



PICASSO LIGHTING INDUSTRIES, LLC
46 Sellers Street, Kearny, NJ 07032
201.246.8188

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number
ELI-R-2x2-DR4-30-80-FW-W
(White Housing – Direct – Frosted Lenses)

Test Number

IES-P00126

Test Date

2017-07-05

The results contained in this report pertain only to the tested sample.
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Luminaire Description:	White, Sheet Metal Housing/Reflector, Direct w/ Frosted Acrylic Lenses
Lamp:	LED (3000K, 80+ CRI)
Installation:	Recess Mounted
Luminous Length:	22.56 in
Luminous Width:	22.56 in
Luminous Height:	0.00 in

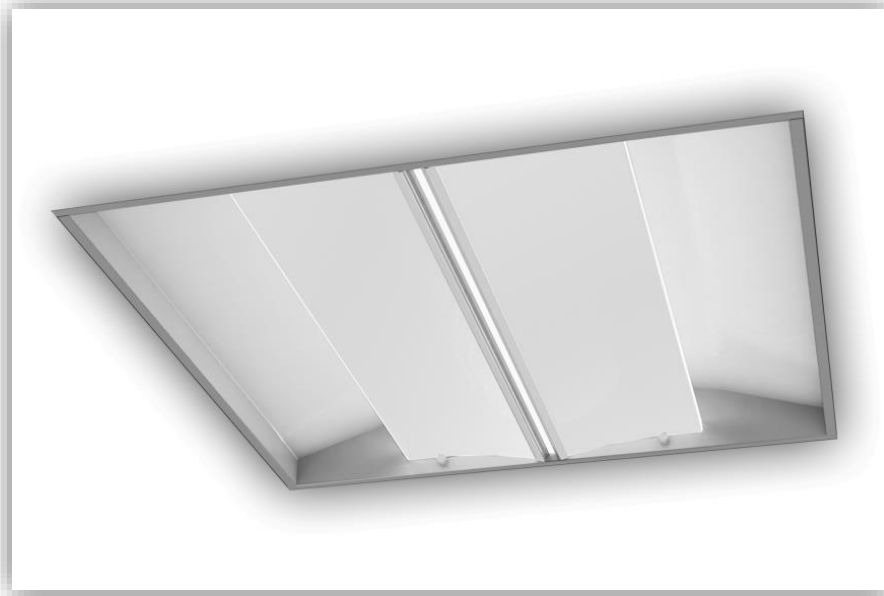


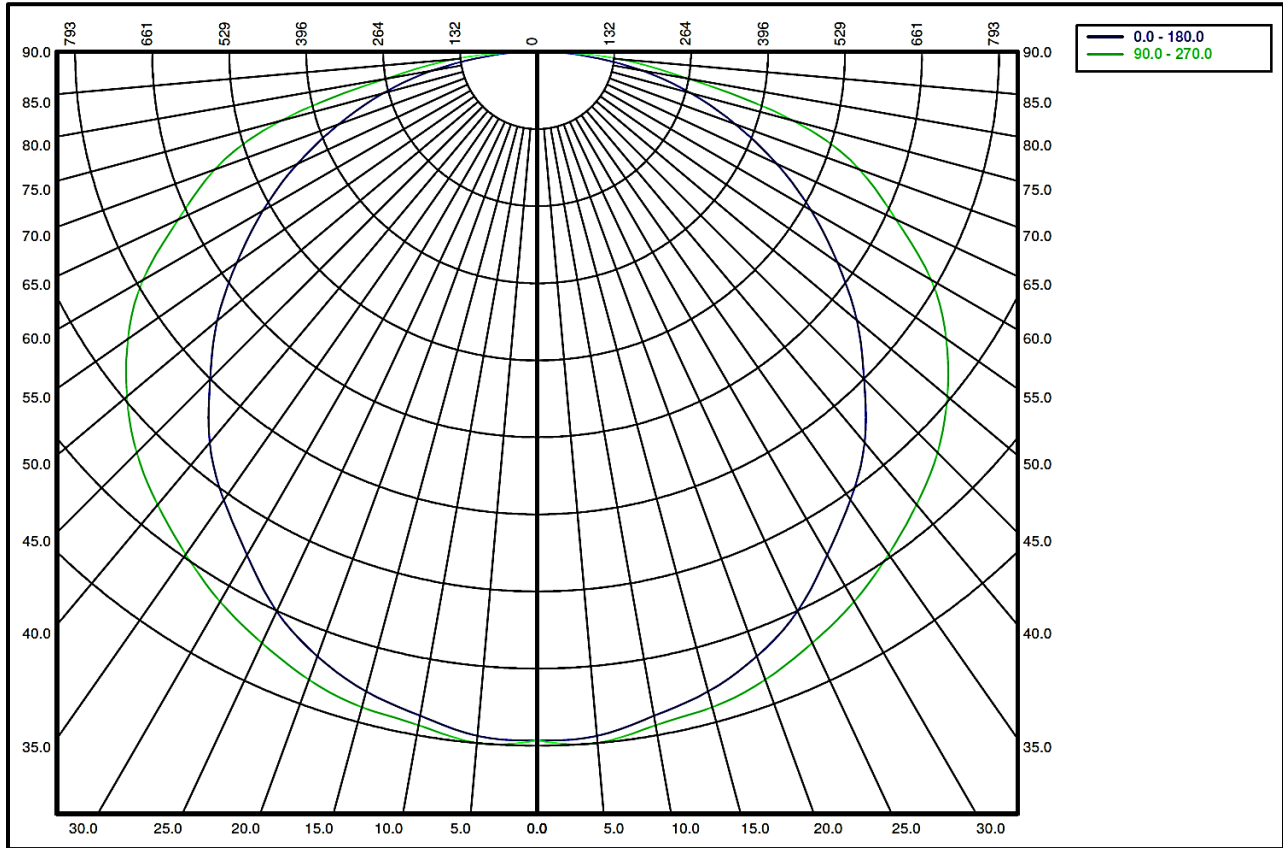
Image may differ slightly from actual unit

Summary of Results

System Power:	37.9W
Total Luminaire Output:	4004 Lumens
Luminaire Efficacy:	106 lm/W
Max Candela:	1189.27 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	112.01	2.8%	90-100	0	0.0%
10-20	324.51	8.1%	100-110	0	0.0%
20-30	501.46	12.5%	110-120	0	0.0%
30-40	623.72	15.6%	120-130	0	0.0%
40-50	680.96	17.0%	130-140	0	0.0%
50-60	667.26	16.7%	140-150	0	0.0%
60-70	572.65	14.3%	150-160	0	0.0%
70-80	388.04	9.7%	160-170	0	0.0%
80-90	133.71	3.3%	170-180	0	0.0%
0-90	4004.32	100.0%	0-180	4004.32	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	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180	1180
5	1177	1178	1172	1179	1189	1179	1172	1178	1177	1178	1172	1179	1189	1179	1172	1178
10	1156	1162	1163	1171	1172	1171	1163	1162	1156	1162	1163	1171	1172	1171	1163	1162
15	1135	1139	1150	1162	1163	1162	1150	1139	1135	1139	1150	1162	1163	1162	1150	1139
20	1103	1104	1125	1133	1145	1133	1125	1104	1103	1104	1125	1133	1145	1133	1125	1104
25	1058	1065	1088	1106	1118	1106	1088	1065	1058	1065	1088	1106	1118	1106	1088	1065
30	996	1020	1044	1075	1088	1075	1044	1020	996	1020	1044	1075	1088	1075	1044	1020
35	938	957	996	1033	1052	1033	996	957	938	957	996	1033	1052	1033	996	957
40	875	891	942	990	1013	990	942	891	875	891	942	990	1013	990	942	891
45	794	822	879	943	972	943	879	822	794	822	879	943	972	943	879	822
50	717	745	817	888	919	888	817	745	717	745	817	888	919	888	817	745
55	629	670	751	823	857	823	751	670	629	670	751	823	857	823	751	670
60	543	590	675	747	781	747	675	590	543	590	675	747	781	747	675	590
65	454	507	591	655	680	655	591	507	454	507	591	655	680	655	591	507
70	363	415	488	552	589	552	488	415	363	415	488	552	589	552	488	415
75	274	318	382	437	457	437	382	318	274	318	382	437	457	437	382	318
80	182	213	251	259	265	259	251	213	182	213	251	259	265	259	251	213
85	88	99	119	137	144	137	119	99	88	99	119	137	144	137	119	99
90	14	18	21	20	20	20	21	18	14	18	21	20	20	20	21	18

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	3594	3594	3594
45	3416	3782	4182
55	3338	3984	4548
65	3272	4257	4893
75	3218	4491	5368
85	3083	4154	5033

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	4765	4765	4765	4765	4645	4645	4645	4645	4445	4445	4445	4245	4245	4245	4084	4084	4084	4004
1	4285	4084	3884	3724	4205	4004	3804	3644	3804	3684	3524	3644	3524	3444	3524	3404	3324	3243
2	3884	3524	3203	2963	3764	3444	3163	2923	3284	3043	2843	3163	2963	2803	3043	2883	2723	2643
3	3524	3043	2683	2403	3404	3003	2643	2403	2883	2603	2363	2763	2523	2323	2643	2443	2282	2162
4	3203	2683	2323	2002	3083	2643	2282	2002	2523	2202	1962	2443	2162	1962	2323	2122	1922	1842
5	2923	2403	2002	1722	2843	2323	1962	1722	2242	1922	1682	2162	1882	1682	2082	1842	1642	1562
6	2683	2122	1762	1482	2603	2082	1762	1482	2042	1722	1482	1962	1682	1442	1882	1642	1442	1361
7	2483	1922	1562	1321	2443	1882	1562	1281	1842	1522	1281	1762	1482	1281	1722	1482	1281	1201
8	2323	1762	1402	1161	2242	1722	1402	1161	1682	1361	1161	1642	1361	1121	1562	1321	1121	1041
9	2162	1602	1281	1041	2122	1602	1241	1041	1522	1241	1041	1482	1201	1041	1442	1201	1001	921
10	2042	1482	1161	921	1962	1442	1161	921	1402	1121	921	1361	1121	921	1361	1081	921	841

