

## **Indoor Distribution Test Report**

### **Picasso Lighting Industries, LLC**

46 Sellers St.  
Kearny, NJ 07032

#### **Photopia Photometric Analysis & Optical Design**

**Catalog Number**  
**CLA-L-4'-I3-30K-80-OPL-W**  
(White Housing – Indirect – Opal Lens)

Test Number

**IES-P00099**

Test Date

2017-04-24

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

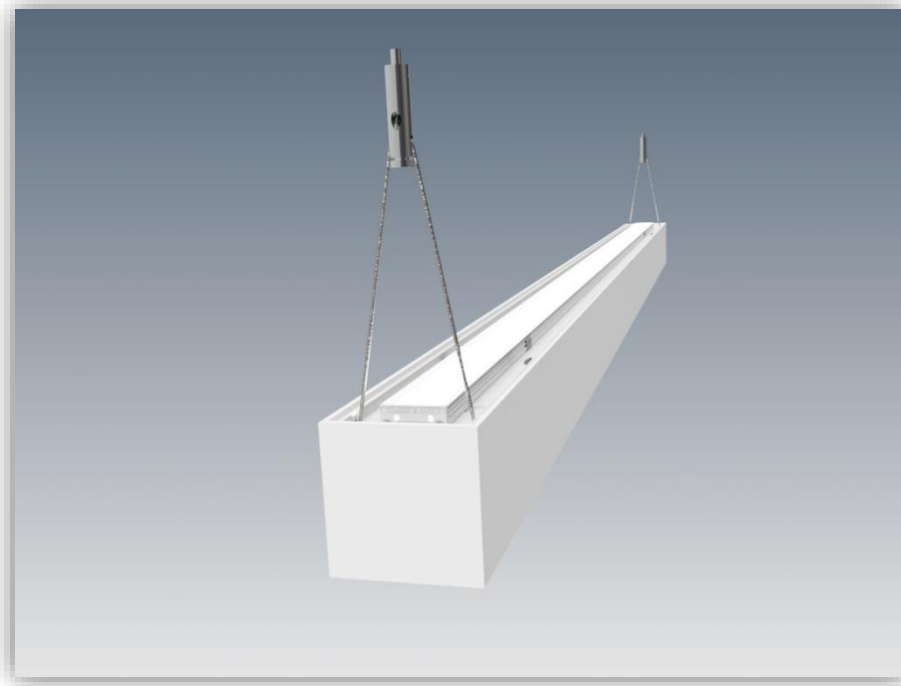


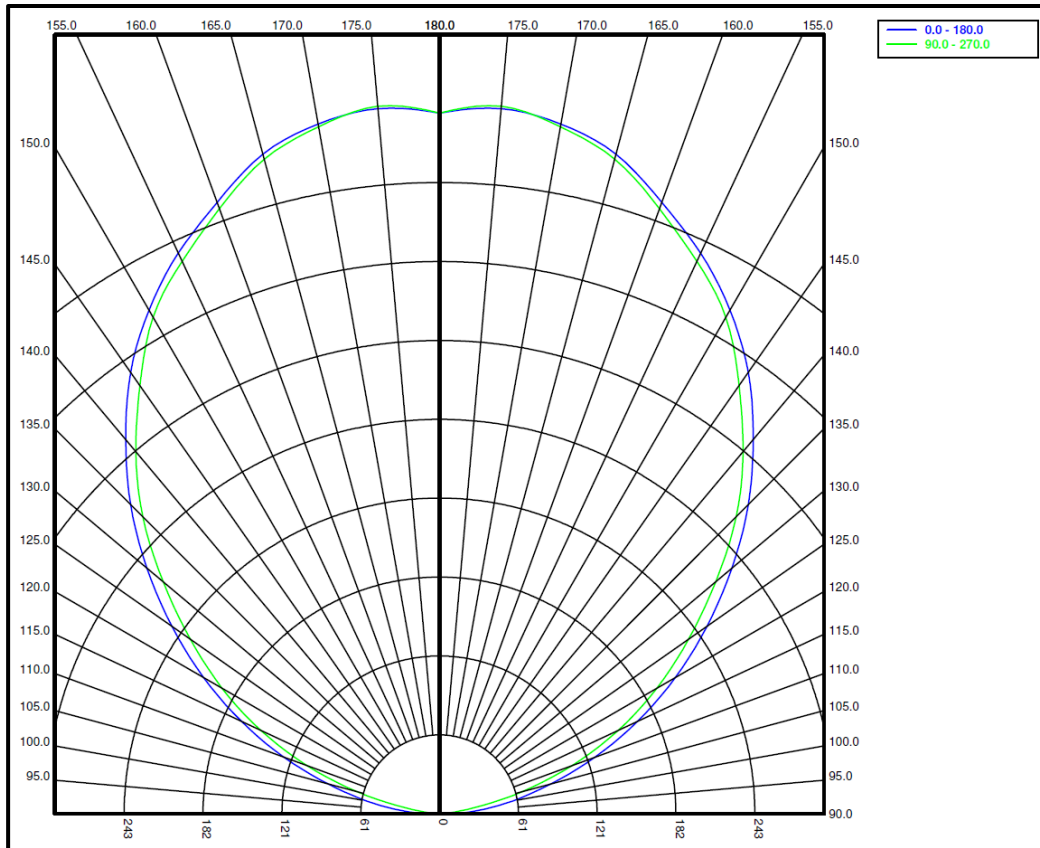
Image may differ slightly from actual unit

### **Summary of Results**

<b>System Power:</b>	12.8W
<b>Total Luminaire Output:</b>	1405 Lumens
<b>Luminaire Efficacy:</b>	110 lm/W
<b>Max Candela:</b>	547.16 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	19.64	1.4%
10-20	0	0.0%	100-110	83.93	6.0%
20-30	0	0.0%	110-120	158.33	11.3%
30-40	0	0.0%	120-130	217.32	15.5%
40-50	0	0.0%	130-140	253.64	18.1%
50-60	0	0.0%	140-150	254.87	18.1%
60-70	0	0.0%	150-160	217.78	15.5%
70-80	0	0.0%	160-170	147.45	10.5%
80-90	0	0.0%	170-180	51.76	3.7%
0-90	0	0.0%	0-180	1404.72	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
<b>90</b>	7	1	0	0	0	0	0	1	7	1	0	0	0	0	0	1
<b>95</b>	30	23	9	6	6	6	9	23	30	23	9	6	6	6	9	23
<b>100</b>	57	54	43	31	27	31	43	54	57	54	43	31	27	31	43	54
<b>105</b>	89	86	80	71	66	71	80	86	89	86	80	71	66	71	80	86
<b>110</b>	128	125	119	112	109	112	119	125	128	125	119	112	109	112	119	125
<b>115</b>	168	167	160	154	152	154	160	167	168	167	160	154	152	154	160	167
<b>120</b>	210	207	201	195	193	195	201	207	210	207	201	195	193	195	201	207
<b>125</b>	251	248	243	236	234	236	243	248	251	248	243	236	234	236	243	248
<b>130</b>	294	291	287	280	278	280	287	291	294	291	287	280	278	280	287	291
<b>135</b>	336	331	329	326	323	326	329	331	336	331	329	326	323	326	329	331
<b>140</b>	376	375	371	365	364	365	371	375	376	375	371	365	364	365	371	375
<b>145</b>	414	412	407	404	402	404	407	412	414	412	407	404	402	404	407	412
<b>150</b>	447	445	442	437	441	437	442	445	447	445	442	437	441	437	442	445
<b>155</b>	476	475	473	471	469	471	473	475	476	475	473	471	469	471	473	475
<b>160</b>	500	501	502	497	495	497	502	501	500	501	502	497	495	497	502	501
<b>165</b>	525	525	525	524	521	524	525	525	525	525	525	524	521	524	525	525
<b>170</b>	539	538	541	540	536	540	541	538	539	538	541	540	536	540	541	538
<b>175</b>	544	544	547	544	546	544	547	544	544	544	547	544	546	544	547	544
<b>180</b>	539	539	539	539	539	539	539	539	539	539	539	539	539	539	539	539

### Average Luminance (cd/m<sup>2</sup>)

#### Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
<b>0</b>	0	0	0
<b>45</b>	0	0	0
<b>55</b>	0	0	0
<b>65</b>	0	0	0
<b>75</b>	0	0	0
<b>85</b>	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	1334	1334	1334	1334	1138	1138	1138	1138	787	787	787	450	450	450	140	140	140	0
1	1222	1166	1110	1068	1039	997	955	913	674	660	632	393	379	365	126	126	112	0
2	1110	1011	927	871	941	871	801	745	590	562	520	337	323	309	112	98	98	0
3	1011	885	787	716	857	759	688	618	520	478	435	295	281	253	98	84	84	0
4	913	787	674	604	787	674	590	520	464	407	365	267	239	225	84	84	70	0
5	843	688	590	506	716	590	506	450	407	351	309	239	211	183	70	70	56	0
6	773	618	506	435	660	534	450	379	365	309	267	211	183	155	70	56	56	0
7	702	548	450	379	604	478	393	323	323	267	239	197	155	140	56	56	42	0
8	660	492	393	323	562	421	337	281	295	239	197	169	140	126	56	42	42	0
9	604	450	351	281	520	379	309	253	267	211	183	155	126	112	56	42	42	0
10	562	407	309	253	478	351	267	225	239	197	155	140	112	98	42	42	28	0

