



Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

TRU-L-4'-D10-I7-30K-80-OPL-W

(White Housing – Direct / Indirect – Opal Lens)

Test Number

IES-P00015

Test Date

2017-01-13

The results contained in this report pertain only to the tested sample.
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Luminaire Description:	Aluminum, Extruded Housing, Direct / Indirect w/ Opal Lens
Lamp:	LED (3000K, 80+ CRI)
Installation:	Suspension from Ceiling
Luminous Length:	47.50 in
Luminous Width:	2.75 in
Luminous Height:	0.00 in



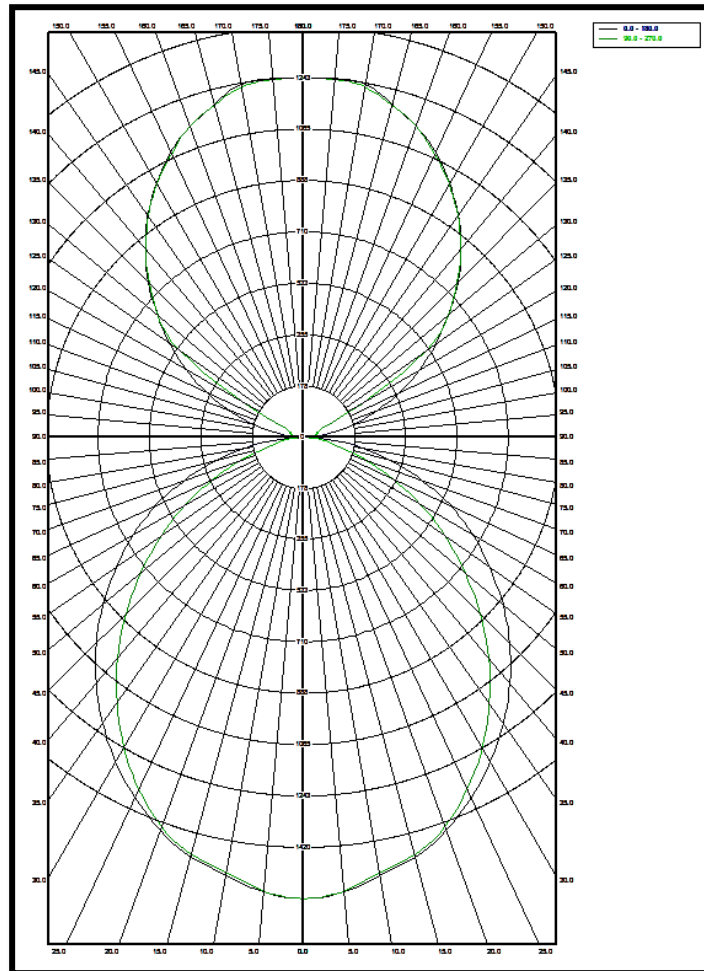
Image may differ slightly from actual unit

Summary of Results

System Power:	79.0W
Total Luminaire Output:	7014 Lumens
Luminaire Efficacy:	89 lm/W
Max Candela:	1597.73 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	149.25	2.1%	90-100	28	0.4%
10-20	422.88	6.0%	100-110	100.47	1.4%
20-30	630.24	9.0%	110-120	261.12	3.7%
30-40	735.78	10.5%	120-130	488.3	7.0%
40-50	729.16	10.4%	130-140	585.35	8.3%
50-60	622.98	8.9%	140-150	585.85	8.4%
60-70	440.69	6.3%	150-160	499.76	7.1%
70-80	222.78	3.2%	160-170	336.57	4.8%
80-90	56.39	0.8%	170-180	118.09	1.7%
0-90	4010.15	57.2%	0-180	7013.66	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	1598	1598	1598	1598	1598	1598	1598	1598	1598	1598	1598	1598	1598	1598	1598	1598
5	1581	1573	1568	1576	1579	1576	1568	1573	1581	1573	1568	1576	1579	1576	1568	1573
10	1541	1534	1541	1539	1531	1539	1541	1534	1541	1534	1541	1539	1531	1539	1541	1534
15	1506	1500	1505	1498	1498	1498	1505	1500	1506	1500	1505	1498	1498	1498	1505	1500
20	1449	1442	1442	1443	1436	1443	1442	1442	1449	1442	1442	1443	1436	1443	1442	1442
25	1378	1376	1377	1361	1347	1361	1377	1376	1378	1376	1377	1361	1347	1361	1377	1376
30	1299	1302	1293	1258	1241	1258	1293	1302	1299	1302	1293	1258	1241	1258	1293	1302
35	1210	1213	1183	1145	1123	1145	1183	1213	1210	1213	1183	1145	1123	1145	1183	1213
40	1114	1112	1070	1016	1001	1016	1070	1112	1114	1112	1070	1016	1001	1016	1070	1112
45	1012	1007	945	889	867	889	945	1007	1012	1007	945	889	867	889	945	1007
50	904	892	821	758	733	758	821	892	904	892	821	758	733	758	821	892
55	789	771	694	627	600	627	694	771	789	771	694	627	600	627	694	771
60	677	648	561	495	470	495	561	648	677	648	561	495	470	495	561	648
65	563	522	432	369	348	369	432	522	563	522	432	369	348	369	432	522
70	442	396	306	251	233	251	306	396	442	396	306	251	233	251	306	396
75	324	269	185	140	128	140	185	269	324	269	185	140	128	140	185	269
80	206	145	85	76	76	76	85	145	206	145	85	76	76	76	85	145
85	80	44	39	39	38	39	39	44	80	44	39	39	38	39	39	44
90	4	4	5	4	5	4	5	4	4	4	5	4	5	4	5	4
95	46	18	21	21	21	21	21	18	46	18	21	21	21	21	21	18
100	118	56	34	39	40	39	34	56	118	56	34	39	40	39	34	56
105	189	153	41	45	47	45	41	153	189	153	41	45	47	45	41	153
110	277	280	108	49	50	49	108	280	277	280	108	49	50	49	108	280
115	371	379	302	99	69	99	302	379	371	379	302	99	69	99	302	379
120	467	472	469	337	232	337	469	472	467	472	469	337	232	337	469	472
125	563	569	569	551	521	551	569	569	563	569	569	551	521	551	569	569
130	659	664	666	661	658	661	666	664	659	664	666	661	658	661	666	664
135	760	762	762	757	754	757	762	762	760	762	762	757	754	757	762	762
140	851	849	855	849	850	849	855	849	851	849	855	849	850	849	855	849
145	939	941	936	934	934	934	936	941	939	941	936	934	934	934	936	941
150	1014	1016	1019	1017	1012	1017	1019	1016	1014	1016	1019	1017	1012	1017	1019	1016
155	1087	1085	1087	1084	1081	1084	1087	1085	1087	1085	1087	1084	1081	1084	1087	1085
160	1144	1145	1147	1142	1146	1142	1147	1145	1144	1145	1147	1142	1146	1142	1147	1145
165	1192	1194	1193	1196	1189	1196	1193	1194	1192	1194	1193	1196	1189	1196	1193	1194
170	1239	1231	1231	1232	1229	1232	1231	1231	1239	1231	1231	1232	1229	1232	1231	1231
175	1244	1238	1238	1243	1242	1243	1238	1238	1244	1238	1238	1243	1242	1243	1238	1238
180	1238	1238	1238	1238	1238	1238	1238	1238	1238	1238	1238	1238	1238	1238	1238	1238

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	18959	18959	18959
45	15064	6021	4570
55	13810	4304	3015
65	12417	2692	1717
75	10096	1196	639
85	4464	269	201

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	7645	7645	7645	7645	7084	7084	7084	7084	6102	6102	6102	5190	5190	5190	4419	4419	4419	3998
1	7014	6663	6382	6172	6523	6242	6032	5821	5401	5190	5050	4629	4489	4348	3928	3858	3717	3437
2	6382	5821	5401	5050	5891	5471	5120	4769	4769	4489	4208	4068	3858	3647	3437	3296	3156	2876
3	5821	5120	4629	4208	5401	4839	4348	3998	4208	3858	3577	3577	3367	3086	3086	2876	2735	2455
4	5330	4559	3998	3577	4910	4278	3787	3367	3717	3367	3016	3226	2946	2665	2735	2525	2315	2104
5	4910	4068	3507	3086	4559	3787	3296	2946	3367	2946	2595	2876	2595	2315	2455	2244	2034	1824
6	4489	3647	3086	2665	4208	3437	2946	2525	3016	2595	2315	2595	2315	2034	2244	1964	1824	1613
7	4138	3296	2735	2315	3858	3086	2595	2244	2735	2315	2034	2385	2034	1824	2034	1824	1613	1403
8	3858	3016	2455	2104	3577	2805	2315	1964	2525	2104	1824	2174	1824	1613	1894	1613	1403	1262
9	3577	2735	2244	1894	3367	2595	2104	1753	2315	1894	1613	2034	1683	1473	1753	1473	1262	1122
10	3367	2525	2034	1683	3156	2385	1894	1613	2104	1753	1473	1824	1543	1333	1613	1333	1192	1052

