



**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-I5-30-80-OW-MC-W  
ANELLO - 12" Module Pendant Direct / Indirect - Opal & Matte Clear Lenses

#### **Test Number**

IES-P00170

#### **Test Date**

Wed Oct 03 12:00:20 2018

The results contained in this report pertain only to the tested sample.  
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ANL-P-12in-D7-I5-30-80-OW-MC-W  
ANELLO - 12" Module Pendant Direct / Indirect - Opal & Matte Clear Lenses  
LED (3000K, 80+ CRI)

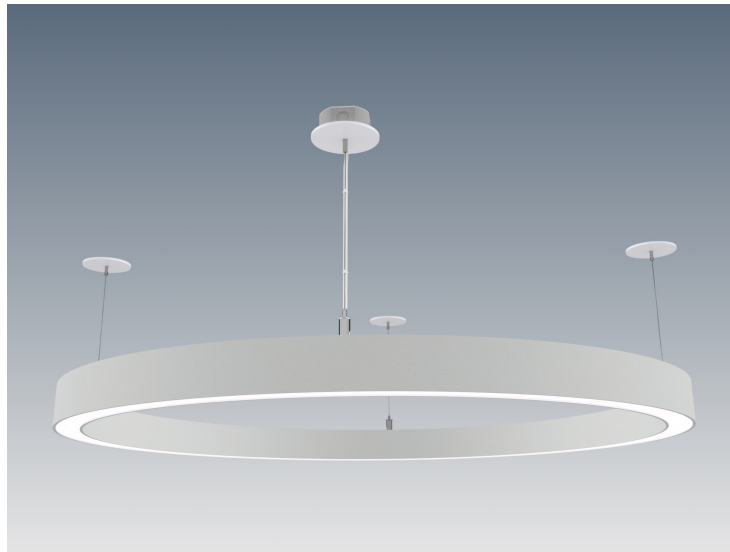


Image may differ slightly from actual unit.

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

**Summary of Results**

**Output:**

<b>Watts:</b>	13.86 W
<b>Lumens:</b>	1,286.54 lm
<b>Efficiency:</b>	N/A
<b>Efficacy:</b>	90.86 lm/W

**Spacing Criterion**

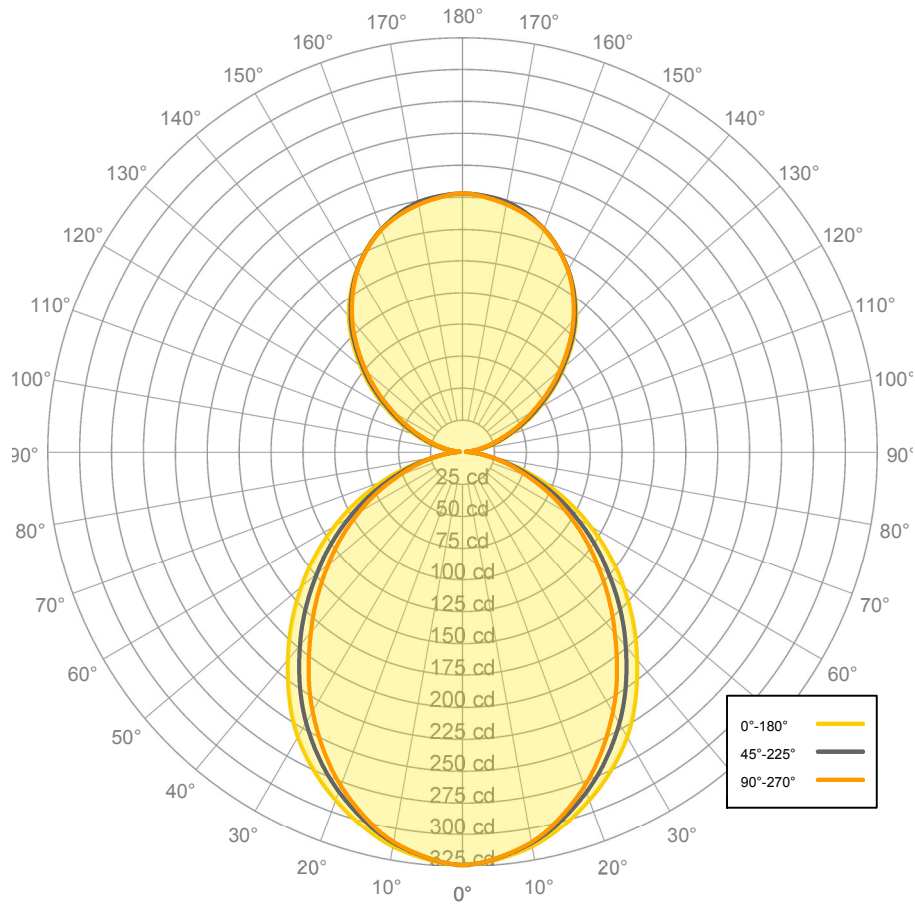
<b>Two luminaires, plane 0°</b>	1.18
<b>Two luminaires, plane 90°</b>	1.1
<b>Four luminaires</b>	1.24

**Full Beam Angle**

<b>0° - 180°</b>	297.42°
<b>90° - 270°</b>	298.19°

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°	54.51	4.24%	90° - 100°	9.39	0.73%
10° - 20°	83.08	6.46%	100° - 110°	26.57	2.07%
20° - 30°	120.78	9.39%	100° - 120°	76.80	5.97%
30° - 40°	137.43	10.68%	120° - 130°	74.36	5.78%
40° - 50°	133.08	10.34%	130° - 140°	90.90	7.07%
50° - 60°	112.03	8.71%	140° - 150°	93.39	7.26%
60° - 70°	78.89	6.13%	150° - 160°	80.12	6.23%
70° - 80°	41.10	3.19%	160° - 170°	53.66	4.17%
80° - 90°	12.68	0.99%	170° - 180°	34.34	2.67%
0° - 90°	773.58	60.13%	0° - 180°	1,286.54	100.00%



**Candela Distribution**

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	324.30	324.30	324.30	324.30	324.30
10.00°	314.32	314.40	311.90	310.05	311.07
20.00°	290.44	289.99	284.18	281.07	279.33
30.00°	258.06	253.64	245.90	238.11	235.66
40.00°	212.76	208.61	198.90	189.28	185.53
50.00°	164.69	159.19	149.84	140.73	137.91
60.00°	115.60	111.24	102.31	95.30	93.21
70.00°	66.64	63.34	57.04	52.84	51.68
80.00°	22.82	21.64	20.16	19.90	19.98
90.00°	3.02	2.96	2.73	2.42	2.30
100.00°	16.00	15.78	14.73	13.56	13.27
110.00°	38.48	37.89	36.49	34.48	33.87
120.00°	69.32	68.38	66.91	64.55	63.56
130.00°	104.10	103.92	102.03	100.30	99.38
140.00°	138.54	137.40	137.03	135.53	134.99
150.00°	165.64	166.38	165.29	164.57	164.86
160.00°	186.04	185.79	186.22	186.00	185.86
170.00°	198.05	196.57	199.12	198.57	197.16
180.00°	202.82	202.82	202.82	202.82	202.82

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

	0.00°	45.00°	90.00°
0.00°	20,944	20,944	20,944
45.00°	13,133	6,253	5,138
55.00°	10,911	4,424	3,538
65.00°	8,337	2,820	2,205
75.00°	5,152	1,422	1,118
85.00°	2,094	454	368



**Coefficients of Utilization – Zonal Cavity Method**

Values are lumens delivered to the workplane.

<b>RCR</b>	<b>pfc</b>	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
	<b>pcc</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>	1,409	1,409	1,409	1,409	1,317	1,317	1,317	1,317	1,145	1,145	1,145	987	987	987	842	842	842	774
	<b>1</b>	1,292	1,237	1,188	1,144	1,206	1,158	1,116	1,077	1,011	980	951	876	853	832	751	735	720	661
	<b>2</b>	1,181	1,087	1,009	944	1,101	1,020	951	894	893	841	796	776	737	704	668	640	615	562
	<b>3</b>	1,081	961	868	794	1,008	903	820	754	793	729	677	692	643	602	597	561	530	483
	<b>4</b>	993	856	755	678	926	805	715	646	710	639	583	621	566	522	538	497	463	421
	<b>5</b>	915	767	664	587	853	723	630	561	639	565	509	562	504	458	489	444	408	370
	<b>6</b>	846	692	589	515	790	653	560	492	580	505	449	511	452	406	447	401	364	330
	<b>7</b>	785	629	527	456	734	594	502	437	529	454	400	469	408	363	411	364	327	296
	<b>8</b>	731	574	475	407	684	544	454	391	486	412	359	432	372	328	381	333	297	268
<b>9</b>	684	527	431	367	640	500	413	353	449	376	325	400	341	298	354	306	271	245	
<b>10</b>	641	487	394	333	601	462	378	321	416	345	297	372	314	273	331	283	249	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