



Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number
NIC-PSW-4-D7-30-80-FW-W
(White Housing – Semi-Direct – Frosted Lens)

Test Number

IES-P00038

Test Date

2017-06-13

The results contained in this report pertain only to the tested sample.
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Luminaire Description:	Extruded Aluminum Housing, Semi-direct w/ Frosted Lens
Lamp:	LED (3000K, 80+ CRI)
Installation:	Suspension from Ceiling, Surface & Wall Mounted
Luminous Length:	47.88 in
Luminous Width:	1.75 in
Luminous Height:	1.25 in

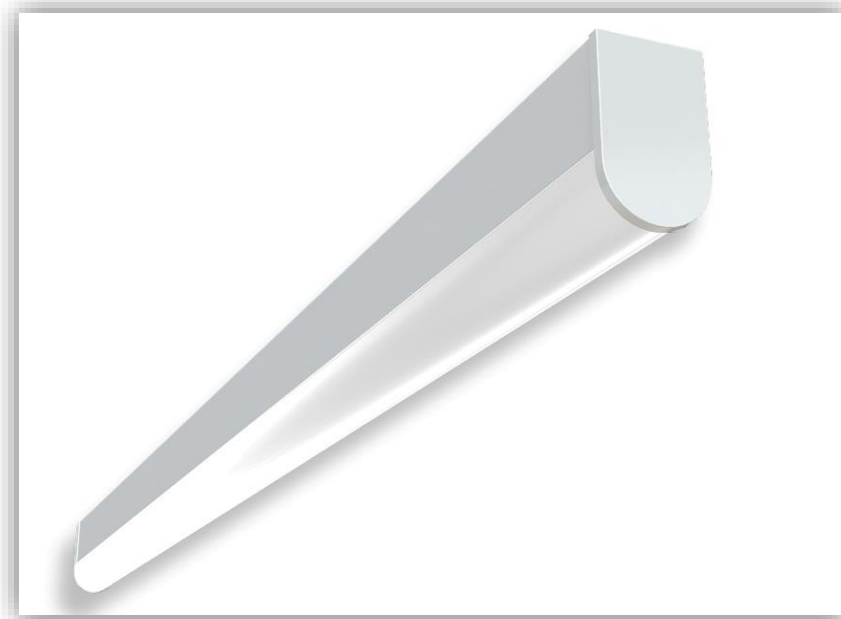


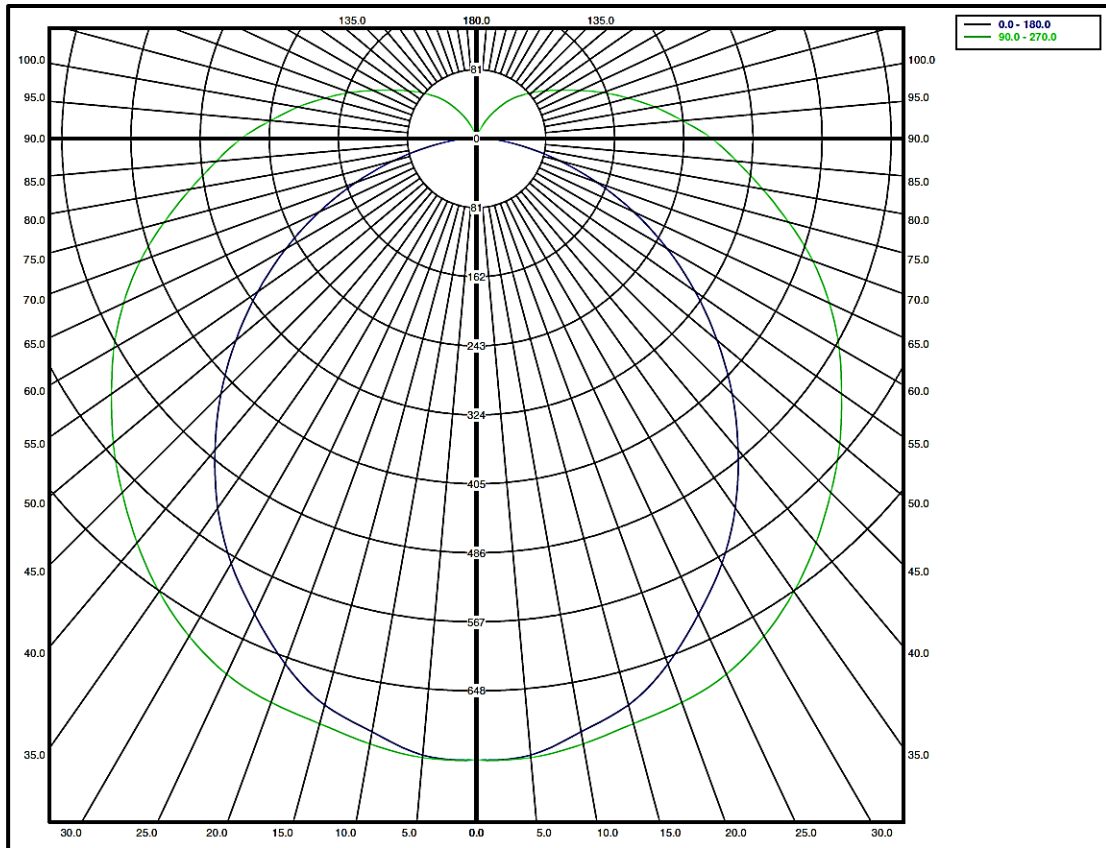
Image may differ slightly from actual unit

Summary of Results

System Power:	25.2W
Total Luminaire Output:	3002 Lumens
Luminaire Efficacy:	119 lm/W
Max Candela:	728.86 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	68.69	2.3%	90-100	159.52	5.3%
10-20	196.87	6.6%	100-110	111.74	3.7%
20-30	302.39	10.1%	110-120	74.54	2.5%
30-40	371.71	12.4%	120-130	48.1	1.6%
40-50	397.94	13.3%	130-140	28.35	0.9%
50-60	385.02	12.8%	140-150	13.09	0.4%
60-70	343.49	11.4%	150-160	3.96	0.1%
70-80	281.34	9.4%	160-170	0.51	0.0%
80-90	215.01	7.2%	170-180	0	0.0%
0-90	2562.46	85.4%	0-180	3002.27	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	729	729	729	729	729	729	729	729	729	729	729	729	729	729	729	729
5	726	716	724	725	729	725	724	716	726	716	724	725	729	725	724	716
10	707	709	710	715	721	715	710	709	707	709	710	715	721	715	710	709
15	688	687	697	705	711	705	697	687	688	687	697	705	711	705	697	687
20	656	660	677	693	704	693	677	660	656	660	677	693	704	693	677	660
25	616	631	658	680	693	680	658	631	616	631	658	680	693	680	658	631
30	575	594	631	664	674	664	631	594	575	594	631	664	674	664	631	594
35	529	550	598	637	649	637	598	550	529	550	598	637	649	637	598	550
40	477	507	564	604	619	604	564	507	477	507	564	604	619	604	564	507
45	424	462	523	571	587	571	523	462	424	462	523	571	587	571	523	462
50	368	412	482	535	556	535	482	412	368	412	482	535	556	535	482	412
55	313	361	439	499	522	499	439	361	313	361	439	499	522	499	439	361
60	258	312	397	467	491	467	397	312	258	312	397	467	491	467	397	312
65	204	265	359	432	456	432	359	265	204	265	359	432	456	432	359	265
70	151	219	322	396	420	396	322	219	151	219	322	396	420	396	322	219
75	101	178	286	358	379	358	286	178	101	178	286	358	379	358	286	178
80	60	142	250	319	341	319	250	142	60	142	250	319	341	319	250	142
85	29	112	218	284	306	284	218	112	29	112	218	284	306	284	218	112
90	13	89	191	255	276	255	191	89	13	89	191	255	276	255	191	89
95	7	69	164	224	242	224	164	69	7	69	164	224	242	224	164	69
100	5	54	139	195	213	195	139	54	5	54	139	195	213	195	139	54
105	3	43	115	168	184	168	115	43	3	43	115	168	184	168	115	43
110	2	35	96	141	158	141	96	35	2	35	96	141	158	141	96	35
115	1	29	81	121	134	121	81	29	1	29	81	121	134	121	81	29
120	1	23	69	102	114	102	69	23	1	23	69	102	114	102	69	23
125	0	18	59	88	98	88	59	18	0	18	59	88	98	88	59	18
130	0	13	49	76	84	76	49	13	0	13	49	76	84	76	49	13
135	0	9	39	62	71	62	39	9	0	9	39	62	71	62	39	9
140	0	6	28	50	58	50	28	6	0	6	28	50	58	50	28	6
145	0	4	19	37	43	37	19	4	0	4	19	37	43	37	19	4
150	0	2	13	25	30	25	13	2	0	2	13	25	30	25	13	2
155	0	1	7	15	19	15	7	1	0	1	7	15	19	15	7	1
160	0	0	3	7	10	7	3	0	0	0	3	7	10	7	3	0
165	0	0	1	3	4	3	1	0	0	0	1	3	4	3	1	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	13484	13484	13484
45	10799	8967	8957
55	9729	8094	8332
65	8437	7393	7885
75	6599	6919	7384
85	4790	6609	7087

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	3483	3483	3483	3483	3333	3333	3333	3333	3092	3092	3092	2852	2852	2852	2672	2672	2672	2552
1	3092	2912	2732	2612	2942	2792	2642	2522	2582	2462	2372	2372	2282	2192	2192	2132	2072	1981
2	2762	2492	2252	2072	2642	2402	2192	2012	2222	2042	1891	2042	1891	1771	1891	1771	1681	1591
3	2522	2162	1891	1681	2402	2072	1831	1621	1921	1711	1561	1771	1621	1471	1651	1501	1381	1291
4	2282	1891	1621	1411	2192	1831	1561	1381	1711	1471	1291	1561	1381	1231	1471	1291	1171	1081
5	2102	1681	1411	1201	2012	1621	1351	1171	1501	1291	1111	1411	1201	1051	1321	1141	1021	931
6	1921	1501	1231	1021	1831	1471	1201	1021	1351	1141	961	1261	1081	931	1171	1021	871	811
7	1801	1381	1111	901	1711	1321	1081	901	1231	1021	841	1141	961	811	1081	901	781	721
8	1651	1231	991	811	1591	1201	961	781	1141	901	751	1051	871	721	991	811	691	630
9	1561	1141	901	721	1471	1111	871	691	1051	811	691	961	781	660	901	751	630	570
10	1441	1051	811	660	1381	1021	781	630	961	751	600	901	721	600	841	691	570	510

