10 ft	7 fc	46 ft
12 ft	5 fc	56 ft
15 ft	3 fc	70 ft

