



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-D3-I3-30-80-OW-MC-W
ANELLO - 12" Module Pendant Direct / Indirect - Opal & Matte Clear Lenses

Test Number

IES-P00163

Test Date

Wed Oct 03 14:39:42 2018

The results contained in this report pertain only to the tested sample.
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ANL-P-12in-D3-I3-30-80-OW-MC-W
ANELLO - 12" Module Pendant Direct / Indirect - Opal & Matte Clear Lenses
LED (3000K, 80+ CRI)

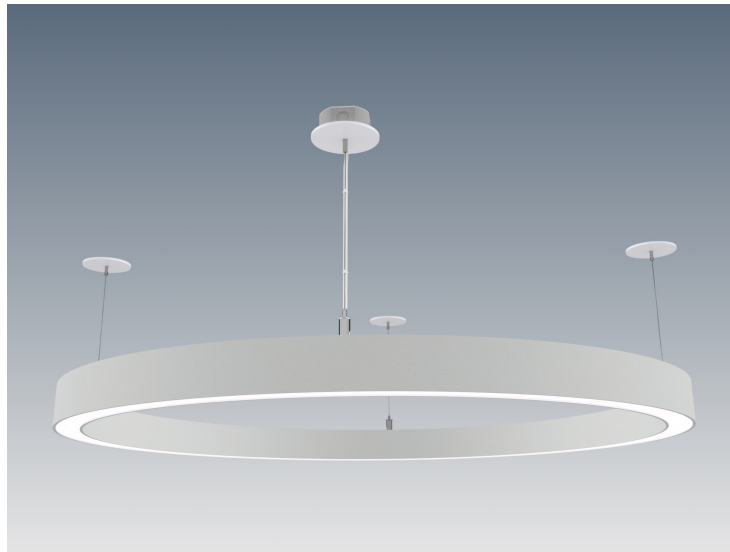


Image may differ slightly from actual unit.

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

Summary of Results

Output:

Watts:	7.84 W
Lumens:	719.93 lm
Efficiency:	N/A
Efficacy:	89.84 lm/W

Spacing Criterion

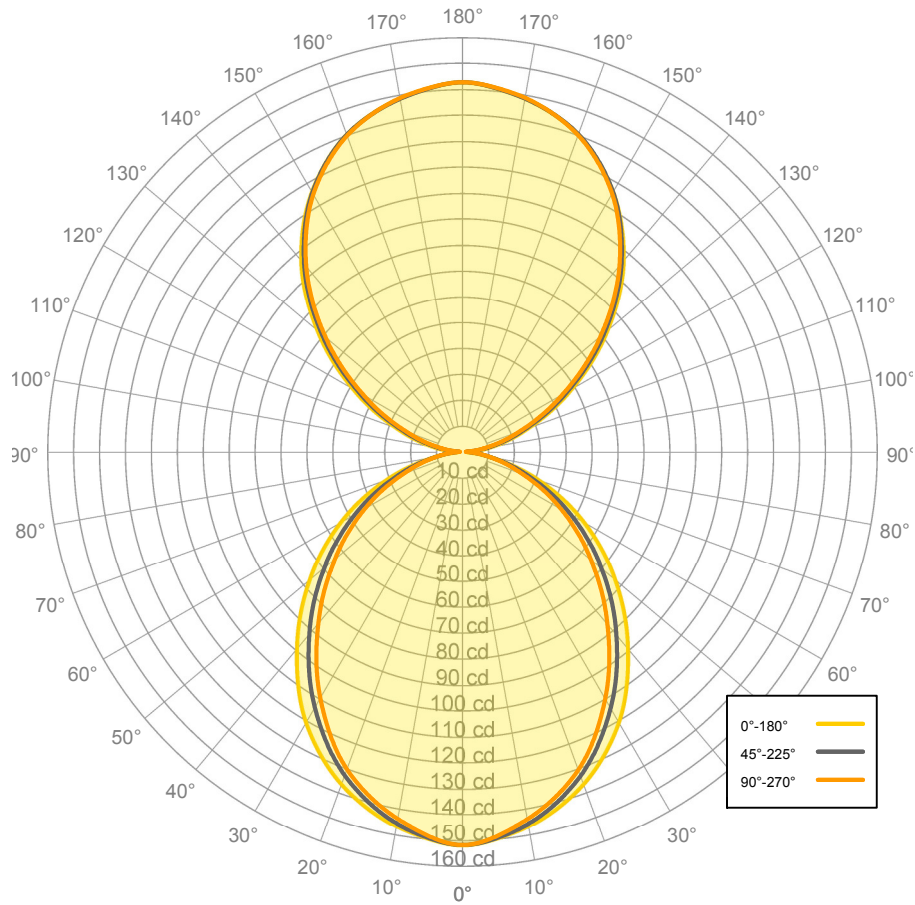
Two luminaires, plane 0°	1.18
Two luminaires, plane 90°	1.09
Four luminaires	1.24

Full Beam Angle

0° - 180°	262.46°
90° - 270°	265.29°

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°	25.48	3.54%	90° - 100°	6.34	0.88%
10° - 20°	38.79	5.39%	100° - 110°	18.60	2.58%
20° - 30°	56.38	7.83%	100° - 120°	53.84	7.48%
30° - 40°	64.02	8.89%	120° - 130°	52.01	7.22%
40° - 50°	62.06	8.62%	130° - 140°	63.48	8.82%
50° - 60°	52.38	7.28%	140° - 150°	65.29	9.07%
60° - 70°	36.83	5.12%	150° - 160°	56.11	7.79%
70° - 80°	19.14	2.66%	160° - 170°	37.62	5.22%
80° - 90°	6.05	0.84%	170° - 180°	24.11	3.35%
0° - 90°	361.14	50.16%	0° - 180°	719.93	100.00%



Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	151.97	151.97	151.97	151.97	151.97
10.00°	146.88	146.77	146.04	144.21	144.21
20.00°	136.53	135.02	133.23	130.85	130.74
30.00°	120.67	118.31	114.30	111.29	110.08
40.00°	99.30	96.86	92.29	88.02	86.87
50.00°	76.90	74.80	69.89	65.74	64.43
60.00°	54.21	51.92	47.79	44.68	43.38
70.00°	31.07	29.57	26.61	24.61	23.78
80.00°	10.66	10.08	9.34	9.32	9.33
90.00°	1.84	1.73	1.49	1.28	1.22
100.00°	11.21	11.02	10.22	9.45	9.18
110.00°	27.02	26.63	25.52	24.24	23.74
120.00°	48.72	48.16	46.72	45.14	44.70
130.00°	73.07	72.20	71.31	70.06	69.42
140.00°	96.79	96.26	95.48	94.70	94.24
150.00°	116.14	115.95	116.06	115.01	115.33
160.00°	130.55	130.53	130.59	130.27	130.21
170.00°	138.69	138.93	138.59	138.29	138.88
180.00°	142.81	142.81	142.81	142.81	142.81

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	9,815	9,815	9,815
45.00°	6,131	2,908	2,403
55.00°	5,104	2,065	1,650
65.00°	3,902	1,317	1,022
75.00°	2,403	662	517
85.00°	1,013	215	174



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	772	772	772	772	712	712	712	712	601	601	601	499	499	499	405	405	405	361
	1	706	676	649	624	651	625	602	581	530	513	498	442	430	420	361	354	346	308
	2	645	593	551	514	594	550	512	481	467	440	416	391	372	354	321	308	295	262
	3	590	524	473	432	543	486	441	405	415	381	353	348	324	303	287	270	255	226
	4	542	466	410	368	498	433	384	346	370	333	304	313	285	262	259	239	222	196
	5	499	417	360	318	459	388	337	300	333	294	264	282	253	230	235	213	196	173
	6	460	375	318	277	424	350	299	262	302	262	232	257	226	203	215	192	174	154
	7	427	340	284	245	394	318	267	232	275	235	206	235	204	181	197	174	157	138
	8	397	310	255	218	367	290	241	207	252	213	185	216	186	163	182	159	142	125
	9	370	284	231	195	343	266	218	186	232	194	167	200	170	148	169	146	130	114
10	347	262	211	177	321	246	199	168	215	177	152	186	156	135	158	135	119	105	

Cone of Light

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	4 fc	0 ft	0 ft
8 ft	2 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