

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number
SIE-PSW-4-D5-30-80-FW-W
(White Housing – Direct – Flush Lens)

Test Number

IES-P00097

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

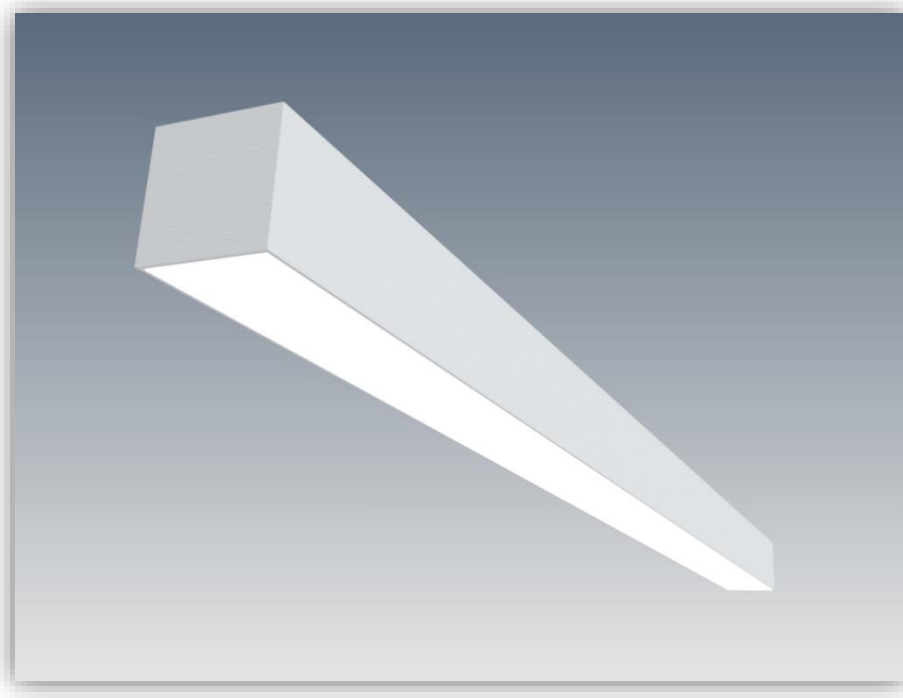


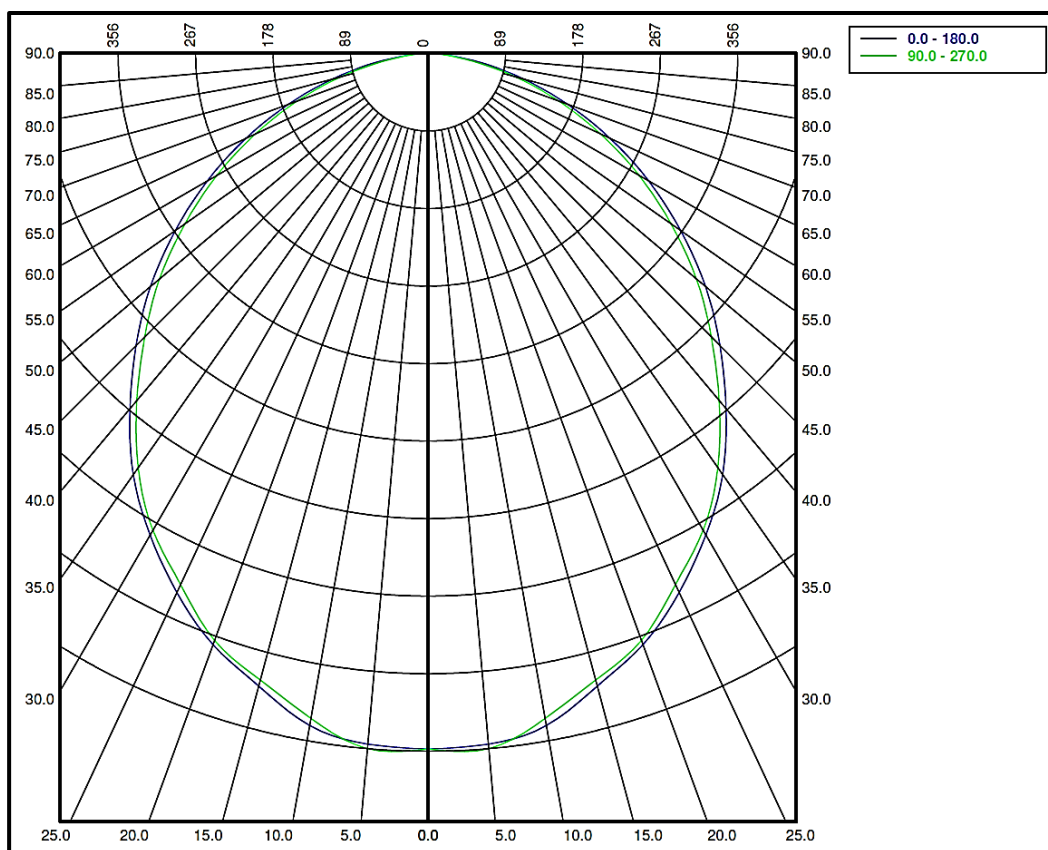
Image may differ slightly from actual unit

Summary of Results

System Power:	25.1W
Total Luminaire Output:	2005 Lumens
Luminaire Efficacy:	80 lm/W
Max Candela:	801.62 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	75.3	3.8%	90-100	0	0.0%
10-20	211.58	10.6%	100-110	0	0.0%
20-30	312.86	15.6%	110-120	0	0.0%
30-40	364.35	18.2%	120-130	0	0.0%
40-50	361.6	18.0%	130-140	0	0.0%
50-60	311.95	15.6%	140-150	0	0.0%
60-70	223.64	11.2%	150-160	0	0.0%
70-80	116.56	5.8%	160-170	0	0.0%
80-90	26.67	1.3%	170-180	0	0.0%
0-90	2004.51	100.0%	0-180	2004.51	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	799	799	799	799	799	799	799	799	799	799	799	799	799	799	799	799
5	796	793	792	794	802	794	792	793	796	793	792	794	802	794	792	793
10	784	778	775	779	776	779	775	778	784	778	775	779	776	779	775	778
15	752	753	750	746	745	746	750	753	752	753	750	746	745	746	750	753
20	723	722	717	715	718	715	717	722	723	722	717	715	718	715	717	722
25	683	684	680	676	673	676	680	684	683	684	680	676	673	676	680	684
30	639	639	634	627	633	627	634	639	639	639	634	627	633	627	634	639
35	591	587	581	577	581	577	581	587	591	587	581	577	581	577	581	587
40	533	533	525	523	521	523	525	533	533	533	525	523	521	523	525	533
45	475	473	469	464	461	464	469	473	475	473	469	464	461	464	469	473
50	416	414	408	405	403	405	408	414	416	414	408	405	403	405	408	414
55	355	356	350	344	341	344	350	356	355	356	350	344	341	344	350	356
60	293	292	288	281	281	281	288	292	293	292	288	281	281	281	288	292
65	231	231	226	220	219	220	226	231	231	231	226	220	219	220	226	231
70	171	171	166	161	160	161	166	171	171	171	166	161	160	161	166	171
75	113	114	110	105	103	105	110	114	113	114	110	105	103	105	110	114
80	62	61	58	54	53	54	58	61	62	61	58	54	53	54	58	61
85	21	21	18	16	16	16	18	21	21	21	18	16	16	16	18	21
90	5	4	3	3	3	3	3	4	5	4	3	3	3	3	3	4

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	11167	11167	11167
45	9376	9269	9098
55	8632	8512	8306
65	7641	7456	7245
75	6118	5919	5563
85	3381	2912	2484

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	2385	2385	2385	2385	2325	2325	2325	2325	2225	2225	2225	2125	2125	2125	2045	2045	2045	2005
1	2185	2105	2025	1944	2145	2045	1984	1904	1964	1904	1844	1884	1844	1804	1824	1784	1744	1704
2	2005	1844	1704	1604	1944	1804	1684	1584	1724	1624	1543	1664	1584	1503	1604	1543	1483	1423
3	1824	1624	1463	1343	1784	1584	1443	1323	1523	1403	1303	1483	1363	1283	1423	1343	1263	1223
4	1684	1443	1263	1143	1624	1423	1263	1143	1363	1223	1123	1323	1203	1102	1283	1183	1082	1042
5	1543	1303	1123	982	1503	1263	1102	982	1223	1082	962	1183	1062	962	1163	1042	942	902
6	1423	1163	982	862	1383	1143	982	862	1123	962	862	1082	942	842	1042	922	842	802
7	1323	1062	882	762	1283	1042	882	762	1022	862	762	982	862	762	962	842	742	702
8	1243	962	802	682	1203	962	802	682	922	782	682	902	782	682	882	762	682	641
9	1163	882	722	621	1123	882	722	621	862	722	621	842	702	621	822	702	601	581
10	1082	822	661	561	1062	822	661	561	802	661	561	782	641	561	762	641	561	521

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	22 fc	17 ft
8 ft	12 fc	22 ft
10 ft	8 fc	28 ft
12 ft	6 fc	33 ft
15 ft	4 fc	42 ft

