

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

TRU-M-PW-4-D5-I10-30-80-OW-CL-W

(White Housing – Direct / Indirect – Opal & Matte Clear Lenses)

Test Number

IES-P00142

Test Date

2017-10-03

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 & Matte Clear Lenses
Lamp:	LED (3000K, 80+ CRI)
Installation:	Suspension from Ceiling, Wall Mounted
Luminous Length:	47.50 in
Luminous Width:	2.75 in
Luminous Height:	4.75 in



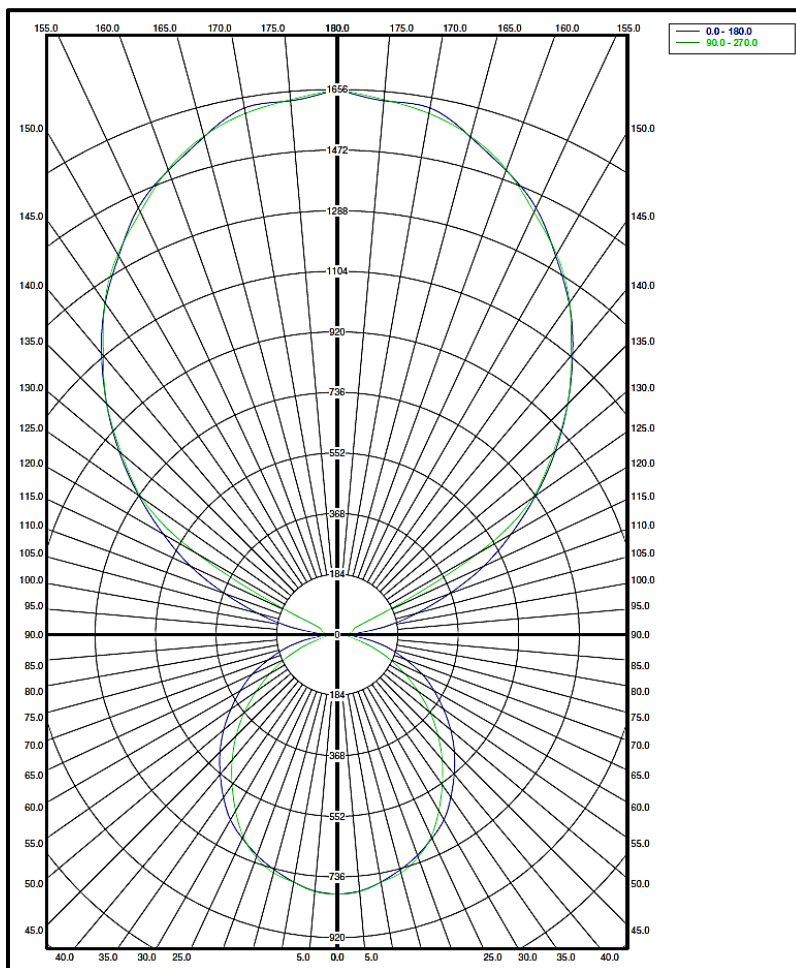
Image may differ slightly from actual unit

Summary of Results

System Power:	64.4W
Total Luminaire Output:	6012 Lumens
Luminaire Efficacy:	93 lm/W
Max Candela:	1655.61 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	74.16	1.2%	90-100	34.65	0.6%
10-20	209.86	3.5%	100-110	137.75	2.3%
20-30	313.43	5.2%	110-120	386.81	6.4%
30-40	366.28	6.1%	120-130	657.52	10.9%
40-50	365.18	6.1%	130-140	767.93	12.8%
50-60	311.71	5.2%	140-150	769.31	12.8%
60-70	221.34	3.7%	150-160	655.91	10.9%
70-80	112.89	1.9%	160-170	442.11	7.4%
80-90	29.19	0.5%	170-180	155.75	2.6%
0-90	2004.04	33.3%	0-180	6011.78	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	788	788	788	788	788	788	788	788	788	788	788	788	788	788	788	788
5	782	784	779	788	783	788	779	784	782	784	779	788	783	788	779	784
10	763	768	764	765	764	765	764	768	763	768	764	765	764	765	764	768
15	739	739	737	753	749	753	737	739	739	739	737	753	749	753	737	739
20	713	718	718	719	720	719	718	718	713	718	718	719	720	719	718	718
25	682	684	683	676	676	676	683	684	682	684	683	676	676	676	683	684
30	649	647	639	628	618	628	639	647	649	647	639	628	618	628	639	647
35	603	599	592	570	557	570	592	599	603	599	592	570	557	570	592	599
40	554	559	531	509	497	509	531	559	554	559	531	509	497	509	531	559
45	504	505	475	445	434	445	475	505	504	505	475	445	434	445	475	505
50	451	447	412	382	370	382	412	447	451	447	412	382	370	382	412	447
55	395	384	347	313	301	313	347	384	395	384	347	313	301	313	347	384
60	340	324	281	248	237	248	281	324	340	324	281	248	237	248	281	324
65	286	262	217	185	175	185	217	262	286	262	217	185	175	185	217	262
70	222	200	154	125	117	125	154	200	222	200	154	125	117	125	154	200
75	165	137	94	72	65	72	94	137	165	137	94	72	65	72	94	137
80	105	74	44	38	38	38	44	74	105	74	44	38	38	38	44	74
85	42	23	20	20	19	20	20	23	42	23	20	20	19	20	20	23
90	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
95	66	22	23	25	23	25	23	22	66	22	23	25	23	25	23	22
100	158	86	36	42	43	42	36	86	158	86	36	42	43	42	36	86
105	250	231	55	47	49	47	55	231	250	231	55	47	49	47	55	231
110	364	373	215	64	55	64	215	373	364	373	215	64	55	64	215	373
115	492	497	469	235	144	235	469	497	492	497	469	235	144	235	469	497
120	611	625	620	568	498	568	620	625	611	625	620	568	498	568	620	625
125	737	747	746	735	726	735	746	747	737	747	746	735	726	735	746	747
130	865	877	875	864	855	864	875	877	865	877	875	864	855	864	875	877
135	991	1002	1002	991	992	991	1002	1002	991	1002	1002	991	992	991	1002	1002
140	1114	1125	1118	1109	1106	1109	1118	1125	1114	1125	1118	1109	1106	1109	1118	1125
145	1229	1235	1237	1227	1232	1227	1237	1235	1229	1235	1237	1227	1232	1227	1237	1235
150	1328	1337	1334	1327	1334	1327	1334	1337	1328	1337	1334	1327	1334	1327	1334	1337
155	1430	1430	1423	1421	1416	1421	1423	1430	1430	1430	1423	1421	1416	1421	1423	1430
160	1501	1505	1509	1499	1504	1499	1509	1505	1501	1505	1509	1499	1504	1499	1509	1505
165	1565	1574	1577	1565	1567	1565	1577	1574	1565	1574	1577	1565	1567	1565	1577	1574
170	1624	1610	1609	1610	1607	1610	1609	1610	1624	1610	1609	1610	1607	1610	1609	1610
175	1627	1639	1647	1649	1631	1649	1647	1639	1627	1639	1647	1649	1631	1649	1647	1639
180	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	9352	9352	9352
45	7683	3478	2671
55	7144	2517	1793
65	6596	1612	1045
75	5514	741	400
85	2641	170	125

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	6192	6192	6192	6192	5591	5591	5591	5591	4449	4449	4449	3427	3427	3427	2465	2465	2465	1984
1	5651	5411	5170	4990	5110	4870	4689	4509	3908	3787	3667	3006	2946	2826	2164	2104	2104	1683
2	5170	4749	4389	4088	4629	4268	3968	3727	3427	3246	3006	2645	2525	2405	1924	1864	1743	1443
3	4689	4148	3727	3367	4208	3787	3427	3126	3006	2765	2525	2345	2164	2044	1683	1623	1503	1202
4	4328	3667	3186	2886	3848	3306	2946	2645	2705	2405	2164	2104	1864	1743	1503	1383	1323	1022
5	3968	3246	2826	2465	3547	2946	2585	2224	2405	2104	1864	1864	1683	1503	1383	1262	1142	902
6	3607	2946	2465	2104	3246	2645	2224	1924	2164	1864	1623	1683	1443	1323	1262	1082	962	782
7	3367	2645	2164	1864	3006	2405	1984	1683	1924	1623	1443	1503	1323	1142	1142	962	902	721
8	3126	2405	1924	1623	2765	2164	1804	1503	1743	1503	1262	1383	1202	1022	1022	902	782	661
9	2886	2164	1743	1443	2585	1984	1623	1323	1623	1323	1142	1262	1082	902	962	842	721	601
10	2705	1984	1563	1262	2405	1804	1443	1202	1503	1202	1022	1202	962	842	902	721	661	541

