



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

MX2.5-F-4-D3-30-80-FW-W

White Housing - Recessed - Direct - Frosted White Lens

Test Number

IES-P00060

Test Date

Fri Sep 07 13:16:46 2018

The results contained in this report pertain only to the tested sample.
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MX2.5-F-4-D3-30-80-FW-W
White Housing - Recessed - Direct - Frosted White Lens
LED (3000K 80+ CRI)

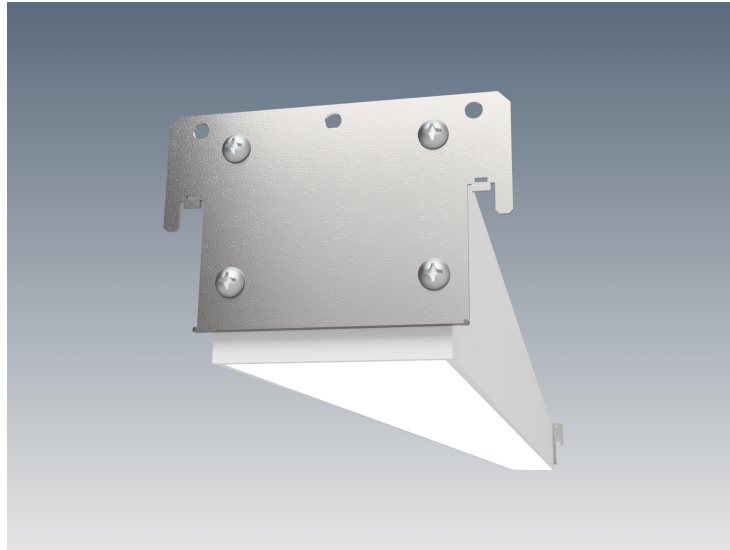


Image may differ slightly from actual unit.

Summary of Results

Output:

| | |
|--------------------|-------------|
| Watts: | 17.75 W |
| Lumens: | 1,406.90 lm |
| Efficiency: | N/A |
| Efficacy: | 78.89 lm/W |

Spacing Criterion

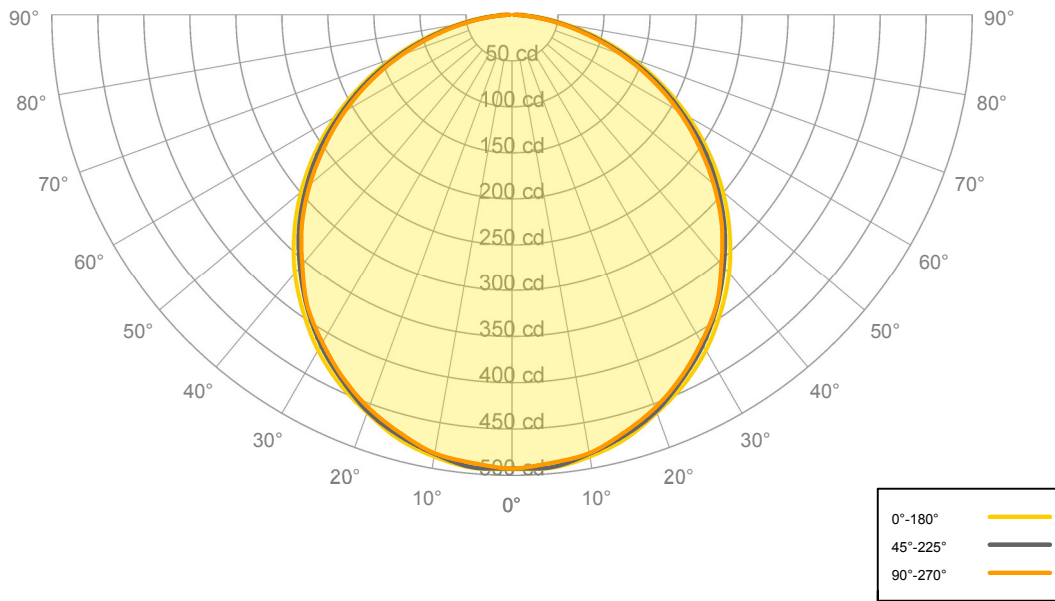
| | |
|----------------------------------|------|
| Two luminaires, plane 0° | 1.26 |
| Two luminaires, plane 90° | 1.24 |
| Four luminaires | 1.37 |

Full Beam Angle

| | |
|-------------------|---------|
| 0° - 180° | 113.54° |
| 90° - 270° | 110.28° |

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° | 55.99 | 3.98% | 90° - 100° | 0.92 | 0.07% |
| 10° - 20° | 133.10 | 9.46% | 100° - 110° | 0.00 | 0.00% |
| 20° - 30° | 201.50 | 14.32% | 100° - 120° | 0.00 | 0.00% |
| 30° - 40° | 242.61 | 17.24% | 120° - 130° | 0.00 | 0.00% |
| 40° - 50° | 251.42 | 17.87% | 130° - 140° | 0.00 | 0.00% |
| 50° - 60° | 226.38 | 16.09% | 140° - 150° | 0.00 | 0.00% |
| 60° - 70° | 171.36 | 12.18% | 150° - 160° | 0.00 | 0.00% |
| 70° - 80° | 96.94 | 6.89% | 160° - 170° | 0.00 | 0.00% |
| 80° - 90° | 27.60 | 1.96% | 170° - 180° | 0.00 | 0.00% |
| 0° - 90° | 1,406.90 | 100.00% | 0° - 180° | 1,406.90 | 100.00% |



Candela Distribution

| | 0.00° | 22.50° | 45.00° | 67.50° | 90.00° |
|--------|--------|--------|--------|--------|--------|
| 0.00° | 493.23 | 493.23 | 493.23 | 493.23 | 493.23 |
| 5.00° | 493.80 | 490.39 | 493.72 | 491.12 | 489.06 |
| 10.00° | 487.08 | 487.34 | 484.63 | 480.86 | 483.85 |
| 15.00° | 476.71 | 474.27 | 473.43 | 471.55 | 470.30 |
| 20.00° | 460.04 | 460.43 | 458.61 | 454.61 | 454.80 |
| 25.00° | 442.76 | 443.02 | 437.59 | 435.27 | 434.84 |
| 30.00° | 421.35 | 418.89 | 415.00 | 412.56 | 411.46 |
| 35.00° | 395.24 | 391.38 | 388.12 | 386.45 | 387.03 |
| 40.00° | 366.94 | 361.41 | 358.28 | 356.04 | 354.32 |
| 45.00° | 334.44 | 329.86 | 327.03 | 324.31 | 322.64 |
| 50.00° | 299.12 | 294.72 | 291.63 | 287.93 | 286.33 |
| 55.00° | 261.04 | 257.33 | 254.67 | 250.96 | 247.98 |
| 60.00° | 221.12 | 218.12 | 214.13 | 210.49 | 209.34 |
| 65.00° | 179.71 | 177.23 | 173.93 | 169.85 | 168.50 |
| 70.00° | 138.47 | 136.51 | 131.99 | 128.57 | 127.28 |
| 75.00° | 96.53 | 95.16 | 90.63 | 87.50 | 86.60 |
| 80.00° | 58.35 | 56.92 | 53.25 | 51.06 | 49.67 |
| 85.00° | 27.09 | 24.73 | 21.76 | 19.64 | 18.76 |
| 90.00° | 6.95 | 4.42 | 2.66 | 1.99 | 1.85 |

Average Luminaire Luminance [cd/m²]

| | 0.00° | 45.00° | 90.00° |
|--------|-------|--------|--------|
| 0.00° | 7,012 | 7,012 | 7,012 |
| 45.00° | 6,724 | 6,575 | 6,487 |
| 55.00° | 6,470 | 6,312 | 6,146 |
| 65.00° | 6,045 | 5,851 | 5,668 |
| 75.00° | 5,302 | 4,978 | 4,757 |
| 85.00° | 4,419 | 3,549 | 3,060 |



Coefficients of Utilization – Zonal Cavity Method

Values are lumens delivered to the workplane.

| | | | | | | | | | | | | | | | | | | | |
|------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| RCR | pf_c | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% |
| | pc_c | 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% |
| | 0 | 1,676 | 1,676 | 1,676 | 1,676 | 1,637 | 1,637 | 1,637 | 1,637 | 1,564 | 1,564 | 1,564 | 1,497 | 1,497 | 1,497 | 1,436 | 1,436 | 1,436 | 1,407 |
| | 1 | 1,530 | 1,463 | 1,402 | 1,348 | 1,492 | 1,431 | 1,376 | 1,326 | 1,371 | 1,325 | 1,284 | 1,315 | 1,278 | 1,244 | 1,265 | 1,235 | 1,207 | 1,177 |
| | 2 | 1,391 | 1,275 | 1,179 | 1,098 | 1,354 | 1,248 | 1,160 | 1,085 | 1,198 | 1,123 | 1,059 | 1,152 | 1,089 | 1,035 | 1,109 | 1,057 | 1,011 | 981 |
| | 3 | 1,269 | 1,120 | 1,005 | 913 | 1,234 | 1,098 | 991 | 905 | 1,055 | 964 | 888 | 1,016 | 938 | 873 | 980 | 914 | 857 | 827 |
| | 4 | 1,162 | 993 | 869 | 774 | 1,129 | 974 | 858 | 769 | 938 | 838 | 758 | 905 | 818 | 747 | 874 | 799 | 737 | 706 |
| | 5 | 1,069 | 887 | 761 | 667 | 1,039 | 872 | 752 | 663 | 841 | 736 | 656 | 813 | 721 | 649 | 787 | 706 | 641 | 611 |
| | 6 | 988 | 800 | 674 | 583 | 960 | 786 | 667 | 580 | 761 | 654 | 575 | 737 | 642 | 570 | 714 | 630 | 565 | 536 |
| | 7 | 916 | 726 | 602 | 516 | 892 | 714 | 597 | 514 | 692 | 587 | 510 | 672 | 577 | 506 | 653 | 567 | 502 | 474 |
| | 8 | 854 | 663 | 543 | 461 | 831 | 653 | 539 | 459 | 634 | 530 | 456 | 617 | 522 | 453 | 600 | 515 | 450 | 423 |
| 9 | 798 | 609 | 493 | 415 | 778 | 601 | 490 | 414 | 584 | 483 | 412 | 569 | 476 | 410 | 555 | 470 | 407 | 382 | |
| 10 | 749 | 563 | 451 | 377 | 731 | 555 | 448 | 376 | 541 | 443 | 375 | 528 | 437 | 373 | 516 | 432 | 371 | 346 | |

Cone of Light

| Mtg Height | Light Level | 0°-180° Beam Diameter | 90°-270° Beam Diameter |
|------------|-------------|-----------------------|------------------------|
| 6 ft | 14 fc | 18 ft | 18 ft |
| 8 ft | 8 fc | 24 ft | 24 ft |
| 10 ft | 5 fc | 30 ft | 30 ft |
| 12 ft | 3 fc | 36 ft | 36 ft |
| 15 ft | 2 fc | 44 ft | 44 ft |