

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-I3-30K-80-OPL-W

(White Housing – Direct / Indirect – Opal Lens)

Test Number

IES-P00005

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



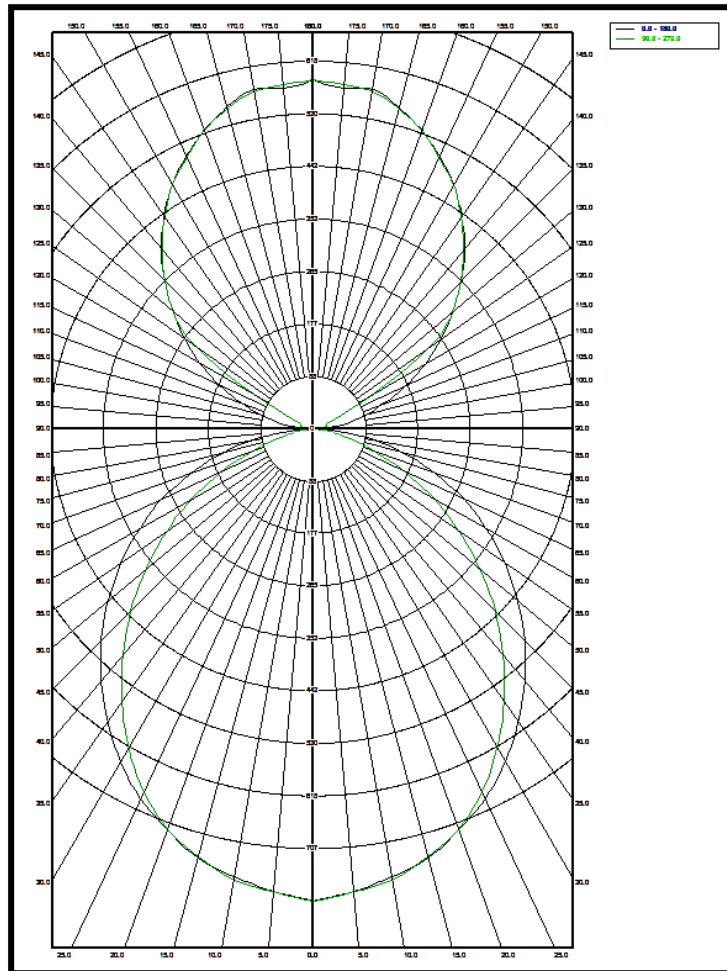
Image may differ slightly from actual unit

Summary of Results

System Power:	37.7W
Total Luminaire Output:	3407 Lumens
Luminaire Efficacy:	90 lm/W
Max Candela:	795.0 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	74.43	2.2%	90-100	13.17	0.4%
10-20	211.06	6.2%	100-110	46.98	1.4%
20-30	314.6	9.2%	110-120	121.99	3.6%
30-40	366.95	10.8%	120-130	228.41	6.7%
40-50	364.41	10.7%	130-140	273.95	8.0%
50-60	311.22	9.1%	140-150	274.03	8.0%
60-70	220.18	6.5%	150-160	233.73	6.9%
70-80	111.15	3.3%	160-170	157.6	4.6%
80-90	28.16	0.8%	170-180	55.39	1.6%
0-90	2002.16	58.8%	0-180	3407.41	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	795	795	795	795	795	795	795	795	795	795	795	795	795	795	795	795
5	781	786	785	782	783	782	785	786	781	786	785	782	783	782	785	786
10	766	771	769	769	771	769	769	771	766	771	769	769	771	769	769	771
15	749	749	748	747	746	747	748	749	749	749	748	747	746	747	748	749
20	719	722	722	722	718	722	722	722	719	722	722	722	718	722	722	722
25	687	687	688	678	675	678	688	687	687	687	688	678	675	678	688	687
30	648	647	642	628	622	628	642	647	648	647	642	628	622	628	642	647
35	603	603	592	571	562	571	592	603	603	603	592	571	562	571	592	603
40	556	556	534	507	498	507	534	556	556	556	534	507	498	507	534	556
45	505	502	475	445	434	445	475	502	505	502	475	445	434	445	475	502
50	451	445	410	379	367	379	410	445	451	445	410	379	367	379	410	445
55	395	385	346	313	301	313	346	385	395	385	346	313	301	313	346	385
60	337	324	281	247	236	247	281	324	337	324	281	247	236	247	281	324
65	282	261	216	184	174	184	216	261	282	261	216	184	174	184	216	261
70	221	197	153	125	117	125	153	197	221	197	153	125	117	125	153	197
75	162	135	93	70	64	70	93	135	162	135	93	70	64	70	93	135
80	103	72	42	38	38	38	42	72	103	72	42	38	38	38	42	72
85	40	22	19	20	19	20	19	22	40	22	19	20	19	20	19	22
90	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
95	21	9	10	10	10	10	10	9	21	9	10	10	10	10	10	9
100	55	26	16	18	19	18	16	26	55	26	16	18	19	18	16	26
105	89	72	19	21	22	21	19	72	89	72	19	21	22	21	19	72
110	129	131	51	23	23	23	51	131	129	131	51	23	23	23	51	131
115	174	177	141	46	33	46	141	177	174	177	141	46	33	46	141	177
120	218	221	219	156	108	156	219	221	218	221	219	156	108	156	219	221
125	264	266	267	259	243	259	267	266	264	266	267	259	243	259	267	266
130	308	311	311	310	308	310	311	311	308	311	311	310	308	310	311	311
135	354	357	357	354	353	354	357	357	354	357	357	354	353	354	357	357
140	400	399	399	397	396	397	399	399	400	399	399	397	396	397	399	399
145	437	439	438	438	436	438	438	439	437	439	438	438	436	438	438	439
150	475	476	475	476	474	476	475	476	475	476	475	476	474	476	475	476
155	506	510	508	507	504	507	508	510	506	510	508	507	504	507	508	510
160	536	537	536	534	535	534	536	537	536	537	536	534	535	534	536	537
165	561	558	559	560	558	560	559	558	561	558	559	560	558	560	559	558
170	580	578	577	576	576	576	577	578	580	578	577	576	576	576	577	578
175	575	578	584	583	581	583	584	578	575	578	584	583	581	583	584	578
180	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587	587

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	9434	9434	9434
45	7510	3024	2288
55	6918	2150	1509
65	6214	1346	861
75	5032	599	319
85	2221	134	100

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	3714	3714	3714	3714	3476	3476	3476	3476	2999	2999	2999	2590	2590	2590	2181	2181	2181	2010
1	3407	3271	3135	2999	3169	3033	2930	2828	2658	2556	2487	2283	2215	2181	1942	1908	1874	1704
2	3101	2862	2658	2453	2896	2658	2487	2317	2317	2181	2079	2010	1908	1806	1704	1636	1567	1431
3	2828	2521	2249	2044	2624	2351	2147	1942	2044	1874	1738	1772	1636	1533	1533	1431	1329	1227
4	2590	2215	1942	1738	2419	2079	1840	1670	1840	1636	1499	1601	1431	1329	1363	1261	1159	1056
5	2385	1976	1704	1499	2215	1874	1601	1431	1636	1431	1295	1431	1261	1159	1227	1124	1022	920
6	2215	1772	1499	1295	2044	1670	1431	1261	1465	1261	1124	1295	1124	1022	1124	988	886	818
7	2044	1601	1329	1159	1908	1533	1261	1090	1329	1124	988	1193	1022	886	1022	886	784	716
8	1874	1465	1193	1022	1772	1397	1159	988	1227	1022	886	1090	920	784	954	818	716	647
9	1772	1329	1090	920	1636	1261	1022	886	1124	920	784	988	818	716	852	750	647	579
10	1636	1227	988	818	1533	1159	954	784	1022	852	716	920	750	647	818	681	579	511

