

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

EMI-L-4'-D5-30K-80-FST-W

(White Housing – Semi-Direct – Frosted Lens)

Test Number

IES-P00033

Test Date

2017-02-21

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 Mounted
Luminous Length:	47.88 in
Luminous Width:	1.75 in
Luminous Height:	1.25 in

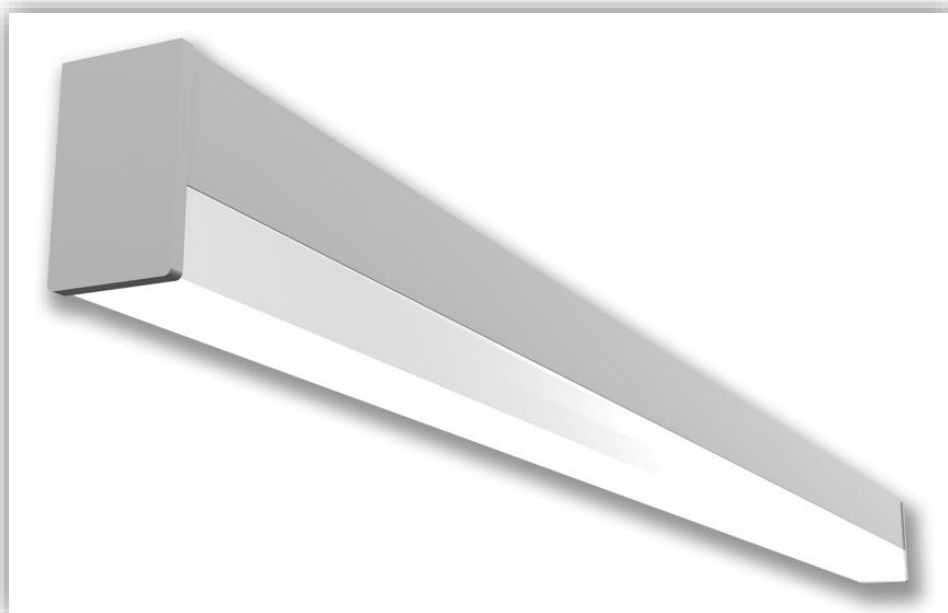


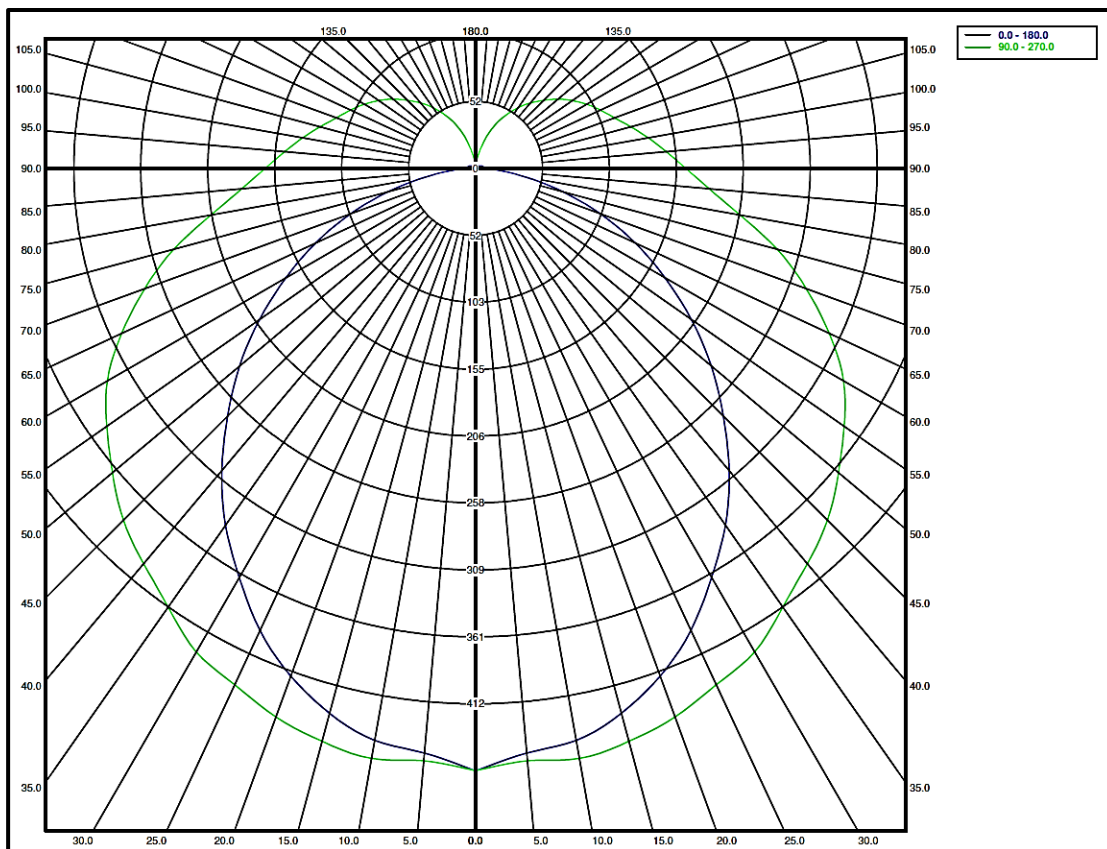
Image may differ slightly from actual unit

Summary of Results

System Power:	16.6W
Total Luminaire Output:	2007 Lumens
Luminaire Efficacy:	121 lm/W
Max Candela:	463.70 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	43.67	2.2%	90-100	99.23	4.9%
10-20	126.03	6.3%	100-110	81.48	4.1%
20-30	193.33	9.6%	110-120	65.47	3.3%
30-40	238.19	11.9%	120-130	49.91	2.5%
40-50	257.82	12.8%	130-140	34.57	1.7%
50-60	253.89	12.7%	140-150	20.86	1.0%
60-70	226.25	11.3%	150-160	9.82	0.5%
70-80	176.94	8.8%	160-170	2.73	0.1%
80-90	126.53	6.3%	170-180	0.19	0.0%
0-90	1642.65	81.8%	0-180	2006.91	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	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464	464
5	452	459	456	463	458	463	456	459	452	459	456	463	458	463	456	459
10	447	451	455	458	461	458	455	451	447	451	455	458	461	458	455	451
15	434	438	446	455	457	455	446	438	434	438	446	455	457	455	446	438
20	416	425	435	447	449	447	435	425	416	425	435	447	449	447	435	425
25	392	403	422	435	439	435	422	403	392	403	422	435	439	435	422	403
30	364	381	405	422	430	422	405	381	364	381	405	422	430	422	405	381
35	335	354	385	408	412	408	385	354	335	354	385	408	412	408	385	354
40	304	327	363	389	397	389	363	327	304	327	363	389	397	389	363	327
45	270	298	341	370	383	370	341	298	270	298	341	370	383	370	341	298
50	237	268	315	351	365	351	315	268	237	268	315	351	365	351	315	268
55	203	238	291	331	346	331	291	238	203	238	291	331	346	331	291	238
60	169	207	264	309	327	309	264	207	169	207	264	309	327	309	264	207
65	136	177	236	284	300	284	236	177	136	177	236	284	300	284	236	177
70	103	144	207	255	271	255	207	144	103	144	207	255	271	255	207	144
75	70	114	177	223	240	223	177	114	70	114	177	223	240	223	177	114
80	40	85	147	193	207	193	147	85	40	85	147	193	207	193	147	85
85	19	63	125	167	181	167	125	63	19	63	125	167	181	167	125	63
90	8	52	111	149	162	149	111	52	8	52	111	149	162	149	111	52
95	7	47	102	136	147	136	102	47	7	47	102	136	147	136	102	47
100	6	44	93	125	135	125	93	44	6	44	93	125	135	125	93	44
105	6	41	87	115	124	115	87	41	6	41	87	115	124	115	87	41
110	5	38	80	106	114	106	80	38	5	38	80	106	114	106	80	38
115	4	35	74	99	106	99	74	35	4	35	74	99	106	99	74	35
120	4	32	69	91	99	91	69	32	4	32	69	91	99	91	69	32
125	3	28	63	84	91	84	63	28	3	28	63	84	91	84	63	28
130	3	25	57	76	83	76	57	25	3	25	57	76	83	76	57	25
135	2	21	50	69	74	69	50	21	2	21	50	69	74	69	50	21
140	2	18	44	60	66	60	44	18	2	18	44	60	66	60	44	18
145	1	14	37	52	57	52	37	14	1	14	37	52	57	52	37	14
150	1	11	30	43	48	43	30	11	1	11	30	43	48	43	30	11
155	0	8	23	34	39	34	23	8	0	8	23	34	39	34	23	8
160	0	5	16	24	28	24	16	5	0	5	16	24	28	24	16	5
165	0	3	9	15	17	15	9	3	0	3	9	15	17	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	8578	8578	8578
45	6873	5847	5842
55	6306	5371	5526
65	5620	4871	5190
75	4546	4279	4683
85	3093	3803	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	2308	2308	2308	2308	2208	2208	2208	2208	2027	2027	2027	1866	1866	1866	1706	1706	1706	1646
1	2047	1927	1826	1746	1947	1846	1766	1686	1706	1626	1565	1565	1505	1445	1425	1385	1345	1264
2	1846	1666	1505	1385	1746	1585	1445	1325	1465	1345	1244	1345	1244	1164	1224	1144	1084	1024
3	1666	1445	1264	1124	1585	1385	1224	1084	1264	1144	1024	1164	1064	963	1064	983	903	843
4	1525	1264	1084	943	1445	1224	1044	903	1124	983	863	1024	903	803	943	843	763	702
5	1405	1124	943	803	1325	1084	903	783	1003	843	743	923	803	702	843	743	662	602
6	1284	1003	823	682	1224	963	803	682	903	743	642	823	702	602	763	662	562	522
7	1184	903	722	602	1124	883	702	582	803	662	562	743	622	522	702	582	502	462
8	1104	823	662	542	1044	803	642	522	743	602	502	682	562	482	642	522	442	401
9	1024	763	582	482	983	722	582	462	682	542	442	642	502	421	582	482	401	361
10	963	702	542	421	923	662	522	421	622	502	401	582	462	381	542	442	361	321

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	13 fc	21 ft
8 ft	7 fc	28 ft
10 ft	5 fc	35 ft
12 ft	3 fc	42 ft
15 ft	2 fc	53 ft

