



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-D5-I7-30-80-OW-MC-W
ANELLO - 12" Module Pendant Direct / Indirect - Opal & Matte Clear Lenses

Test Number

IES-P00168

Test Date

Wed Oct 03 12:25:55 2018

The results contained in this report pertain only to the tested sample.
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ANL-P-12in-D5-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:

Watts:	13.32 W
Lumens:	1,284.91 lm
Efficiency:	N/A
Efficacy:	94.39 lm/W

Spacing Criterion

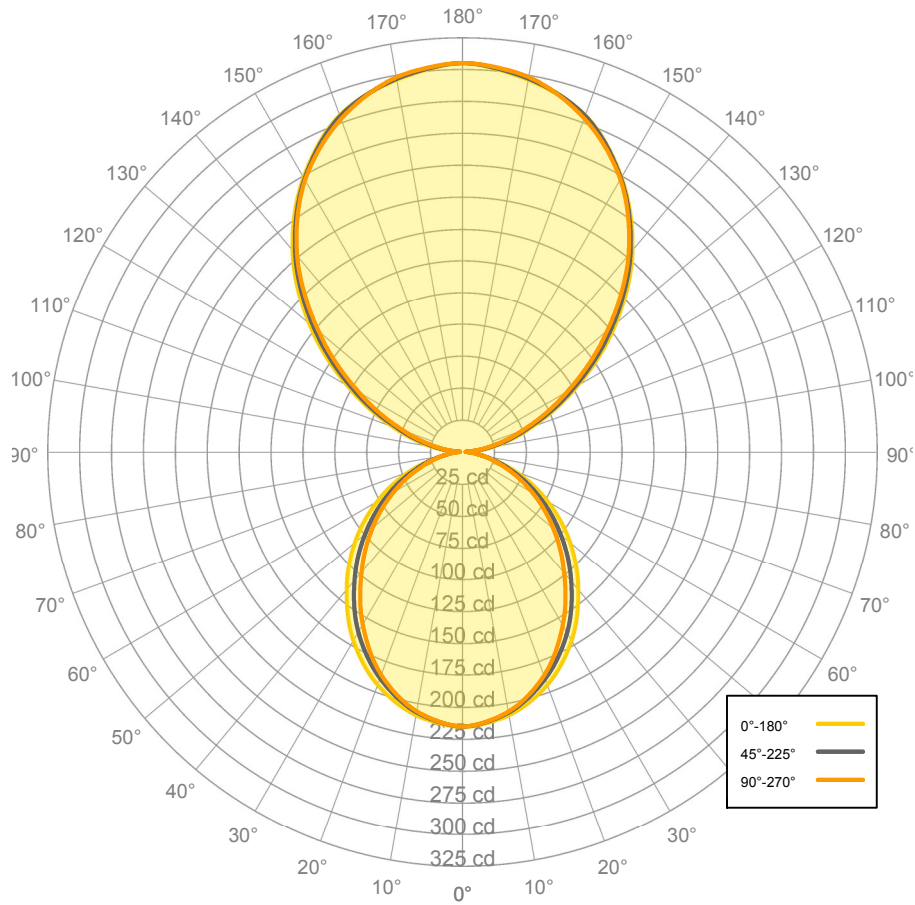
Two luminaires, plane 0°	1.18
Two luminaires, plane 90°	1.1
Four luminaires	1.24

Full Beam Angle

0° - 180°	258.41°
90° - 270°	261.64°

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°	36.29	2.82%	90° - 100°	13.36	1.04%
10° - 20°	55.44	4.31%	100° - 110°	39.88	3.10%
20° - 30°	80.47	6.26%	100° - 120°	115.26	8.97%
30° - 40°	91.37	7.11%	120° - 130°	111.52	8.68%
40° - 50°	88.73	6.91%	130° - 140°	136.20	10.60%
50° - 60°	74.87	5.83%	140° - 150°	140.01	10.90%
60° - 70°	52.61	4.09%	150° - 160°	120.34	9.37%
70° - 80°	27.33	2.13%	160° - 170°	80.62	6.27%
80° - 90°	8.90	0.69%	170° - 180°	51.58	4.01%
0° - 90°	516.02	40.16%	0° - 180°	1,284.91	100.00%



Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	215.63	215.63	215.63	215.63	215.63
10.00°	209.63	209.30	207.85	207.24	207.05
20.00°	194.38	193.64	189.46	187.61	186.74
30.00°	170.92	168.55	163.83	158.58	156.95
40.00°	141.07	138.32	132.27	125.98	123.63
50.00°	109.99	107.24	99.83	94.04	92.22
60.00°	77.16	74.35	68.00	63.73	62.03
70.00°	44.45	42.32	37.92	35.24	34.35
80.00°	14.95	14.24	13.34	13.25	13.27
90.00°	3.48	3.24	2.70	2.17	2.08
100.00°	24.15	23.78	22.03	20.28	19.69
110.00°	57.67	56.90	54.79	51.84	50.83
120.00°	103.75	103.13	100.47	96.54	94.95
130.00°	156.76	155.90	153.14	150.22	148.10
140.00°	207.16	206.56	204.88	202.53	202.48
150.00°	249.05	248.71	248.09	247.90	247.17
160.00°	281.33	279.37	280.68	278.75	278.46
170.00°	296.61	296.07	297.42	296.54	298.61
180.00°	305.10	305.10	305.10	305.10	305.10

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	13,926	13,926	13,926
45.00°	8,735	4,162	3,429
55.00°	7,285	2,944	2,361
65.00°	5,564	1,875	1,467
75.00°	3,421	944	743
85.00°	1,494	318	254



Coefficients of Utilization – Zonal Cavity Method

Values are lumens delivered to the workplane.

	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
pf_c	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%
RCR																		
0	1,347	1,347	1,347	1,347	1,226	1,226	1,226	1,226	1,001	1,001	1,001	794	794	794	605	605	605	516
1	1,231	1,177	1,129	1,086	1,119	1,074	1,033	997	881	852	826	703	684	666	539	527	516	440
2	1,124	1,032	957	893	1,021	943	879	824	776	730	690	621	590	562	479	458	440	375
3	1,027	910	820	748	932	833	755	692	687	631	584	553	513	480	428	402	379	322
4	942	808	710	635	855	741	656	590	613	551	501	495	451	414	385	355	330	280
5	865	722	621	547	786	662	575	509	551	485	435	446	399	362	349	317	291	247
6	798	648	548	476	725	596	508	444	497	431	381	405	356	319	319	285	259	220
7	739	586	487	418	672	540	453	391	452	385	337	370	321	284	293	258	232	197
8	686	533	436	370	625	492	406	347	413	348	301	340	291	255	271	236	210	179
9	639	487	394	331	583	450	367	311	380	315	270	314	265	231	251	217	191	163
10	598	448	358	298	546	414	334	280	351	288	245	291	243	210	234	200	176	150

Cone of Light

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