

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

MX4-R-4-D5-30-80-OW-W

(White Housing – Direct – Regressed Opal Lens)

Test Number

IES-P00117

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

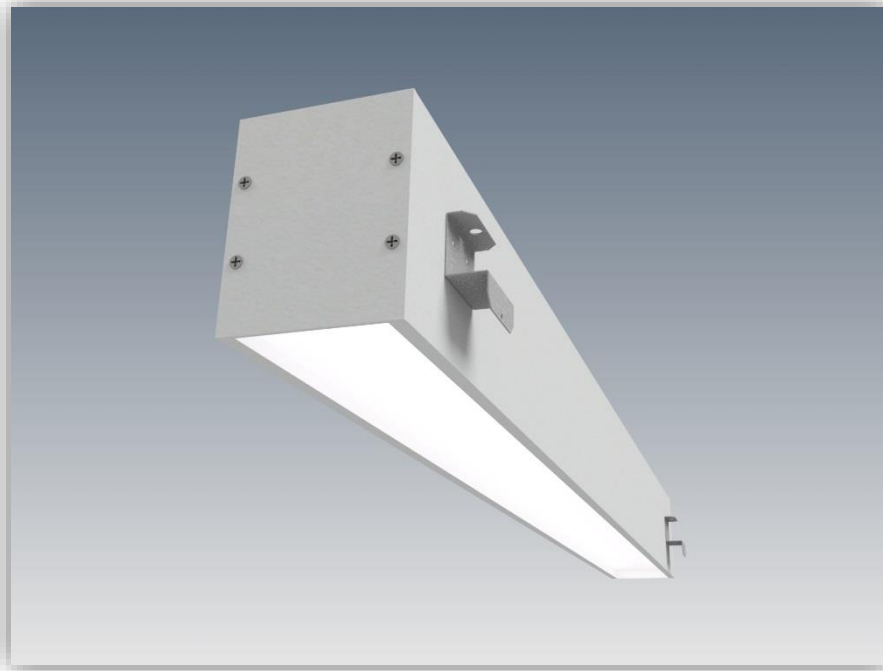


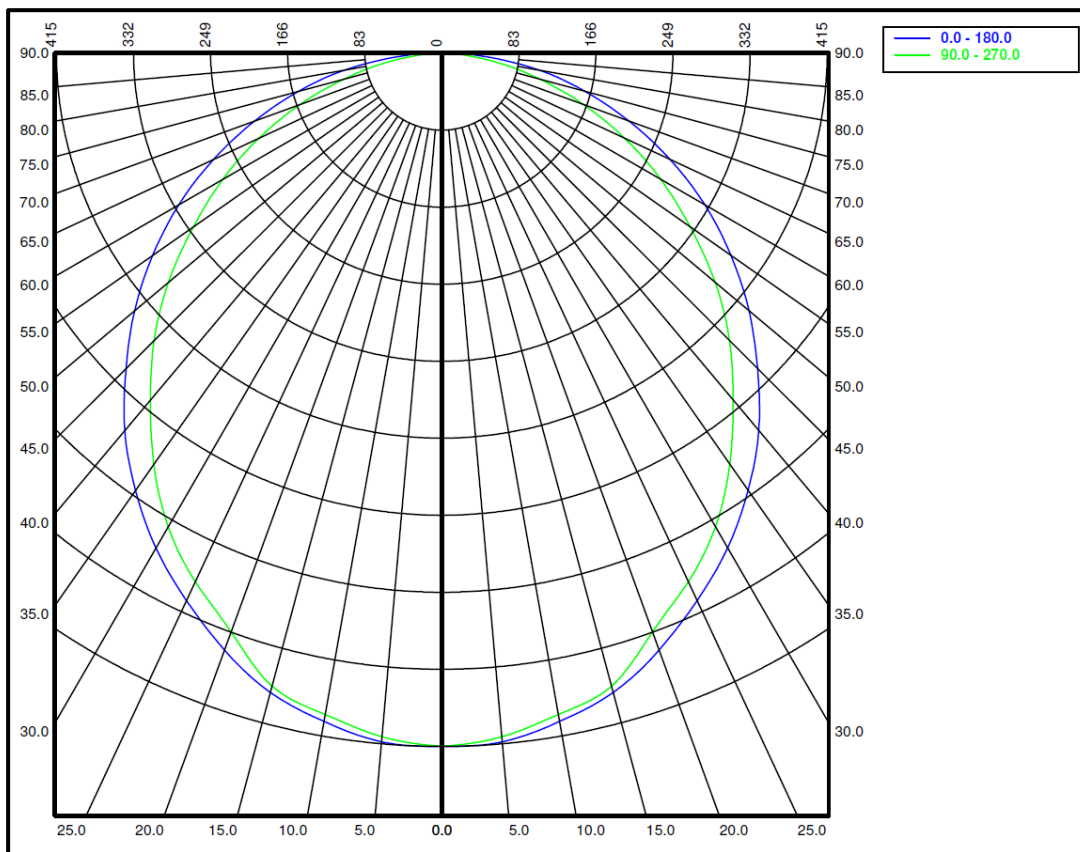
Image may differ slightly from actual unit

Summary of Results

System Power:	25.4W
Total Luminaire Output:	2005 Lumens
Luminaire Efficacy:	79 lm/W
Max Candela:	747.87 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	70.37	3.5%	90-100	0	0.0%
10-20	199.1	9.9%	100-110	0	0.0%
20-30	295.48	14.7%	110-120	0	0.0%
30-40	348.65	17.4%	120-130	0	0.0%
40-50	354.53	17.7%	130-140	0	0.0%
50-60	315.81	15.7%	140-150	0	0.0%
60-70	240.01	12.0%	150-160	0	0.0%
70-80	140.28	7.0%	160-170	0	0.0%
80-90	41.03	2.0%	170-180	0	0.0%
0-90	2005.26	100.0%	0-180	2005.26	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	748	748	748	748	748	748	748	748	748	748	748	748	748	748	748	748
5	746	748	732	746	740	746	732	748	746	748	732	746	740	746	732	748
10	732	730	723	727	724	727	723	730	732	730	723	727	724	727	723	730
15	714	710	704	704	707	704	704	710	714	710	704	704	707	704	704	710
20	685	680	677	673	664	673	677	680	685	680	677	673	664	673	677	680
25	652	650	640	634	629	634	640	650	652	650	640	634	629	634	640	650
30	616	611	603	591	590	591	603	611	616	611	603	591	590	591	603	611
35	576	570	554	545	541	545	554	570	576	570	554	545	541	545	554	570
40	532	526	510	494	489	494	510	526	532	526	510	494	489	494	510	526
45	482	475	458	443	439	443	458	475	482	475	458	443	439	443	458	475
50	432	423	406	390	385	390	406	423	432	423	406	390	385	390	406	423
55	381	371	352	335	327	335	352	371	381	371	352	335	327	335	352	371
60	328	317	298	280	273	280	298	317	328	317	298	280	273	280	298	317
65	272	261	240	223	218	223	240	261	272	261	240	223	218	223	240	261
70	215	204	185	168	163	168	185	204	215	204	185	168	163	168	185	204
75	160	149	129	116	111	116	129	149	160	149	129	116	111	116	129	149
80	107	94	76	66	64	66	76	94	107	94	76	66	64	66	76	94
85	50	39	28	25	24	25	28	39	50	39	28	25	24	25	28	39
90	9	6	5	5	5	5	5	6	9	6	5	5	5	5	5	6

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	7569	7569	7569
45	6886	6554	6275
55	6711	6200	5769
65	6499	5744	5214
75	6261	5023	4317
85	5850	3282	2754

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	2386	2386	2386	2386	2326	2326	2326	2326	2226	2226	2226	2126	2126	2126	2045	2045	2045	2005
1	2186	2085	2005	1925	2126	2045	1965	1885	1945	1885	1825	1865	1825	1765	1805	1765	1725	1684
2	1985	1825	1684	1564	1925	1785	1644	1544	1704	1604	1504	1644	1544	1484	1584	1504	1444	1404
3	1805	1604	1424	1303	1765	1564	1404	1283	1504	1384	1263	1444	1344	1243	1404	1303	1223	1183
4	1664	1424	1243	1103	1604	1384	1223	1103	1344	1203	1083	1283	1163	1063	1243	1143	1043	1003
5	1524	1263	1083	942	1484	1243	1083	942	1203	1043	942	1163	1023	922	1123	1003	922	882
6	1404	1143	963	842	1364	1123	942	822	1083	942	822	1043	922	822	1023	902	802	762
7	1303	1043	862	742	1263	1023	842	742	983	842	722	963	822	722	922	802	722	682
8	1223	942	782	662	1183	922	762	662	902	762	642	882	742	642	862	742	642	602
9	1143	862	702	602	1103	862	702	582	842	682	582	802	682	582	782	662	582	541
10	1063	802	642	541	1043	782	642	541	762	622	541	762	622	541	742	622	521	501

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	21 fc	15 ft
8 ft	12 fc	20 ft
10 ft	7 fc	26 ft
12 ft	5 fc	31 ft
15 ft	3 fc	38 ft

