

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

TRU-L-4'-D5-I7-30K-80-OPL-W

(White Housing – Direct / Indirect – Opal Lens)

Test Number

IES-P00007

Test Date

2017-01-12

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



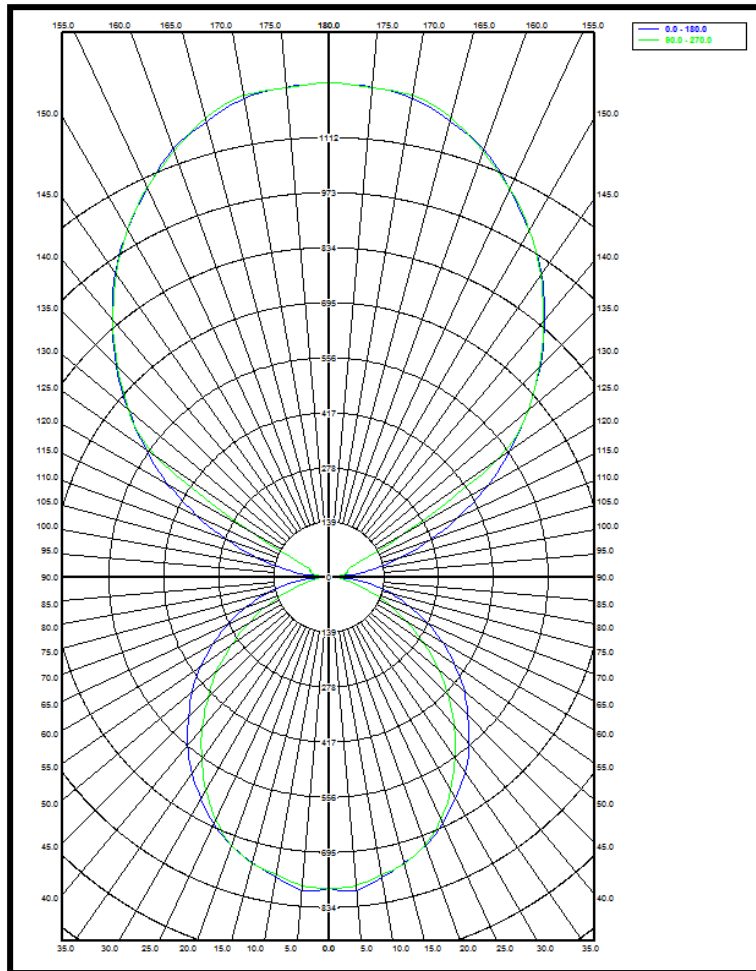
Image may differ slightly from actual unit

Summary of Results

System Power:	53.1W
Total Luminaire Output:	5010 Lumens
Luminaire Efficacy:	94 lm/W
Max Candela:	1251.84 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	74.54	1.5%	90-100	27.62	0.6%
10-20	211.09	4.2%	100-110	100.68	2.0%
20-30	314.52	6.3%	110-120	261.54	5.2%
30-40	367.06	7.3%	120-130	489.04	9.8%
40-50	363.94	7.3%	130-140	586.12	11.7%
50-60	311.47	6.2%	140-150	586.73	11.7%
60-70	220.14	4.4%	150-160	500.52	10.0%
70-80	111.34	2.2%	160-170	337.05	6.7%
80-90	28.44	0.6%	170-180	118.62	2.4%
0-90	2002.54	40.0%	0-180	5010.46	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	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787	787
5	794	788	789	787	781	787	789	788	794	788	789	787	781	787	789	788
10	771	771	770	770	763	770	770	771	771	771	770	770	763	770	770	771
15	748	748	750	745	749	745	750	748	748	748	750	745	749	745	750	748
20	720	723	721	720	720	720	721	723	720	723	721	720	720	720	721	723
25	687	686	686	680	676	680	686	686	687	686	686	680	676	680	686	686
30	645	647	644	627	621	627	644	647	645	647	644	627	621	627	644	647
35	604	606	592	570	560	570	592	606	604	606	592	570	560	570	592	606
40	555	555	534	508	498	508	534	555	555	555	534	508	498	508	534	555
45	501	503	472	444	433	444	472	503	501	503	472	444	433	444	472	503
50	451	446	409	379	369	379	409	446	451	446	409	379	369	379	409	446
55	395	387	347	313	300	313	347	387	395	387	347	313	300	313	347	387
60	338	323	281	248	236	248	281	323	338	323	281	248	236	248	281	323
65	280	261	216	184	175	184	216	261	280	261	216	184	175	184	216	261
70	222	197	153	125	116	125	153	197	222	197	153	125	116	125	153	197
75	163	134	93	70	64	70	93	134	163	134	93	70	64	70	93	134
80	103	73	42	38	38	38	42	73	103	73	42	38	38	38	42	73
85	40	22	20	19	19	19	20	22	40	22	20	19	19	19	20	22
90	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
95	46	18	20	21	21	21	20	18	46	18	20	21	21	21	20	18
100	119	56	34	39	40	39	34	56	119	56	34	39	40	39	34	56
105	190	154	41	45	48	45	41	154	190	154	41	45	48	45	41	154
110	276	281	108	50	50	50	108	281	276	281	108	50	50	50	108	281
115	370	381	303	100	71	100	303	381	370	381	303	100	71	100	303	381
120	469	474	471	334	231	334	471	474	469	474	471	334	231	334	471	474
125	562	568	570	554	522	554	570	568	562	568	570	554	522	554	570	568
130	661	665	668	662	661	662	668	665	661	665	668	662	661	662	668	665
135	759	762	761	760	756	760	761	762	759	762	761	760	756	760	761	762
140	852	853	852	849	849	849	852	853	852	853	852	849	849	849	852	853
145	941	943	938	937	936	937	938	943	941	943	938	937	936	937	938	943
150	1017	1019	1016	1017	1017	1017	1016	1019	1017	1019	1016	1017	1017	1017	1016	1019
155	1085	1089	1086	1084	1086	1084	1086	1089	1085	1089	1086	1084	1086	1084	1086	1089
160	1152	1151	1150	1144	1145	1144	1150	1151	1152	1151	1150	1144	1145	1144	1150	1151
165	1193	1193	1196	1193	1203	1193	1196	1193	1193	1193	1196	1193	1203	1193	1196	1193
170	1230	1230	1233	1229	1237	1229	1233	1230	1230	1230	1233	1229	1237	1229	1233	1230
175	1244	1251	1250	1252	1242	1252	1250	1251	1244	1251	1250	1252	1242	1252	1250	1251
180	1251	1251	1251	1251	1251	1251	1251	1251	1251	1251	1251	1251	1251	1251	1251	1251

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	9339	9339	9339
45	7457	3005	2282
55	6912	2152	1508
65	6190	1348	863
75	5060	598	320
85	2207	136	101

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	5261	5261	5261	5261	4760	4760	4760	4760	3908	3908	3908	3106	3106	3106	2355	2355	2355	2004
1	4810	4560	4409	4209	4359	4159	4008	3858	3407	3307	3207	2706	2656	2605	2104	2054	2004	1704
2	4359	4008	3708	3457	3958	3658	3407	3207	3006	2806	2656	2405	2255	2154	1854	1754	1704	1453
3	4008	3507	3157	2856	3608	3207	2906	2656	2656	2405	2255	2104	1954	1854	1653	1553	1453	1203
4	3658	3106	2706	2455	3307	2856	2505	2255	2355	2104	1904	1904	1704	1553	1453	1353	1253	1052
5	3357	2756	2355	2104	3056	2555	2205	1954	2104	1854	1653	1704	1503	1353	1303	1203	1102	902
6	3056	2505	2104	1804	2806	2305	1954	1704	1904	1653	1453	1553	1353	1203	1203	1052	952	802
7	2856	2255	1854	1603	2605	2054	1704	1453	1704	1453	1253	1403	1203	1052	1102	952	852	701
8	2656	2054	1653	1403	2405	1854	1553	1303	1553	1303	1102	1253	1102	952	1002	852	752	651
9	2455	1854	1503	1253	2255	1704	1403	1152	1453	1152	1002	1152	1002	852	902	802	701	551
10	2305	1704	1353	1102	2104	1553	1253	1052	1303	1052	902	1102	902	752	852	701	601	501

