

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

MX2-RF-4-D3-30-80-FW-W

(White Housing – Recessed - Direct – Frosted White Lens)

Test Number

IES-P00060

Test Date

2017-06-21

The results contained in this report pertain only to the tested sample.
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Luminaire Description:	Extruded Aluminum Housing, Direct, Frosted White Flush Lens
Lamp:	LED (3000K, 80+ CRI)
Installation:	Recessed
Luminous Length:	47.75 in
Luminous Width:	2.31 in
Luminous Height:	0.00 in

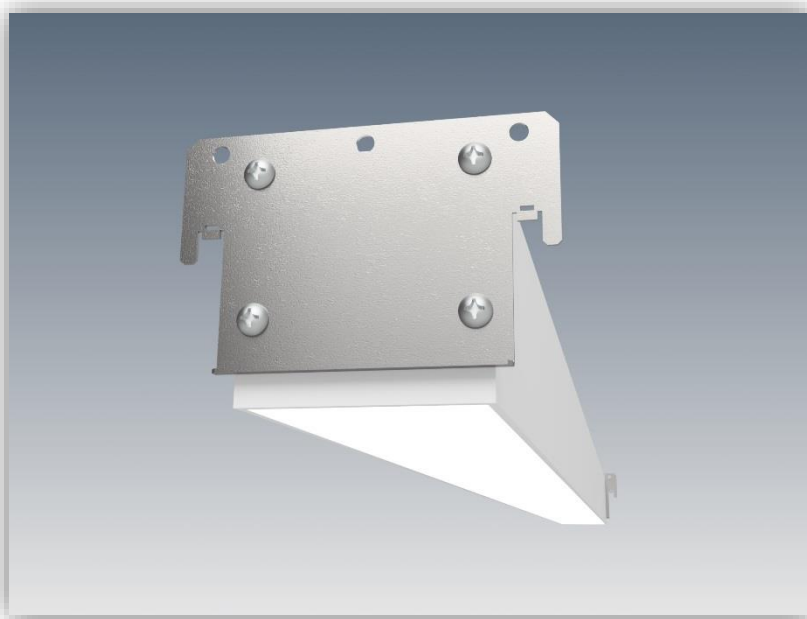


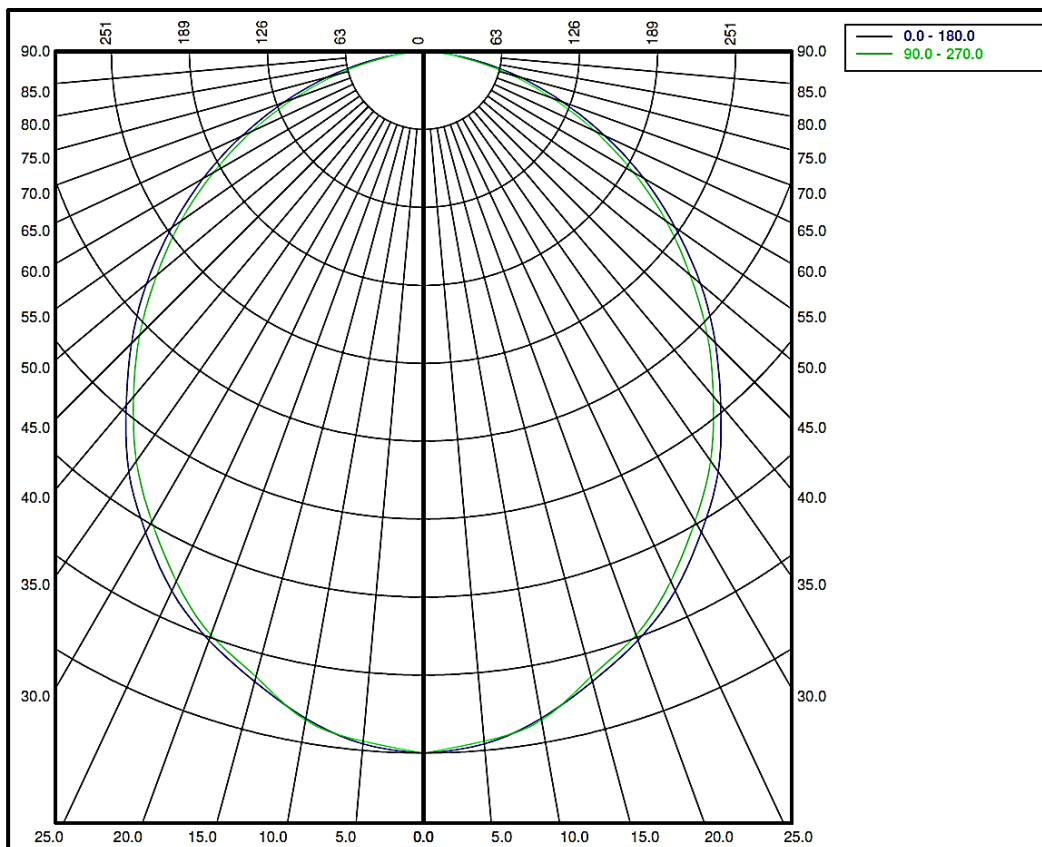
Image may differ slightly from actual unit

Summary of Results

System Power:	17.9W
Total Luminaire Output:	1402 Lumens
Luminaire Efficacy:	79 lm/W
Max Candela:	565.57 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	52.8	3.8%	90-100	0	0.0%
10-20	148.08	10.6%	100-110	0	0.0%
20-30	218.94	15.6%	110-120	0	0.0%
30-40	254.99	18.2%	120-130	0	0.0%
40-50	252.88	18.0%	130-140	0	0.0%
50-60	217.85	15.5%	140-150	0	0.0%
60-70	156.25	11.1%	150-160	0	0.0%
70-80	81.58	5.8%	160-170	0	0.0%
80-90	18.63	1.3%	170-180	0	0.0%
0-90	1402	100.0%	0-180	1402	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	566	566	566	566	566	566	566	566	566	566	566	566	566	566	566	566
5	560	556	556	554	558	554	556	556	560	556	556	554	558	554	556	556
10	546	547	543	542	548	542	543	547	546	547	543	542	548	542	543	547
15	526	527	524	522	522	522	524	527	526	527	524	522	522	522	524	527
20	505	505	503	502	501	502	503	505	505	505	503	502	501	502	503	505
25	480	479	474	472	471	472	474	479	480	479	474	472	471	472	474	479
30	448	447	444	443	438	443	444	447	448	447	444	443	438	443	444	447
35	414	412	408	405	403	405	408	412	414	412	408	405	403	405	408	412
40	372	371	368	364	363	364	368	371	372	371	368	364	363	364	368	371
45	333	332	328	324	323	324	328	332	333	332	328	324	323	324	328	332
50	291	290	287	283	280	283	287	290	291	290	287	283	280	283	287	290
55	248	247	245	240	239	240	245	247	248	247	245	240	239	240	245	247
60	205	204	201	197	195	197	201	204	205	204	201	197	195	197	201	204
65	162	161	158	154	153	154	158	161	162	161	158	154	153	154	158	161
70	119	120	116	113	111	113	116	120	119	120	116	113	111	113	116	120
75	80	80	76	74	72	74	76	80	80	80	76	74	72	74	76	80
80	43	43	40	38	37	38	40	43	43	43	40	38	37	38	40	43
85	15	14	13	11	11	11	13	14	15	14	13	11	11	11	13	14
90	3	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	7906	7906	7906
45	6568	6472	6387
55	6029	5956	5816
65	5340	5212	5050
75	4324	4124	3894
85	2402	2062	1726

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	1668	1668	1668	1668	1626	1626	1626	1626	1556	1556	1556	1486	1486	1486	1430	1430	1430	1402
1	1528	1472	1416	1360	1500	1430	1388	1332	1374	1332	1290	1318	1290	1262	1276	1248	1220	1192
2	1402	1290	1192	1122	1360	1262	1178	1108	1206	1136	1080	1164	1108	1052	1122	1080	1037	995
3	1276	1136	1023	939	1248	1108	1009	925	1066	981	911	1037	953	897	995	939	883	855
4	1178	1009	883	799	1136	995	883	799	953	855	785	925	841	771	897	827	757	729
5	1080	911	785	687	1052	883	771	687	855	757	673	827	743	673	813	729	659	631
6	995	813	701	603	967	799	687	603	785	673	603	757	659	589	729	645	589	561
7	925	743	617	533	911	729	617	533	715	603	533	687	603	533	673	589	519	491
8	869	673	561	477	841	673	561	477	645	547	477	631	547	477	617	533	477	449
9	813	631	505	435	785	617	505	435	603	505	435	589	491	435	575	491	421	407
10	757	575	463	393	743	575	463	393	561	463	393	547	449	393	533	449	393	365

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	16 fc	17 ft
8 ft	9 fc	23 ft
10 ft	6 fc	28 ft
12 ft	4 fc	34 ft
15 ft	3 fc	42 ft

