



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

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

##### **Test Number**

IES-P00263

##### **Test Date**

Mon Oct 14 08:48:52 2019

The results contained in this report pertain only to the tested sample.  
This report shall not be reproduced, except in full, without written approval of Picasso Lighting Industries, LLC.

APX-PR-4x6-D7-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>      | 76.56 W     |
| <b>Lumens:</b>     | 7,164.58 lm |
| <b>Efficiency:</b> | N/A         |
| <b>Efficacy:</b>   | 91.62 lm/W  |

#### Spacing Criterion

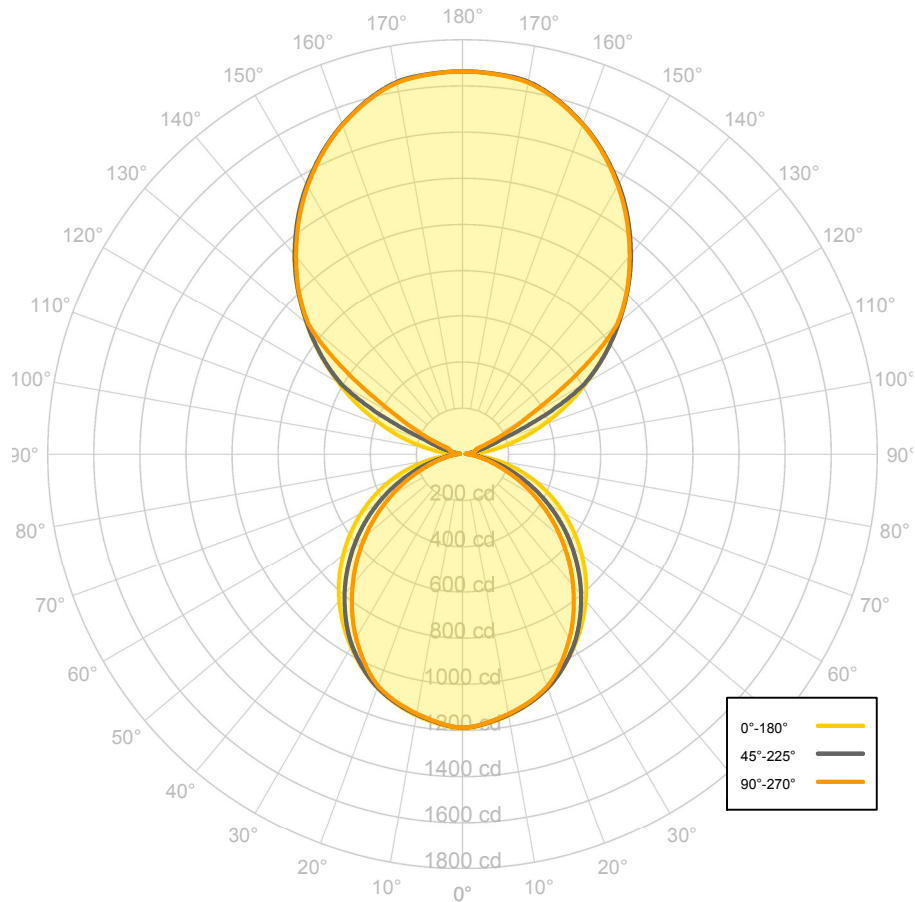
|                                  |      |
|----------------------------------|------|
| <b>Two luminaires, plane 0°</b>  | 1.2  |
| <b>Two luminaires, plane 90°</b> | 1.15 |
| <b>Four luminaires</b>           | 1.3  |

#### Full Beam Angle

|                   |         |
|-------------------|---------|
| <b>0° - 180°</b>  | 256.13° |
| <b>90° - 270°</b> | 258.42° |

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°  | 200.63   | 2.80%     | 90° - 100°  | 45.30    | 0.63%     |
| 10° - 20° | 311.69   | 4.35%     | 100° - 110° | 144.09   | 2.01%     |
| 20° - 30° | 463.65   | 6.47%     | 100° - 120° | 506.20   | 7.07%     |
| 30° - 40° | 541.70   | 7.56%     | 120° - 130° | 626.25   | 8.74%     |
| 40° - 50° | 538.50   | 7.52%     | 130° - 140° | 769.54   | 10.74%    |
| 50° - 60° | 460.60   | 6.43%     | 140° - 150° | 769.64   | 10.74%    |
| 60° - 70° | 326.69   | 4.56%     | 150° - 160° | 655.62   | 9.15%     |
| 70° - 80° | 171.03   | 2.39%     | 160° - 170° | 440.86   | 6.15%     |
| 80° - 90° | 53.92    | 0.75%     | 170° - 180° | 282.76   | 3.95%     |
| 0° - 90°  | 3,068.41 | 42.83%    | 0° - 180°   | 7,164.58 | 100.00%   |



**Candela Distribution**

|         | 0.00°    | 22.50°   | 45.00°   | 67.50°   | 90.00°   |
|---------|----------|----------|----------|----------|----------|
| 0.00°   | 1,190.59 | 1,190.59 | 1,190.59 | 1,190.59 | 1,190.59 |
| 10.00°  | 1,152.67 | 1,154.38 | 1,151.73 | 1,151.35 | 1,147.66 |
| 20.00°  | 1,079.88 | 1,080.62 | 1,082.02 | 1,077.33 | 1,074.69 |
| 30.00°  | 967.61   | 970.08   | 963.06   | 939.69   | 927.04   |
| 40.00°  | 831.98   | 833.51   | 799.56   | 762.54   | 745.13   |
| 50.00°  | 674.41   | 667.43   | 614.41   | 568.73   | 550.29   |
| 60.00°  | 505.93   | 486.03   | 420.52   | 370.46   | 352.65   |
| 70.00°  | 331.90   | 295.78   | 229.00   | 188.70   | 174.84   |
| 80.00°  | 154.29   | 110.19   | 70.84    | 58.99    | 57.64    |
| 90.00°  | 18.76    | 12.27    | 12.61    | 12.61    | 12.45    |
| 100.00° | 157.05   | 84.72    | 44.07    | 49.43    | 50.62    |
| 110.00° | 368.74   | 365.05   | 168.93   | 71.57    | 69.02    |
| 120.00° | 620.81   | 631.87   | 612.59   | 436.39   | 336.67   |
| 130.00° | 881.99   | 885.56   | 885.23   | 881.25   | 873.86   |
| 140.00° | 1,133.48 | 1,138.55 | 1,136.96 | 1,131.77 | 1,127.82 |
| 150.00° | 1,352.31 | 1,355.12 | 1,353.52 | 1,351.39 | 1,346.95 |
| 160.00° | 1,523.38 | 1,518.88 | 1,525.62 | 1,525.44 | 1,523.70 |
| 170.00° | 1,638.29 | 1,627.25 | 1,642.10 | 1,635.08 | 1,638.33 |
| 180.00° | 1,662.82 | 1,662.82 | 1,662.82 | 1,662.82 | 1,662.82 |

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

|        | 0.00°  | 45.00° | 90.00° |
|--------|--------|--------|--------|
| 0.00°  | 14,128 | 14,128 | 14,128 |
| 45.00° | 11,222 | 4,507  | 3,416  |
| 55.00° | 10,343 | 3,214  | 2,269  |
| 65.00° | 9,255  | 2,026  | 1,304  |
| 75.00° | 7,574  | 969    | 583    |
| 85.00° | 4,820  | 289    | 184    |



**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>              | 7,554 | 7,554 | 7,554 | 7,554 | 6,902 | 6,902 | 6,902 | 6,902 | 5,685 | 5,685 | 5,685 | 4,572 | 4,572 | 4,572 | 3,549 | 3,549 | 3,549 | 3,068 |
|            | <b>1</b>              | 6,903 | 6,601 | 6,329 | 6,085 | 6,298 | 6,043 | 5,813 | 5,604 | 4,998 | 4,836 | 4,688 | 4,039 | 3,929 | 3,828 | 3,154 | 3,084 | 3,019 | 2,608 |
|            | <b>2</b>              | 6,297 | 5,782 | 5,356 | 4,998 | 5,738 | 5,301 | 4,935 | 4,625 | 4,397 | 4,134 | 3,906 | 3,564 | 3,381 | 3,220 | 2,793 | 2,673 | 2,565 | 2,209 |
|            | <b>3</b>              | 5,753 | 5,094 | 4,584 | 4,178 | 5,239 | 4,677 | 4,236 | 3,880 | 3,891 | 3,567 | 3,300 | 3,164 | 2,934 | 2,741 | 2,490 | 2,334 | 2,201 | 1,890 |
|            | <b>4</b>              | 5,270 | 4,517 | 3,966 | 3,545 | 4,799 | 4,154 | 3,673 | 3,302 | 3,467 | 3,109 | 2,825 | 2,830 | 2,571 | 2,362 | 2,237 | 2,059 | 1,911 | 1,638 |
|            | <b>5</b>              | 4,842 | 4,031 | 3,465 | 3,047 | 4,412 | 3,713 | 3,216 | 2,844 | 3,110 | 2,735 | 2,447 | 2,549 | 2,274 | 2,058 | 2,025 | 1,832 | 1,678 | 1,436 |
|            | <b>6</b>              | 4,464 | 3,621 | 3,054 | 2,648 | 4,070 | 3,340 | 2,841 | 2,477 | 2,808 | 2,426 | 2,141 | 2,311 | 2,028 | 1,812 | 1,845 | 1,645 | 1,488 | 1,273 |
|            | <b>7</b>              | 4,131 | 3,272 | 2,715 | 2,324 | 3,770 | 3,023 | 2,530 | 2,179 | 2,551 | 2,170 | 1,892 | 2,108 | 1,823 | 1,610 | 1,693 | 1,488 | 1,332 | 1,140 |
|            | <b>8</b>              | 3,835 | 2,973 | 2,431 | 2,059 | 3,504 | 2,752 | 2,270 | 1,934 | 2,330 | 1,955 | 1,687 | 1,934 | 1,650 | 1,443 | 1,562 | 1,356 | 1,202 | 1,030 |
|            | <b>9</b>              | 3,574 | 2,717 | 2,193 | 1,838 | 3,269 | 2,519 | 2,051 | 1,730 | 2,141 | 1,773 | 1,515 | 1,784 | 1,504 | 1,303 | 1,448 | 1,244 | 1,094 | 938   |
|            | <b>10</b>             | 3,341 | 2,496 | 1,991 | 1,654 | 3,061 | 2,318 | 1,865 | 1,559 | 1,976 | 1,618 | 1,371 | 1,654 | 1,379 | 1,185 | 1,349 | 1,147 | 1,001 | 860   |

**Cone of Light**

| Mtg Height | Light Level | 0°-180° Beam Diameter | 90°-270° Beam Diameter |
|------------|-------------|-----------------------|------------------------|
| 6 ft       | 33 fc       | 0 ft                  | 0 ft                   |
| 8 ft       | 19 fc       | 0 ft                  | 0 ft                   |
| 10 ft      | 12 fc       | 0 ft                  | 0 ft                   |
| 12 ft      | 8 fc        | 0 ft                  | 0 ft                   |
| 15 ft      | 5 fc        | 0 ft                  | 0 ft                   |