



**PICASSO LIGHTING INDUSTRIES, LLC**  
46 Sellers Street, Kearny, NJ 07032  
201.246.8188

## **Indoor Distribution Test Report**

# **Picasso Lighting Industries, LLC**

46 Sellers St.  
Kearny, NJ 07032

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

#### **Catalog Number**

ANL-P-12in-D7-I7-30-80-OW-MC-W  
ANELLO - 12" Module Pendant Direct / Indirect - Opal & Matte Clear Lenses

#### **Test Number**

IES-P00171

#### **Test Date**

Wed Oct 03 11:44:28 2018

The results contained in this report pertain only to the tested sample.  
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ANL-P-12in-D7-I7-30-80-OW-MC-W  
ANELLO - 12" Module Pendant Direct / Indirect - Opal & Matte Clear Lenses  
LED (3000K, 80+ CRI)



Image may differ slightly from actual unit.

For Lighting Calculations, Plot Modules Along Luminaire Diameter.  
Consult Picasso For Module Qty. & Centerline Diameter.

**Summary of Results**

**Output:**

<b>Watts:</b>	16.26 W
<b>Lumens:</b>	1,542.80 lm
<b>Efficiency:</b>	N/A
<b>Efficacy:</b>	92.87 lm/W

**Spacing Criterion**

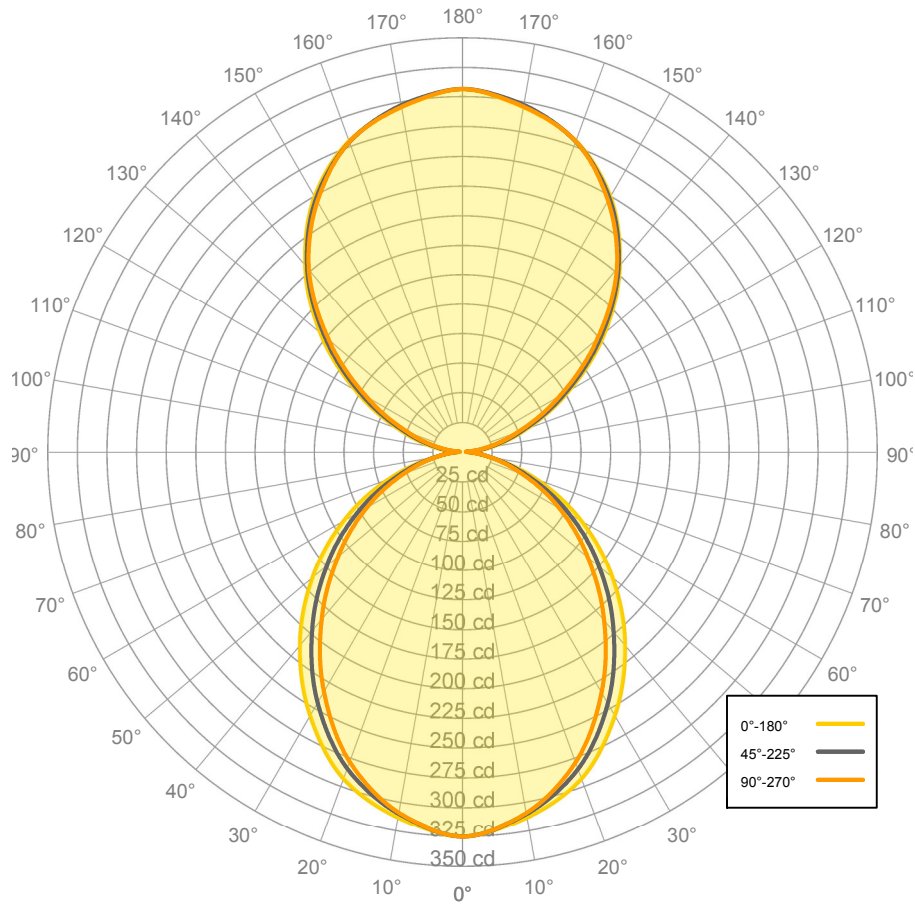
<b>Two luminaires, plane 0°</b>	1.18
<b>Two luminaires, plane 90°</b>	1.09
<b>Four luminaires</b>	1.24

**Full Beam Angle**

<b>0° - 180°</b>	262.34°
<b>90° - 270°</b>	265.25°

Calculated results may not be representative of field performance.  
Ballast factors have not been applied.

**Candela Polar Plot**



**Zonal Lumen Summary**

Zone	Lumens	% Fixture	Zone	Lumens	% Fixture
0° - 10°	54.54	3.54%	90° - 100°	13.66	0.89%
10° - 20°	83.10	5.39%	100° - 110°	39.91	2.59%
20° - 30°	120.69	7.82%	100° - 120°	115.30	7.47%
30° - 40°	137.24	8.90%	120° - 130°	111.42	7.22%
40° - 50°	133.15	8.63%	130° - 140°	136.13	8.82%
50° - 60°	112.28	7.28%	140° - 150°	139.93	9.07%
60° - 70°	78.99	5.12%	150° - 160°	120.15	7.79%
70° - 80°	41.04	2.66%	160° - 170°	80.55	5.22%
80° - 90°	12.93	0.84%	170° - 180°	51.70	3.35%
0° - 90°	773.96	50.17%	0° - 180°	1,542.80	100.00%



**Candela Distribution**

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	325.17	325.17	325.17	325.17	325.17
10.00°	313.56	313.48	311.07	311.43	310.09
20.00°	293.59	289.50	285.28	279.97	279.19
30.00°	257.12	252.99	245.31	238.39	234.63
40.00°	213.46	208.36	198.27	189.09	185.69
50.00°	165.18	159.89	150.21	140.91	137.32
60.00°	115.82	111.73	102.67	95.45	92.97
70.00°	66.26	63.17	56.93	53.21	51.61
80.00°	22.75	21.41	20.06	19.96	19.91
90.00°	3.92	3.77	3.20	2.73	2.63
100.00°	24.03	23.70	22.17	20.45	19.68
110.00°	57.44	57.06	54.62	52.06	50.65
120.00°	103.75	103.21	100.34	96.71	94.95
130.00°	156.75	155.38	152.81	149.91	148.32
140.00°	206.53	207.12	204.90	202.57	202.65
150.00°	249.62	248.40	247.76	247.43	245.32
160.00°	279.85	279.41	279.08	279.22	279.23
170.00°	296.04	296.99	297.69	296.89	296.26
180.00°	306.66	306.66	306.66	306.66	306.66

**Average Luminaire Luminance [cd/m²]**

	0.00°	45.00°	90.00°
0.00°	21,001	21,001	21,001
45.00°	13,174	6,249	5,131
55.00°	10,938	4,436	3,525
65.00°	8,330	2,825	2,200
75.00°	5,127	1,418	1,116
85.00°	2,161	461	372



**Coefficients of Utilization – Zonal Cavity Method**

Values are lumens delivered to the workplane.

<b>RCR</b>	<b>pf<sub>c</sub></b>	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
	<b>pc<sub>c</sub></b>	80%	80%	80%	80%	70%	70%	70%	70%	50%	50%	50%	30%	30%	30%	10%	10%	10%	0%
	<b>pw</b>	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	<b>0</b>	1,654	1,654	1,654	1,654	1,526	1,526	1,526	1,526	1,287	1,287	1,287	1,069	1,069	1,069	868	868	868	774
	<b>1</b>	1,514	1,449	1,390	1,338	1,395	1,340	1,290	1,244	1,135	1,099	1,066	947	922	899	774	758	742	661
	<b>2</b>	1,383	1,272	1,180	1,103	1,273	1,178	1,098	1,031	1,001	943	892	838	796	760	688	659	633	562
	<b>3</b>	1,265	1,123	1,013	925	1,164	1,042	945	868	888	816	757	747	694	649	615	578	546	483
	<b>4</b>	1,161	998	879	788	1,068	927	823	742	794	714	651	670	610	562	554	511	476	421
	<b>5</b>	1,068	893	771	680	984	831	723	642	714	630	566	605	542	492	503	457	420	370
	<b>6</b>	987	804	682	594	909	750	641	562	646	561	498	550	485	435	460	411	374	330
	<b>7</b>	914	729	608	524	843	681	573	496	589	504	442	503	437	388	423	373	336	296
	<b>8</b>	850	664	547	466	785	621	516	443	540	456	396	463	398	350	391	341	304	268
<b>9</b>	794	609	495	418	734	570	468	398	497	415	357	428	364	317	363	314	278	245	
<b>10</b>	743	561	451	378	688	526	427	360	460	380	325	398	335	290	339	290	255	225	

**Cone of Light**

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	9 fc	0 ft	0 ft
8 ft	5 fc	0 ft	0 ft
10 ft	3 fc	0 ft	0 ft
12 ft	2 fc	0 ft	0 ft
15 ft	1 fc	0 ft	0 ft