



**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-D3-I5-30-80-OW/MC

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

#### **Test Number**

IES-P00253

#### **Test Date**

Thu Oct 10 12:43:33 2019

The results contained in this report pertain only to the tested sample.  
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APX-PR-4x6-D3-I5-30-80-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>	37.83 W
<b>Lumens:</b>	3,477.56 lm
<b>Efficiency:</b>	N/A
<b>Efficacy:</b>	90 lm/W

**Spacing Criterion**

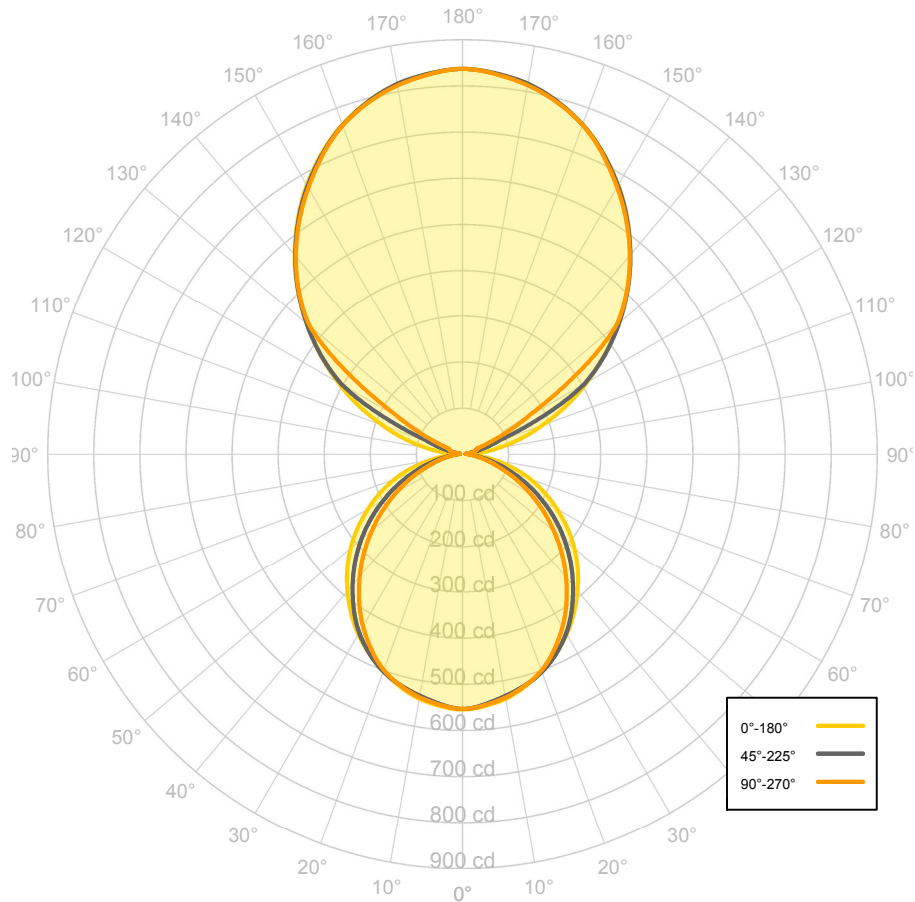
<b>Two luminaires, plane 0°</b>	1.21
<b>Two luminaires, plane 90°</b>	1.17
<b>Four luminaires</b>	1.3

**Full Beam Angle**

<b>0° - 180°</b>	256.52°
<b>90° - 270°</b>	258.66°

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°	93.51	2.69%	90° - 100°	22.51	0.65%
10° - 20°	145.22	4.18%	100° - 110°	72.14	2.07%
20° - 30°	216.34	6.22%	100° - 120°	253.13	7.28%
30° - 40°	252.97	7.27%	120° - 130°	312.84	9.00%
40° - 50°	251.32	7.23%	130° - 140°	384.20	11.05%
50° - 60°	215.03	6.18%	140° - 150°	383.73	11.03%
60° - 70°	152.65	4.39%	150° - 160°	327.12	9.41%
70° - 80°	79.96	2.30%	160° - 170°	220.17	6.33%
80° - 90°	25.29	0.73%	170° - 180°	141.57	4.07%
0° - 90°	1,432.29	41.19%	0° - 180°	3,477.56	100.00%



**Candela Distribution**

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	554.70	554.70	554.70	554.70	554.70
10.00°	539.52	536.69	534.39	538.57	537.84
20.00°	501.92	502.03	504.21	502.98	500.82
30.00°	452.22	453.71	449.90	438.62	433.69
40.00°	388.07	388.33	372.49	356.68	348.88
50.00°	316.88	310.84	287.07	264.95	256.48
60.00°	236.45	226.59	196.37	173.17	164.95
70.00°	156.24	138.27	107.21	87.71	81.79
80.00°	72.01	51.74	32.72	27.58	27.04
90.00°	9.10	5.91	6.13	5.98	6.08
100.00°	78.54	42.23	22.06	24.66	25.47
110.00°	184.56	183.51	84.52	35.60	34.21
120.00°	311.13	315.07	306.09	217.98	167.50
130.00°	440.88	441.84	444.02	439.37	436.32
140.00°	566.05	568.13	566.52	563.91	564.49
150.00°	675.63	674.61	673.87	674.20	669.97
160.00°	761.91	762.16	761.26	760.82	760.78
170.00°	816.56	813.89	816.71	817.00	813.36
180.00°	836.62	836.62	836.62	836.62	836.62

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

	0.00°	45.00°	90.00°
0.00°	6,582	6,582	6,582
45.00°	5,252	2,103	1,596
55.00°	4,849	1,501	1,059
65.00°	4,338	947	610
75.00°	3,556	452	273
85.00°	2,259	135	87



**Coefficients of Utilization – Zonal Cavity Method**

Values are lumens delivered to the workplane.

<b>RCR</b>	<b>pf<sub>c</sub></b>	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
	<b>pc<sub>c</sub></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>0</b>	3,653	3,653	3,653	3,653	3,330	3,330	3,330	3,330	2,728	2,728	2,728	2,176	2,176	2,176	1,670	1,670	1,670	1,432
	<b>1</b>	3,338	3,191	3,060	2,941	3,038	2,915	2,803	2,703	2,397	2,319	2,248	1,922	1,870	1,821	1,484	1,451	1,420	1,217
	<b>2</b>	3,044	2,795	2,588	2,415	2,768	2,556	2,380	2,230	2,109	1,982	1,873	1,696	1,609	1,532	1,314	1,257	1,206	1,031
	<b>3</b>	2,781	2,462	2,215	2,018	2,527	2,255	2,042	1,870	1,866	1,710	1,582	1,505	1,396	1,304	1,171	1,098	1,035	882
	<b>4</b>	2,547	2,182	1,916	1,712	2,314	2,002	1,770	1,591	1,662	1,490	1,353	1,346	1,223	1,123	1,052	968	899	764
	<b>5</b>	2,340	1,947	1,673	1,470	2,127	1,789	1,549	1,370	1,490	1,310	1,172	1,212	1,081	978	952	861	789	670
	<b>6</b>	2,157	1,748	1,474	1,277	1,962	1,609	1,368	1,192	1,345	1,162	1,025	1,098	964	861	868	773	699	594
	<b>7</b>	1,995	1,579	1,309	1,120	1,816	1,456	1,217	1,048	1,221	1,038	905	1,002	866	764	796	699	626	532
	<b>8</b>	1,852	1,434	1,172	991	1,688	1,325	1,091	929	1,115	935	806	919	783	685	734	637	565	480
<b>9</b>	1,725	1,310	1,056	885	1,574	1,212	986	831	1,024	848	724	847	714	618	680	584	513	437	
<b>10</b>	1,613	1,203	958	795	1,474	1,115	896	748	945	773	654	785	654	562	634	539	470	401	

**Cone of Light**

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	15 fc	0 ft	0 ft
8 ft	9 fc	0 ft	0 ft
10 ft	6 fc	0 ft	0 ft
12 ft	4 fc	0 ft	0 ft
15 ft	2 fc	0 ft	0 ft