

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

SOP-C-4-I10-30-80-FW-W

(White Housing – Indirect – Frosted White Lens)

Test Number

IES-P00109

Test Date

2017-07-21

The results contained in this report pertain only to the tested sample.
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Luminaire Description:	Extruded Aluminum Body, Indirect w/ Frosted White Lens
Lamp:	LED (3000K, 80+ CRI)
Installation:	Cove Mounted
Luminous Length:	47.75 in
Luminous Width:	1.52 in
Luminous Height:	0.00 in



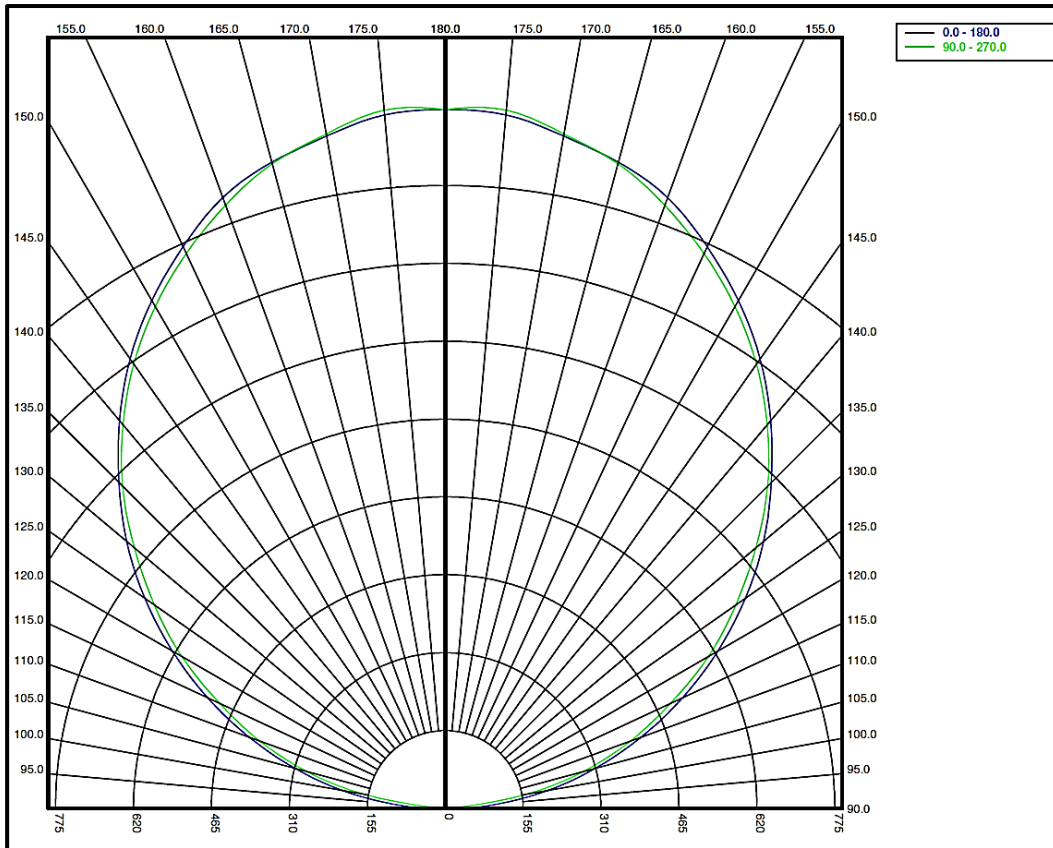
Image may differ slightly from actual unit

Summary of Results

System Power:	36.1W
Total Luminaire Output:	4007 Lumens
Luminaire Efficacy:	111 lm/W
Max Candela:	1395.8 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	0	0.0%	90-100	85.75	2.1%
10-20	0	0.0%	100-110	312.78	7.8%
20-30	0	0.0%	110-120	504.96	12.6%
30-40	0	0.0%	120-130	642.82	16.0%
40-50	0	0.0%	130-140	704.58	17.6%
50-60	0	0.0%	140-150	680.55	17.0%
60-70	0	0.0%	150-160	567.17	14.2%
70-80	0	0.0%	160-170	376.53	9.4%
80-90	0	0.0%	170-180	132.01	3.3%
0-90	0	0.0%	0-180	4007.15	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
90	27	6	3	3	2	3	3	6	27	6	3	3	2	3	3	6
95	106	93	54	28	20	28	54	93	106	93	54	28	20	28	54	93
100	209	203	191	175	165	175	191	203	209	203	191	175	165	175	191	203
105	310	305	294	290	285	290	294	305	310	305	294	290	285	290	294	305
110	415	412	401	394	393	394	401	412	415	412	401	394	393	394	401	412
115	522	520	510	505	495	505	510	520	522	520	510	505	495	505	510	520
120	627	625	614	605	605	605	614	625	627	625	614	605	605	605	614	625
125	730	728	719	713	706	713	719	728	730	728	719	713	706	713	719	728
130	828	827	815	813	807	813	815	827	828	827	815	813	807	813	815	827
135	918	918	915	906	908	906	915	918	918	918	915	906	908	906	915	918
140	1008	1009	1006	996	997	996	1006	1009	1008	1009	1006	996	997	996	1006	1009
145	1093	1091	1090	1086	1080	1086	1090	1091	1093	1091	1090	1086	1080	1086	1090	1091
150	1168	1166	1167	1159	1154	1159	1167	1166	1168	1166	1167	1159	1154	1159	1167	1166
155	1234	1232	1232	1230	1219	1230	1232	1232	1234	1232	1232	1230	1219	1230	1232	1232
160	1294	1294	1292	1286	1278	1286	1292	1294	1294	1294	1292	1286	1278	1286	1292	1294
165	1332	1339	1333	1337	1329	1337	1333	1339	1332	1339	1333	1337	1329	1337	1333	1339
170	1360	1372	1367	1365	1364	1365	1367	1372	1360	1372	1367	1365	1364	1365	1367	1372
175	1386	1392	1394	1396	1396	1396	1394	1392	1386	1392	1394	1396	1396	1396	1394	1392
180	1391	1391	1391	1391	1391	1391	1391	1391	1391	1391	1391	1391	1391	1391	1391	1391

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

ANGLES	0-Deg	45-Deg	90-Deg
0	0	0	0
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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	3807	3807	3807	3807	3246	3246	3246	3246	2244	2244	2244	1282	1282	1282	401	401	401	0
1	3486	3326	3166	3045	2965	2845	2725	2605	1923	1883	1803	1122	1082	1042	361	361	321	0
2	3166	2885	2645	2484	2685	2484	2284	2124	1683	1603	1483	962	922	882	321	281	281	0
3	2885	2525	2244	2044	2444	2164	1964	1763	1483	1362	1242	842	801	721	281	240	240	0
4	2605	2244	1923	1723	2244	1923	1683	1483	1322	1162	1042	761	681	641	240	240	200	0
5	2404	1964	1683	1443	2044	1683	1443	1282	1162	1002	882	681	601	521	200	200	160	0
6	2204	1763	1443	1242	1883	1523	1282	1082	1042	882	761	601	521	441	200	160	160	0
7	2004	1563	1282	1082	1723	1362	1122	922	922	761	681	561	441	401	160	160	120	0
8	1883	1403	1122	922	1603	1202	962	801	842	681	561	481	401	361	160	120	120	0
9	1723	1282	1002	801	1483	1122	882	721	761	601	521	441	361	321	160	120	120	0
10	1603	1162	882	721	1362	1002	761	641	681	561	441	401	321	281	120	120	80	0

