



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-I3-30-80-OW-MC-W
ANELLO - 12" Module Pendant Direct / Indirect - Opal & Matte Clear Lenses

Test Number

IES-P00169

Test Date

Wed Oct 03 12:12:59 2018

The results contained in this report pertain only to the tested sample.
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ANL-P-12in-D7-I3-30-80-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:

Watts:	12.47 W
Lumens:	1,132.45 lm
Efficiency:	N/A
Efficacy:	88.83 lm/W

Spacing Criterion

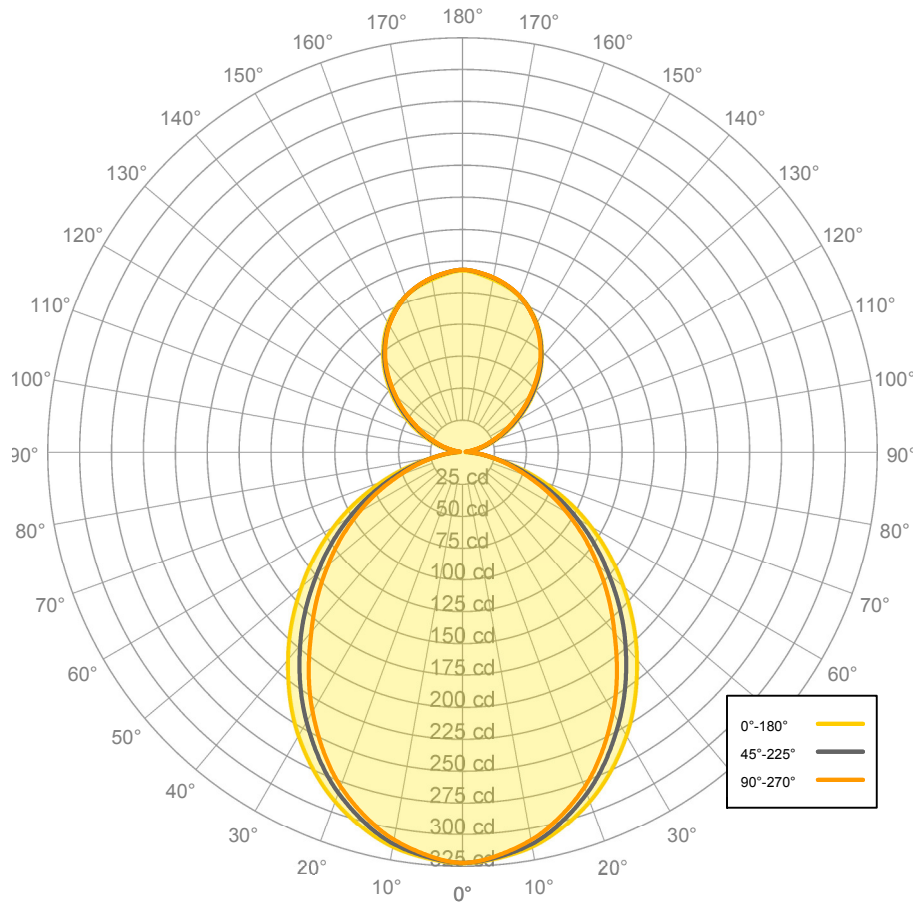
Two luminaires, plane 0°	1.18
Two luminaires, plane 90°	1.1
Four luminaires	1.24

Full Beam Angle

0° - 180°	101.3°
90° - 270°	90.1°

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°	54.42	4.81%	90° - 100°	6.83	0.60%
10° - 20°	83.20	7.35%	100° - 110°	18.59	1.64%
20° - 30°	120.72	10.66%	100° - 120°	53.81	4.75%
30° - 40°	137.18	12.11%	120° - 130°	52.04	4.60%
40° - 50°	132.99	11.74%	130° - 140°	63.55	5.61%
50° - 60°	112.12	9.90%	140° - 150°	65.37	5.77%
60° - 70°	78.90	6.97%	150° - 160°	56.15	4.96%
70° - 80°	41.01	3.62%	160° - 170°	37.63	3.32%
80° - 90°	12.45	1.10%	170° - 180°	24.10	2.13%
0° - 90°	772.98	68.26%	0° - 180°	1,132.45	100.00%



Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	322.63	322.63	322.63	322.63	322.63
10.00°	314.66	314.63	312.61	311.46	309.37
20.00°	291.66	289.36	285.25	281.40	279.88
30.00°	256.98	253.21	245.16	237.80	235.84
40.00°	212.68	208.29	198.68	188.71	185.06
50.00°	164.47	159.96	149.48	140.68	138.03
60.00°	116.09	111.21	102.37	95.37	93.38
70.00°	66.68	63.10	57.00	52.77	51.61
80.00°	22.72	21.43	20.16	19.90	19.91
90.00°	2.51	2.56	2.41	2.15	2.05
100.00°	11.21	11.10	10.27	9.50	9.22
110.00°	27.01	26.57	25.27	24.20	23.84
120.00°	48.99	48.37	46.77	45.10	44.38
130.00°	73.09	72.40	71.43	69.87	69.25
140.00°	96.69	96.84	95.74	94.49	94.60
150.00°	116.57	116.19	115.62	115.23	115.23
160.00°	130.54	131.09	130.16	130.76	130.13
170.00°	137.93	138.69	138.62	138.20	138.83
180.00°	142.91	142.91	142.91	142.91	142.91

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	20,837	20,837	20,837
45.00°	13,123	6,243	5,132
55.00°	10,921	4,418	3,542
65.00°	8,362	2,821	2,206
75.00°	5,149	1,421	1,116
85.00°	2,045	448	363



Coefficients of Utilization – Zonal Cavity Method

Values are lumens delivered to the workplane.

RCR	pfc	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
	pcc	80%	80%	80%	80%	70%	70%	70%	70%	50%	50%	50%	30%	30%	30%	10%	10%	10%	0%
	pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	1,263	1,263	1,263	1,263	1,191	1,191	1,191	1,191	1,059	1,059	1,059	937	937	937	825	825	825	773
	1	1,158	1,110	1,066	1,027	1,092	1,049	1,011	977	937	908	881	833	811	791	737	721	707	660
	2	1,059	976	907	849	998	924	863	811	827	780	739	738	702	670	655	628	604	562
	3	971	864	781	715	914	819	745	686	736	677	629	658	612	574	586	551	521	483
	4	892	770	680	612	840	731	651	589	659	594	543	592	540	498	529	488	455	420
	5	823	691	599	531	775	658	574	512	594	526	474	535	481	437	480	437	401	370
	6	762	625	533	467	718	595	512	451	540	471	419	488	432	388	439	394	358	329
	7	708	568	478	414	668	542	460	401	493	424	374	448	391	348	405	358	322	296
	8	660	520	432	371	623	497	416	360	454	386	337	413	356	315	374	327	292	268
9	617	478	393	336	584	458	379	326	419	353	306	383	327	286	348	302	267	245	
10	580	442	360	305	549	424	348	297	389	324	280	356	302	263	325	279	246	225	

Cone of Light

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	9 fc	13 ft	13 ft
8 ft	5 fc	18 ft	18 ft
10 ft	3 fc	22 ft	22 ft
12 ft	2 fc	27 ft	27 ft
15 ft	1 fc	33 ft	33 ft