

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

AND-L-4'-D3-30K-80-OPL-W

(White Housing – Semi-Direct – Opal Lens)

Test Number

IES-P00092

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

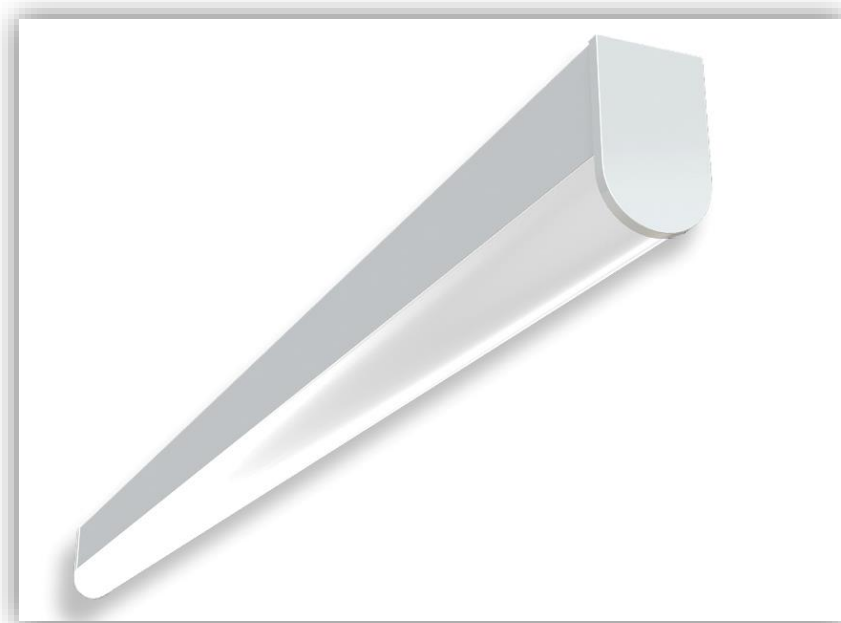


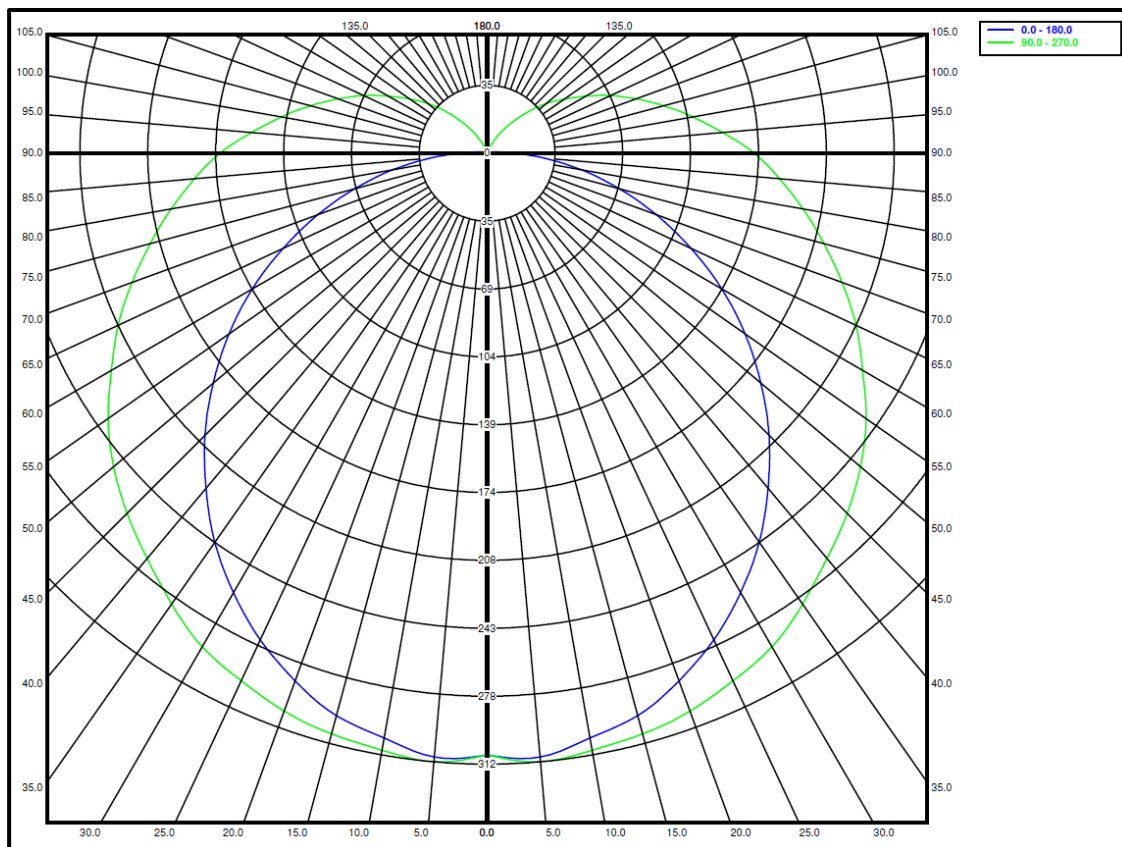
Image may differ slightly from actual unit

Summary of Results

System Power:	12.1W
Total Luminaire Output:	1401 Lumens
Luminaire Efficacy:	115 lm/W
Max Candela:	314.02 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	29.63	2.1%	90-100	81.03	5.8%
10-20	85.54	6.1%	100-110	56.89	4.1%
20-30	132.08	9.4%	110-120	37.45	2.7%
30-40	164.7	11.8%	120-130	22.31	1.6%
40-50	180.59	12.9%	130-140	11.04	0.8%
50-60	180.51	12.9%	140-150	3.97	0.3%
60-70	165.21	11.8%	150-160	0.63	0.0%
70-80	139.81	10.0%	160-170	0	0.0%
80-90	109.8	7.8%	170-180	0	0.0%
0-90	1187.87	84.8%	0-180	1401.19	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	312	312	312	312	312	312	312	312	312	312	312	312	312	312	312	312
5	310	310	312	313	314	313	312	310	310	310	312	313	314	313	312	310
10	308	306	308	310	311	310	308	306	308	306	308	310	311	310	308	306
15	297	299	303	306	307	306	303	299	297	299	303	306	307	306	303	299
20	289	291	293	301	303	301	293	291	289	291	293	301	303	301	293	291
25	277	279	286	294	296	294	286	279	277	279	286	294	296	294	286	279
30	260	265	276	285	291	285	276	265	260	265	276	285	291	285	276	265
35	242	250	264	277	281	277	264	250	242	250	264	277	281	277	264	250
40	226	232	251	265	271	265	251	232	226	232	251	265	271	265	251	232
45	204	214	235	253	260	253	235	214	204	214	235	253	260	253	235	214
50	183	195	219	241	250	241	219	195	183	195	219	241	250	241	219	195
55	161	176	204	229	236	229	204	176	161	176	204	229	236	229	204	176
60	138	155	188	213	222	213	188	155	138	155	188	213	222	213	188	155
65	116	135	170	198	208	198	170	135	116	135	170	198	208	198	170	135
70	92	116	155	184	194	184	155	116	92	116	155	184	194	184	155	116
75	70	97	138	169	179	169	138	97	70	97	138	169	179	169	138	97
80	49	79	123	153	163	153	123	79	49	79	123	153	163	153	123	79
85	30	64	108	139	150	139	108	64	30	64	108	139	150	139	108	64
90	14	51	95	125	136	125	95	51	14	51	95	125	136	125	95	51
95	6	39	82	111	121	111	82	39	6	39	82	111	121	111	82	39
100	3	30	70	97	106	97	70	30	3	30	70	97	106	97	70	30
105	1	23	59	84	92	84	59	23	1	23	59	84	92	84	59	23
110	0	18	49	73	81	73	49	18	0	18	49	73	81	73	49	18
115	0	13	41	61	70	61	41	13	0	13	41	61	70	61	41	13
120	0	9	33	51	58	51	33	9	0	9	33	51	58	51	33	9
125	0	6	26	43	49	43	26	6	0	6	26	43	49	43	26	6
130	0	3	19	34	40	34	19	3	0	3	19	34	40	34	19	3
135	0	2	14	25	31	25	14	2	0	2	14	25	31	25	14	2
140	0	0	9	18	21	18	9	0	0	0	9	18	21	18	9	0
145	0	0	5	12	15	12	5	0	0	0	5	12	15	12	5	0
150	0	0	1	7	9	7	1	0	0	0	1	7	9	7	1	0
155	0	0	0	2	3	2	0	0	0	0	0	2	3	2	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	6292	6292	6292
45	5707	4693	4679
55	5488	4464	4530
65	5306	4248	4410
75	5081	4147	4379
85	5602	4268	4542

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	1611	1611	1611	1611	1555	1555	1555	1555	1443	1443	1443	1331	1331	1331	1233	1233	1233	1191
1	1429	1345	1275	1205	1373	1289	1219	1163	1191	1135	1079	1093	1051	1009	1009	981	939	897
2	1289	1149	1037	939	1219	1107	995	911	1023	939	855	939	869	813	869	813	757	715
3	1163	995	869	771	1107	953	841	743	883	785	701	813	729	659	757	687	631	588
4	1051	869	743	631	1009	841	715	617	771	673	588	715	631	560	659	588	532	490
5	967	771	645	546	925	743	617	532	687	588	504	645	546	476	588	518	448	420
6	897	701	560	462	855	673	546	462	617	518	434	574	490	420	532	462	392	364
7	827	631	504	406	785	603	490	392	560	462	378	518	434	364	490	406	350	308
8	771	574	448	364	729	546	434	350	518	406	336	476	392	322	448	364	308	280
9	715	518	406	322	687	504	392	308	476	378	308	434	350	294	406	336	280	252
10	673	476	364	294	645	462	350	280	434	336	266	406	322	266	378	308	252	224

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	9 fc	28 ft
8 ft	5 fc	38 ft
10 ft	3 fc	47 ft
12 ft	2 fc	56 ft
15 ft	1 fc	70 ft

