

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

MX4-R-4-D10-30-80-OW-W

(White Housing – Direct – Regressed Opal Lens)

Test Number

IES-P00119

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

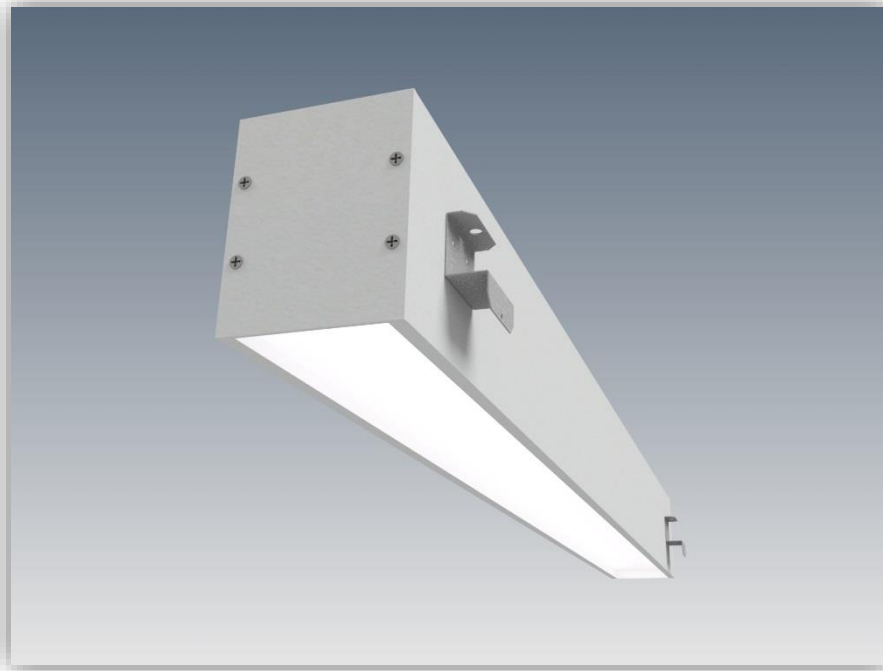


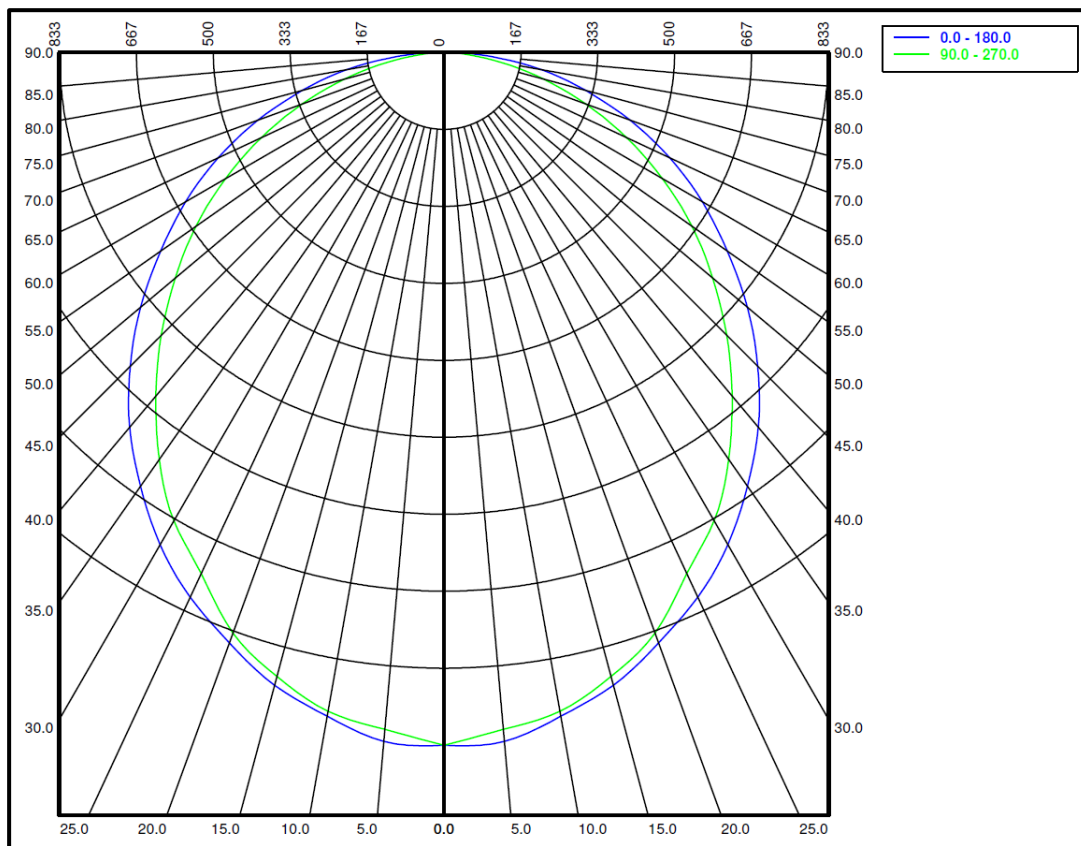
Image may differ slightly from actual unit

Summary of Results

System Power:	54.2W
Total Luminaire Output:	3988 Lumens
Luminaire Efficacy:	74 lm/W
Max Candela:	1500.27 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	140.59	3.5%	90-100	0	0.0%
10-20	395.66	9.9%	100-110	0	0.0%
20-30	587.12	14.7%	110-120	0	0.0%
30-40	694.12	17.4%	120-130	0	0.0%
40-50	703.3	17.6%	130-140	0	0.0%
50-60	626.87	15.7%	140-150	0	0.0%
60-70	478.04	12.0%	150-160	0	0.0%
70-80	280.16	7.0%	160-170	0	0.0%
80-90	81.79	2.1%	170-180	0	0.0%
0-90	3987.65	100.0%	0-180	3987.65	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	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
5	1498	1485	1471	1488	1472	1488	1471	1485	1498	1485	1471	1488	1472	1488	1471	1485
10	1460	1452	1456	1441	1449	1441	1456	1452	1460	1452	1456	1441	1449	1441	1456	1452
15	1419	1407	1402	1395	1399	1395	1402	1407	1419	1407	1402	1395	1399	1395	1402	1407
20	1361	1356	1343	1325	1338	1325	1343	1356	1361	1356	1343	1325	1338	1325	1343	1356
25	1302	1289	1277	1256	1246	1256	1277	1289	1302	1289	1277	1256	1246	1256	1277	1289
30	1231	1216	1192	1176	1171	1176	1192	1216	1231	1216	1192	1176	1171	1176	1192	1216
35	1147	1132	1110	1090	1076	1090	1110	1132	1147	1132	1110	1090	1076	1090	1110	1132
40	1060	1044	1011	982	972	982	1011	1044	1060	1044	1011	982	972	982	1011	1044
45	962	939	912	876	867	876	912	939	962	939	912	876	867	876	912	939
50	859	841	806	773	761	773	806	841	859	841	806	773	761	773	806	841
55	750	734	701	667	657	667	701	734	750	734	701	667	657	667	701	734
60	647	628	588	555	547	555	588	628	647	628	588	555	547	555	588	628
65	540	519	476	447	438	447	476	519	540	519	476	447	438	447	476	519
70	429	409	370	338	328	338	370	409	429	409	370	338	328	338	370	409
75	318	297	257	230	224	230	257	297	318	297	257	230	224	230	257	297
80	213	188	153	132	126	132	153	188	213	188	153	132	126	132	153	188
85	101	76	57	49	47	49	57	76	101	76	57	49	47	49	57	76
90	17	12	11	10	10	10	11	12	17	12	11	10	10	10	11	12

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	15183	15183	15183
45	13759	13040	12397
55	13219	12349	11575
65	12922	11378	10468
75	12425	10023	8750
85	11686	6636	5441

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	4745	4745	4745	4745	4626	4626	4626	4626	4426	4426	4426	4227	4227	4227	4067	4067	4067	3988
1	4347	4147	3988	3828	4227	4067	3908	3748	3868	3748	3629	3709	3629	3509	3589	3509	3429	3350
2	3948	3629	3350	3110	3828	3549	3270	3070	3390	3190	2991	3270	3070	2951	3150	2991	2871	2791
3	3589	3190	2831	2592	3509	3110	2791	2552	2991	2751	2512	2871	2672	2472	2791	2592	2432	2353
4	3310	2831	2472	2193	3190	2751	2432	2193	2672	2393	2153	2552	2313	2113	2472	2273	2074	1994
5	3031	2512	2153	1874	2951	2472	2153	1874	2393	2074	1874	2313	2034	1834	2233	1994	1834	1755
6	2791	2273	1914	1675	2712	2233	1874	1635	2153	1874	1635	2074	1834	1635	2034	1794	1595	1515
7	2592	2074	1715	1475	2512	2034	1675	1475	1954	1675	1436	1914	1635	1436	1834	1595	1436	1356
8	2432	1874	1555	1316	2353	1834	1515	1316	1794	1515	1276	1755	1475	1276	1715	1475	1276	1196
9	2273	1715	1396	1196	2193	1715	1396	1156	1675	1356	1156	1595	1356	1156	1555	1316	1156	1077
10	2113	1595	1276	1077	2074	1555	1276	1077	1515	1236	1077	1515	1236	1077	1475	1236	1037	997

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	42 fc	16 ft
8 ft	23 fc	21 ft
10 ft	15 fc	26 ft
12 ft	10 fc	31 ft
15 ft	7 fc	39 ft

