

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

MX2-RF-4-D7-30-80-FW-W

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

Test Number

IES-P00062

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

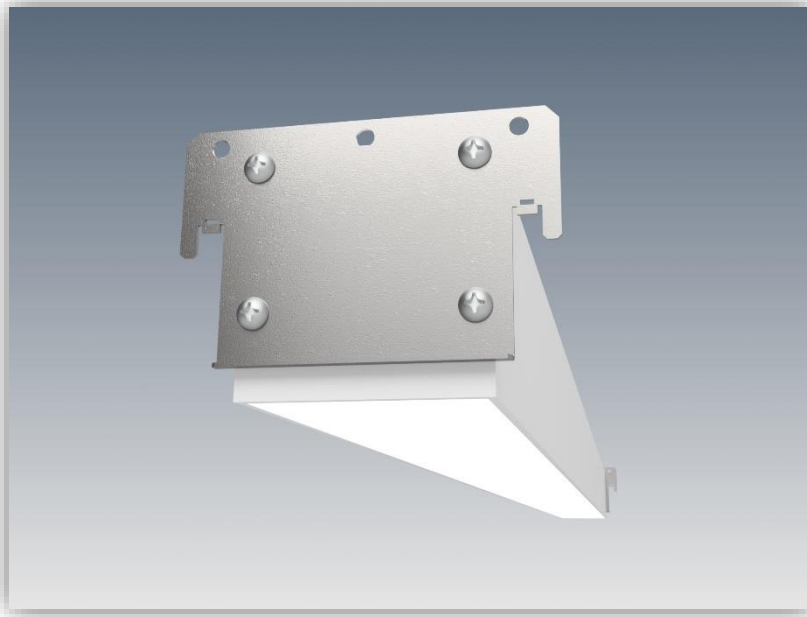


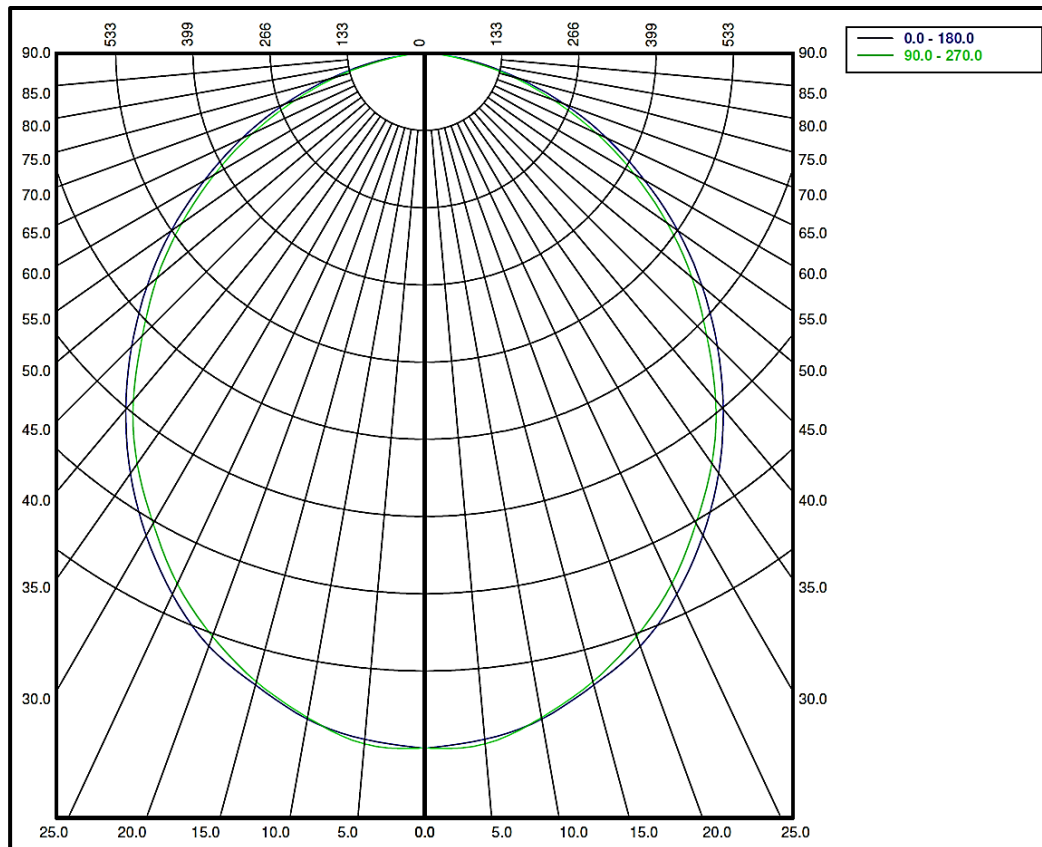
Image may differ slightly from actual unit

Summary of Results

System Power:	37.7W
Total Luminaire Output:	3006 Lumens
Luminaire Efficacy:	80 lm/W
Max Candela:	1198.30 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	112.88	3.8%	90-100	0	0.0%
10-20	317.45	10.6%	100-110	0	0.0%
20-30	468.95	15.6%	110-120	0	0.0%
30-40	546.6	18.2%	120-130	0	0.0%
40-50	542.7	18.1%	130-140	0	0.0%
50-60	467.39	15.6%	140-150	0	0.0%
60-70	335.42	11.2%	150-160	0	0.0%
70-80	174.33	5.8%	160-170	0	0.0%
80-90	39.97	1.3%	170-180	0	0.0%
0-90	3005.69	100.0%	0-180	3005.69	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	1198	1198	1198	1198	1198	1198	1198	1198	1198	1198	1198	1198	1198	1198	1198	1198
5	1188	1193	1190	1191	1195	1191	1190	1193	1188	1193	1190	1191	1195	1191	1190	1193
10	1166	1168	1163	1166	1163	1166	1163	1168	1166	1168	1163	1166	1163	1166	1163	1168
15	1128	1127	1125	1123	1122	1123	1125	1127	1128	1127	1125	1123	1122	1123	1125	1127
20	1088	1080	1077	1077	1070	1077	1077	1080	1088	1080	1077	1077	1070	1077	1077	1080
25	1030	1018	1016	1016	1009	1016	1016	1018	1030	1018	1016	1016	1009	1016	1016	1018
30	960	960	951	946	937	946	951	960	960	960	951	946	937	946	951	960
35	884	879	876	866	864	866	876	879	884	879	876	866	864	866	876	879
40	802	799	791	783	781	783	791	799	802	799	791	783	781	783	791	799
45	714	710	705	695	688	695	705	710	714	710	705	695	688	695	705	710
50	625	621	614	607	602	607	614	621	625	621	614	607	602	607	614	621
55	534	528	524	516	511	516	524	528	534	528	524	516	511	516	524	528
60	439	437	432	424	419	424	432	437	439	437	432	424	419	424	432	437
65	348	345	340	331	328	331	340	345	348	345	340	331	328	331	340	345
70	258	256	249	242	237	242	249	256	258	256	249	242	237	242	249	256
75	168	170	164	157	156	157	164	170	168	170	164	157	156	157	164	170
80	92	92	87	81	79	81	87	92	92	92	87	81	79	81	87	92
85	32	31	28	24	23	24	28	31	32	31	28	24	23	24	28	31
90	6	5	5	4	4	4	5	5	6	5	5	4	4	4	5	5

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	16751	16751	16751
45	14110	13921	13595
55	12995	12755	12449
65	11496	11234	10841
75	9084	8840	8411
85	5177	4472	3761

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	3577	3577	3577	3577	3487	3487	3487	3487	3336	3336	3336	3186	3186	3186	3066	3066	3066	3006
1	3276	3156	3036	2916	3216	3066	2976	2855	2946	2855	2765	2825	2765	2705	2735	2675	2615	2555
2	3006	2765	2555	2405	2916	2705	2525	2374	2585	2435	2314	2495	2374	2254	2405	2314	2224	2134
3	2735	2435	2194	2014	2675	2374	2164	1984	2284	2104	1954	2224	2044	1924	2134	2014	1894	1833
4	2525	2164	1894	1713	2435	2134	1894	1713	2044	1833	1683	1984	1803	1653	1924	1773	1623	1563
5	2314	1954	1683	1473	2254	1894	1653	1473	1833	1623	1443	1773	1593	1443	1743	1563	1413	1353
6	2134	1743	1473	1292	2074	1713	1473	1292	1683	1443	1292	1623	1413	1262	1563	1383	1262	1202
7	1984	1593	1323	1142	1924	1563	1323	1142	1533	1292	1142	1473	1292	1142	1443	1262	1112	1052
8	1864	1443	1202	1022	1803	1443	1202	1022	1383	1172	1022	1353	1172	1022	1323	1142	1022	962
9	1743	1323	1082	932	1683	1323	1082	932	1292	1082	932	1262	1052	932	1232	1052	902	872
10	1623	1232	992	842	1593	1232	992	842	1202	992	842	1172	962	842	1142	962	842	781

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	33 fc	17 ft
8 ft	19 fc	22 ft
10 ft	12 fc	28 ft
12 ft	8 fc	33 ft
15 ft	5 fc	42 ft

