

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

MX4-R-4-D7-30-80-OW-W

(White Housing – Direct – Regressed Opal Lens)

Test Number

IES-P00118

Test Date

2017-06-08

The results contained in this report pertain only to the tested sample.
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Luminaire Description:	Aluminum, Extruded Housing, Direct w/ Regressed Opal Lens
Lamp:	LED (3000K, 80+ CRI)
Installation:	Recessed
Luminous Length:	47.13 in
Luminous Width:	3.25 in
Luminous Height:	0.00 in

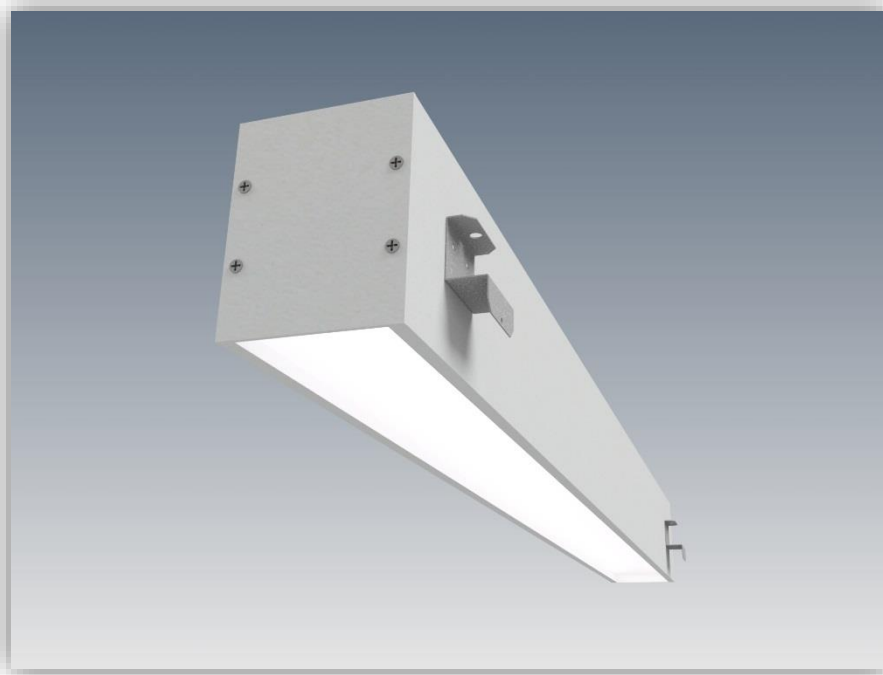


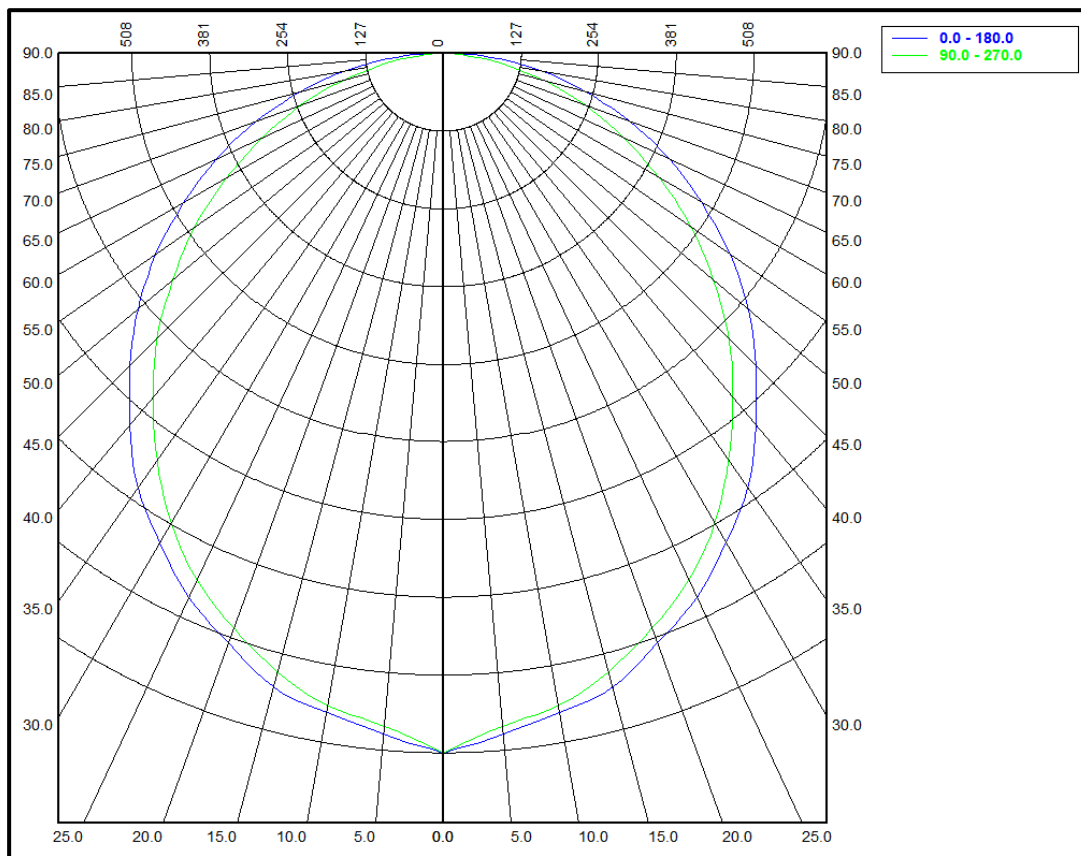
Image may differ slightly from actual unit

Summary of Results

System Power:	37.7W
Total Luminaire Output:	3007 Lumens
Luminaire Efficacy:	80 lm/W
Max Candela:	1142.20 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	105.97	3.5%	90-100	0	0.0%
10-20	298.08	9.9%	100-110	0	0.0%
20-30	443.07	14.7%	110-120	0	0.0%
30-40	522.55	17.4%	120-130	0	0.0%
40-50	531.47	17.7%	130-140	0	0.0%
50-60	473.05	15.7%	140-150	0	0.0%
60-70	360.38	12.0%	150-160	0	0.0%
70-80	210.84	7.0%	160-170	0	0.0%
80-90	61.46	2.0%	170-180	0	0.0%
0-90	3006.87	100.0%	0-180	3006.87	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	1142	1142	1142	1142	1142	1142	1142	1142	1142	1142	1142	1142	1142	1142	1142	1142
5	1116	1117	1124	1112	1103	1112	1124	1117	1116	1117	1124	1112	1103	1112	1124	1117
10	1093	1094	1093	1094	1082	1094	1093	1094	1093	1094	1093	1094	1082	1094	1093	1094
15	1072	1065	1058	1042	1046	1042	1058	1065	1072	1065	1058	1042	1046	1042	1058	1065
20	1025	1023	1012	1011	999	1011	1012	1023	1025	1023	1012	1011	999	1011	1012	1023
25	981	972	958	950	950	950	958	972	981	972	958	950	950	950	958	972
30	923	918	901	885	887	885	901	918	923	918	901	885	887	885	901	918
35	868	850	833	817	813	817	833	850	868	850	833	817	813	817	833	850
40	794	784	762	741	736	741	762	784	794	784	762	741	736	741	762	784
45	722	712	690	665	660	665	690	712	722	712	690	665	660	665	690	712
50	650	634	606	584	576	584	606	634	650	634	606	584	576	584	606	634
55	572	552	529	502	496	502	529	552	572	552	529	502	496	502	529	552
60	488	474	444	417	410	417	444	474	488	474	444	417	410	417	444	474
65	407	394	362	336	326	336	362	394	407	394	362	336	326	336	362	394
70	323	308	276	252	247	252	276	308	323	308	276	252	247	252	276	308
75	241	225	195	173	168	173	195	225	241	225	195	173	168	173	195	225
80	160	142	114	100	94	100	114	142	160	142	114	100	94	100	114	142
85	76	58	42	37	35	37	42	58	76	58	42	37	35	37	42	58
90	14	9	8	8	7	8	8	9	14	9	8	8	7	8	8	9

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	11560	11560	11560
45	10327	9867	9444
55	10076	9331	8744
65	9744	8669	7791
75	9402	7612	6546
85	8813	4912	4096

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	3578	3578	3578	3578	3488	3488	3488	3488	3338	3338	3338	3187	3187	3187	3067	3067	3067	3007
1	3277	3127	3007	2887	3187	3067	2947	2826	2917	2826	2736	2796	2736	2646	2706	2646	2586	2526
2	2977	2736	2526	2345	2887	2676	2466	2315	2556	2405	2255	2466	2315	2225	2375	2255	2165	2105
3	2706	2405	2135	1954	2646	2345	2105	1924	2255	2075	1894	2165	2015	1864	2105	1954	1834	1774
4	2496	2135	1864	1654	2405	2075	1834	1654	2015	1804	1624	1924	1744	1594	1864	1714	1564	1503
5	2285	1894	1624	1413	2225	1864	1624	1413	1804	1564	1413	1744	1534	1383	1684	1503	1383	1323
6	2105	1714	1443	1263	2045	1684	1413	1233	1624	1413	1233	1564	1383	1233	1534	1353	1203	1143
7	1954	1564	1293	1113	1894	1534	1263	1113	1473	1263	1082	1443	1233	1082	1383	1203	1082	1022
8	1834	1413	1173	992	1774	1383	1143	992	1353	1143	962	1323	1113	962	1293	1113	962	902
9	1714	1293	1052	902	1654	1293	1052	872	1263	1022	872	1203	1022	872	1173	992	872	812
10	1594	1203	962	812	1564	1173	962	812	1143	932	812	1143	932	812	1113	932	782	752

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	32 fc	16 ft
8 ft	18 fc	21 ft
10 ft	11 fc	26 ft
12 ft	8 fc	31 ft
15 ft	5 fc	39 ft

