

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number
JAC-R-2x2-DR3-30-80-OW-W
(White Housing – Direct – Opal Lenses)

Test Number

IES-P00068

Test Date

2017-06-05

The results contained in this report pertain only to the tested sample.
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Luminaire Description:	White, Sheet Metal Housing, Direct w/ Opal Lenses
Lamp:	LED (3000K, 80+ CRI)
Installation:	Recess Mounted
Luminous Length:	22.56 in
Luminous Width:	22.63 in
Luminous Height:	0.00 in



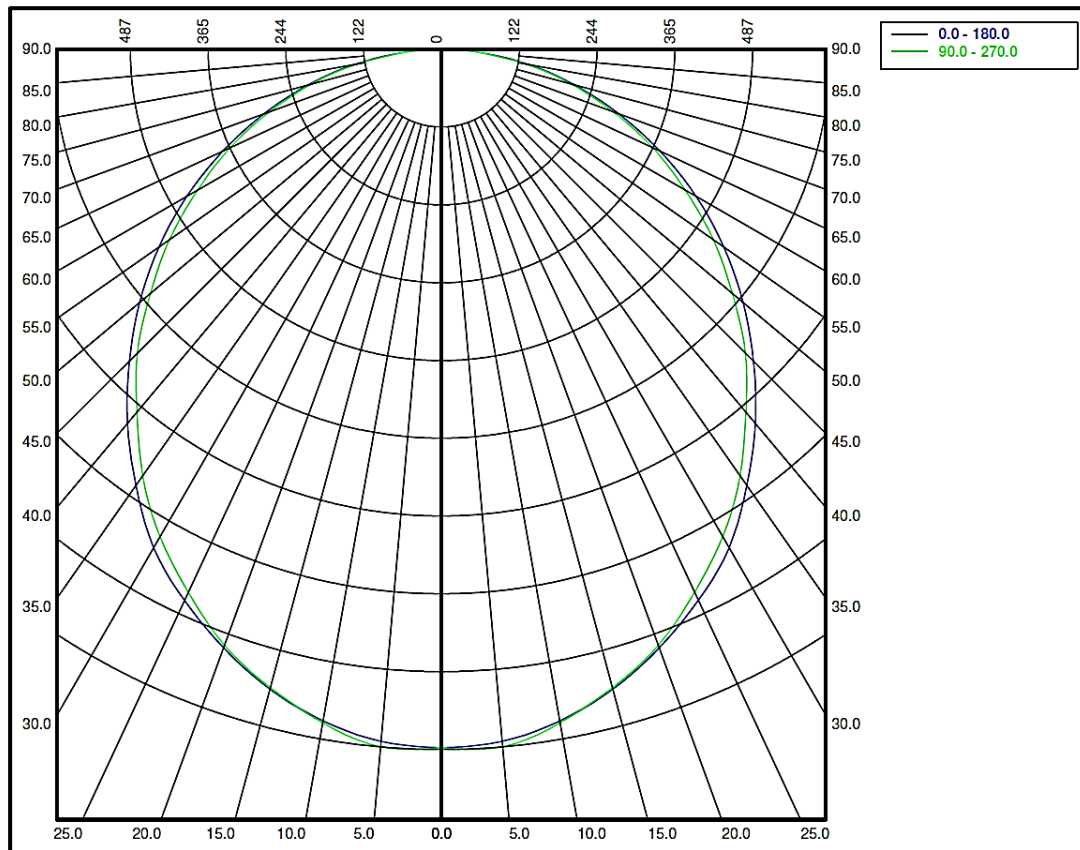
Image may differ slightly from actual unit

Summary of Results

System Power:	28.5W
Total Luminaire Output:	3003 Lumens
Luminaire Efficacy:	105 lm/W
Max Candela:	1096.48 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	103.26	3.4%	90-100	0	0.0%
10-20	292.45	9.7%	100-110	0	0.0%
20-30	435.66	14.5%	110-120	0	0.0%
30-40	515.07	17.2%	120-130	0	0.0%
40-50	524.6	17.5%	130-140	0	0.0%
50-60	471.1	15.7%	140-150	0	0.0%
60-70	364.94	12.2%	150-160	0	0.0%
70-80	223.46	7.4%	160-170	0	0.0%
80-90	72.17	2.4%	170-180	0	0.0%
0-90	3002.71	100.0%	0-180	3002.71	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	1094	1094	1094	1094	1094	1094	1094	1094	1094	1094	1094	1094	1094	1094	1094	1094
5	1088	1088	1087	1094	1096	1094	1087	1088	1088	1088	1087	1094	1096	1094	1087	1088
10	1068	1067	1066	1064	1071	1064	1066	1067	1068	1067	1066	1064	1071	1064	1066	1067
15	1038	1042	1037	1036	1035	1036	1037	1042	1038	1042	1037	1036	1035	1036	1037	1042
20	998	1000	997	993	993	993	997	1000	998	1000	997	993	993	993	997	1000
25	952	950	943	941	938	941	943	950	952	950	943	941	938	941	943	950
30	901	896	887	881	882	881	887	896	901	896	887	881	882	881	887	896
35	834	829	824	815	816	815	824	829	834	829	824	815	816	815	824	829
40	765	759	754	746	742	746	754	759	765	759	754	746	742	746	754	759
45	691	687	679	671	674	671	679	687	691	687	679	671	674	671	679	687
50	617	610	601	597	595	597	601	610	617	610	601	597	595	597	601	610
55	540	535	525	519	520	519	525	535	540	535	525	519	520	519	525	535
60	460	451	444	441	441	441	444	451	460	451	444	441	441	441	444	451
65	378	373	366	364	366	364	366	373	378	373	366	364	366	364	366	373
70	296	291	288	287	286	287	288	291	296	291	288	287	286	287	288	291
75	216	213	210	209	210	209	210	213	216	213	210	209	210	209	210	213
80	140	137	133	133	134	133	133	137	140	137	133	133	134	133	133	137
85	64	62	58	57	58	57	58	62	64	62	58	57	58	57	58	62
90	11	11	11	11	12	11	11	11	11	11	11	11	12	11	11	11

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	3320	3320	3320
45	2966	2912	2890
55	2857	2775	2751
65	2713	2627	2626
75	2533	2458	2465
85	2238	2025	2005

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	3573	3573	3573	3573	3483	3483	3483	3483	3333	3333	3333	3183	3183	3183	3063	3063	3063	3003
1	3243	3123	2973	2853	3183	3033	2913	2823	2913	2823	2732	2793	2702	2642	2672	2612	2552	2492
2	2973	2702	2492	2312	2883	2642	2462	2282	2552	2372	2252	2432	2312	2192	2342	2252	2132	2072
3	2702	2372	2132	1922	2612	2342	2102	1922	2252	2042	1892	2162	1982	1832	2072	1922	1802	1742
4	2462	2102	1832	1621	2402	2072	1802	1621	1982	1772	1591	1922	1742	1591	1862	1682	1561	1501
5	2282	1892	1621	1411	2192	1862	1591	1411	1772	1561	1381	1712	1531	1381	1682	1501	1351	1291
6	2102	1682	1411	1231	2042	1651	1411	1231	1621	1381	1201	1561	1351	1201	1501	1321	1201	1141
7	1952	1531	1261	1081	1892	1501	1261	1081	1471	1231	1081	1411	1231	1081	1381	1201	1051	991
8	1802	1411	1141	961	1772	1381	1141	961	1351	1111	961	1291	1111	961	1261	1081	961	901
9	1682	1291	1051	871	1651	1261	1021	871	1231	1021	871	1201	991	871	1171	991	871	811
10	1591	1201	961	781	1561	1171	961	781	1141	931	781	1111	931	781	1081	901	781	721

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	30 fc	15 ft
8 ft	17 fc	20 ft
10 ft	11 fc	25 ft
12 ft	8 fc	30 ft
15 ft	5 fc	37 ft

