

# Photometrics Pro

## Luminaire Photometric Report

- [Evaluation Version]

**Filename:** ITL64909-HTS9A

**Manufacturer:** BARE DEVELOPMENT, INC.

**Luminaire:** FABRICATED WHITE PAINTED METAL MOUNTING PLATE, EXTRUDED FINNED METAL HEAT SINK, ONE WHITE CIRCUIT BOARD WITH 12 LEDS, OPEN SIDES. CIRCUIT BOARD STOOD-OFF OF LENS 1/4".

**Luminaire Cat:** HTS-9A

**Lamp:** TWELVE WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION. VOLTAGE (120VAC, 60Hz) TO THE LED DRIVER.

**Lamp Output:** 1 lamp(s), rated Lumens/lamp: 1559

**Max Candela:** 887.0 at Horizontal: 65°, Vertical: 2.5°

**Input Wattage:** 29.8

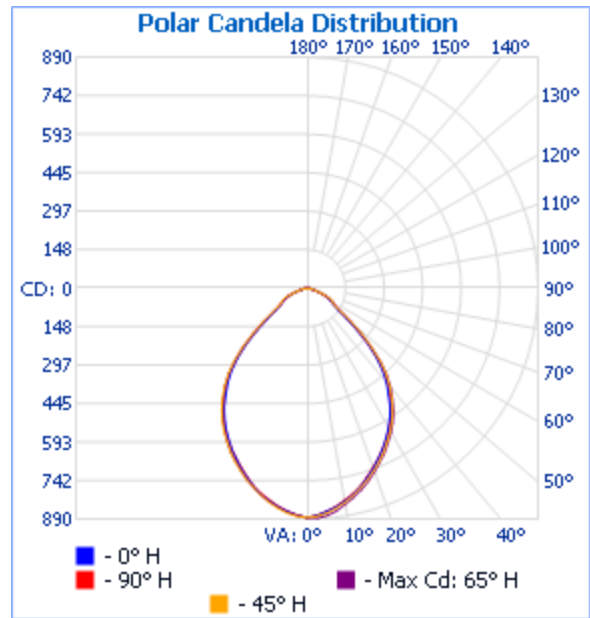
**Luminous Opening:** Rectangle (L: 0.3ft, W: 0.6ft)

**Test:** ITL64909

**Test Lab:** INDEPENDENT TESTING LABORATORIES, INC.

**Photometry :** Type C

**CIE Class:** Direct



### Roadway Summary

|                        |               |        |
|------------------------|---------------|--------|
| Cutoff Classification: | CUTOFF        |        |
| Distribution:          | Type VS       |        |
| Max Cd, 90 Deg Vert:   | 1.0           |        |
| Max Cd, 80 to <90 Deg: | 18.0          |        |
|                        | Lumens % Lamp |        |
| Downward Street Side:  | 781.5         | 50.1%  |
| Downward House Side:   | 781.5         | 50.1%  |
| Downward Total:        | 1,562.9       | 100.3% |
| Upward Street Side:    | 0             | 0%     |
| Upward House Side:     | 0             | 0%     |
| Upward Total:          | 0             | 0%     |
| Total Lumens:          | 1,562.9       | 100.3% |

### Zonal Lumen Summary

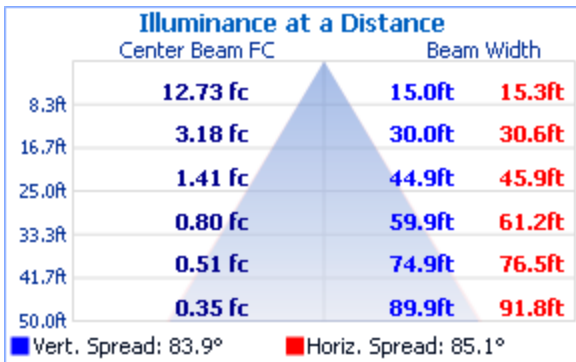
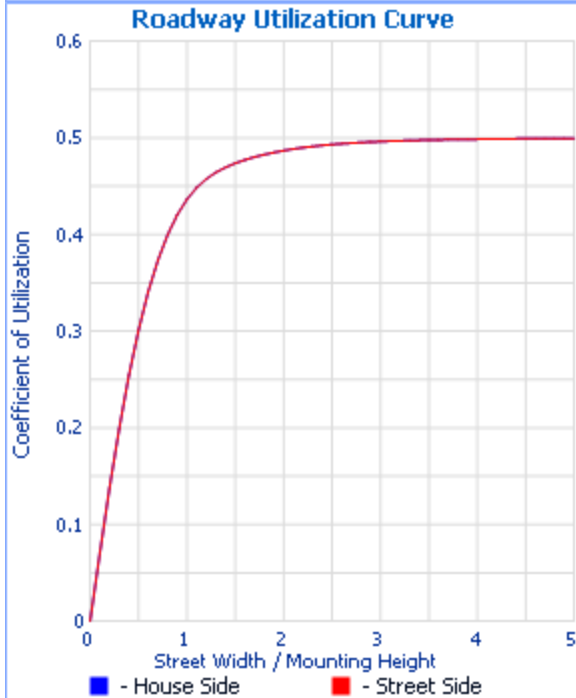
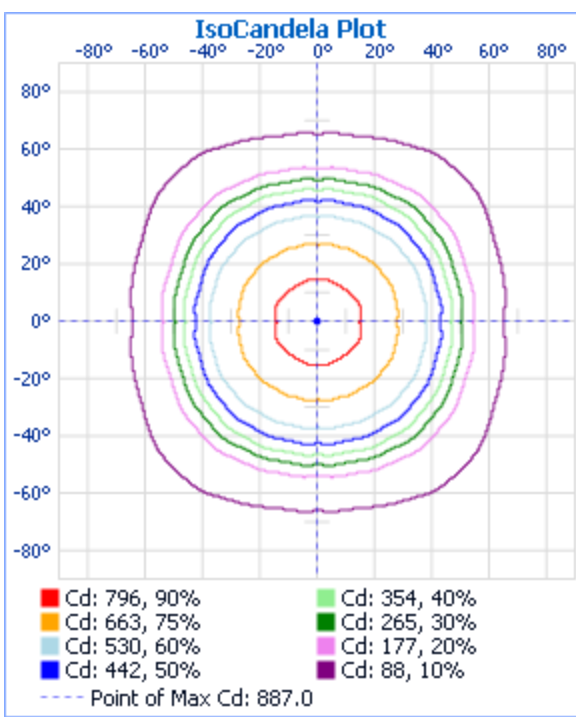
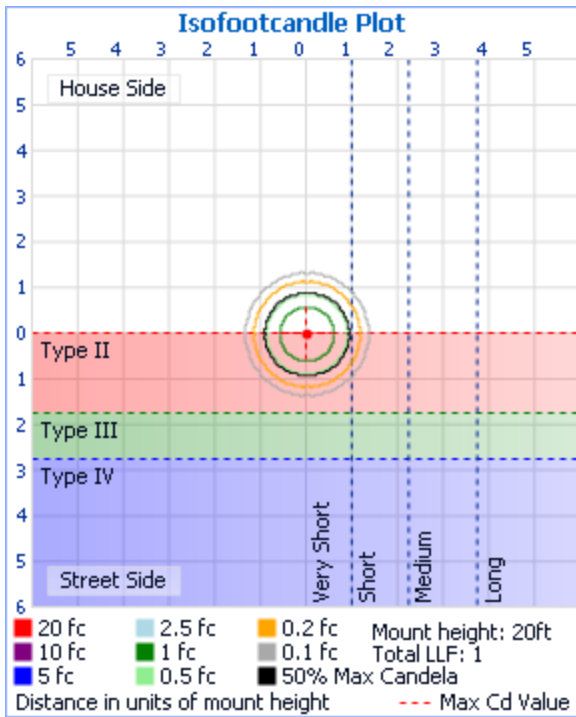
| Zone              | Lumens  | % Lamp | % Luminaire |
|-------------------|---------|--------|-------------|
| 0-30              | 625.0   | 40.1%  | 40%         |
| 0-40              | 979.1   | 62.8%  | 62.7%       |
| 0-60              | 1,428.6 | 91.6%  | 91.5%       |
| 60-90             | 133.4   | 8.6%   | 8.5%        |
| 0-90              | 1,562.0 | 100.2% | 100%        |
| 90-180            | 0       | 0%     | 0%          |
| 0-180             | 1,562.0 | 100.2% | 100%        |
| Efficiency Total: | 100.2%  |        |             |

### Flood Summary

|              | Efficiency | Lumens  | Horizontal Spread | Vertical Spread |
|--------------|------------|---------|-------------------|-----------------|
| Field (10%): | 95.4%      | 1,487.6 | 129.4             | 131.2           |
| Beam (50%):  | 68.3%      | 1,064.8 | 85.1              | 83.9            |
| Total:       | 100.2%     | 1,561.4 |                   |                 |

### Lumens Per Zone

| Zone  | Lumens | % Total | Zone    | Lumens | % Total |
|-------|--------|---------|---------|--------|---------|
| 0-10  | 81.9   | 5.2%    | 90-100  | 0      | 0%      |
| 10-20 | 224.0  | 14.3%   | 100-110 | 0      | 0%      |
| 20-30 | 319.1  | 20.4%   | 110-120 | 0      | 0%      |
| 30-40 | 354.1  | 22.7%   | 120-130 | 0      | 0%      |
| 40-50 | 297.0  | 19.0%   | 130-140 | 0      | 0%      |
| 50-60 | 152.5  | 9.8%    | 140-150 | 0      | 0%      |
| 60-70 | 90.9   | 5.8%    | 150-160 | 0      | 0%      |
| 70-80 | 34.2   | 2.2%    | 160-170 | 0      | 0%      |
| 80-90 | 8.3    | 0.5%    | 170-180 | 0      | 0%      |



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#### Candela Table - Type C

|      | 0   | 5   | 15  | 25  | 35  | 45  | 55  | 65  | 75  | 85  | 90  | 95  | 105 | 115 | 125 | 135 | 145 | 155 | 165 | 175 | 180 |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0    | 884 | 884 | 884 | 884 | 884 | 884 | 884 | 884 | 884 | 884 | 884 | 884 | 884 | 884 | 884 | 884 | 884 | 884 | 884 | 884 | 884 |
| 2.5  | 876 | 879 | 875 | 876 | 875 | 879 | 881 | 887 | 887 | 879 | 875 | 879 | 887 | 887 | 881 | 879 | 875 | 876 | 875 | 879 | 876 |
| 5    | 863 | 869 | 864 | 866 | 864 | 870 | 870 | 879 | 876 | 870 | 863 | 870 | 876 | 879 | 870 | 870 | 864 | 866 | 864 | 869 | 863 |
| 7.5  | 850 | 855 | 850 | 852 | 850 | 855 | 855 | 866 | 861 | 855 | 848 | 855 | 861 | 866 | 855 | 855 | 850 | 852 | 850 | 855 | 850 |
| 10   | 833 | 839 | 835 | 836 | 833 | 838 | 836 | 845 | 842 | 838 | 829 | 838 | 842 | 845 | 836 | 838 | 833 | 836 | 835 | 839 | 833 |
| 12.5 | 815 | 821 | 815 | 817 | 814 | 818 | 817 | 826 | 823 | 820 | 811 | 820 | 823 | 826 | 817 | 818 | 814 | 817 | 815 | 821 | 815 |
| 15   | 792 | 801 | 793 | 796 | 792 | 796 | 795 | 805 | 801 | 799 | 790 | 799 | 801 | 805 | 795 | 796 | 792 | 796 | 793 | 801 | 792 |
| 17.5 | 767 | 776 | 768 | 773 | 770 | 774 | 773 | 781 | 774 | 774 | 764 | 774 | 774 | 781 | 773 | 774 | 770 | 773 | 768 | 776 | 767 |

|      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 20   | 741 | 750 | 743 | 747 | 743 | 749 | 746 | 755 | 747 | 747 | 737 | 747 | 747 | 755 | 746 | 749 | 743 | 747 | 743 | 750 | 741 |
| 22.5 | 713 | 722 | 715 | 721 | 716 | 724 | 719 | 728 | 722 | 722 | 712 | 722 | 722 | 728 | 719 | 724 | 716 | 721 | 715 | 722 | 713 |
| 25   | 687 | 696 | 688 | 696 | 688 | 697 | 691 | 703 | 697 | 696 | 685 | 696 | 697 | 703 | 691 | 697 | 688 | 696 | 688 | 696 | 687 |
| 27.5 | 656 | 667 | 660 | 666 | 662 | 667 | 666 | 673 | 669 | 669 | 659 | 669 | 669 | 673 | 666 | 667 | 662 | 666 | 660 | 667 | 656 |
| 30   | 626 | 636 | 629 | 635 | 629 | 639 | 636 | 645 | 641 | 641 | 630 | 641 | 641 | 645 | 636 | 639 | 629 | 635 | 629 | 636 | 626 |
| 32.5 | 593 | 604 | 595 | 602 | 598 | 608 | 604 | 614 | 608 | 611 | 598 | 611 | 608 | 614 | 604 | 608 | 598 | 602 | 595 | 604 | 593 |
| 35   | 558 | 567 | 558 | 567 | 564 | 574 | 568 | 580 | 571 | 577 | 564 | 577 | 571 | 580 | 568 | 574 | 564 | 567 | 558 | 567 | 558 |
| 37.5 | 515 | 527 | 519 | 528 | 522 | 536 | 530 | 540 | 534 | 540 | 528 | 540 | 534 | 540 | 530 | 536 | 522 | 528 | 519 | 527 | 515 |
| 40   | 477 | 488 | 480 | 491 | 484 | 496 | 490 | 500 | 494 | 505 | 485 | 505 | 494 | 500 | 490 | 496 | 484 | 491 | 480 | 488 | 477 |
| 42.5 | 432 | 448 | 437 | 447 | 438 | 450 | 441 | 454 | 445 | 459 | 443 | 459 | 445 | 454 | 441 | 450 | 438 | 447 | 437 | 448 | 432 |
| 45   | 379 | 395 | 383 | 395 | 385 | 398 | 386 | 400 | 388 | 406 | 385 | 406 | 388 | 400 | 386 | 398 | 385 | 395 | 383 | 395 | 379 |
| 47.5 | 317 | 336 | 321 | 339 | 323 | 337 | 323 | 337 | 327 | 349 | 324 | 349 | 327 | 337 | 323 | 337 | 323 | 339 | 321 | 336 | 317 |
| 50   | 252 | 272 | 256 | 271 | 255 | 274 | 259 | 275 | 262 | 284 | 260 | 284 | 262 | 275 | 259 | 274 | 255 | 271 | 256 | 272 | 252 |
| 52.5 | 191 | 210 | 200 | 212 | 200 | 215 | 201 | 215 | 203 | 223 | 204 | 223 | 203 | 215 | 201 | 215 | 200 | 212 | 200 | 210 | 191 |
| 55   | 148 | 161 | 152 | 163 | 152 | 164 | 155 | 166 | 155 | 172 | 157 | 172 | 155 | 166 | 155 | 164 | 152 | 163 | 152 | 161 | 148 |
| 57.5 | 121 | 129 | 123 | 127 | 124 | 132 | 127 | 135 | 129 | 139 | 130 | 139 | 129 | 135 | 127 | 132 | 124 | 127 | 123 | 129 | 121 |
| 60   | 110 | 114 | 110 | 112 | 111 | 115 | 114 | 118 | 117 | 121 | 115 | 121 | 117 | 118 | 114 | 115 | 111 | 112 | 110 | 114 | 110 |
| 62.5 | 102 | 105 | 102 | 105 | 104 | 108 | 108 | 110 | 105 | 107 | 99  | 107 | 105 | 110 | 108 | 108 | 104 | 105 | 102 | 105 | 102 |
| 65   | 92  | 95  | 92  | 95  | 96  | 99  | 98  | 98  | 90  | 92  | 87  | 92  | 90  | 98  | 98  | 99  | 96  | 95  | 92  | 95  | 92  |
| 67.5 | 77  | 81  | 77  | 81  | 80  | 86  | 80  | 80  | 74  | 80  | 73  | 80  | 74  | 80  | 80  | 86  | 80  | 81  | 77  | 81  | 77  |
| 70   | 59  | 67  | 59  | 64  | 61  | 65  | 59  | 61  | 58  | 62  | 55  | 62  | 58  | 61  | 59  | 65  | 61  | 64  | 59  | 67  | 59  |
| 72.5 | 40  | 47  | 41  | 47  | 44  | 46  | 41  | 44  | 40  | 46  | 38  | 46  | 40  | 44  | 41  | 46  | 44  | 47  | 41  | 47  | 40  |
| 75   | 24  | 30  | 27  | 31  | 30  | 31  | 28  | 31  | 27  | 31  | 25  | 31  | 27  | 31  | 28  | 31  | 30  | 31  | 27  | 30  | 24  |
| 77.5 | 15  | 18  | 18  | 19  | 18  | 21  | 19  | 21  | 19  | 22  | 19  | 22  | 19  | 21  | 19  | 21  | 18  | 19  | 18  | 18  | 15  |
| 80   | 12  | 12  | 12  | 13  | 13  | 15  | 15  | 16  | 18  | 18  | 16  | 18  | 18  | 16  | 15  | 15  | 13  | 13  | 12  | 12  | 12  |
| 82.5 | 12  | 12  | 12  | 12  | 12  | 13  | 16  | 16  | 18  | 18  | 16  | 18  | 18  | 16  | 16  | 13  | 12  | 12  | 12  | 12  | 12  |
| 85   | 4   | 7   | 6   | 7   | 4   | 7   | 6   | 10  | 9   | 13  | 9   | 13  | 9   | 10  | 6   | 7   | 4   | 7   | 6   | 7   | 4   |
| 87.5 | 0   | 1   | 1   | 1   | 1   | 1   | 1   | 3   | 1   | 4   | 1   | 4   | 1   | 3   | 1   | 1   | 1   | 1   | 1   | 1   | 0   |
| 90   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

**Photometrics Pro - Evaluation Version**

**Luminaire Report Summary**

IESNA:LM-63-2002  
 [ISSUEDATE]02/28/10  
 [TEST]ITL64909  
 [TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
 [MANUFAC]BARE DEVELOPMENT, INC.  
 [LUMCAT]HTS-9A  
 [LUMINAIRE]FABRICATED WHITE PAINTED METAL MOUNTING PLATE, EXTRUDED  
 [MORE]FINNED METAL HEAT SINK, ONE WHITE CIRCUIT BOARD WITH 12  
 [MORE]LEDS, OPEN SIDES. CIRCUIT BOARD STOOD-OFF OF LENS 1/4".  
 [LAMP]TWELVE WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL  
 [MORE]BASE-UP POSITION.  
 [\_LEDDRIVER]MEAN WELL LPV-35-24  
 [\_NOTE]DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT  
 [MORE]VOLTAGE (120VAC, 60Hz) TO THE LED DRIVER.  
 [OTHER]TOTAL INPUT WATTS = 29.8 AT 120.0 VOLTS  
 [OTHER]TEST PROCEDURE: IESNA LM-79-08  
 [OTHER]TEST DISTANCE = 33.25 FEET  
 FILE: CANDELA MULTIPLIER: 1  
 FILE: VERTICAL ANGLES: 37, HORIZONTAL ANGLES: 21  
 FILE: COORDINATE SYSTEM: TYPE C  
 FILE: UNIT OF MEASURE: STANDARD  
 FILE: BALLAST FACTOR: 1

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Reported data calculated from manufacturer's data file, based on IES recommended methods.