

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number
AMA-L-4'-D10-30K-80-OPL-W
(White Housing – Direct – Opal Lens)

Test Number

IES-P00024

Test Date

2017-02-09

The results contained in this report pertain only to the tested sample.
This report shall not be reproduced, except in full, without written approval of Picasso Lighting Industries, LLC.

Luminaire Description:	Aluminum, Extruded Housing, Direct w/ Opal Lens
Lamp:	LED (3000K, 80+ CRI)
Installation:	Suspension from Ceiling, Recessed & Surface Mounted
Luminous Length:	47.13 in
Luminous Width:	3.25 in
Luminous Height:	0.00 in



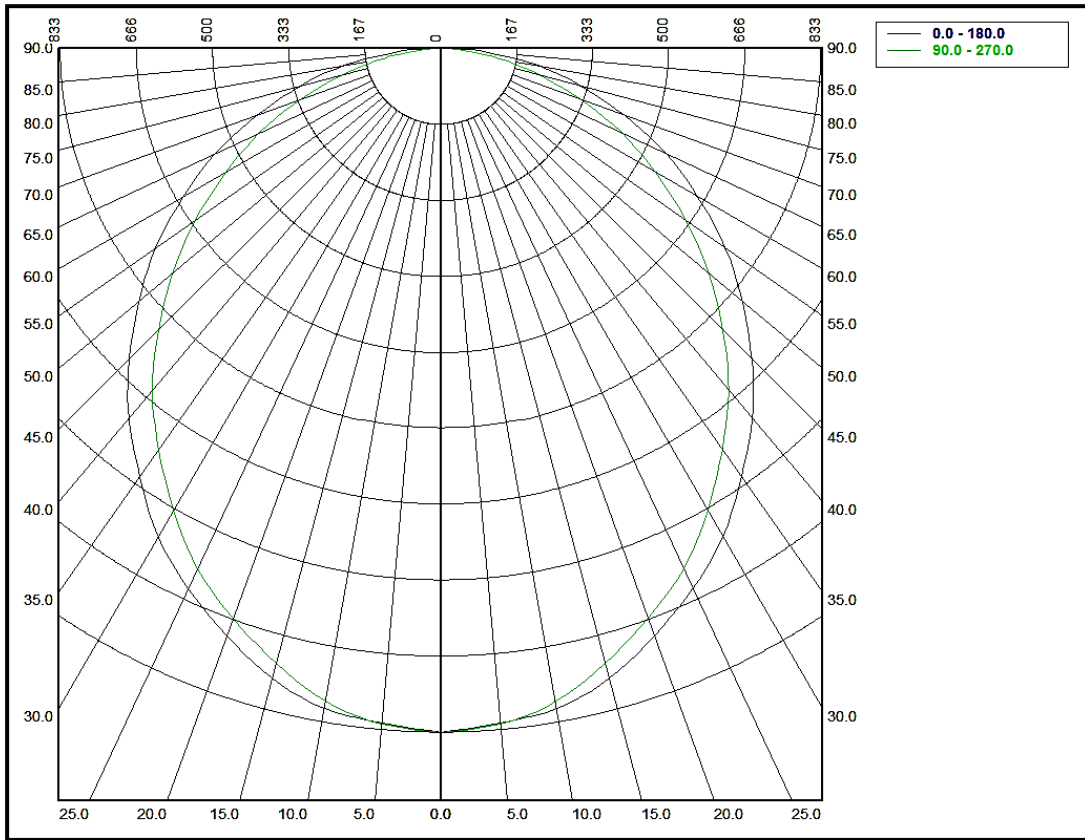
Image may differ slightly from actual unit

Summary of Results

System Power:	50.5W
Total Luminaire Output:	4007 Lumens
Luminaire Efficacy:	79 lm/W
Max Candela:	1499.48 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	140.84	3.5%	90-100	0	0.0%
10-20	397.88	9.9%	100-110	0	0.0%
20-30	590.7	14.7%	110-120	0	0.0%
30-40	696.62	17.4%	120-130	0	0.0%
40-50	708.32	17.7%	130-140	0	0.0%
50-60	630.72	15.7%	140-150	0	0.0%
60-70	479.82	12.0%	150-160	0	0.0%
70-80	280.35	7.0%	160-170	0	0.0%
80-90	82.11	2.0%	170-180	0	0.0%
0-90	4007.36	100.0%	0-180	4007.36	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	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499	1499
5	1485	1489	1483	1474	1488	1474	1483	1489	1485	1489	1483	1474	1488	1474	1483	1489
10	1470	1459	1455	1452	1455	1452	1455	1459	1470	1459	1455	1452	1455	1452	1455	1459
15	1431	1421	1410	1399	1396	1399	1410	1421	1431	1421	1410	1399	1396	1399	1410	1421
20	1371	1362	1356	1341	1330	1341	1356	1362	1371	1362	1356	1341	1330	1341	1356	1362
25	1308	1294	1282	1266	1260	1266	1282	1294	1308	1294	1282	1266	1260	1266	1282	1294
30	1238	1222	1201	1187	1171	1187	1201	1222	1238	1222	1201	1187	1171	1187	1201	1222
35	1148	1139	1112	1086	1076	1086	1112	1139	1148	1139	1112	1086	1076	1086	1112	1139
40	1063	1048	1015	990	982	990	1015	1048	1063	1048	1015	990	982	990	1015	1048
45	964	950	916	887	875	887	916	950	964	950	916	887	875	887	916	950
50	863	845	811	778	767	778	811	845	863	845	811	778	767	778	811	845
55	762	741	704	669	656	669	704	741	762	741	704	669	656	669	704	741
60	651	631	593	559	544	559	593	631	651	631	593	559	544	559	593	631
65	545	520	481	447	438	447	481	520	545	520	481	447	438	447	481	520
70	429	410	368	337	325	337	368	410	429	410	368	337	325	337	368	410
75	319	298	259	231	221	231	259	298	319	298	259	231	221	231	259	298
80	214	188	152	132	128	132	152	188	214	188	152	132	128	132	152	188
85	102	77	57	50	47	50	57	77	102	77	57	50	47	50	57	77
90	18	12	11	10	10	10	11	12	18	12	11	10	10	10	11	12

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	15175	15175	15175
45	13783	13103	12511
55	13427	12402	11569
65	13049	11503	10469
75	12461	10099	8618
85	11818	6574	5493

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	4769	4769	4769	4769	4649	4649	4649	4649	4448	4448	4448	4248	4248	4248	4088	4088	4088	4007
1	4368	4168	4007	3847	4248	4088	3927	3767	3887	3767	3647	3727	3647	3526	3607	3526	3446	3366
2	3967	3647	3366	3126	3847	3567	3286	3086	3406	3206	3006	3286	3086	2965	3166	3006	2885	2805
3	3607	3206	2845	2605	3526	3126	2805	2565	3006	2765	2525	2885	2685	2485	2805	2605	2444	2364
4	3326	2845	2485	2204	3206	2765	2444	2204	2685	2404	2164	2565	2324	2124	2485	2284	2084	2004
5	3046	2525	2164	1924	2965	2485	2164	1883	2404	2084	1883	2324	2044	1843	2244	2004	1843	1763
6	2805	2284	1924	1683	2725	2244	1883	1643	2164	1883	1643	2084	1843	1643	2044	1803	1603	1523
7	2605	2084	1723	1483	2525	2044	1683	1483	1964	1683	1443	1924	1643	1443	1843	1603	1443	1363
8	2444	1883	1563	1322	2364	1843	1523	1322	1803	1523	1282	1763	1483	1282	1723	1483	1282	1202
9	2284	1723	1403	1202	2204	1723	1403	1162	1683	1363	1162	1603	1363	1162	1563	1322	1162	1082
10	2124	1603	1282	1082	2084	1563	1282	1082	1523	1242	1082	1523	1242	1082	1483	1242	1042	1002

