

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

MX4-R-4-D3-30-80-OW-W

(White Housing – Direct – Regressed Opal Lens)

Test Number

IES-P00116

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

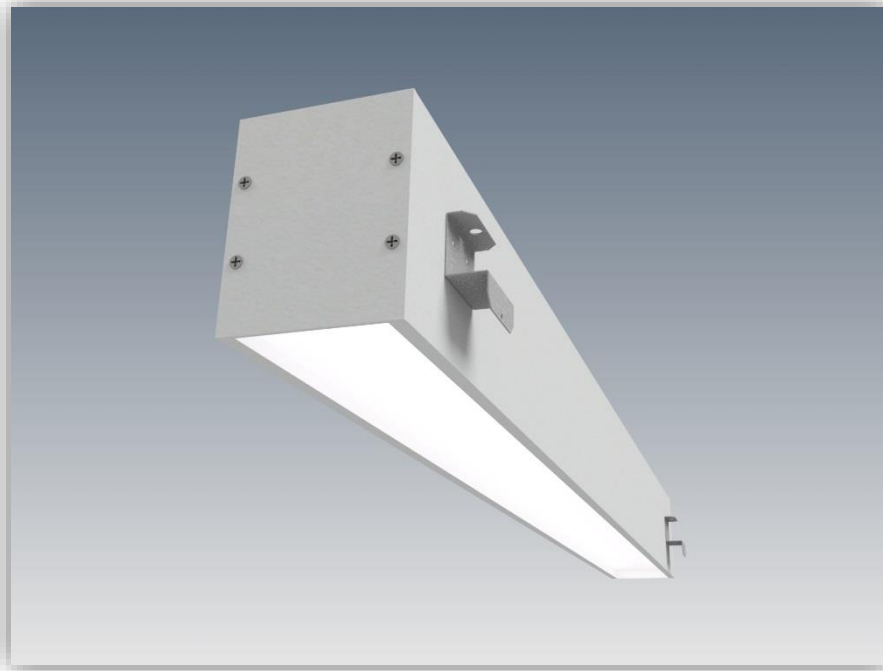


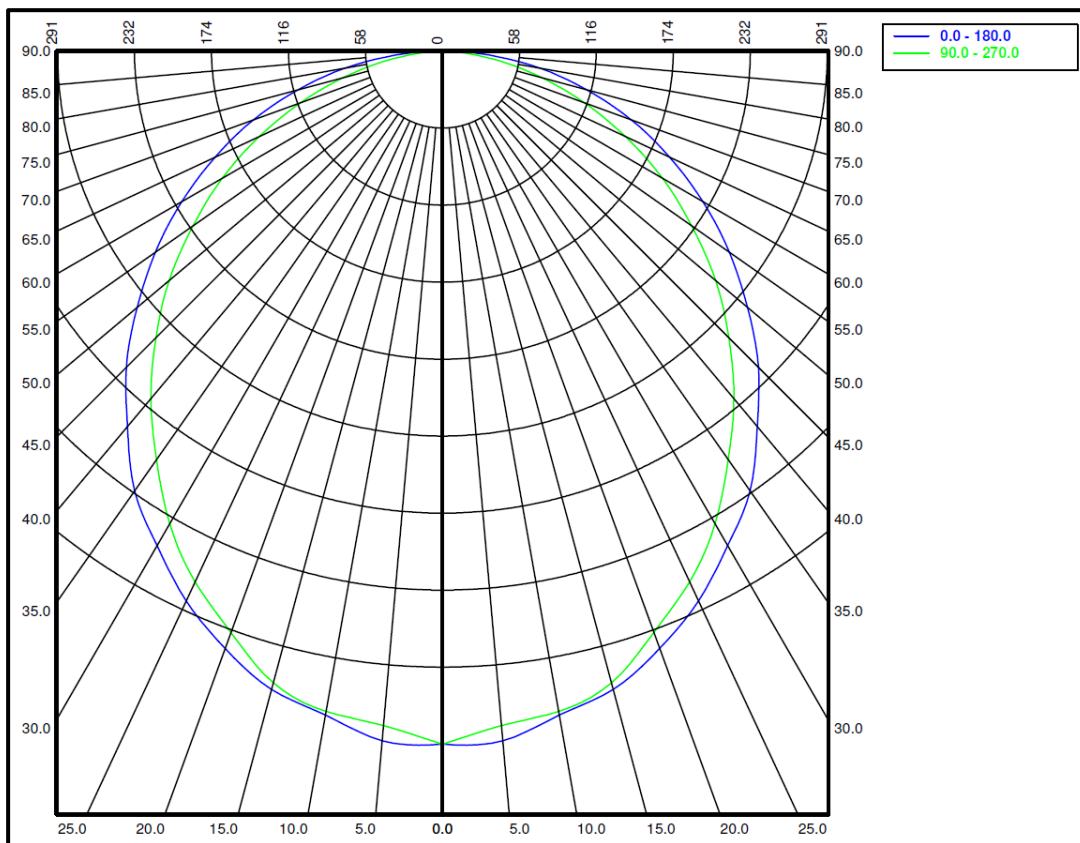
Image may differ slightly from actual unit

Summary of Results

System Power:	18.0W
Total Luminaire Output:	1403 Lumens
Luminaire Efficacy:	78 lm/W
Max Candela:	523.08 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	49.3	3.5%	90-100	0	0.0%
10-20	139.3	9.9%	100-110	0	0.0%
20-30	206.9	14.7%	110-120	0	0.0%
30-40	243.97	17.4%	120-130	0	0.0%
40-50	247.77	17.7%	130-140	0	0.0%
50-60	220.79	15.7%	140-150	0	0.0%
60-70	167.93	12.0%	150-160	0	0.0%
70-80	98.43	7.0%	160-170	0	0.0%
80-90	28.79	2.1%	170-180	0	0.0%
0-90	1403.18	100.0%	0-180	1403.18	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	523	523	523	523	523	523	523	523	523	523	523	523	523	523	523	523
5	522	523	523	517	511	517	523	523	522	523	523	517	511	517	523	523
10	509	513	509	510	506	510	509	513	509	513	509	510	506	510	509	513
15	499	496	494	490	494	490	494	496	499	496	494	490	494	490	494	496
20	480	479	474	467	467	467	474	479	480	479	474	467	467	467	474	479
25	458	453	450	444	442	444	450	453	458	453	450	444	442	444	450	453
30	431	428	422	414	412	414	422	428	431	428	422	414	412	414	422	428
35	405	398	389	382	376	382	389	398	405	398	389	382	376	382	389	398
40	370	367	356	348	342	348	356	367	370	367	356	348	342	348	356	367
45	338	332	321	309	306	309	321	332	338	332	321	309	306	309	321	332
50	301	297	284	273	269	273	284	297	301	297	284	273	269	273	284	297
55	265	259	246	235	230	235	246	259	265	259	246	235	230	235	246	259
60	227	220	208	196	192	196	208	220	227	220	208	196	192	196	208	220
65	189	182	168	157	152	157	168	182	189	182	168	157	152	157	168	182
70	152	143	129	118	114	118	129	143	152	143	129	118	114	118	129	143
75	113	105	90	80	78	80	90	105	113	105	90	80	78	80	90	105
80	75	67	54	46	45	46	54	67	75	67	54	46	45	46	54	67
85	36	27	20	17	17	17	20	27	36	27	20	17	17	17	20	27
90	6	4	4	4	4	4	4	4	6	4	4	4	4	4	4	4

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	5294	5294	5294
45	4827	4584	4374
55	4666	4339	4049
65	4530	4023	3647
75	4403	3529	3044
85	4138	2282	1937

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	1670	1670	1670	1670	1628	1628	1628	1628	1558	1558	1558	1487	1487	1487	1431	1431	1431	1403
1	1529	1459	1403	1347	1487	1431	1375	1319	1361	1319	1277	1305	1277	1235	1263	1235	1207	1179
2	1389	1277	1179	1094	1347	1249	1151	1080	1193	1123	1052	1151	1080	1038	1109	1052	1010	982
3	1263	1123	996	912	1235	1094	982	898	1052	968	884	1010	940	870	982	912	856	828
4	1165	996	870	772	1123	968	856	772	940	842	758	898	814	744	870	800	730	702
5	1066	884	758	659	1038	870	758	659	842	730	659	814	716	645	786	702	645	617
6	982	800	674	589	954	786	659	575	758	659	575	730	645	575	716	631	561	533
7	912	730	603	519	884	716	589	519	688	589	505	674	575	505	645	561	505	477
8	856	659	547	463	828	645	533	463	631	533	449	617	519	449	603	519	449	421
9	800	603	491	421	772	603	491	407	589	477	407	561	477	407	547	463	407	379
10	744	561	449	379	730	547	449	379	533	435	379	533	435	379	519	435	365	351

