

Photometrics Pro

Luminaire Photometric Report

Filename: HTS-9AAR --- ITL68919

Distributor: LED Canada Lights

Luminaire: FABRICATED WHITE PAINTED METAL MOUNTING PLATE, EXTRUDED FINNED CIRCULAR METAL HEAT SINK, ONE WHITE CIRCUIT BOARD WITH OPEN SIDES. CIRCUIT BOARD STOOD-OFF OF LENS 1/8".

Luminaire Cat: HTS-9AAR

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

Lamp Output: 1 lamp(s), rated Lumens/lamp: 1266

Max Candela: 702.6 at Horizontal: 65°, Vertical: 2.5°

Input Wattage: 15.8

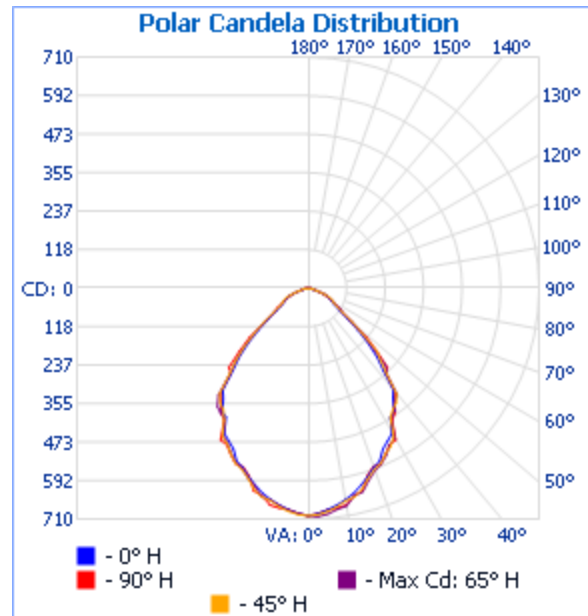
Luminous Opening: Rectangle (L: 0.3ft, W: 0.6ft)

Test: ITL98819

Test Lab: INDEPENDENT TESTING LABORATORIES, INC.

Photometry : Type C

CIE Class: Direct



Roadway Summary

| | | |
|------------------------|--------------------|--------|
| Cutoff Classification: | CUTOFF | |
| Distribution: | TYPE I, VERY SHORT | |
| Max Cd, 90 Deg Vert: | 1.6 | |
| Max Cd, 80 to <90 Deg: | 14.2 | |
| | Lumens | % Lamp |
| Downward Street Side: | 633.0 | 50% |
| Downward House Side: | 633.0 | 50% |
| Downward Total: | 1,266.0 | 100% |
| Upward Street Side: | 0 | 0% |
| Upward House Side: | 0 | 0% |
| Upward Total: | 0 | 0% |
| Total Lumens: | 1,266.0 | 100% |

Zonal Lumen Summary

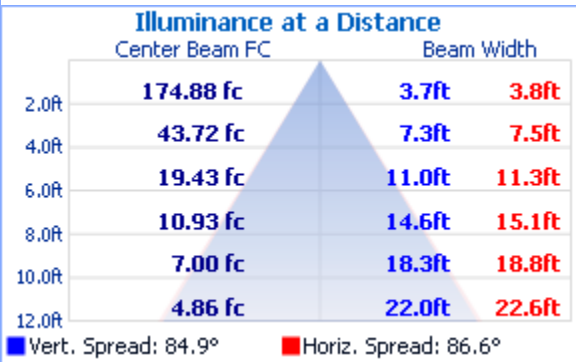
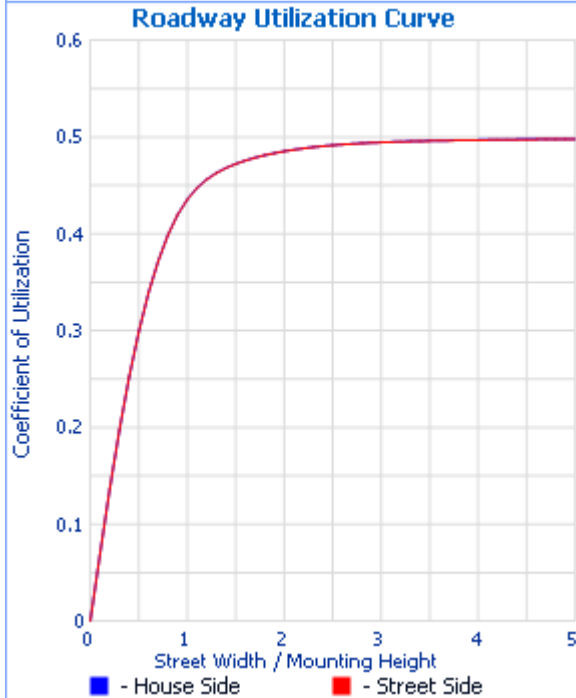
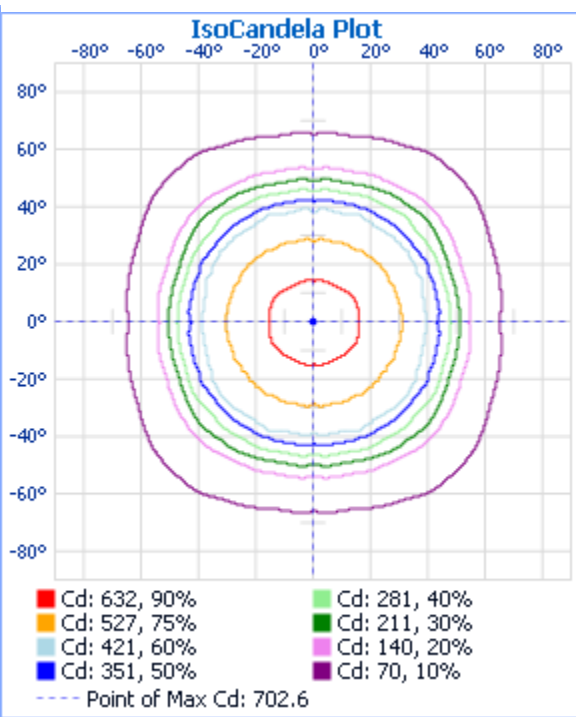
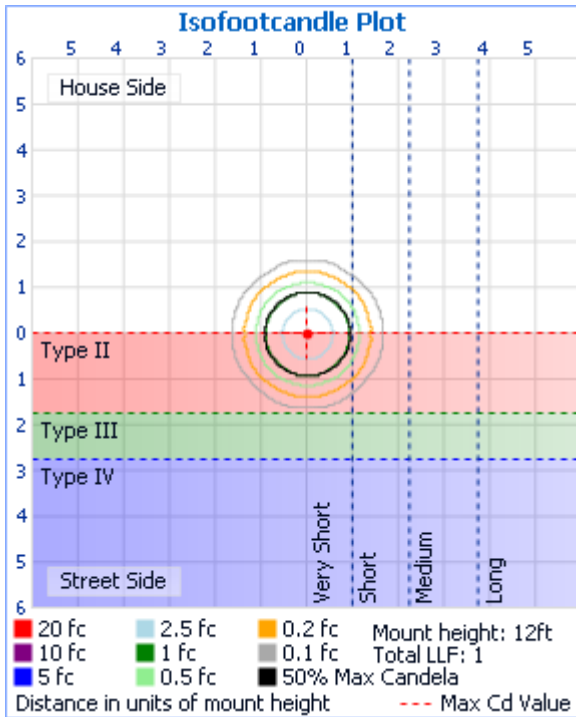
| Zone | Lumens | % Lamp | % Luminaire |
|--------|---------|--------|-------------|
| 0-30 | 501.7 | 39.6% | 39.7% |
| 0-40 | 792.6 | 62.6% | 62.6% |
| 0-60 | 1,157.7 | 91.4% | 91.5% |
| 60-90 | 107.6 | 8.5% | 8.5% |
| 0-90 | 1,265.3 | 99.9% | 100% |
| 90-180 | 0 | 0% | 0% |
| 0-180 | 1,265.3 | 99.9% | 100% |

Flood Summary

| | Efficiency | Lumens | Horizontal Spread | Vertical Spread |
|--------------|------------|---------|-------------------|-----------------|
| Field (10%): | 95.2% | 1,205.1 | 129.8 | 131.9 |
| Beam (50%): | 68.9% | 872.8 | 86.6 | 84.9 |
| Total: | 99.9% | 1,265.3 | | |

Lumens Per Zone

| Zone | Lumens | % Total | Zone | Lumens | % Total |
|-------|--------|---------|---------|--------|---------|
| 0-10 | 64.9 | 5.1% | 90-100 | 0 | 0% |
| 10-20 | 178.3 | 14.1% | 100-110 | 0 | 0% |
| 20-30 | 258.5 | 20.4% | 110-120 | 0 | 0% |
| 30-40 | 290.9 | 23.0% | 120-130 | 0 | 0% |
| 40-50 | 241.4 | 19.1% | 130-140 | 0 | 0% |
| 50-60 | 123.7 | 9.8% | 140-150 | 0 | 0% |
| 60-70 | 72.7 | 5.7% | 150-160 | 0 | 0% |
| 70-80 | 27.9 | 2.2% | 160-170 | 0 | 0% |
| 80-90 | 7.0 | 0.6% | 170-180 | 0 | 0% |



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 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 |
| 2.5 | 693 | 696 | 693 | 693 | 693 | 696 | 698 | 703 | 703 | 696 | 693 | 696 | 703 | 703 | 698 | 696 | 693 | 693 | 693 | 696 | 693 |
| 5 | 684 | 688 | 684 | 685 | 684 | 688 | 688 | 696 | 693 | 688 | 684 | 688 | 693 | 696 | 688 | 688 | 684 | 685 | 684 | 688 | 684 |
| 7.5 | 673 | 677 | 673 | 674 | 673 | 677 | 677 | 685 | 682 | 677 | 681 | 677 | 682 | 685 | 677 | 677 | 673 | 674 | 673 | 677 | 673 |
| 10 | 660 | 665 | 662 | 662 | 660 | 663 | 672 | 679 | 676 | 673 | 677 | 673 | 676 | 672 | 662 | 663 | 660 | 662 | 662 | 665 | 660 |
| 12.5 | 646 | 650 | 656 | 657 | 654 | 657 | 657 | 654 | 652 | 659 | 652 | 659 | 652 | 654 | 657 | 657 | 654 | 657 | 646 | 650 | 646 |
| 15 | 627 | 635 | 628 | 630 | 627 | 640 | 650 | 648 | 645 | 643 | 645 | 643 | 645 | 648 | 640 | 640 | 627 | 630 | 628 | 635 | 627 |
| 17.5 | 608 | 614 | 608 | 612 | 609 | 612 | 612 | 619 | 612 | 612 | 604 | 612 | 612 | 619 | 612 | 612 | 609 | 612 | 608 | 614 | 608 |
| 20 | 587 | 593 | 589 | 592 | 589 | 593 | 590 | 598 | 592 | 592 | 584 | 592 | 592 | 598 | 590 | 593 | 589 | 592 | 589 | 593 | 587 |
| 22.5 | 575 | 571 | 576 | 581 | 566 | 583 | 590 | 586 | 581 | 581 | 583 | 581 | 581 | 586 | 590 | 583 | 586 | 581 | 576 | 571 | 575 |
| 25 | 544 | 551 | 564 | 561 | 564 | 562 | 568 | 567 | 562 | 561 | 563 | 561 | 562 | 567 | 568 | 562 | 564 | 561 | 564 | 551 | 544 |
| 27.5 | 529 | 539 | 532 | 537 | 534 | 549 | 547 | 543 | 550 | 540 | 542 | 550 | 540 | 543 | 537 | 539 | 534 | 537 | 532 | 539 | 529 |

| | | | | | | | | | | | | | | | | | | | | | |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 30 | 515 | 523 | 528 | 523 | 528 | 526 | 533 | 531 | 538 | 538 | 538 | 538 | 538 | 531 | 523 | 526 | 528 | 523 | 528 | 523 | 515 |
| 32.5 | 470 | 478 | 472 | 476 | 473 | 471 | 488 | 476 | 491 | 490 | 480 | 490 | 491 | 476 | 488 | 481 | 473 | 476 | 472 | 478 | 470 |
| 35 | 462 | 469 | 462 | 469 | 466 | 454 | 469 | 459 | 473 | 477 | 466 | 477 | 473 | 459 | 469 | 454 | 466 | 469 | 462 | 469 | 462 |
| 37.5 | 428 | 438 | 432 | 458 | 433 | 444 | 439 | 437 | 432 | 437 | 438 | 437 | 432 | 437 | 459 | 444 | 433 | 458 | 432 | 438 | 428 |
| 40 | 408 | 426 | 420 | 429 | 413 | 422 | 428 | 426 | 421 | 410 | 414 | 410 | 411 | 426 | 438 | 422 | 413 | 429 | 420 | 416 | 408 |
| 42.5 | 342 | 354 | 347 | 354 | 347 | 356 | 350 | 359 | 353 | 364 | 351 | 364 | 353 | 359 | 350 | 356 | 347 | 354 | 347 | 354 | 342 |
| 45 | 301 | 313 | 304 | 313 | 305 | 315 | 305 | 336 | 337 | 341 | 345 | 341 | 337 | 336 | 305 | 315 | 305 | 313 | 304 | 313 | 301 |
| 47.5 | 252 | 266 | 255 | 269 | 256 | 287 | 256 | 267 | 260 | 287 | 286 | 287 | 260 | 287 | 256 | 267 | 256 | 269 | 255 | 266 | 252 |
| 50 | 199 | 215 | 203 | 215 | 233 | 217 | 236 | 218 | 207 | 225 | 236 | 225 | 207 | 218 | 236 | 217 | 233 | 215 | 203 | 215 | 199 |
| 52.5 | 152 | 166 | 158 | 168 | 158 | 171 | 190 | 171 | 161 | 177 | 161 | 177 | 161 | 171 | 190 | 171 | 158 | 168 | 158 | 166 | 152 |
| 55 | 117 | 128 | 120 | 130 | 120 | 130 | 123 | 131 | 123 | 136 | 125 | 136 | 123 | 131 | 123 | 130 | 120 | 130 | 120 | 128 | 117 |
| 57.5 | 96 | 103 | 110 | 111 | 98 | 104 | 101 | 118 | 113 | 111 | 113 | 111 | 113 | 118 | 111 | 104 | 98 | 101 | 110 | 103 | 96 |
| 60 | 87 | 90 | 87 | 89 | 89 | 92 | 90 | 93 | 93 | 96 | 92 | 96 | 93 | 93 | 90 | 92 | 89 | 89 | 87 | 90 | 87 |
| 62.5 | 81 | 84 | 81 | 84 | 82 | 86 | 86 | 87 | 84 | 86 | 79 | 86 | 84 | 87 | 86 | 86 | 82 | 84 | 81 | 84 | 81 |
| 65 | 73 | 76 | 73 | 76 | 76 | 79 | 78 | 78 | 71 | 73 | 70 | 73 | 71 | 78 | 78 | 79 | 76 | 76 | 73 | 76 | 73 |
| 67.5 | 62 | 65 | 62 | 65 | 63 | 68 | 63 | 63 | 59 | 63 | 59 | 63 | 59 | 63 | 63 | 68 | 63 | 65 | 62 | 65 | 62 |
| 70 | 48 | 54 | 48 | 51 | 49 | 52 | 58 | 59 | 46 | 59 | 44 | 59 | 46 | 59 | 58 | 52 | 49 | 51 | 48 | 54 | 48 |
| 72.5 | 32 | 38 | 33 | 38 | 35 | 36 | 33 | 35 | 32 | 36 | 30 | 36 | 32 | 35 | 33 | 36 | 35 | 38 | 33 | 38 | 32 |
| 75 | 19 | 24 | 22 | 25 | 24 | 25 | 22 | 25 | 22 | 25 | 21 | 25 | 22 | 25 | 22 | 25 | 24 | 25 | 22 | 24 | 19 |
| 77.5 | 13 | 14 | 14 | 16 | 14 | 17 | 16 | 17 | 16 | 17 | 16 | 17 | 16 | 17 | 16 | 17 | 14 | 16 | 14 | 14 | 13 |
| 80 | 10 | 10 | 10 | 11 | 11 | 13 | 13 | 13 | 14 | 14 | 13 | 14 | 14 | 13 | 13 | 13 | 11 | 11 | 10 | 10 | 10 |
| 82.5 | 10 | 10 | 10 | 10 | 10 | 11 | 13 | 13 | 14 | 14 | 13 | 14 | 14 | 13 | 13 | 11 | 10 | 10 | 10 | 10 | 10 |
| 85 | 3 | 6 | 5 | 6 | 3 | 6 | 5 | 8 | 8 | 11 | 8 | 11 | 8 | 8 | 5 | 6 | 3 | 6 | 5 | 6 | 3 |
| 87.5 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 0 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Luminaire Report Summary

IESNA:LM-63-2002
 [ISSUEDATE]07/12/10
 [TEST]ITL98819
 [TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
 [DISTRIBUTOR]LED CANADA LIGHTS
 [LUMCAT]HTS-9AAR
 [LUMINAIRE]FABRICATED WHITE PAINTED METAL MOUNTING PLATE, EXTRUDED
 [MORE]FINNED CIRCULAR METAL HEAT SINK, ONE WHITE CIRCUIT BOARD WITH
 [MORE]OPEN SIDES. CIRCUIT BOARD STOOD-OFF OF LENS 1/8".
 [LAMP]SIX 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 = 15.8 AT 120.0 VOLTS
 [OTHER]TEST PROCEDURE: IESNA LM-79-08
 [OTHER]TEST DISTANCE = 15.25 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

Photometrics Pro 1.3.9 copyright 2003-2009 by jSolutions, Inc.
 Reported data calculated from manufacturer's data file, based on IES recommended methods.

Marek Szeliga

Vice-President

Telephone: 1-888-749-3757

Cell: 416-990-9909

Email: mszeliga@ledcanadalights.ca

<http://ledcanadalights.ca/>