

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number
EMI-PSW-4-D5-30-80-FW-W
(White Housing – Semi-Direct – Frosted Lens)

Test Number

IES-P00033

Test Date

2017-06-13

The results contained in this report pertain only to the tested sample.
This report shall not be reproduced, except in full, without written approval of Picasso Lighting Industries, LLC.

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

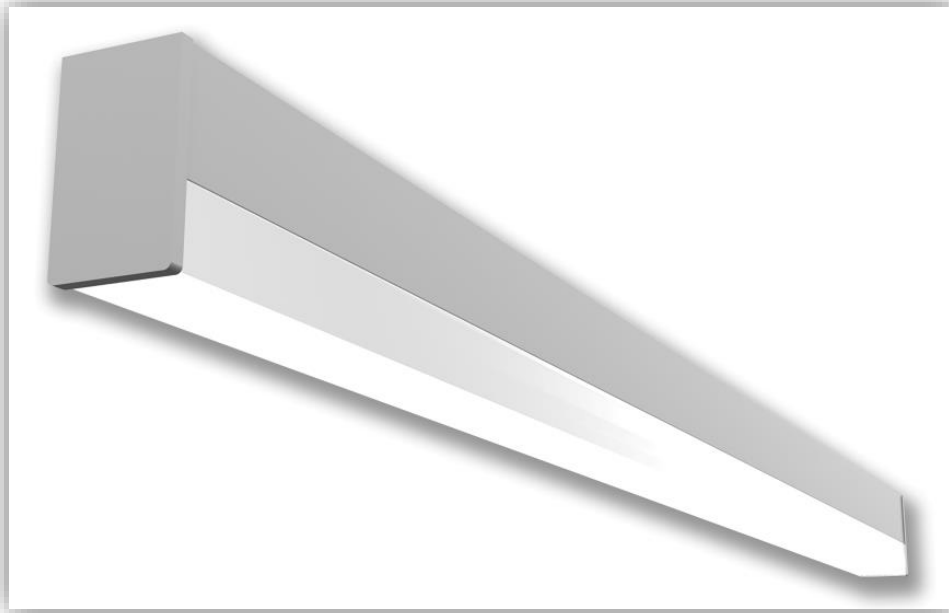


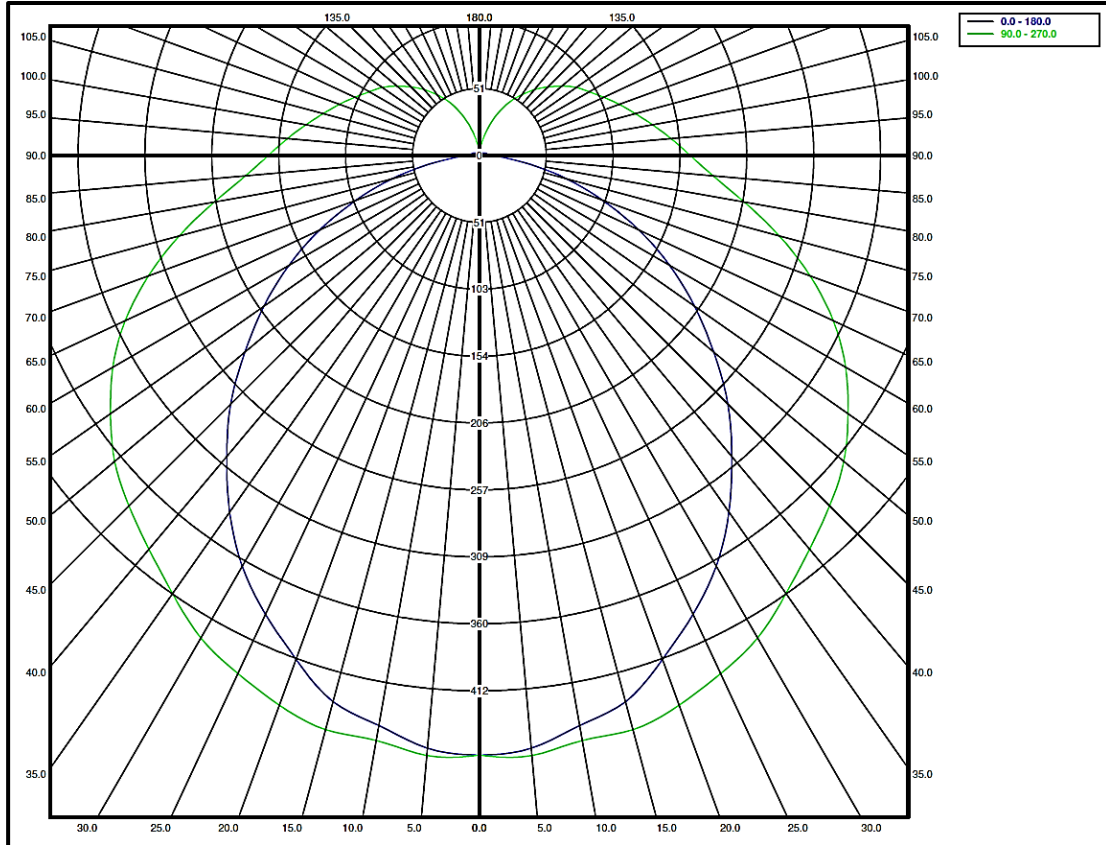
Image may differ slightly from actual unit

Summary of Results

System Power:	17.0W
Total Luminaire Output:	2004 Lumens
Luminaire Efficacy:	118 lm/W
Max Candela:	463.16 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	43.58	2.2%	90-100	99.4	5.0%
10-20	125.75	6.3%	100-110	81.62	4.1%
20-30	192.73	9.6%	110-120	65.24	3.3%
30-40	237.42	11.9%	120-130	49.81	2.5%
40-50	257.12	12.8%	130-140	34.6	1.7%
50-60	253.65	12.7%	140-150	20.86	1.0%
60-70	225.95	11.3%	150-160	9.81	0.5%
70-80	176.66	8.8%	160-170	2.74	0.1%
80-90	126.4	6.3%	170-180	0.19	0.0%
0-90	1639.26	81.8%	0-180	2003.53	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	461	461	461	461	461	461	461	461	461	461	461	461	461	461	461	461
5	458	460	458	455	463	455	458	460	458	460	458	455	463	455	458	460
10	445	449	453	456	457	456	453	449	445	449	453	456	457	456	453	449
15	435	436	446	455	457	455	446	436	435	436	446	455	457	455	446	436
20	412	422	436	445	450	445	436	422	412	422	436	445	450	445	436	422
25	389	402	421	434	440	434	421	402	389	402	421	434	440	434	421	402
30	365	379	403	420	428	420	403	379	365	379	403	420	428	420	403	379
35	335	354	383	407	411	407	383	354	335	354	383	407	411	407	383	354
40	302	325	363	386	395	386	363	325	302	325	363	386	395	386	363	325
45	271	297	338	370	381	370	338	297	271	297	338	370	381	370	338	297
50	236	268	315	351	366	351	315	268	236	268	315	351	366	351	315	268
55	202	238	290	332	346	332	290	238	202	238	290	332	346	332	290	238
60	169	208	264	308	326	308	264	208	169	208	264	308	326	308	264	208
65	135	176	236	284	301	284	236	176	135	176	236	284	301	284	236	176
70	101	145	206	254	271	254	206	145	101	145	206	254	271	254	206	145
75	70	113	176	224	239	224	176	113	70	113	176	224	239	224	176	113
80	40	85	147	192	207	192	147	85	40	85	147	192	207	192	147	85
85	19	63	125	167	181	167	125	63	19	63	125	167	181	167	125	63
90	9	52	111	149	162	149	111	52	9	52	111	149	162	149	111	52
95	7	48	102	136	148	136	102	48	7	48	102	136	148	136	102	48
100	6	44	94	125	135	125	94	44	6	44	94	125	135	125	94	44
105	6	41	87	115	124	115	87	41	6	41	87	115	124	115	87	41
110	5	38	80	106	115	106	80	38	5	38	80	106	115	106	80	38
115	5	35	74	98	106	98	74	35	5	35	74	98	106	98	74	35
120	4	32	69	91	98	91	69	32	4	32	69	91	98	91	69	32
125	3	28	63	84	91	84	63	28	3	28	63	84	91	84	63	28
130	3	25	56	77	83	77	56	25	3	25	56	77	83	77	56	25
135	2	22	50	69	74	69	50	22	2	22	50	69	74	69	50	22
140	2	18	43	60	66	60	43	18	2	18	43	60	66	60	43	18
145	1	14	37	52	57	52	37	14	1	14	37	52	57	52	37	14
150	1	11	30	44	48	44	30	11	1	11	30	44	48	44	30	11
155	0	8	23	34	38	34	23	8	0	8	23	34	38	34	23	8
160	0	5	16	24	27	24	16	5	0	5	16	24	27	24	16	5
165	0	3	9	15	18	15	9	3	0	3	9	15	18	15	9	3
170	0	1	4	7	9	7	4	1	0	1	4	7	9	7	4	1
175	0	0	1	2	2	2	1	0	0	0	1	2	2	2	1	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	8532	8532	8532
45	6894	5798	5813
55	6287	5345	5526
65	5611	4872	5192
75	4548	4261	4657
85	3036	3793	4182

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	2304	2304	2304	2304	2204	2204	2204	2204	2024	2024	2024	1863	1863	1863	1703	1703	1703	1643
1	2044	1923	1823	1743	1943	1843	1763	1663	1703	1623	1563	1563	1503	1443	1423	1382	1342	1262
2	1843	1663	1503	1382	1743	1583	1443	1322	1463	1342	1242	1342	1242	1162	1222	1142	1082	1022
3	1663	1443	1262	1122	1583	1382	1222	1082	1262	1142	1022	1162	1042	962	1062	982	902	841
4	1523	1262	1082	942	1443	1222	1042	902	1122	982	862	1022	902	801	942	841	761	701
5	1382	1122	942	801	1322	1082	902	781	1002	841	741	922	781	701	841	741	661	601
6	1282	1002	821	681	1222	962	801	661	902	741	641	821	701	601	761	661	561	521
7	1182	902	721	601	1122	882	701	581	801	661	561	741	621	521	701	581	501	461
8	1102	821	661	541	1042	801	641	521	741	601	501	681	561	481	641	521	441	401
9	1022	761	581	481	982	721	581	461	681	541	441	621	501	421	581	481	401	361
10	962	701	541	421	922	661	521	421	621	501	401	581	461	381	541	441	361	321

