



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

Test Number

IES-P00167

Test Date

Wed Oct 03 12:40:03 2018

The results contained in this report pertain only to the tested sample.
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ANL-P-12in-D5-I5-30-80-OW-MC-W
ANELLO - 12" Module Pendant Direct / Indirect - Opal & Matte Clear Lenses
LED (3000K, 80+ CRI)

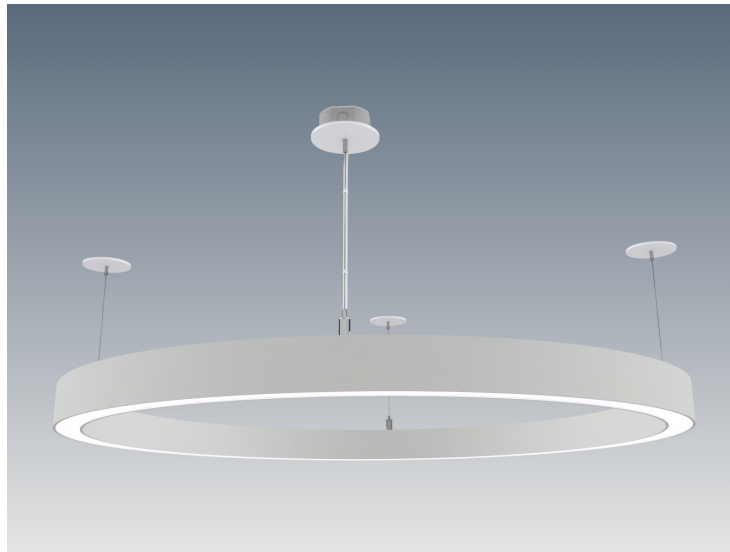


Image may differ slightly from actual unit.

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

Summary of Results

Output:

Watts:	10.92 W
Lumens:	1,028.63 lm
Efficiency:	N/A
Efficacy:	92.15 lm/W

Spacing Criterion

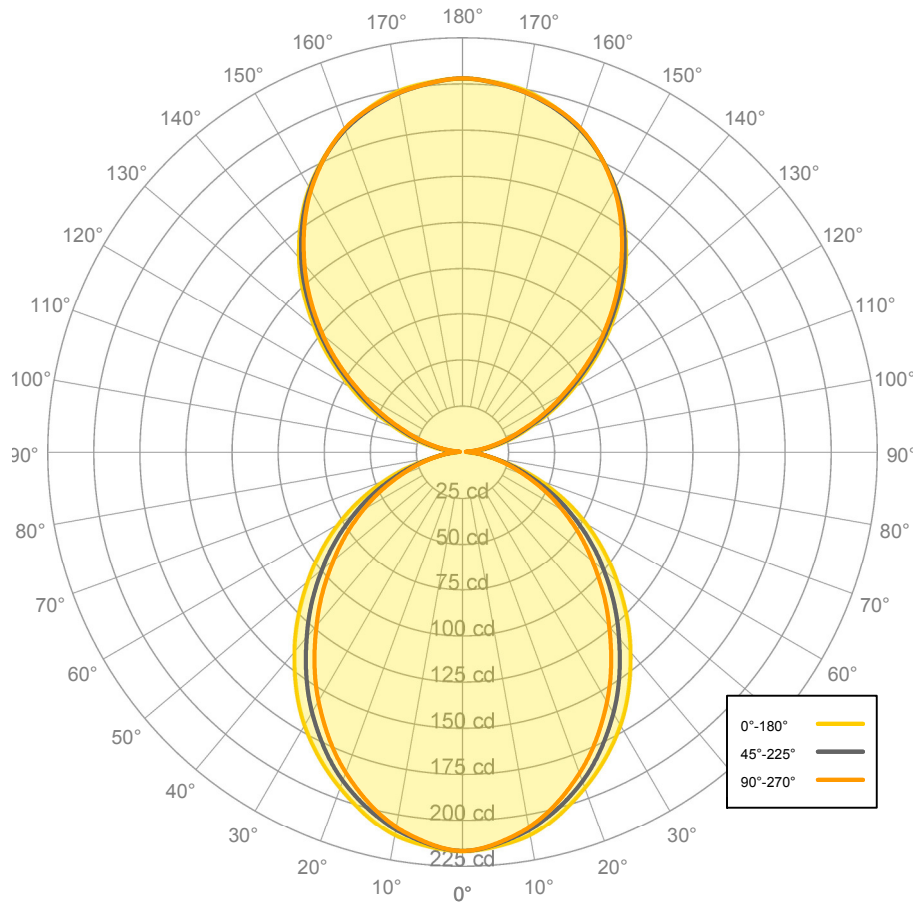
Two luminaires, plane 0°	1.18
Two luminaires, plane 90°	1.09
Four luminaires	1.24

Full Beam Angle

0° - 180°	262.34°
90° - 270°	265.15°

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°	36.44	3.54%	90° - 100°	9.11	0.89%
10° - 20°	55.46	5.39%	100° - 110°	26.56	2.58%
20° - 30°	80.46	7.82%	100° - 120°	76.83	7.47%
30° - 40°	91.49	8.89%	120° - 130°	74.42	7.24%
40° - 50°	88.65	8.62%	130° - 140°	90.80	8.83%
50° - 60°	74.72	7.26%	140° - 150°	93.28	9.07%
60° - 70°	52.65	5.12%	150° - 160°	80.20	7.80%
70° - 80°	27.37	2.66%	160° - 170°	53.76	5.23%
80° - 90°	8.63	0.84%	170° - 180°	34.36	3.34%
0° - 90°	515.87	50.15%	0° - 180°	1,028.63	100.00%



Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	216.91	216.91	216.91	216.91	216.91
10.00°	211.38	209.78	208.53	207.21	207.21
20.00°	194.04	193.11	190.42	187.17	185.75
30.00°	171.37	168.70	163.77	158.64	156.76
40.00°	141.79	138.75	131.99	126.55	123.69
50.00°	109.49	106.28	100.00	93.69	91.67
60.00°	77.48	74.38	68.36	63.50	61.85
70.00°	44.68	42.16	38.03	35.30	34.33
80.00°	15.07	14.31	13.39	13.24	13.31
90.00°	2.61	2.54	2.18	1.82	1.73
100.00°	15.98	15.78	14.73	13.66	13.10
110.00°	38.38	37.76	36.31	34.67	33.96
120.00°	69.56	68.85	66.54	64.81	63.58
130.00°	104.53	104.03	102.07	99.88	99.60
140.00°	138.02	137.79	136.66	135.02	134.00
150.00°	166.08	165.96	165.70	164.32	164.75
160.00°	186.58	186.83	186.41	185.90	187.05
170.00°	199.23	197.57	198.03	198.02	198.19
180.00°	202.93	202.93	202.93	202.93	202.93

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	14,009	14,009	14,009
45.00°	8,743	4,160	3,421
55.00°	7,278	2,954	2,350
65.00°	5,589	1,883	1,464
75.00°	3,441	947	743
85.00°	1,433	309	248



Coefficients of Utilization – Zonal Cavity Method

Values are lumens delivered to the workplane.

RCR	ptc	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	1,102	1,102	1,102	1,102	1,017	1,017	1,017	1,017	858	858	858	712	712	712	579	579	579	516
	1	1,009	966	927	892	930	893	860	830	757	733	711	632	615	599	516	505	495	441
	2	922	848	787	735	849	785	732	687	668	628	595	559	531	506	459	439	422	375
	3	844	749	675	617	776	694	630	579	592	544	504	498	463	433	410	385	364	322
	4	774	666	586	526	712	618	548	495	529	476	434	446	407	375	369	341	317	280
	5	712	596	514	454	656	554	482	428	476	420	377	403	361	328	335	305	280	247
	6	658	536	455	396	606	500	427	375	431	374	332	367	323	290	306	274	249	220
	7	610	486	406	349	562	454	382	331	393	336	295	336	292	259	282	249	224	197
	8	567	443	365	311	524	414	344	295	360	304	264	309	265	233	261	228	203	179
9	529	406	330	279	489	380	312	265	331	277	238	286	242	212	242	209	185	163	
10	496	374	301	252	459	351	285	240	307	254	217	265	223	193	226	194	170	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	2 fc	0 ft	0 ft
15 ft	1 fc	0 ft	0 ft