



PICASSO LIGHTING INDUSTRIES, LLC
46 Sellers Street, Kearny, NJ 07032
201.246.8188

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number
SIE-PSW-4-D7-30-80-FW-W
(White Housing – Direct – Flush Lens)

Test Number

IES-P00098

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

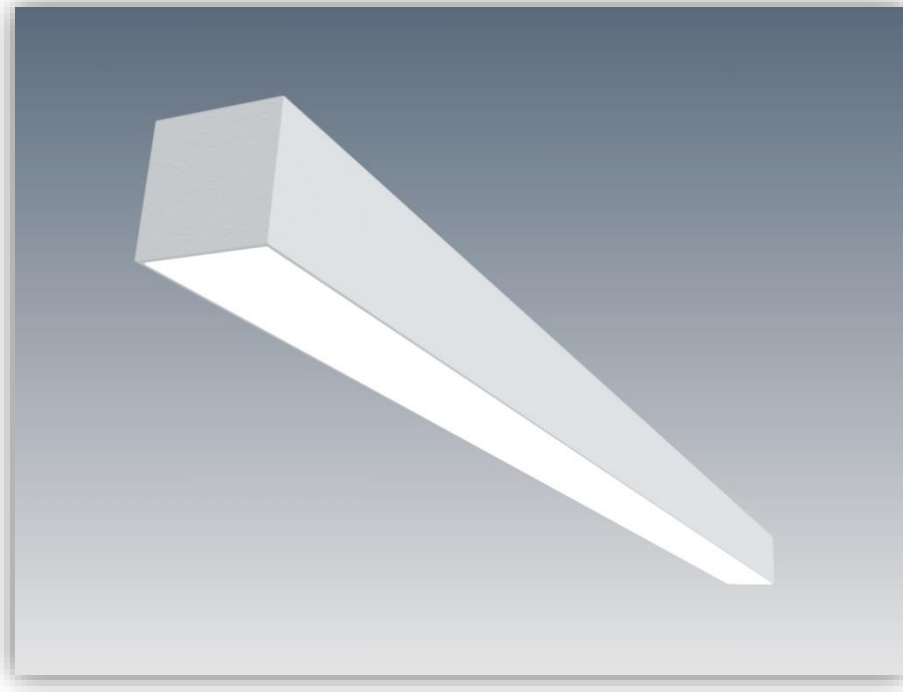


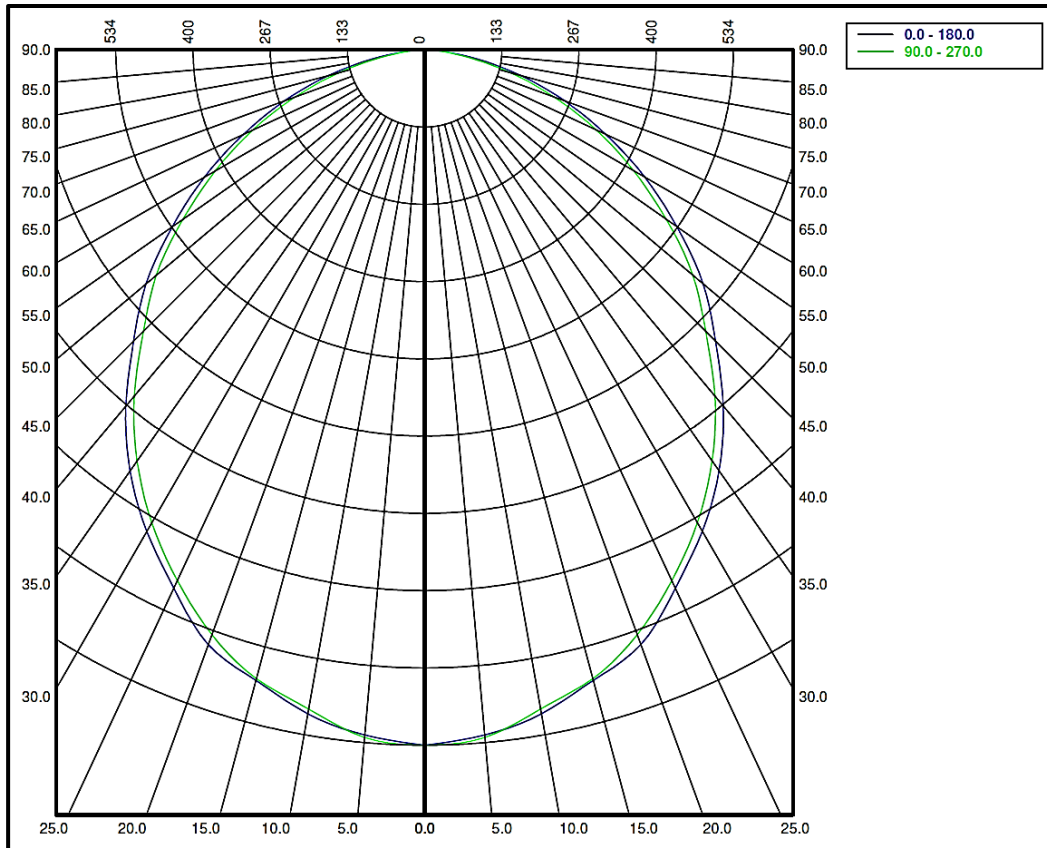
Image may differ slightly from actual unit

Summary of Results

System Power:	37.7W
Total Luminaire Output:	3006 Lumens
Luminaire Efficacy:	80 lm/W
Max Candela:	1204.98 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	112.84	3.8%	90-100	0	0.0%
10-20	316.99	10.5%	100-110	0	0.0%
20-30	469.3	15.6%	110-120	0	0.0%
30-40	546.79	18.2%	120-130	0	0.0%
40-50	542.39	18.0%	130-140	0	0.0%
50-60	467.67	15.6%	140-150	0	0.0%
60-70	335.06	11.1%	150-160	0	0.0%
70-80	174.58	5.8%	160-170	0	0.0%
80-90	40.02	1.3%	170-180	0	0.0%
0-90	3005.64	100.0%	0-180	3005.64	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	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201
5	1188	1205	1184	1195	1192	1195	1184	1205	1188	1205	1184	1195	1192	1195	1184	1205
10	1164	1160	1162	1160	1156	1160	1162	1160	1164	1160	1162	1160	1156	1160	1162	1160
15	1127	1126	1122	1120	1124	1120	1122	1126	1127	1126	1122	1120	1124	1120	1122	1126
20	1093	1080	1076	1076	1075	1076	1076	1080	1093	1080	1076	1076	1075	1076	1076	1080
25	1026	1022	1019	1017	1012	1017	1019	1022	1026	1022	1019	1017	1012	1017	1019	1022
30	960	958	949	942	943	942	949	958	960	958	949	942	943	942	949	958
35	887	884	872	870	867	870	872	884	887	884	872	870	867	870	872	884
40	803	798	789	782	781	782	789	798	803	798	789	782	781	782	789	798
45	711	710	703	694	687	694	703	710	711	710	703	694	687	694	703	710
50	629	622	615	607	606	607	615	622	629	622	615	607	606	607	615	622
55	532	528	526	515	510	515	526	528	532	528	526	515	510	515	526	528
60	440	437	430	425	417	425	430	437	440	437	430	425	417	425	430	437
65	346	344	339	331	328	331	339	344	346	344	339	331	328	331	339	344
70	258	255	249	241	238	241	249	255	258	255	249	241	238	241	249	255
75	172	170	164	157	154	157	164	170	172	170	164	157	154	157	164	170
80	94	92	87	82	78	82	87	92	94	92	87	82	78	82	87	92
85	32	31	27	25	23	25	27	31	32	31	27	25	23	25	27	31
90	7	5	5	4	4	4	5	5	7	5	5	4	4	4	5	5

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	16787	16787	16787
45	14050	13890	13574
55	12961	12813	12418
65	11422	11202	10837
75	9270	8838	8286
85	5137	4360	3732

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	3577	3577	3577	3577	3487	3487	3487	3487	3336	3336	3336	3186	3186	3186	3066	3066	3066	3006
1	3276	3156	3036	2915	3216	3066	2976	2855	2946	2855	2765	2825	2765	2705	2735	2675	2615	2555
2	3006	2765	2555	2405	2915	2705	2525	2374	2585	2435	2314	2495	2374	2254	2405	2314	2224	2134
3	2735	2435	2194	2014	2675	2374	2164	1984	2284	2104	1954	2224	2044	1924	2134	2014	1894	1833
4	2525	2164	1894	1713	2435	2134	1894	1713	2044	1833	1683	1984	1803	1653	1924	1773	1623	1563
5	2314	1954	1683	1473	2254	1894	1653	1473	1833	1623	1443	1773	1593	1443	1743	1563	1413	1353
6	2134	1743	1473	1292	2074	1713	1473	1292	1683	1443	1292	1623	1413	1262	1563	1383	1262	1202
7	1984	1593	1322	1142	1924	1563	1322	1142	1533	1292	1142	1473	1292	1142	1443	1262	1112	1052
8	1863	1443	1202	1022	1803	1443	1202	1022	1383	1172	1022	1353	1172	1022	1322	1142	1022	962
9	1743	1322	1082	932	1683	1322	1082	932	1292	1082	932	1262	1052	932	1232	1052	902	872
10	1623	1232	992	842	1593	1232	992	842	1202	992	842	1172	962	842	1142	962	842	781

