

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number
CLA-L-4'-110-30K-80-OPL-W
(White Housing – Indirect – Opal Lens)

Test Number

IES-P00102

Test Date

2017-04-24

The results contained in this report pertain only to the tested sample.
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Luminaire Description:	Extruded Aluminum Housing, Indirect w/ Opal Lens
Lamp:	LED (3000K, 80+ CRI)
Installation:	Suspension from Ceiling
Luminous Length:	47.75 in
Luminous Width:	0.81 in
Luminous Height:	0.00 in

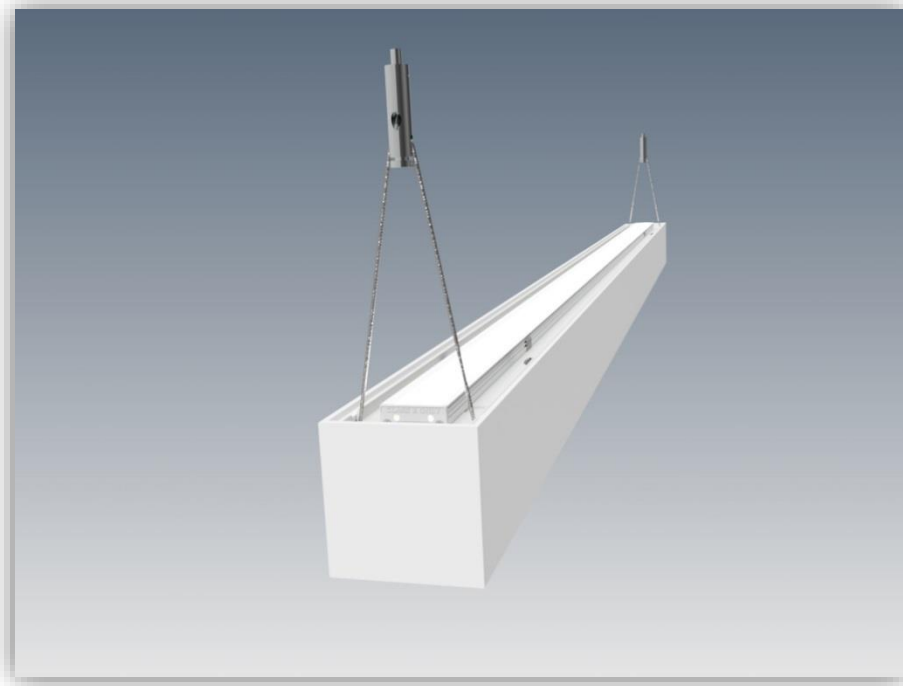


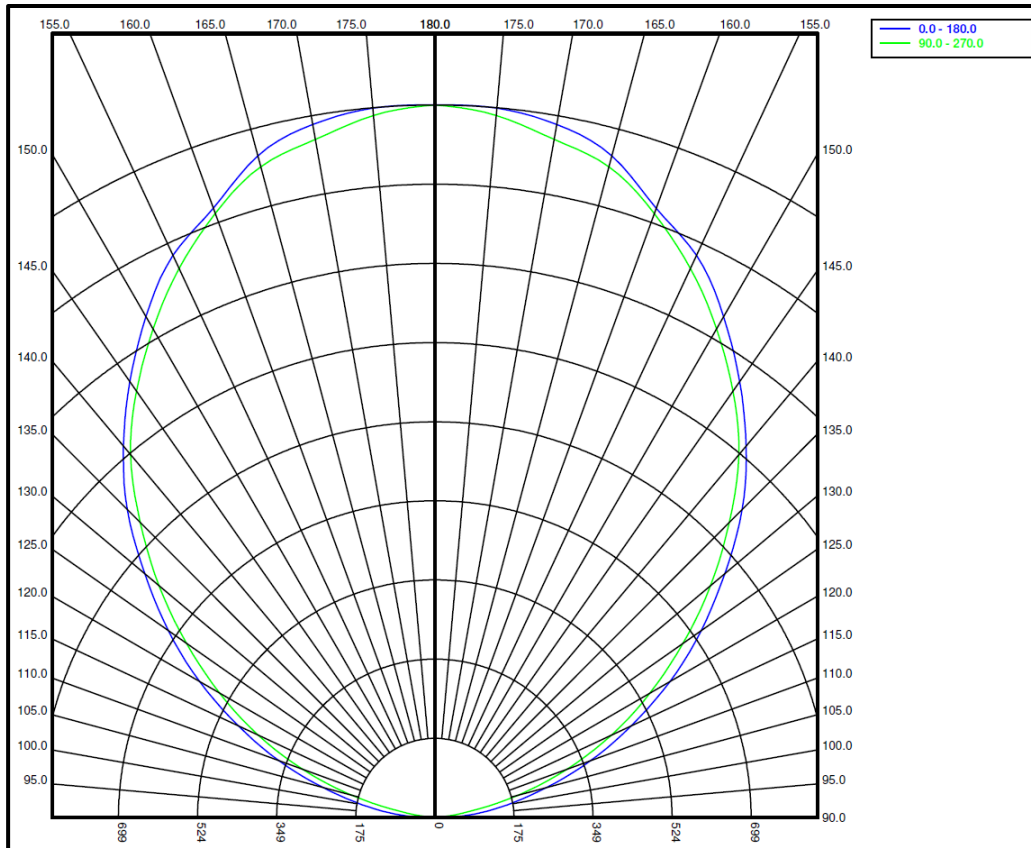
Image may differ slightly from actual unit

Summary of Results

System Power:	40.7W
Total Luminaire Output:	4008 Lumens
Luminaire Efficacy:	98 lm/W
Max Candela:	1572.71 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	56.33	1.4%
10-20	0	0.0%	100-110	240.28	6.0%
20-30	0	0.0%	110-120	451.01	11.3%
30-40	0	0.0%	120-130	621.08	15.5%
40-50	0	0.0%	130-140	723.82	18.1%
50-60	0	0.0%	140-150	725.45	18.1%
60-70	0	0.0%	150-160	621.26	15.5%
70-80	0	0.0%	160-170	420.32	10.5%
80-90	0	0.0%	170-180	148.12	3.7%
0-90	0	0.0%	0-180	4007.67	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	19	3	1	1	1	1	1	3	19	3	1	1	1	1	1	3
95	88	65	27	17	16	17	27	65	88	65	27	17	16	17	27	65
100	164	154	124	90	79	90	124	154	164	154	124	90	79	90	124	154
105	256	247	228	202	190	202	228	247	256	247	228	202	190	202	228	247
110	367	354	341	320	310	320	341	354	367	354	341	320	310	320	341	354
115	480	475	455	435	432	435	455	475	480	475	455	435	432	435	455	475
120	600	591	574	555	550	555	574	591	600	591	574	555	550	555	574	591
125	719	710	693	676	670	676	693	710	719	710	693	676	670	676	693	710
130	836	829	818	802	796	802	818	829	836	829	818	802	796	802	818	829
135	961	952	939	926	921	926	939	952	961	952	939	926	921	926	939	952
140	1070	1066	1047	1045	1046	1045	1047	1066	1070	1066	1047	1045	1046	1045	1047	1066
145	1175	1171	1159	1147	1149	1147	1159	1171	1175	1171	1159	1147	1149	1147	1159	1171
150	1277	1263	1260	1250	1245	1250	1260	1263	1277	1263	1260	1250	1245	1250	1260	1263
155	1369	1357	1350	1338	1337	1338	1350	1357	1369	1357	1350	1338	1337	1338	1350	1357
160	1431	1431	1432	1420	1419	1420	1432	1431	1431	1431	1432	1420	1419	1420	1432	1431
165	1512	1491	1487	1490	1487	1490	1487	1491	1512	1491	1487	1490	1487	1490	1487	1491
170	1554	1532	1540	1542	1520	1542	1540	1532	1554	1532	1540	1542	1520	1542	1540	1532
175	1572	1554	1557	1553	1556	1553	1557	1554	1572	1554	1557	1553	1556	1553	1557	1554
180	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573	1573

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	3487	3326	3166	3046	2966	2845	2725	2605	1924	1884	1803	1122	1082	1042	361	361	321	0
2	3166	2886	2645	2485	2685	2485	2284	2124	1683	1603	1483	962	922	882	321	281	281	0
3	2886	2525	2244	2044	2445	2164	1964	1763	1483	1363	1242	842	802	721	281	240	240	0
4	2605	2244	1924	1723	2244	1924	1683	1483	1323	1162	1042	761	681	641	240	240	200	0
5	2405	1964	1683	1443	2044	1683	1443	1282	1162	1002	882	681	601	521	200	200	160	0
6	2204	1763	1443	1242	1884	1523	1282	1082	1042	882	761	601	521	441	200	160	160	0
7	2004	1563	1282	1082	1723	1363	1122	922	922	761	681	561	441	401	160	160	120	0
8	1884	1403	1122	922	1603	1202	962	802	842	681	561	481	401	361	160	120	120	0
9	1723	1282	1002	802	1483	1082	882	721	761	601	521	441	361	321	160	120	120	0
10	1603	1162	882	721	1363	1002	761	641	681	561	441	401	321	281	120	120	80	0

