

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number
JAC-R-2x2-DR4-30-80-OW-W
(White Housing – Direct – Opal Lenses)

Test Number

IES-P00069

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



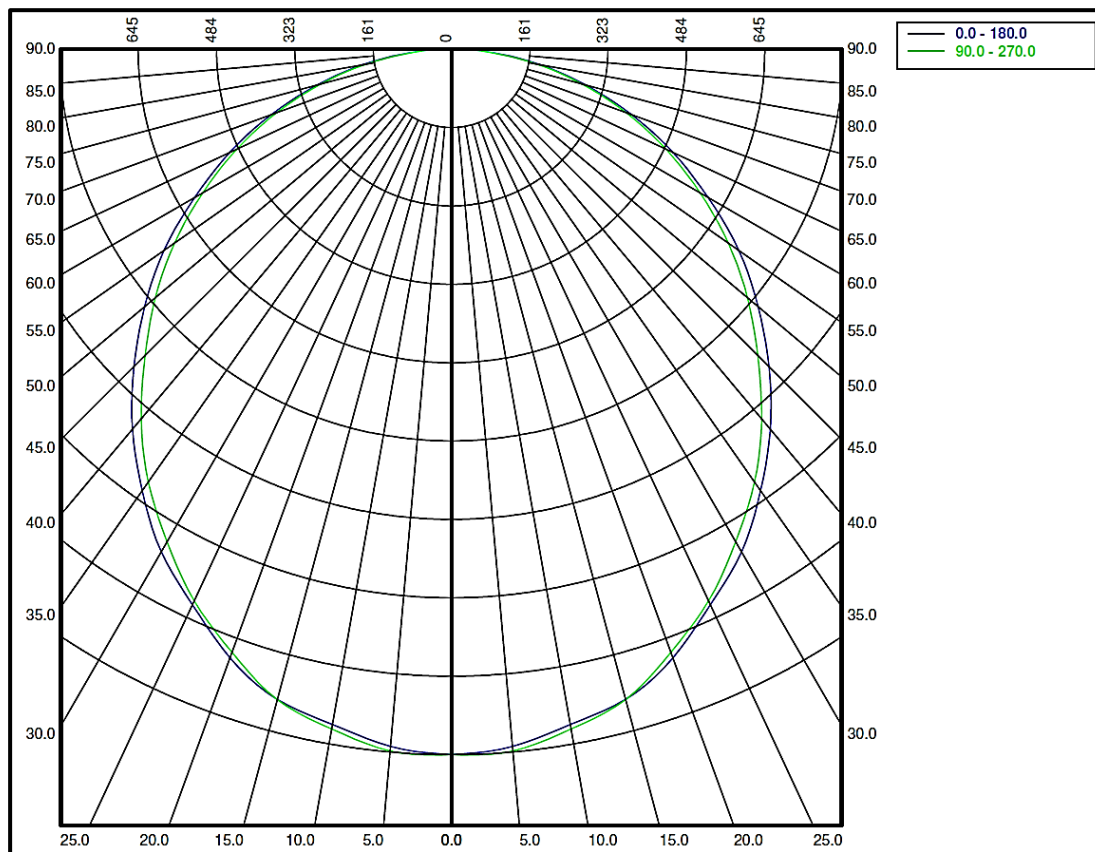
Image may differ slightly from actual unit

Summary of Results

System Power:	38.4W
Total Luminaire Output:	4002 Lumens
Luminaire Efficacy:	104 lm/W
Max Candela:	1454.06 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	137.38	3.4%	90-100	0	0.0%
10-20	389.59	9.7%	100-110	0	0.0%
20-30	580.83	14.5%	110-120	0	0.0%
30-40	686.42	17.2%	120-130	0	0.0%
40-50	699.77	17.5%	130-140	0	0.0%
50-60	628.14	15.7%	140-150	0	0.0%
60-70	486.42	12.2%	150-160	0	0.0%
70-80	297.38	7.4%	160-170	0	0.0%
80-90	96.08	2.4%	170-180	0	0.0%
0-90	4002.01	100.0%	0-180	4002.01	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	1452	1452	1452	1452	1452	1452	1452	1452	1452	1452	1452	1452	1452	1452	1452	1452
5	1440	1454	1454	1453	1450	1453	1454	1454	1440	1454	1454	1453	1450	1453	1454	1454
10	1411	1418	1420	1420	1420	1420	1420	1418	1411	1418	1420	1420	1420	1420	1420	1418
15	1385	1384	1379	1382	1386	1382	1379	1384	1385	1384	1379	1382	1386	1382	1379	1384
20	1333	1334	1329	1323	1321	1323	1329	1334	1333	1334	1329	1323	1321	1323	1329	1334
25	1262	1266	1263	1256	1253	1256	1263	1266	1262	1266	1263	1256	1253	1256	1263	1266
30	1195	1192	1183	1177	1171	1177	1183	1192	1195	1192	1183	1177	1171	1177	1183	1192
35	1110	1106	1096	1087	1088	1087	1096	1106	1110	1106	1096	1087	1088	1087	1096	1106
40	1022	1012	1004	996	994	996	1004	1012	1022	1012	1004	996	994	996	1004	1012
45	925	916	903	897	892	897	903	916	925	916	903	897	892	897	903	916
50	824	816	801	796	796	796	801	816	824	816	801	796	796	796	801	816
55	723	711	698	692	696	692	698	711	723	711	698	692	696	692	698	711
60	610	601	592	590	591	590	592	601	610	601	592	590	591	590	592	601
65	504	497	487	487	488	487	487	497	504	497	487	487	488	487	487	497
70	395	388	383	381	383	381	383	388	395	388	383	381	383	381	383	388
75	286	284	279	278	278	278	279	284	286	284	279	278	278	278	279	284
80	185	184	178	177	178	177	178	184	185	184	178	177	178	177	178	184
85	86	82	77	75	77	75	77	82	86	82	77	75	77	75	77	82
90	15	14	14	16	16	16	14	14	15	14	14	16	16	16	14	14

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	4407	4407	4407
45	3967	3876	3826
55	3821	3693	3680
65	3615	3495	3501
75	3354	3274	3262
85	2998	2690	2675

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	4762	4762	4762	4762	4642	4642	4642	4642	4442	4442	4442	4242	4242	4242	4082	4082	4082	4002
1	4322	4162	3962	3802	4242	4042	3882	3762	3882	3762	3642	3722	3602	3522	3562	3482	3402	3322
2	3962	3602	3322	3082	3842	3522	3282	3042	3402	3162	3002	3242	3082	2921	3122	3002	2841	2761
3	3602	3162	2841	2561	3482	3122	2801	2561	3002	2721	2521	2881	2641	2441	2761	2561	2401	2321
4	3282	2801	2441	2161	3202	2761	2401	2161	2641	2361	2121	2561	2321	2121	2481	2241	2081	2001
5	3042	2521	2161	1881	2961	2481	2121	1881	2361	2081	1841	2281	2041	1841	2241	2001	1801	1721
6	2801	2241	1881	1641	2721	2201	1881	1641	2161	1841	1601	2081	1801	1601	2001	1761	1601	1521
7	2601	2041	1681	1441	2521	2001	1681	1441	1961	1641	1441	1881	1641	1441	1841	1601	1401	1321
8	2401	1881	1521	1281	2361	1841	1521	1281	1801	1481	1281	1721	1481	1281	1681	1441	1281	1201
9	2241	1721	1401	1161	2201	1681	1361	1161	1641	1361	1161	1601	1321	1161	1561	1321	1161	1081
10	2121	1601	1281	1041	2081	1561	1281	1041	1521	1241	1041	1481	1241	1041	1441	1201	1041	960

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	40 fc	15 ft
8 ft	23 fc	20 ft
10 ft	15 fc	25 ft
12 ft	10 fc	30 ft
15 ft	6 fc	37 ft

