



**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-D7-I3-30-80-OW/MC

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

#### **Test Number**

IES-P00260

#### **Test Date**

Fri Oct 11 10:36:49 2019

The results contained in this report pertain only to the tested sample.  
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APX-PR-4x6-D7-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>	51.18 W
<b>Lumens:</b>	4,502.39 lm
<b>Efficiency:</b>	N/A
<b>Efficacy:</b>	86.14 lm/W

**Spacing Criterion**

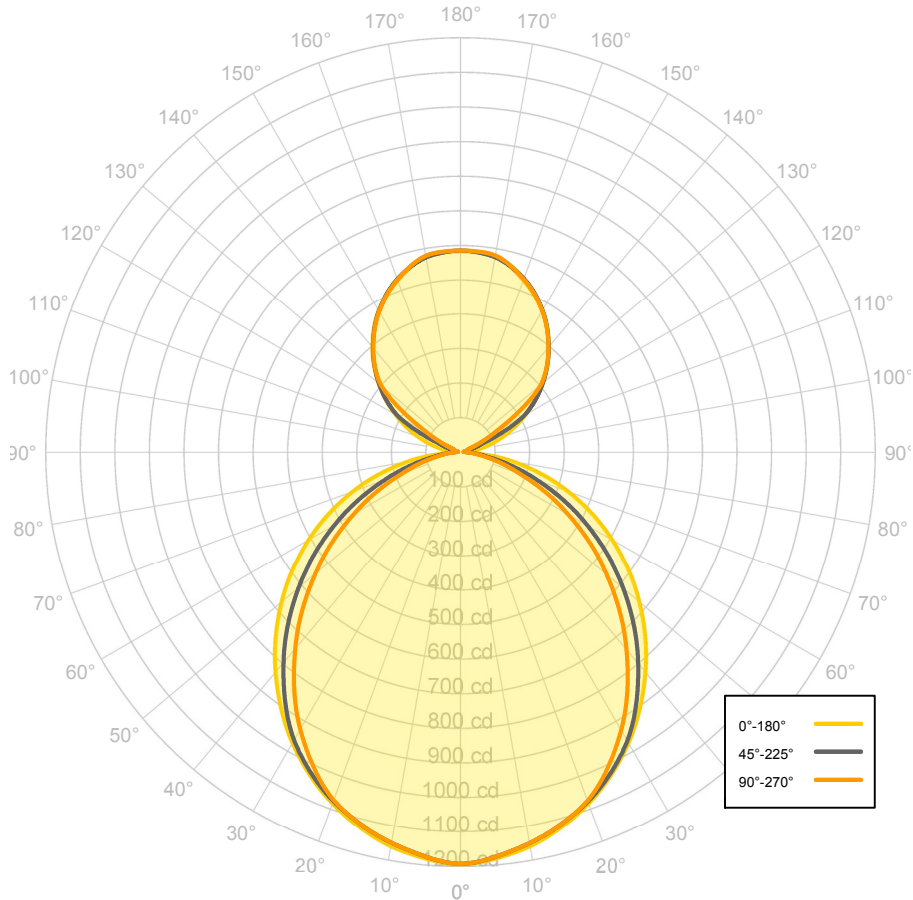
<b>Two luminaires, plane 0°</b>	1.2
<b>Two luminaires, plane 90°</b>	1.15
<b>Four luminaires</b>	1.3

**Full Beam Angle**

<b>0° - 180°</b>	109.27°
<b>90° - 270°</b>	95.3°

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°	200.97	4.46%	90° - 100°	18.29	0.41%
10° - 20°	311.91	6.93%	100° - 110°	50.67	1.13%
20° - 30°	464.28	10.31%	100° - 120°	177.55	3.94%
30° - 40°	541.93	12.04%	120° - 130°	219.12	4.87%
40° - 50°	538.13	11.95%	130° - 140°	269.00	5.97%
50° - 60°	460.66	10.23%	140° - 150°	268.84	5.97%
60° - 70°	326.77	7.26%	150° - 160°	229.10	5.09%
70° - 80°	170.85	3.79%	160° - 170°	154.27	3.43%
80° - 90°	51.49	1.14%	170° - 180°	99.21	2.20%
0° - 90°	3,067.01	68.12%	0° - 180°	4,502.39	100.00%



**Candela Distribution**

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	1,193.94	1,193.94	1,193.94	1,193.94	1,193.94
10.00°	1,159.56	1,153.47	1,151.10	1,151.39	1,150.93
20.00°	1,082.59	1,082.38	1,078.47	1,080.20	1,075.77
30.00°	972.05	972.01	966.04	938.22	930.21
40.00°	832.00	831.61	799.41	760.73	746.73
50.00°	674.93	666.52	614.14	568.29	551.00
60.00°	506.66	486.02	420.31	370.90	354.34
70.00°	330.85	295.87	229.46	187.77	175.34
80.00°	153.91	110.09	70.39	59.05	57.57
90.00°	12.97	8.41	8.49	8.57	8.31
100.00°	55.02	29.67	15.48	17.37	17.99
110.00°	129.57	128.62	59.54	24.97	24.40
120.00°	216.67	221.17	214.77	152.27	117.64
130.00°	308.47	309.79	310.38	308.87	304.22
140.00°	396.11	396.91	396.14	395.82	395.19
150.00°	473.45	471.22	473.45	473.00	472.08
160.00°	531.23	532.67	534.13	530.60	532.28
170.00°	577.83	571.13	572.61	574.46	577.32
180.00°	583.30	583.30	583.30	583.30	583.30

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

	0.00°	45.00°	90.00°
0.00°	14,167	14,167	14,167
45.00°	11,226	4,506	3,422
55.00°	10,354	3,212	2,275
65.00°	9,251	2,027	1,309
75.00°	7,552	969	584
85.00°	4,649	273	173



**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>	5,018	5,018	5,018	5,018	4,735	4,735	4,735	4,735	4,205	4,205	4,205	3,721	3,721	3,721	3,276	3,276	3,276	3,067
	<b>1</b>	4,598	4,403	4,227	4,069	4,333	4,162	4,009	3,869	3,712	3,595	3,488	3,298	3,211	3,130	2,917	2,853	2,794	2,609
	<b>2</b>	4,200	3,864	3,587	3,353	3,953	3,658	3,412	3,204	3,272	3,080	2,915	2,915	2,768	2,639	2,585	2,475	2,376	2,210
	<b>3</b>	3,844	3,413	3,080	2,815	3,616	3,236	2,938	2,698	2,902	2,666	2,472	2,593	2,408	2,253	2,307	2,164	2,042	1,891
	<b>4</b>	3,529	3,037	2,677	2,402	3,319	2,884	2,560	2,309	2,594	2,333	2,126	2,325	2,117	1,949	2,075	1,911	1,776	1,639
	<b>5</b>	3,251	2,722	2,352	2,079	3,059	2,588	2,253	2,003	2,336	2,062	1,853	2,100	1,879	1,706	1,880	1,704	1,563	1,437
	<b>6</b>	3,007	2,456	2,087	1,822	2,831	2,339	2,003	1,758	2,118	1,840	1,633	1,910	1,683	1,510	1,717	1,533	1,389	1,274
	<b>7</b>	2,791	2,231	1,868	1,614	2,631	2,128	1,796	1,560	1,932	1,655	1,454	1,749	1,520	1,349	1,577	1,390	1,246	1,141
	<b>8</b>	2,600	2,038	1,685	1,443	2,453	1,947	1,623	1,397	1,774	1,501	1,306	1,611	1,383	1,216	1,457	1,269	1,128	1,031
	<b>9</b>	2,430	1,873	1,531	1,301	2,296	1,792	1,477	1,261	1,637	1,370	1,183	1,491	1,266	1,105	1,354	1,166	1,028	939
	<b>10</b>	2,280	1,730	1,401	1,182	2,157	1,657	1,352	1,147	1,518	1,258	1,079	1,387	1,167	1,011	1,263	1,078	944	861

**Cone of Light**

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	33 fc	17 ft	13 ft
8 ft	19 fc	23 ft	18 ft
10 ft	12 fc	28 ft	22 ft
12 ft	8 fc	34 ft	26 ft
15 ft	5 fc	42 ft	33 ft