

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number
TRU-L-4'-D7-30K-80-OPL-W
(White Housing – Direct – Opal Lens)

Test Number

IES-P00019

Test Date

2017-01-13

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
Luminous Length:	47.50 in
Luminous Width:	2.75 in
Luminous Height:	0.00 in



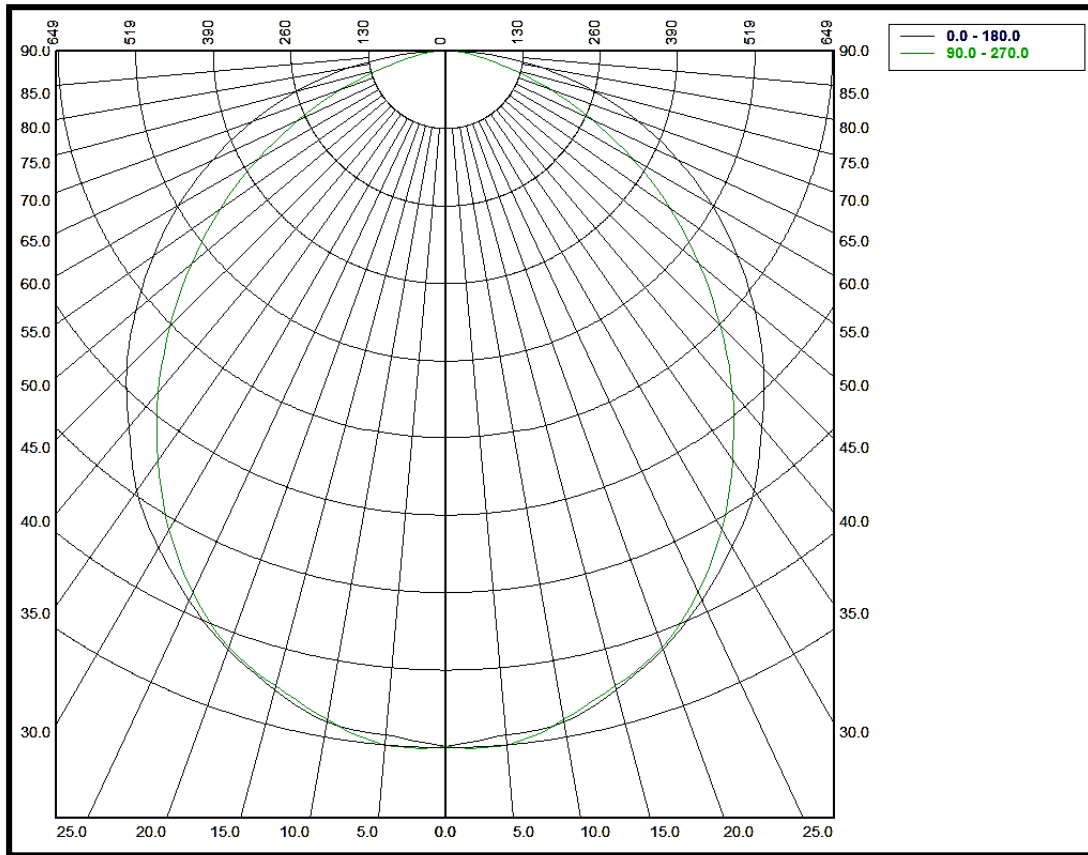
Image may differ slightly from actual unit

Summary of Results

System Power:	37.7W
Total Luminaire Output:	3030 Lumens
Luminaire Efficacy:	80 lm/W
Max Candela:	1168.73 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	109.93	3.6%	90-100	0	0.0%
10-20	312.28	10.3%	100-110	0	0.0%
20-30	467.27	15.4%	110-120	0	0.0%
30-40	548.13	18.1%	120-130	0	0.0%
40-50	547.89	18.1%	130-140	0	0.0%
50-60	474.01	15.6%	140-150	0	0.0%
60-70	341.42	11.3%	150-160	0	0.0%
70-80	178.95	5.9%	160-170	0	0.0%
80-90	49.7	1.6%	170-180	0	0.0%
0-90	3029.58	100.0%	0-180	3029.58	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	1168	1168	1168	1168	1168	1168	1168	1168	1168	1168	1168	1168	1168	1168	1168	1168
5	1152	1165	1155	1153	1169	1153	1155	1165	1152	1165	1155	1153	1169	1153	1155	1165
10	1144	1136	1138	1133	1140	1133	1138	1136	1144	1136	1138	1133	1140	1133	1138	1136
15	1110	1107	1109	1103	1103	1103	1109	1107	1110	1107	1109	1103	1103	1103	1109	1107
20	1068	1071	1068	1068	1064	1068	1068	1071	1068	1071	1068	1068	1064	1068	1068	1071
25	1018	1018	1018	1013	1002	1013	1018	1018	1018	1018	1018	1013	1002	1013	1018	1018
30	963	964	961	934	928	934	961	964	963	964	961	934	928	934	961	964
35	902	904	883	849	840	849	883	904	902	904	883	849	840	849	883	904
40	826	832	799	764	750	764	799	832	826	832	799	764	750	764	799	832
45	756	754	711	671	654	671	711	754	756	754	711	671	654	671	711	754
50	678	673	620	575	558	575	620	673	678	673	620	575	558	575	620	673
55	598	586	528	478	462	478	528	586	598	586	528	478	462	478	528	586
60	517	494	431	382	365	382	431	494	517	494	431	382	365	382	431	494
65	432	403	335	288	272	288	335	403	432	403	335	288	272	288	335	403
70	343	309	241	200	186	200	241	309	343	309	241	200	186	200	241	309
75	257	215	152	117	106	117	152	215	257	215	152	117	106	117	152	215
80	168	122	72	60	61	60	72	122	168	122	72	60	61	60	72	122
85	73	42	34	34	34	34	34	42	73	42	34	34	34	34	34	42
90	10	9	9	9	8	9	9	9	10	9	9	9	8	9	9	9

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

ANGLES	0-Deg	45-Deg	90-Deg
0	13858	13858	13858
45	12674	11923	10956
55	12350	10905	9543
65	12118	9407	7636
75	11772	6954	4860
85	9966	4626	4573

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	3605	3605	3605	3605	3514	3514	3514	3514	3363	3363	3363	3211	3211	3211	3090	3090	3090	3030
1	3302	3181	3030	2939	3211	3090	2969	2878	2969	2878	2787	2848	2787	2696	2757	2666	2636	2575
2	3030	2787	2575	2393	2939	2727	2545	2363	2605	2454	2333	2515	2393	2272	2424	2302	2212	2151
3	2757	2454	2212	2000	2666	2393	2181	2000	2302	2121	1969	2212	2060	1909	2151	2000	1878	1818
4	2515	2181	1909	1697	2454	2121	1878	1697	2060	1848	1666	2000	1787	1666	1909	1757	1636	1575
5	2333	1939	1666	1484	2272	1909	1666	1484	1848	1636	1454	1787	1606	1454	1727	1575	1424	1363
6	2151	1757	1484	1303	2090	1727	1484	1303	1666	1454	1272	1606	1424	1272	1575	1394	1242	1182
7	2000	1606	1333	1151	1939	1575	1333	1151	1515	1303	1121	1484	1272	1121	1424	1242	1121	1060
8	1848	1454	1212	1030	1818	1424	1182	1030	1394	1182	1030	1363	1151	1000	1333	1151	1000	939
9	1727	1333	1091	939	1697	1333	1091	909	1272	1060	909	1242	1060	909	1212	1030	909	848
10	1636	1242	1000	848	1606	1212	1000	848	1182	969	848	1151	969	818	1121	969	818	788

