



**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-D5-I10-30-80-OW/MC

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

#### **Test Number**

IES-P00259

#### **Test Date**

Mon Oct 14 09:32:26 2019

The results contained in this report pertain only to the tested sample.  
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APX-PR-4x6-D5-I10-30-80-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>	64.46 W
<b>Lumens:</b>	6,140.05 lm
<b>Efficiency:</b>	N/A
<b>Efficacy:</b>	93.25 lm/W

#### Spacing Criterion

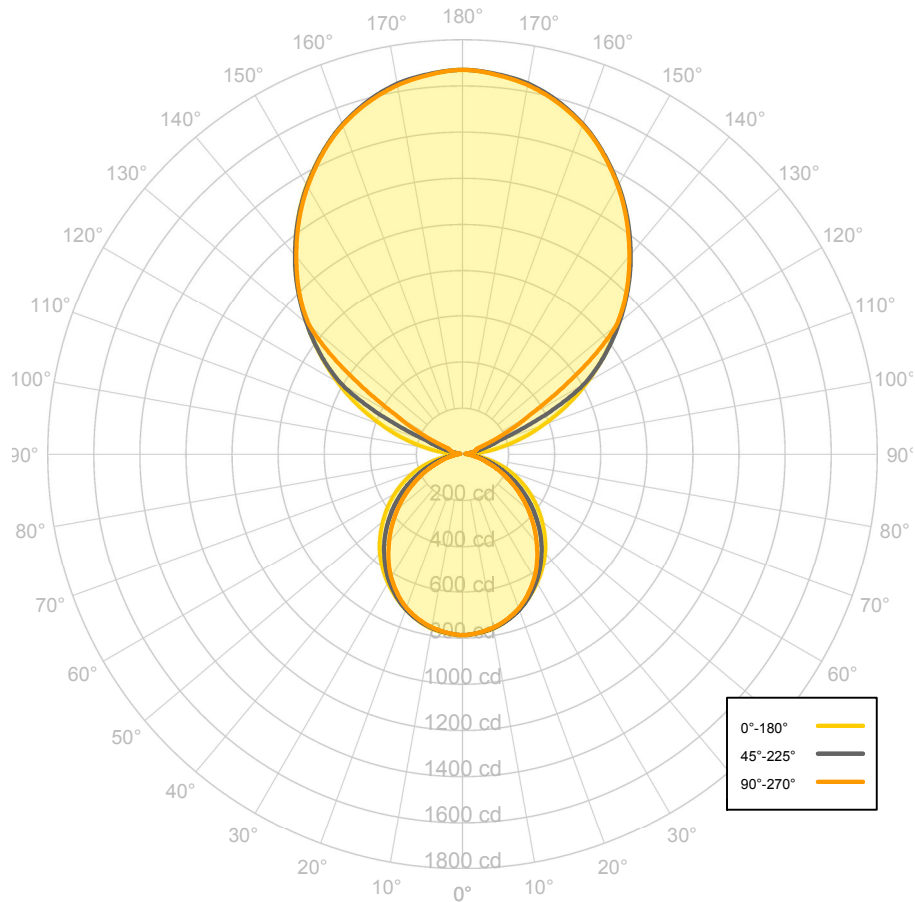
<b>Two luminaires, plane 0°</b>	1.21
<b>Two luminaires, plane 90°</b>	1.17
<b>Four luminaires</b>	1.31

#### Full Beam Angle

<b>0° - 180°</b>	360°
<b>90° - 270°</b>	360°

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°	133.39	2.17%	90° - 100°	44.01	0.72%
10° - 20°	207.58	3.38%	100° - 110°	144.66	2.36%
20° - 30°	308.93	5.03%	100° - 120°	507.62	8.27%
30° - 40°	361.22	5.88%	120° - 130°	626.66	10.21%
40° - 50°	358.87	5.84%	130° - 140°	769.02	12.52%
50° - 60°	307.01	5.00%	140° - 150°	767.95	12.51%
60° - 70°	217.86	3.55%	150° - 160°	654.60	10.66%
70° - 80°	114.07	1.86%	160° - 170°	440.92	7.18%
80° - 90°	37.08	0.60%	170° - 180°	283.25	4.61%
0° - 90°	2,046.01	33.32%	0° - 180°	6,140.05	100.00%



**Candela Distribution**

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	788.14	788.14	788.14	788.14	788.14
10.00°	771.10	770.53	769.70	765.31	766.88
20.00°	719.44	716.10	721.12	718.56	713.62
30.00°	647.31	646.85	639.48	627.39	622.00
40.00°	557.78	554.87	532.73	506.74	498.42
50.00°	450.45	445.50	409.24	377.49	366.97
60.00°	337.95	322.87	280.47	247.87	235.58
70.00°	221.65	197.65	152.63	125.24	116.67
80.00°	103.30	73.46	46.67	39.79	38.65
90.00°	15.37	10.03	10.46	10.32	9.97
100.00°	158.10	84.71	44.29	49.27	49.97
110.00°	372.06	367.49	168.70	71.75	69.28
120.00°	625.20	631.12	613.24	437.70	335.26
130.00°	880.41	885.77	888.20	880.54	872.26
140.00°	1,129.52	1,135.13	1,135.71	1,132.29	1,126.21
150.00°	1,351.08	1,349.21	1,350.51	1,345.51	1,346.10
160.00°	1,521.33	1,522.62	1,525.61	1,524.76	1,522.13
170.00°	1,630.21	1,638.50	1,634.62	1,640.70	1,627.66
180.00°	1,669.12	1,669.12	1,669.12	1,669.12	1,669.12

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

	0.00°	45.00°	90.00°
0.00°	9,352	9,352	9,352
45.00°	7,511	3,003	2,282
55.00°	6,909	2,142	1,514
65.00°	6,182	1,351	871
75.00°	5,062	644	389
85.00°	3,306	198	128



**Coefficients of Utilization – Zonal Cavity Method**

Values are lumens delivered to the workplane.

	<b>pf<sub>c</sub></b>	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>RCR</b>	<b>0</b>	6,335	6,335	6,335	6,335	5,711	5,711	5,711	5,711	4,548	4,548	4,548	3,483	3,483	3,483	2,506	2,506	2,506	2,046
	<b>1</b>	5,783	5,526	5,296	5,089	5,205	4,992	4,799	4,625	3,991	3,860	3,739	3,071	2,987	2,909	2,224	2,174	2,128	1,738
	<b>2</b>	5,272	4,837	4,477	4,174	4,740	4,375	4,070	3,812	3,508	3,295	3,112	2,708	2,567	2,444	1,968	1,883	1,806	1,472
	<b>3</b>	4,814	4,257	3,826	3,483	4,325	3,856	3,488	3,192	3,101	2,839	2,624	2,402	2,225	2,077	1,753	1,643	1,549	1,259
	<b>4</b>	4,405	3,769	3,304	2,949	3,958	3,419	3,019	2,709	2,759	2,470	2,241	2,145	1,947	1,786	1,574	1,448	1,343	1,091
	<b>5</b>	4,043	3,358	2,880	2,527	3,634	3,051	2,637	2,327	2,470	2,167	1,935	1,929	1,718	1,552	1,423	1,287	1,178	957
	<b>6</b>	3,723	3,010	2,532	2,188	3,348	2,739	2,323	2,020	2,225	1,917	1,688	1,745	1,528	1,362	1,296	1,154	1,043	848
	<b>7</b>	3,440	2,714	2,243	1,913	3,096	2,474	2,062	1,770	2,017	1,710	1,486	1,589	1,370	1,207	1,188	1,043	932	759
	<b>8</b>	3,190	2,461	2,003	1,688	2,874	2,247	1,844	1,564	1,839	1,536	1,319	1,455	1,237	1,078	1,094	949	840	686
	<b>9</b>	2,968	2,244	1,800	1,501	2,678	2,052	1,661	1,393	1,685	1,388	1,180	1,340	1,124	970	1,014	869	762	625
	<b>10</b>	2,771	2,057	1,629	1,345	2,503	1,884	1,505	1,250	1,552	1,263	1,064	1,239	1,028	879	944	800	697	573

**Cone of Light**

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	22 fc	0 ft	0 ft
8 ft	12 fc	0 ft	0 ft
10 ft	8 fc	0 ft	0 ft
12 ft	5 fc	0 ft	0 ft
15 ft	4 fc	0 ft	0 ft