

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number
SIE-PSW-4-D3-30-80-FW-W
(White Housing – Direct – Flush Lens)

Test Number

IES-P00096

Test Date

2017-06-19

The results contained in this report pertain only to the tested sample.
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Luminaire Description:	Extruded Aluminum Housing, Direct w/ Flush Frosted White Lens
Lamp:	LED (3000K, 80+ CRI)
Installation:	Surface, Wall or Suspension from Ceiling
Luminous Length:	48.00 in
Luminous Width:	2.31 in
Luminous Height:	0.00 in

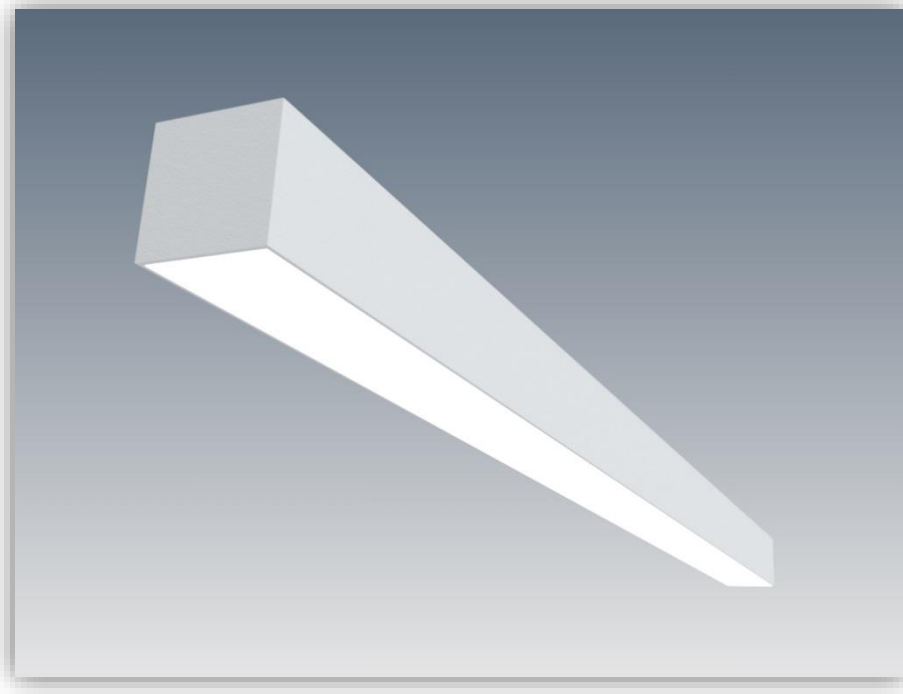


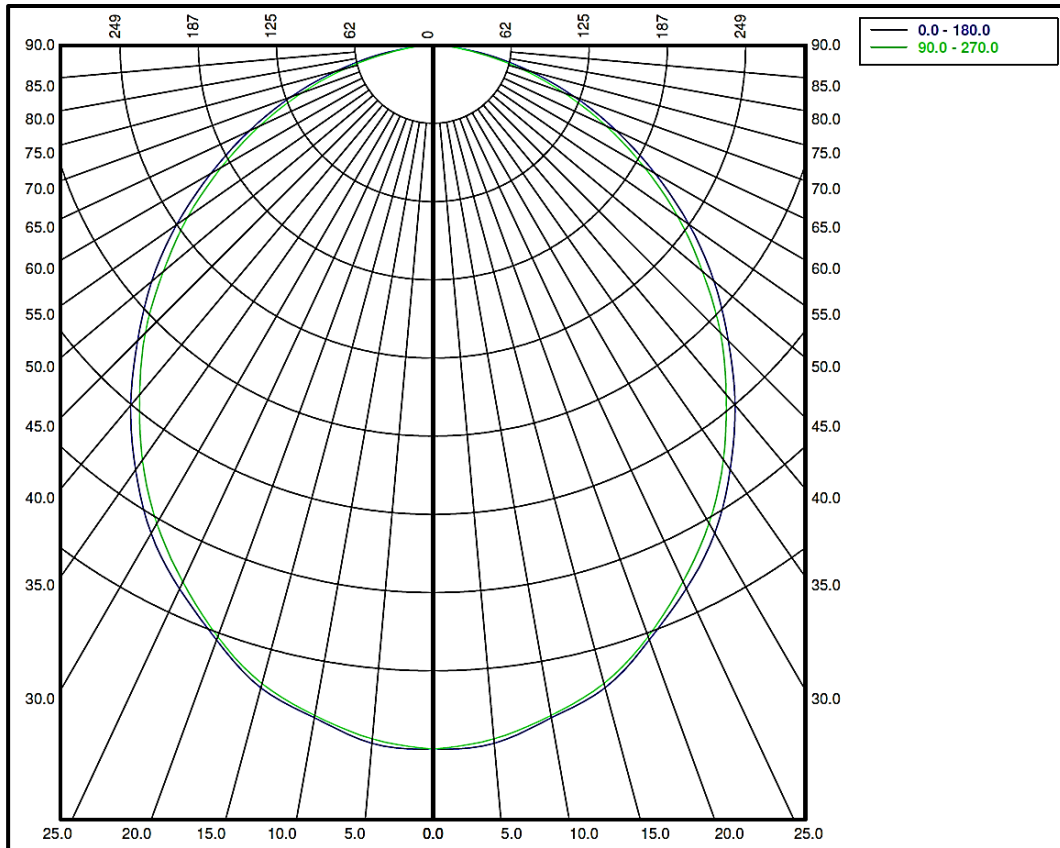
Image may differ slightly from actual unit

Summary of Results

System Power:	17.9W
Total Luminaire Output:	1403 Lumens
Luminaire Efficacy:	79 lm/W
Max Candela:	561.09 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	52.64	3.8%	90-100	0	0.0%
10-20	148.27	10.6%	100-110	0	0.0%
20-30	219	15.6%	110-120	0	0.0%
30-40	254.94	18.2%	120-130	0	0.0%
40-50	253.1	18.0%	130-140	0	0.0%
50-60	218.19	15.6%	140-150	0	0.0%
60-70	156.45	11.2%	150-160	0	0.0%
70-80	81.47	5.8%	160-170	0	0.0%
80-90	18.63	1.3%	170-180	0	0.0%
0-90	1402.69	100.0%	0-180	1402.69	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	561	561	561	561	561	561	561	561	561	561	561	561	561	561	561	561
5	559	559	553	553	555	553	553	559	559	559	553	553	555	553	553	559
10	544	543	542	542	543	542	542	543	544	543	542	542	543	542	542	543
15	530	525	525	525	527	525	525	525	530	525	525	525	527	525	525	525
20	505	504	505	503	502	503	505	504	505	504	505	503	502	503	505	504
25	478	477	474	474	472	474	474	477	478	477	474	474	472	474	474	477
30	449	448	443	441	440	441	443	448	449	448	443	441	440	441	443	448
35	413	411	407	405	404	405	407	411	413	411	407	405	404	405	407	411
40	375	372	367	364	364	364	367	372	375	372	367	364	364	364	367	372
45	333	331	328	324	324	324	328	331	333	331	328	324	324	324	328	331
50	293	290	288	283	281	283	288	290	293	290	288	283	281	283	288	290
55	249	247	244	241	239	241	244	247	249	247	244	241	239	241	244	247
60	204	205	201	197	195	197	201	205	204	205	201	197	195	197	201	205
65	161	162	159	154	153	154	159	162	161	162	159	154	153	154	159	162
70	120	119	117	112	111	112	117	119	120	119	117	112	111	112	117	119
75	80	79	77	73	72	73	77	79	80	79	77	73	72	73	77	79
80	43	43	40	38	37	38	40	43	43	43	40	38	37	38	40	43
85	15	15	13	11	11	11	13	15	15	15	13	11	11	11	13	15
90	3	3	2	2	2	2	2	3	3	3	2	2	2	2	2	3

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	7843	7843	7843
45	6579	6473	6406
55	6074	5943	5809
65	5333	5242	5045
75	4316	4132	3898
85	2375	2053	1713

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	1669	1669	1669	1669	1627	1627	1627	1627	1557	1557	1557	1487	1487	1487	1431	1431	1431	1403
1	1529	1473	1417	1361	1501	1431	1389	1333	1375	1333	1290	1319	1290	1262	1276	1248	1220	1192
2	1403	1290	1192	1122	1361	1262	1178	1108	1206	1136	1080	1164	1108	1052	1122	1080	1038	996
3	1276	1136	1024	940	1248	1108	1010	926	1066	982	912	1038	954	898	996	940	884	856
4	1178	1010	884	800	1136	996	884	800	954	856	786	926	842	771	898	828	757	729
5	1080	912	786	687	1052	884	771	687	856	757	673	828	743	673	814	729	659	631
6	996	814	687	603	968	800	687	603	786	673	603	757	659	589	729	645	589	561
7	926	743	617	533	898	729	617	533	715	603	533	687	603	533	673	589	519	491
8	870	673	561	477	842	673	561	477	645	547	477	631	547	477	617	533	477	449
9	814	617	505	435	786	617	505	435	603	505	435	589	491	435	575	491	421	407
10	757	575	463	393	743	575	463	393	561	463	393	547	449	393	533	449	393	365

