

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number
CAT-L-4'-D2-30K-80-OPL
(Aluminum Housing – Direct – Opal Lens)

Test Number

IES-P00089

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

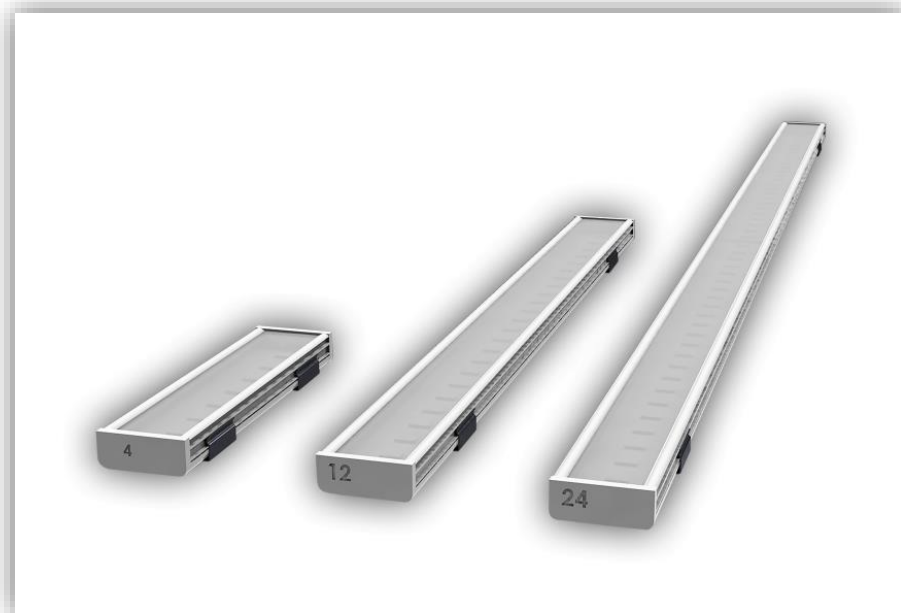


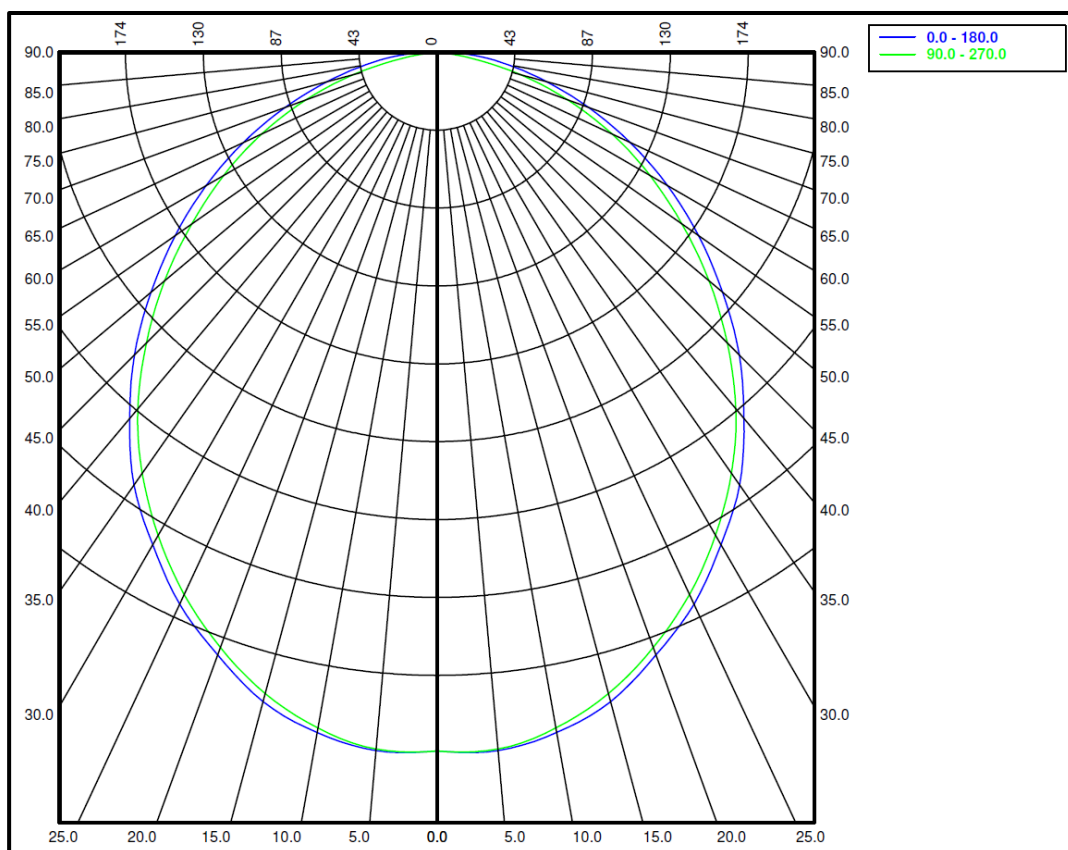
Image may differ slightly from actual unit

Summary of Results

System Power:	19.0W
Total Luminaire Output:	1001 Lumens
Luminaire Efficacy:	53 lm/W
Max Candela:	392.24 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	37.03	3.7%	90-100	0	0.0%
10-20	105.01	10.5%	100-110	0	0.0%
20-30	154.98	15.5%	110-120	0	0.0%
30-40	181.45	18.1%	120-130	0	0.0%
40-50	180.7	18.0%	130-140	0	0.0%
50-60	155.12	15.5%	140-150	0	0.0%
60-70	112.79	11.3%	150-160	0	0.0%
70-80	60.32	6.0%	160-170	0	0.0%
80-90	14.03	1.4%	170-180	0	0.0%
0-90	1001.43	100.0%	0-180	1001.43	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	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390
5	391	390	392	389	391	389	392	390	391	390	392	389	391	389	392	390
10	386	384	384	384	383	384	384	384	386	384	384	384	383	384	384	384
15	375	375	372	372	371	372	372	375	375	375	372	372	371	372	372	375
20	358	358	357	355	354	355	357	358	358	358	357	355	354	355	357	358
25	340	338	336	334	334	334	336	338	340	338	336	334	334	334	336	338
30	318	317	314	312	311	312	314	317	318	317	314	312	311	312	314	317
35	295	293	290	288	287	288	290	293	295	293	290	288	287	288	290	293
40	267	266	263	261	260	261	263	266	267	266	263	261	260	261	263	266
45	239	237	234	232	230	232	234	237	239	237	234	232	230	232	234	237
50	208	207	205	200	199	200	205	207	208	207	205	200	199	200	205	207
55	179	177	174	169	167	169	174	177	179	177	174	169	167	169	174	177
60	149	148	143	139	138	139	143	148	149	148	143	139	138	139	143	148
65	119	118	114	110	108	110	114	118	119	118	114	110	108	110	114	118
70	90	89	85	80	78	80	85	89	90	89	85	80	78	80	85	89
75	63	62	57	51	48	51	57	62	63	62	57	51	48	51	57	62
80	40	39	32	23	20	23	32	39	40	39	32	23	20	23	32	39
85	22	17	7	4	3	4	7	17	22	17	7	4	3	4	7	17
90	5	1	0	0	0	0	0	1	5	1	0	0	0	0	0	1

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	15673	15673	15673
45	13564	13288	13030
55	12493	12151	11703
65	11330	10814	10268
75	9845	8913	7463
85	9994	3109	1589

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	1192	1192	1192	1192	1162	1162	1162	1162	1112	1112	1112	1062	1062	1062	1021	1021	1021	1001
1	1092	1052	1011	971	1072	1021	991	951	981	951	921	941	921	891	911	891	871	851
2	1001	921	851	801	971	901	841	791	861	811	771	831	791	751	801	761	731	711
3	911	811	731	671	891	791	721	661	761	701	651	741	681	641	711	661	631	601
4	841	721	631	571	811	711	631	561	681	611	561	661	601	551	641	581	541	521
5	771	641	561	491	751	631	551	491	611	541	481	591	531	481	571	521	471	451
6	711	581	491	431	691	571	491	431	551	481	421	541	471	421	521	461	421	401
7	661	531	441	381	641	521	441	381	501	431	381	491	421	371	481	421	371	351
8	621	481	401	340	601	481	401	340	461	391	340	451	381	340	441	381	330	310
9	581	441	361	310	561	441	361	310	431	361	310	421	351	300	411	351	300	280
10	541	411	330	280	531	401	330	280	391	330	280	391	320	280	381	320	280	260

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	11 fc	16 ft
8 ft	6 fc	22 ft
10 ft	4 fc	27 ft
12 ft	3 fc	33 ft
15 ft	2 fc	41 ft

