



**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**

APX-PR-4x6-D10-I3-30-80-OW/MC

APEX 4'x6" - Sound Absorbing Panels - Direct/Indirect - Opal White/Matte Clear Lenses

#### **Test Number**

IES-P00264

#### **Test Date**

Fri Oct 11 15:04:27 2019

The results contained in this report pertain only to the tested sample.  
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APX-PR-4x6-D10-I3-30-80-OW/MC  
APEX 4'x6" - Sound Absorbing Panels - Direct/Indirect - Opal White/Matte Clear Lenses  
LED (3000K 80+ CRI)



Image may differ slightly from actual unit.

### Summary of Results

#### Output:

<b>Watts:</b>	63.25 W
<b>Lumens:</b>	5,525.92 lm
<b>Efficiency:</b>	N/A
<b>Efficacy:</b>	85.57 lm/W

#### Spacing Criterion

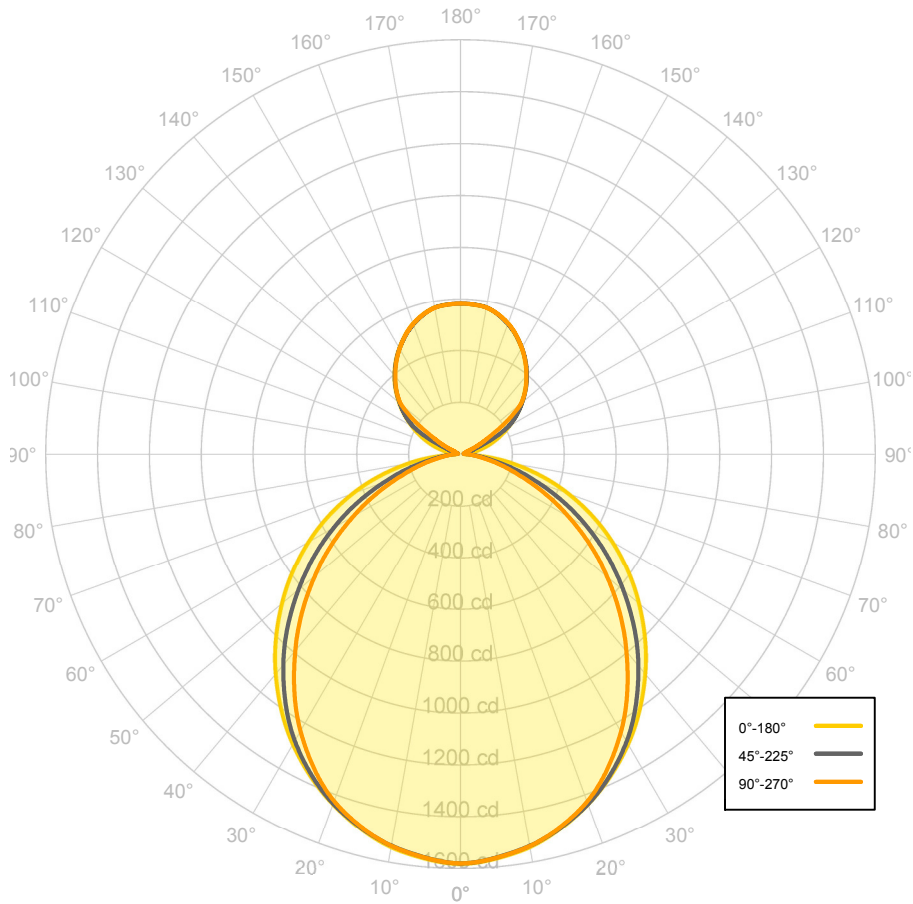
<b>Two luminaires, plane 0°</b>	1.21
<b>Two luminaires, plane 90°</b>	1.17
<b>Four luminaires</b>	1.3

#### Full Beam Angle

<b>0° - 180°</b>	109.63°
<b>90° - 270°</b>	95.82°

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°	267.28	4.84%	90° - 100°	19.48	0.35%
10° - 20°	415.63	7.52%	100° - 110°	50.49	0.91%
20° - 30°	618.22	11.19%	100° - 120°	177.07	3.20%
30° - 40°	722.29	13.07%	120° - 130°	218.81	3.96%
40° - 50°	717.94	12.99%	130° - 140°	268.91	4.87%
50° - 60°	615.09	11.13%	140° - 150°	268.73	4.86%
60° - 70°	437.01	7.91%	150° - 160°	229.24	4.15%
70° - 80°	228.48	4.13%	160° - 170°	154.52	2.80%
80° - 90°	68.29	1.24%	170° - 180°	98.93	1.79%
0° - 90°	4,090.22	74.02%	0° - 180°	5,525.92	100.00%



**Candela Distribution**

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	1,582.94	1,582.94	1,582.94	1,582.94	1,582.94
10.00°	1,542.26	1,535.14	1,538.00	1,534.81	1,538.57
20.00°	1,438.31	1,441.90	1,440.06	1,438.70	1,429.87
30.00°	1,293.30	1,294.21	1,282.47	1,252.17	1,238.91
40.00°	1,108.77	1,110.38	1,067.32	1,014.84	995.35
50.00°	898.45	886.67	819.95	759.42	737.58
60.00°	676.16	646.55	562.42	498.63	474.68
70.00°	441.82	394.59	307.17	252.26	235.99
80.00°	204.20	146.81	94.24	79.33	76.97
90.00°	16.65	10.43	10.57	10.34	10.39
100.00°	55.34	29.71	15.33	17.37	17.76
110.00°	129.95	127.81	58.74	25.12	24.21
120.00°	216.76	219.92	214.43	152.84	117.55
130.00°	309.20	309.20	309.56	307.42	305.73
140.00°	396.15	397.33	397.46	395.59	394.27
150.00°	471.73	471.29	472.02	472.48	471.65
160.00°	535.28	534.61	533.64	532.78	535.53
170.00°	574.26	569.59	574.27	573.88	573.66
180.00°	580.94	580.94	580.94	580.94	580.94

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

	0.00°	45.00°	90.00°
0.00°	18,783	18,783	18,783
45.00°	14,953	6,016	4,570
55.00°	13,798	4,293	3,047
65.00°	12,350	2,713	1,757
75.00°	10,064	1,298	785
85.00°	6,152	363	229



**Coefficients of Utilization – Zonal Cavity Method**

Values are lumens delivered to the workplane.

	<b>pfc</b>	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>RCR</b>	<b>0</b>	6,237	6,237	6,237	6,237	5,925	5,925	5,925	5,925	5,342	5,342	5,342	4,810	4,810	4,810	4,320	4,320	4,320	4,090
	<b>1</b>	5,718	5,476	5,259	5,064	5,425	5,212	5,021	4,848	4,719	4,571	4,435	4,265	4,153	4,049	3,847	3,763	3,685	3,479
	<b>2</b>	5,224	4,808	4,464	4,175	4,950	4,583	4,276	4,016	4,160	3,918	3,708	3,770	3,581	3,415	3,410	3,264	3,134	2,946
	<b>3</b>	4,782	4,249	3,836	3,508	4,529	4,056	3,684	3,385	3,692	3,392	3,146	3,355	3,116	2,916	3,042	2,854	2,693	2,521
	<b>4</b>	4,392	3,783	3,337	2,997	4,160	3,616	3,212	2,899	3,301	2,970	2,709	3,009	2,740	2,523	2,736	2,521	2,343	2,184
	<b>5</b>	4,049	3,393	2,936	2,597	3,836	3,249	2,831	2,518	2,974	2,628	2,363	2,719	2,434	2,210	2,481	2,248	2,061	1,915
	<b>6</b>	3,746	3,065	2,608	2,280	3,552	2,939	2,519	2,214	2,699	2,347	2,085	2,475	2,181	1,958	2,265	2,022	1,833	1,698
	<b>7</b>	3,480	2,787	2,337	2,022	3,302	2,676	2,261	1,967	2,464	2,114	1,858	2,267	1,971	1,751	2,081	1,834	1,645	1,520
	<b>8</b>	3,244	2,549	2,112	1,811	3,082	2,451	2,046	1,764	2,264	1,918	1,671	2,088	1,794	1,580	1,923	1,675	1,489	1,373
	<b>9</b>	3,035	2,345	1,922	1,636	2,886	2,257	1,865	1,596	2,091	1,753	1,516	1,934	1,645	1,436	1,787	1,540	1,358	1,250
	<b>10</b>	2,849	2,168	1,760	1,489	2,713	2,090	1,710	1,454	1,941	1,612	1,384	1,800	1,516	1,315	1,668	1,423	1,247	1,147

**Cone of Light**

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	44 fc	17 ft	13 ft
8 ft	25 fc	23 ft	18 ft
10 ft	16 fc	28 ft	22 ft
12 ft	11 fc	34 ft	27 ft
15 ft	7 fc	43 ft	33 ft