

Photometrics Pro

Luminaire Photometric Report

Filename: HTS-9AR

Distributor: LED Canada Lights

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-9AR

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: 2533.37

Max Candela: 1,428.0 at Horizontal: 0°, Vertical: 0°

Input Wattage: 30.65

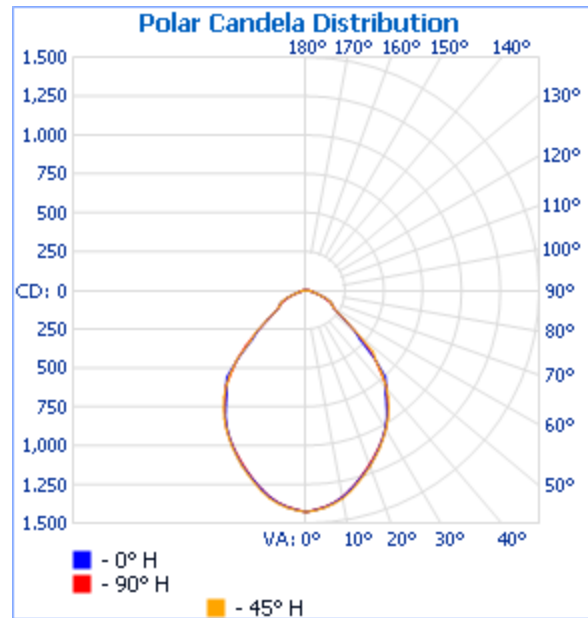
Luminous Opening: Rectangle (L: 0.18m, W: 0.18m)

Test: ITL91209

Test Lab: INDEPENDENT TESTING LABORATORIES, INC.

Photometry : Type C

CIE Class: Direct



Roadway Summary

| | | |
|------------------------|---------------|-------|
| Cutoff Classification: | FULL CUTOFF | |
| Distribution: | Type VS | |
| Max Cd, 90 Deg Vert: | 0 | |
| Max Cd, 80 to <90 Deg: | 37.0 | |
| | Lumens % Lamp | |
| Downward Street Side: | 1,269.7 | 50.1% |
| Downward House Side: | 1,263.7 | 49.9% |
| Downward Total: | 2,533.4 | 100% |
| Upward Street Side: | 0 | 0% |
| Upward House Side: | 0 | 0% |
| Upward Total: | 0 | 0% |
| Total Lumens: | 2,533.4 | 100% |

Zonal Lumen Summary

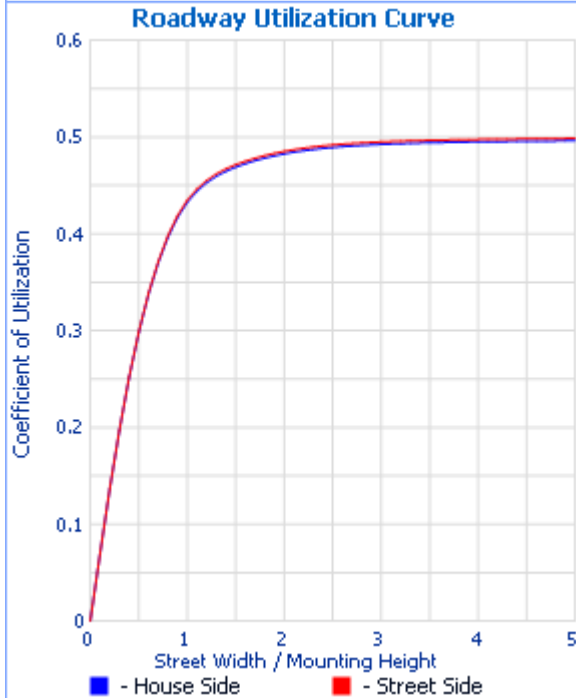
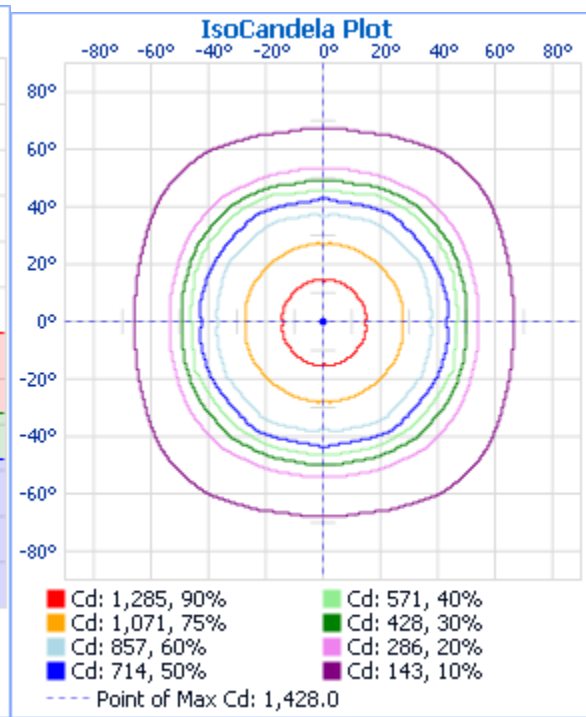
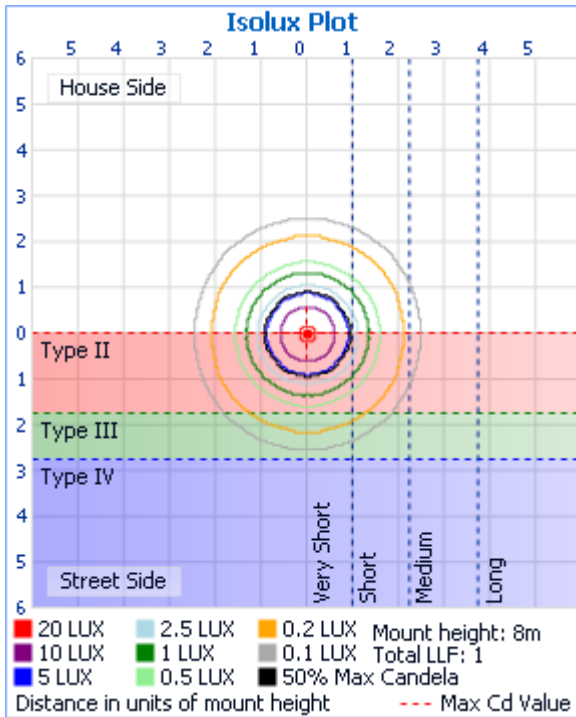
| Zone | Lumens | % Lamp | % Luminaire |
|--------|---------|--------|-------------|
| 0-30 | 1,008.2 | 39.8% | 39.8% |
| 0-40 | 1,583.5 | 62.5% | 62.5% |
| 0-60 | 2,302.1 | 90.9% | 90.9% |
| 60-90 | 229.9 | 9.1% | 9.1% |
| 0-90 | 2,531.9 | 99.9% | 100% |
| 90-180 | 0 | 0% | 0% |
| 0-180 | 2,531.9 | 99.9% | 100% |

Flood Summary

| | Efficiency | Lumens | Horizontal Spread | Vertical Spread |
|--------------|------------|---------|-------------------|-----------------|
| Field (10%): | 95.4% | 2,416.1 | 131.7 | 134.5 |
| Beam (50%): | 68.5% | 1,734.6 | 84.7 | 86.6 |
| Total: | 99.9% | 2,531.8 | | |

Lumens Per Zone

| Zone | Lumens | % Total | Zone | Lumens | % Total |
|-------|--------|---------|---------|--------|---------|
| 0-10 | 132.6 | 5.2% | 90-100 | 0 | 0% |
| 10-20 | 361.2 | 14.3% | 100-110 | 0 | 0% |
| 20-30 | 514.4 | 20.3% | 110-120 | 0 | 0% |
| 30-40 | 575.3 | 22.7% | 120-130 | 0 | 0% |
| 40-50 | 478.1 | 18.9% | 130-140 | 0 | 0% |
| 50-60 | 240.5 | 9.5% | 140-150 | 0 | 0% |
| 60-70 | 156.1 | 6.2% | 150-160 | 0 | 0% |
| 70-80 | 55.7 | 2.2% | 160-170 | 0 | 0% |
| 80-90 | 18.1 | 0.7% | 170-180 | 0 | 0% |



Illuminance at a Distance

| | Center Beam LUX | Beam Width |
|------|-------------------|--------------------|
| 1.3m | 803.25 LUX | 2.5m 2.4m |
| 2.7m | 200.81 LUX | 5.0m 4.9m |
| 4.0m | 89.25 LUX | 7.5m 7.3m |
| 5.3m | 50.20 LUX | 10.0m 9.7m |
| 6.7m | 32.13 LUX | 12.6m 12.2m |
| 8.0m | 22.31 LUX | 15.1m 14.6m |

■ Vert. Spread: 86.6° ■ Horiz. Spread: 84.7°

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 | 142 8 | 142 8 | 142 8 | 142 8 | 142 8 | 142 8 | 142 8 | 142 8 | 142 8 | 142 8 | 142 8 | 142 8 | 142 8 | 142 8 | 142 8 | 142 8 | 142 8 | 142 8 | 142 8 | 142 8 | 142 8 |
| 2.5 | 1416 | 1418 | 1422 | 1419 | 1416 | 1418 | 1416 | 1424 | 1422 | 1416 | 1413 | 1416 | 1422 | 1424 | 1416 | 1418 | 1416 | 1419 | 1422 | 1418 | 1416 |
| 5 | 1402 | 1403 | 1409 | 1405 | 1402 | 1405 | 1403 | 1412 | 1412 | 1403 | 1399 | 1403 | 1412 | 1412 | 1403 | 1405 | 1402 | 1405 | 1409 | 1403 | 1402 |
| 7.5 | 1380 | 1385 | 1389 | 1386 | 1383 | 1386 | 1382 | 1392 | 1387 | 1383 | 1379 | 1383 | 1387 | 1392 | 1382 | 1386 | 1383 | 1386 | 1389 | 1385 | 1380 |
| 10 | 1352 | 1360 | 1360 | 1362 | 1352 | 1361 | 1352 | 1364 | 1359 | 1354 | 1349 | 1354 | 1359 | 1364 | 1352 | 1361 | 1352 | 1362 | 1360 | 1360 | 1352 |
| 12.5 | 1315 | 1325 | 1324 | 1331 | 1318 | 1327 | 1318 | 1330 | 1325 | 1321 | 1313 | 1321 | 1325 | 1330 | 1318 | 1327 | 1318 | 1331 | 1324 | 1325 | 1315 |
| 15 | 1276 | 1287 | 1285 | 1292 | 1280 | 1286 | 1276 | 1293 | 1285 | 1279 | 1274 | 1279 | 1285 | 1293 | 1276 | 1286 | 1280 | 1292 | 1285 | 1287 | 1276 |
| 17.5 | 1238 | 1247 | 1244 | 1252 | 1239 | 1245 | 1237 | 1250 | 1244 | 1239 | 1232 | 1239 | 1244 | 1250 | 1237 | 1245 | 1239 | 1252 | 1244 | 1247 | 1238 |
| 20 | 1201 | 1207 | 1207 | 1208 | 1198 | 1205 | 1196 | 1207 | 1203 | 1198 | 1192 | 1198 | 1203 | 1207 | 1196 | 1205 | 1198 | 1208 | 1207 | 1207 | 1201 |
| 22.5 | 1158 | 1166 | 1163 | 1169 | 1156 | 1162 | 1152 | 1165 | 1161 | 1158 | 1151 | 1158 | 1161 | 1165 | 1152 | 1162 | 1156 | 1169 | 1163 | 1166 | 1158 |

| | | | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 5 | | | | | | | | | | | | | | | | | | | | | |
| 25 | 1115 | 1123 | 1120 | 1123 | 1110 | 1120 | 1112 | 1123 | 1119 | 1116 | 1111 | 1116 | 1119 | 1123 | 1112 | 1120 | 1110 | 1123 | 1120 | 1123 | 1115 |
| 27.5 | 1070 | 1077 | 1073 | 1077 | 1066 | 1074 | 1068 | 1078 | 1078 | 1074 | 1069 | 1074 | 1078 | 1078 | 1068 | 1074 | 1066 | 1077 | 1073 | 1077 | 1070 |
| 30 | 1021 | 1029 | 1025 | 1032 | 1019 | 1028 | 1024 | 1034 | 1033 | 1032 | 1025 | 1032 | 1033 | 1034 | 1024 | 1028 | 1019 | 1032 | 1025 | 1029 | 1021 |
| 32.5 | 967 | 976 | 974 | 980 | 968 | 980 | 972 | 984 | 984 | 983 | 973 | 983 | 984 | 984 | 972 | 980 | 968 | 980 | 974 | 976 | 967 |
| 35 | 902 | 916 | 914 | 924 | 912 | 924 | 917 | 928 | 924 | 924 | 914 | 924 | 924 | 928 | 917 | 924 | 912 | 924 | 914 | 916 | 902 |
| 37.5 | 841 | 867 | 860 | 863 | 887 | 868 | 856 | 892 | 862 | 860 | 851 | 860 | 862 | 855 | 858 | 868 | 887 | 886 | 862 | 867 | 841 |
| 40 | 799 | 787 | 797 | 848 | 788 | 798 | 834 | 800 | 797 | 799 | 803 | 799 | 797 | 850 | 784 | 798 | 838 | 798 | 797 | 837 | 799 |
| 42.5 | 756 | 714 | 709 | 723 | 767 | 716 | 707 | 720 | 760 | 764 | 708 | 764 | 760 | 720 | 707 | 716 | 767 | 723 | 709 | 714 | 756 |
| 45 | 626 | 630 | 626 | 635 | 633 | 630 | 620 | 635 | 627 | 635 | 628 | 635 | 627 | 635 | 620 | 630 | 618 | 635 | 616 | 630 | 616 |
| 47.5 | 471 | 480 | 471 | 582 | 570 | 585 | 572 | 590 | 578 | 540 | 523 | 490 | 578 | 490 | 470 | 487 | 473 | 486 | 471 | 484 | 471 |
| 50 | 408 | 429 | 410 | 422 | 408 | 424 | 407 | 425 | 413 | 424 | 410 | 424 | 413 | 425 | 407 | 424 | 408 | 422 | 410 | 429 | 408 |
| 52.5 | 314 | 327 | 319 | 320 | 310 | 325 | 313 | 328 | 319 | 328 | 311 | 328 | 319 | 328 | 313 | 325 | 310 | 320 | 316 | 327 | 313 |
| 55 | 245 | 252 | 243 | 247 | 241 | 250 | 245 | 255 | 247 | 253 | 247 | 253 | 247 | 255 | 245 | 250 | 241 | 247 | 243 | 252 | 245 |
| 57.5 | 208 | 209 | 203 | 206 | 204 | 208 | 209 | 213 | 209 | 212 | 211 | 212 | 209 | 213 | 209 | 208 | 204 | 206 | 203 | 209 | 208 |
| 60 | 195 | 196 | 190 | 189 | 190 | 195 | 195 | 199 | 198 | 198 | 196 | 198 | 198 | 199 | 195 | 195 | 190 | 189 | 190 | 196 | 195 |
| 62.5 | 186 | 187 | 180 | 181 | 181 | 186 | 186 | 189 | 181 | 180 | 177 | 180 | 181 | 189 | 186 | 186 | 181 | 181 | 180 | 187 | 186 |
| 65 | 169 | 172 | 163 | 166 | 166 | 172 | 167 | 166 | 155 | 156 | 152 | 156 | 155 | 166 | 167 | 172 | 166 | 166 | 163 | 172 | 169 |
| 67.5 | 140 | 144 | 137 | 140 | 137 | 143 | 134 | 132 | 128 | 128 | 125 | 128 | 128 | 132 | 134 | 143 | 137 | 140 | 137 | 144 | 140 |
| 70 | 106 | 113 | 103 | 107 | 101 | 106 | 95 | 98 | 95 | 97 | 96 | 97 | 95 | 98 | 95 | 106 | 101 | 107 | 103 | 113 | 106 |
| 72.5 | 71 | 79 | 73 | 76 | 69 | 71 | 64 | 69 | 66 | 69 | 66 | 69 | 66 | 69 | 64 | 71 | 69 | 76 | 73 | 79 | 71 |
| 75 | 45 | 48 | 47 | 49 | 46 | 46 | 43 | 46 | 43 | 47 | 45 | 47 | 43 | 46 | 43 | 46 | 46 | 49 | 47 | 48 | 45 |
| 77.5 | 30 | 33 | 32 | 33 | 31 | 32 | 32 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 32 | 32 | 31 | 33 | 32 | 33 | 30 |
| 80 | 26 | 26 | 26 | 26 | 26 | 26 | 27 | 26 | 27 | 26 | 28 | 26 | 27 | 26 | 27 | 26 | 26 | 26 | 26 | 26 | 26 |
| 82.5 | 32 | 32 | 32 | 30 | 30 | 31 | 33 | 35 | 36 | 35 | 37 | 35 | 36 | 35 | 33 | 31 | 30 | 30 | 32 | 32 | 32 |
| 85 | 19 | 20 | 19 | 16 | 16 | 16 | 16 | 17 | 19 | 19 | 21 | 19 | 19 | 17 | 16 | 16 | 16 | 16 | 19 | 20 | 19 |
| 87.5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Luminaire Report Summary

IESNA:LM-63-2002
 [ISSUEDATE] 08/21/10
 [TEST] ITL91209
 [TESTLAB] INDEPENDENT TESTING LABORATORIES, INC.
 [DISTRIBUTOR] LED CANADA LIGHTS
 [LUMCAT] HTS-9AR
 [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] ETG 55W DRIVER INPUT 32.50W
 [_NOTE] DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT
 [MORE] VOLTAGE (120VAC, 60Hz) TO THE LED DRIVER.

[OTHER]TOTAL INPUT WATTS = 30.65 AT 120.0 VOLTS
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[OTHER]TEST DISTANCE = 21.25 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.

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