

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number
CAT-L-4'-D3-30K-80-OPL
(Aluminum Housing – Direct – Opal Lens)

Test Number

IES-P00090

Test Date

2017-03-27

The results contained in this report pertain only to the tested sample.
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Luminaire Description:	Extruded Aluminum Housing, Direct w/ Opal Lens
Lamp:	LED (3000K, 80+ CRI)
Installation:	Under Cabinet, Surface Mounted
Luminous Length:	47.63 in
Luminous Width:	0.81 in
Luminous Height:	0.00 in

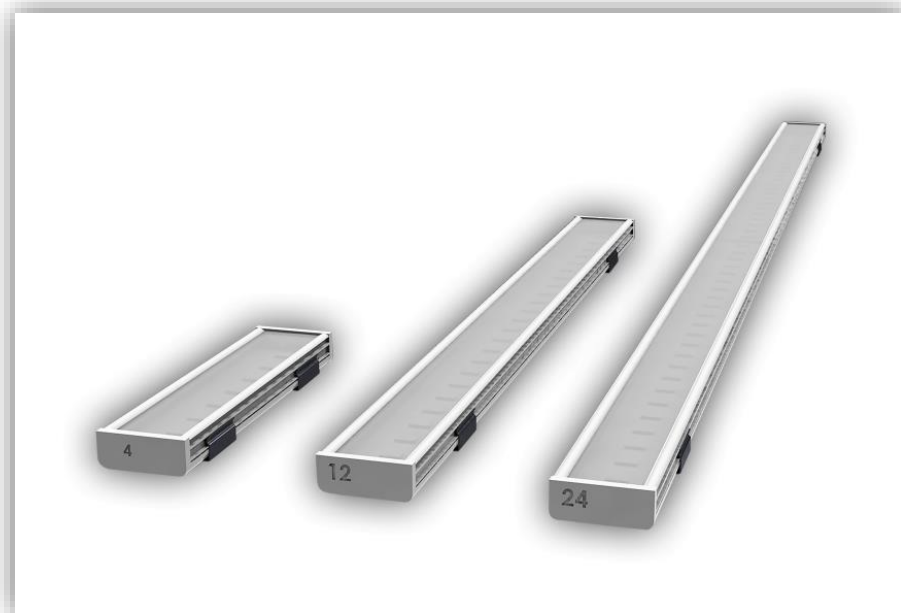


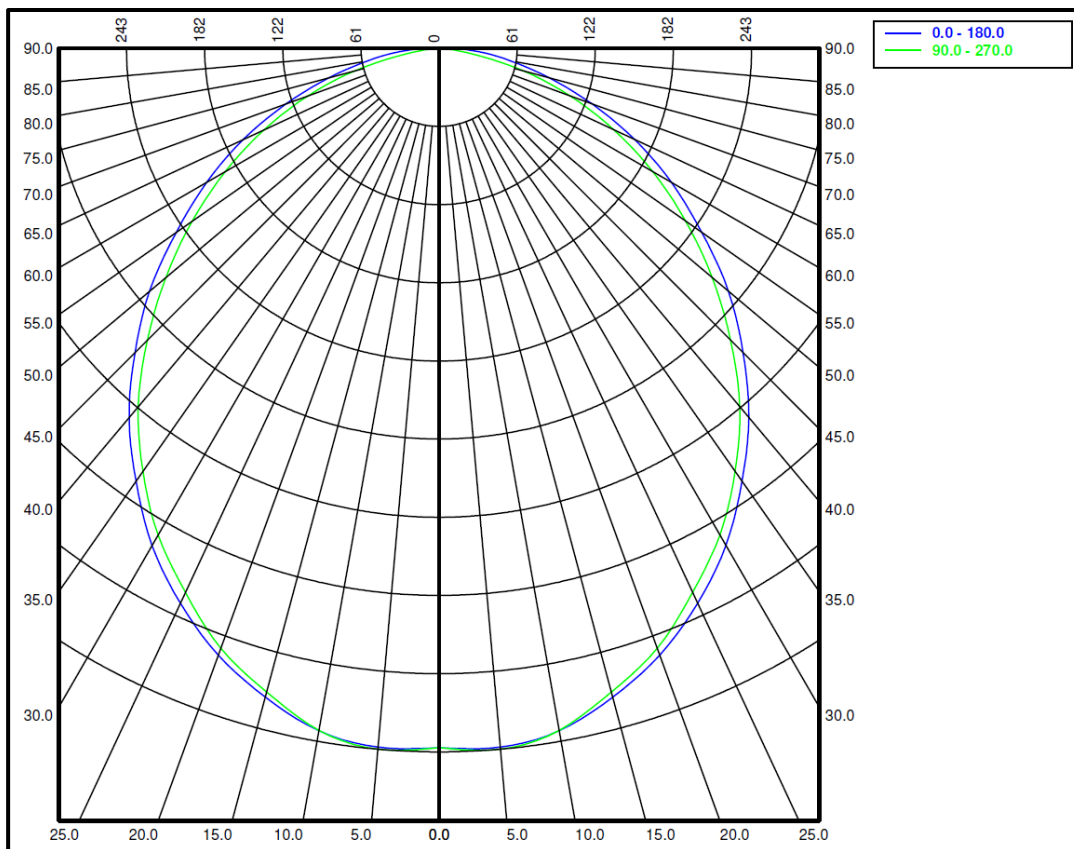
Image may differ slightly from actual unit

Summary of Results

System Power:	27.1W
Total Luminaire Output:	1402 Lumens
Luminaire Efficacy:	52 lm/W
Max Candela:	547.17 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	51.84	3.7%	90-100	0	0.0%
10-20	146.91	10.5%	100-110	0	0.0%
20-30	217.08	15.5%	110-120	0	0.0%
30-40	254.05	18.1%	120-130	0	0.0%
40-50	253.12	18.1%	130-140	0	0.0%
50-60	216.99	15.5%	140-150	0	0.0%
60-70	157.99	11.3%	150-160	0	0.0%
70-80	84.33	6.0%	160-170	0	0.0%
80-90	19.62	1.4%	170-180	0	0.0%
0-90	1401.93	100.0%	0-180	1401.93	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	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544	544
5	545	546	547	547	547	547	547	546	545	546	547	547	547	547	547	546
10	539	539	538	538	539	538	538	539	539	539	538	538	539	538	538	539
15	522	523	521	521	518	521	521	523	522	523	521	521	518	521	521	523
20	502	501	499	495	497	495	499	501	502	501	499	495	497	495	499	501
25	476	474	471	468	467	468	471	474	476	474	471	468	467	468	471	474
30	446	444	440	437	437	437	440	444	446	444	440	437	437	437	440	444
35	411	410	406	403	402	403	406	410	411	410	406	403	402	403	406	410
40	375	373	368	366	364	366	368	373	375	373	368	366	364	366	368	373
45	335	332	329	324	321	324	329	332	335	332	329	324	321	324	329	332
50	294	290	287	280	278	280	287	290	294	290	287	280	278	280	287	290
55	250	247	243	235	234	235	243	247	250	247	243	235	234	235	243	247
60	209	207	201	195	192	195	201	207	209	207	201	195	192	195	201	207
65	168	166	160	154	150	154	160	166	168	166	160	154	150	154	160	166
70	127	125	119	112	109	112	119	125	127	125	119	112	109	112	119	125
75	88	87	80	72	67	72	80	87	88	87	80	72	67	72	80	87
80	56	54	44	32	28	32	44	54	56	54	44	32	28	32	44	54
85	31	23	9	5	5	5	9	23	31	23	9	5	5	5	9	23
90	7	1	0	0	0	0	0	1	7	1	0	0	0	0	0	1

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	21846	21846	21846
45	18989	18672	18213
55	17468	16972	16402
65	15965	15188	14281
75	13709	12466	10453
85	14175	4324	2211

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	1668	1668	1668	1668	1626	1626	1626	1626	1556	1556	1556	1486	1486	1486	1430	1430	1430	1402
1	1528	1472	1416	1360	1500	1430	1388	1332	1374	1332	1290	1318	1290	1248	1276	1248	1220	1192
2	1402	1290	1192	1122	1360	1262	1178	1108	1206	1136	1079	1164	1108	1051	1122	1065	1023	995
3	1276	1136	1023	939	1248	1108	1009	925	1065	981	911	1037	953	897	995	925	883	841
4	1178	1009	883	799	1136	995	869	785	953	855	785	925	841	771	897	813	757	729
5	1079	897	785	687	1051	883	771	687	855	757	673	827	743	673	799	729	659	631
6	995	813	687	603	967	799	687	603	771	673	589	757	659	589	729	645	589	561
7	925	743	617	533	897	729	617	533	701	603	533	687	589	519	673	589	519	491
8	869	673	561	477	841	673	561	477	645	547	477	631	533	477	617	533	463	435
9	813	617	505	435	785	617	505	435	603	491	435	589	491	421	575	491	421	393
10	757	575	463	393	743	561	463	393	547	463	393	547	449	393	533	449	393	365

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	15 fc	16 ft
8 ft	8 fc	22 ft
10 ft	5 fc	27 ft
12 ft	4 fc	32 ft
15 ft	2 fc	40 ft

