



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-D10-30-80-OW

APEX 4'x6" - Sound Absorbing Panels - Direct - Opal White Lens

Test Number

IES-P00271

Test Date

Fri Oct 11 15:58:56 2019

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



Image may differ slightly from actual unit.

Summary of Results

Output:

| | |
|--------------------|-------------|
| Watts: | 48.73 W |
| Lumens: | 4,030.72 lm |
| Efficiency: | N/A |
| Efficacy: | 82.3 lm/W |

Spacing Criterion

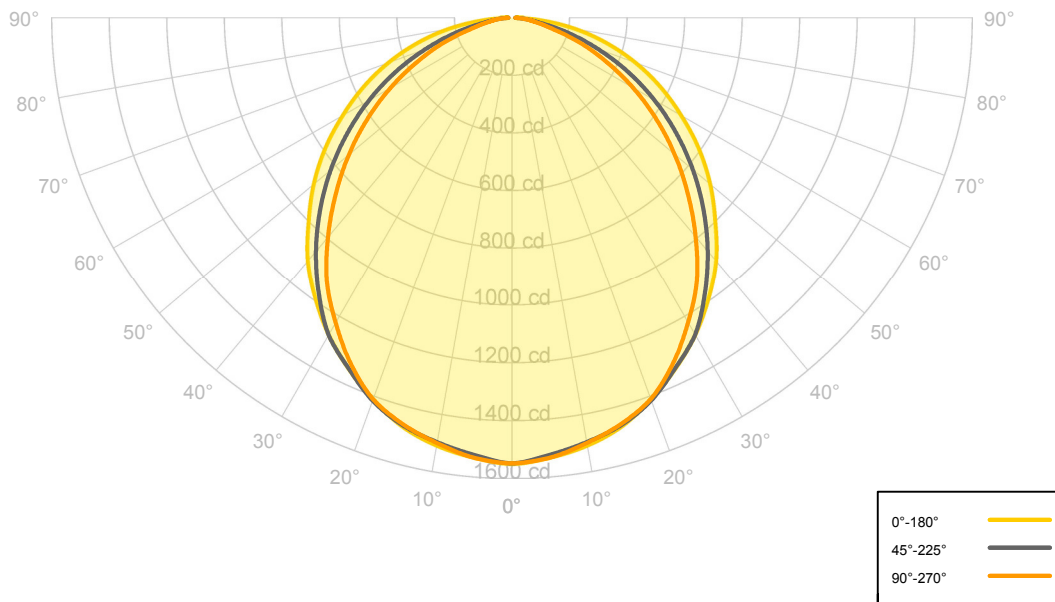
| | |
|----------------------------------|------|
| Two luminaires, plane 0° | 1.21 |
| Two luminaires, plane 90° | 1.18 |
| Four luminaires | 1.31 |

Full Beam Angle

| | |
|-------------------|---------|
| 0° - 180° | 111.58° |
| 90° - 270° | 97.19° |

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° | 174.63 | 4.33% | 90° - 100° | 3.23 | 0.08% |
| 10° - 20° | 412.16 | 10.23% | 100° - 110° | 0.00 | 0.00% |
| 20° - 30° | 615.93 | 15.28% | 100° - 120° | 0.00 | 0.00% |
| 30° - 40° | 723.80 | 17.96% | 120° - 130° | 0.00 | 0.00% |
| 40° - 50° | 723.12 | 17.94% | 130° - 140° | 0.00 | 0.00% |
| 50° - 60° | 626.21 | 15.54% | 140° - 150° | 0.00 | 0.00% |
| 60° - 70° | 452.07 | 11.22% | 150° - 160° | 0.00 | 0.00% |
| 70° - 80° | 236.77 | 5.87% | 160° - 170° | 0.00 | 0.00% |
| 80° - 90° | 66.03 | 1.64% | 170° - 180° | 0.00 | 0.00% |
| 0° - 90° | 4,030.72 | 100.00% | 0° - 180° | 4,030.72 | 100.00% |



Candela Distribution

| | 0.00° | 22.50° | 45.00° | 67.50° | 90.00° |
|--------|----------|----------|----------|----------|----------|
| 0.00° | 1,549.60 | 1,549.60 | 1,549.60 | 1,549.60 | 1,549.60 |
| 5.00° | 1,533.29 | 1,537.93 | 1,525.78 | 1,540.09 | 1,535.57 |
| 10.00° | 1,509.01 | 1,504.78 | 1,498.69 | 1,514.39 | 1,501.85 |
| 15.00° | 1,470.89 | 1,463.57 | 1,467.12 | 1,463.63 | 1,463.48 |
| 20.00° | 1,411.28 | 1,417.64 | 1,416.88 | 1,412.55 | 1,411.67 |
| 25.00° | 1,345.50 | 1,349.36 | 1,344.47 | 1,337.22 | 1,326.48 |
| 30.00° | 1,274.28 | 1,275.00 | 1,274.10 | 1,236.54 | 1,225.11 |
| 35.00° | 1,191.71 | 1,193.75 | 1,170.52 | 1,128.84 | 1,121.35 |
| 40.00° | 1,103.99 | 1,099.62 | 1,059.82 | 1,010.96 | 994.33 |
| 45.00° | 999.09 | 999.80 | 942.37 | 885.46 | 865.39 |
| 50.00° | 899.29 | 890.25 | 821.81 | 763.87 | 739.44 |
| 55.00° | 792.78 | 776.51 | 697.17 | 635.93 | 612.27 |
| 60.00° | 679.08 | 654.57 | 572.39 | 508.84 | 486.63 |
| 65.00° | 569.46 | 534.81 | 446.27 | 385.20 | 362.70 |
| 70.00° | 456.65 | 409.95 | 320.04 | 266.33 | 250.46 |
| 75.00° | 340.18 | 284.77 | 203.05 | 153.95 | 140.18 |
| 80.00° | 222.54 | 163.40 | 95.12 | 80.58 | 80.85 |
| 85.00° | 98.21 | 55.75 | 44.81 | 45.29 | 44.98 |
| 90.00° | 14.48 | 11.72 | 11.66 | 10.94 | 11.22 |

Average Luminaire Luminance [cd/m²]

| | 0.00° | 45.00° | 90.00° |
|--------|--------|--------|--------|
| 0.00° | 18,388 | 18,388 | 18,388 |
| 45.00° | 16,766 | 15,814 | 14,522 |
| 55.00° | 16,401 | 14,423 | 12,667 |
| 65.00° | 15,989 | 12,530 | 10,184 |
| 75.00° | 15,596 | 9,309 | 6,427 |
| 85.00° | 13,371 | 6,101 | 6,124 |



Coefficients of Utilization – Zonal Cavity Method

Values are lumens delivered to the workplane.

| | | | | | | | | | | | | | | | | | | | |
|------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | pfc | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | |
| | pcc | 80% | 80% | 80% | 80% | 70% | 70% | 70% | 70% | 50% | 50% | 50% | 30% | 30% | 30% | 10% | 10% | 10% | 0% |
| | pw | 70% | 50% | 30% | 10% | 70% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0% |
| RCR | 0 | 4,802 | 4,802 | 4,802 | 4,802 | 4,690 | 4,690 | 4,690 | 4,690 | 4,480 | 4,480 | 4,480 | 4,289 | 4,289 | 4,289 | 4,113 | 4,113 | 4,113 | 4,031 |
| | 1 | 4,404 | 4,218 | 4,052 | 3,902 | 4,294 | 4,127 | 3,976 | 3,838 | 3,955 | 3,831 | 3,717 | 3,798 | 3,696 | 3,602 | 3,652 | 3,571 | 3,495 | 3,411 |
| | 2 | 4,018 | 3,696 | 3,430 | 3,207 | 3,913 | 3,620 | 3,376 | 3,168 | 3,477 | 3,271 | 3,094 | 3,345 | 3,174 | 3,023 | 3,223 | 3,081 | 2,955 | 2,869 |
| | 3 | 3,674 | 3,261 | 2,941 | 2,686 | 3,575 | 3,197 | 2,901 | 2,662 | 3,077 | 2,823 | 2,614 | 2,966 | 2,750 | 2,568 | 2,863 | 2,681 | 2,524 | 2,437 |
| | 4 | 3,372 | 2,900 | 2,555 | 2,291 | 3,280 | 2,847 | 2,524 | 2,275 | 2,746 | 2,465 | 2,243 | 2,652 | 2,409 | 2,213 | 2,565 | 2,356 | 2,183 | 2,097 |
| | 5 | 3,108 | 2,600 | 2,246 | 1,984 | 3,024 | 2,555 | 2,222 | 1,973 | 2,470 | 2,177 | 1,952 | 2,391 | 2,133 | 1,930 | 2,316 | 2,091 | 1,909 | 1,825 |
| | 6 | 2,876 | 2,349 | 1,995 | 1,742 | 2,799 | 2,311 | 1,977 | 1,734 | 2,238 | 1,940 | 1,718 | 2,170 | 1,905 | 1,703 | 2,107 | 1,872 | 1,688 | 1,606 |
| | 7 | 2,671 | 2,136 | 1,789 | 1,546 | 2,602 | 2,103 | 1,774 | 1,540 | 2,041 | 1,745 | 1,528 | 1,983 | 1,716 | 1,517 | 1,929 | 1,689 | 1,506 | 1,427 |
| | 8 | 2,491 | 1,954 | 1,617 | 1,385 | 2,428 | 1,926 | 1,605 | 1,381 | 1,873 | 1,581 | 1,372 | 1,823 | 1,558 | 1,364 | 1,776 | 1,536 | 1,355 | 1,279 |
| | 9 | 2,331 | 1,798 | 1,472 | 1,252 | 2,274 | 1,774 | 1,462 | 1,248 | 1,728 | 1,442 | 1,242 | 1,685 | 1,423 | 1,235 | 1,644 | 1,405 | 1,229 | 1,156 |
| | 10 | 2,188 | 1,663 | 1,349 | 1,140 | 2,137 | 1,642 | 1,341 | 1,137 | 1,603 | 1,324 | 1,132 | 1,565 | 1,308 | 1,127 | 1,529 | 1,293 | 1,122 | 1,052 |

Cone of Light

| Mtg Height | Light Level | 0°-180° Beam Diameter | 90°-270° Beam Diameter |
|------------|-------------|-----------------------|------------------------|
| 6 ft | 43 fc | 18 ft | 14 ft |
| 8 ft | 24 fc | 24 ft | 18 ft |
| 10 ft | 15 fc | 29 ft | 23 ft |
| 12 ft | 11 fc | 35 ft | 27 ft |
| 15 ft | 7 fc | 44 ft | 34 ft |