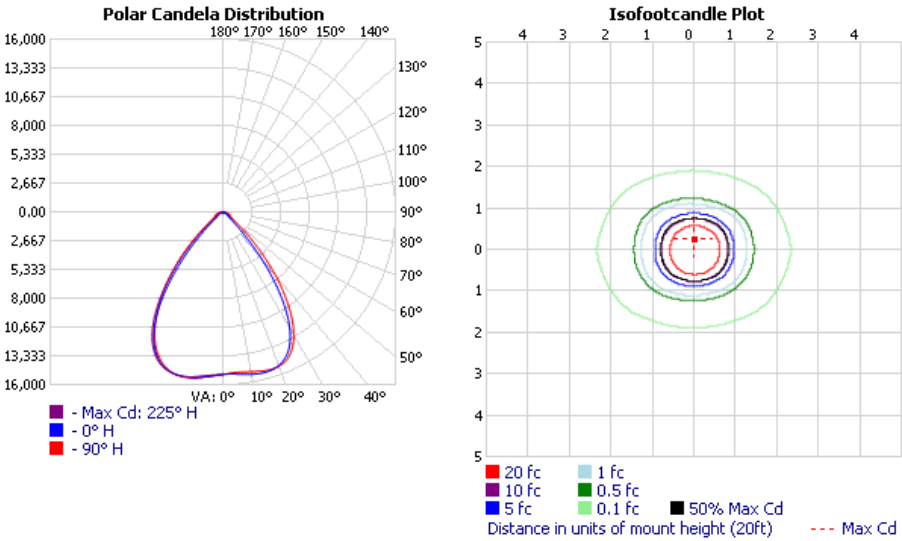


OUTDOOR PHOTOMETRIC REPORT
CATALOG: LH-16040ML

MANUFACTURER: ADVANTAGE LIGHTING SOLUTIONS
TEST LAB: DONGGUAN NEW TESTING CENTRE CO., LTD
TEST DATE: 25 OCTOBER 2018
CATALOG: LH-16040ML
DESCRIPTION: LED
LAMP OUTPUT: 1 LAMP, RATED LUMENS/LAMP: 23512
BALLAST / DRIVER: AC120-277V 50/60HZ
INPUT WATTAGE: 159.86
LUMINOUS OPENING: RECTANGLE (L: 47.24", W: 1.18")
MAX CD: 15,859.7 AT HORIZONTAL: 225°, VERTICAL: 15°
CUTOFF CLASS: CUTOFF
ROADWAY CLASS: TYPE VS
EFFICIENCY: 100%



VISUAL PHOTOMETRIC TOOL 1.2.46 COPYRIGHT 2020, ACUTY BRANDS LIGHTING.
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OUTDOOR PHOTOMETRIC REPORT
CATALOG: LH-16040ML

ZONAL LUMEN SUMMARY

| ZONE | LUMENS | % LAMP | % LUMINAIRE |
|--------|----------|--------|-------------|
| 0-30 | 12,515.1 | 53.2% | 53.2% |
| 0-40 | 18,857.0 | 80.2% | 80.2% |
| 0-60 | 22,752.1 | 96.8% | 96.8% |
| 60-90 | 739.8 | 3.1% | 3.1% |
| 70-100 | 257.8 | 1.1% | 1.1% |
| 90-120 | 1.7 | 0% | 0% |
| 0-90 | 23,492.0 | 99.9% | 99.9% |
| 90-180 | 16.3 | 0.1% | 0.1% |
| 0-180 | 23,508.3 | 100% | 100% |

ROADWAY SUMMARY

| | |
|------------------------|----------------|
| CUTOFF CLASSIFICATION: | CUTOFF |
| DISTRIBUTION: | TYPE VS |
| MAX CD, 90 DEG VERT: | 8.7 |
| MAX CD, 80 TO <90 DEG: | 251.4 |
| | LUMENS % LAMP |
| DOWNWARD STREET SIDE: | 11,543.3 49.1% |
| DOWNWARD HOUSE SIDE: | 11,952.5 50.8% |
| DOWNWARD TOTAL: | 23,495.8 99.9% |
| UPWARD STREET SIDE: | 6.5 0% |
| UPWARD HOUSE SIDE: | 9.8 0% |
| UPWARD TOTAL: | 16.3 0.1% |
| TOTAL LUMENS: | 23,512.1 100% |

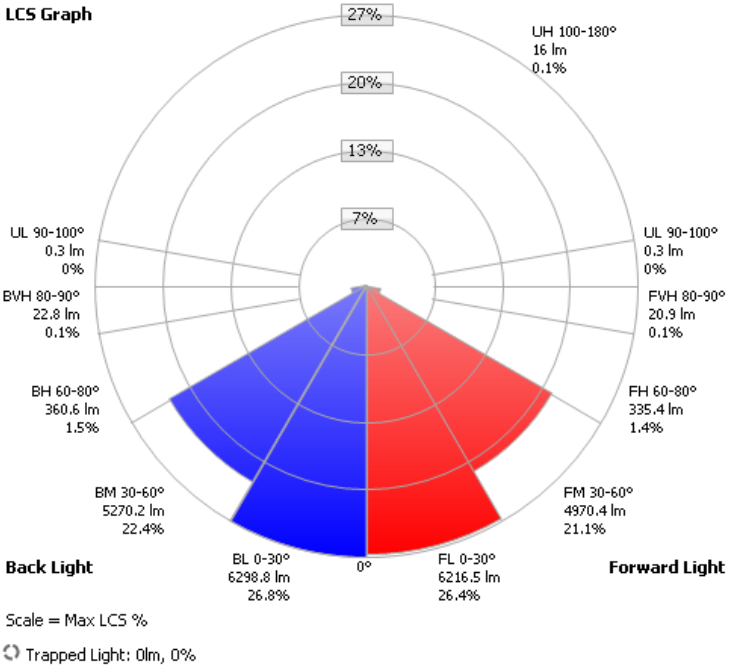
LUMENS PER ZONE

| ZONE | LUMENS | % TOTAL | ZONE | LUMENS | % TOTAL |
|-------|---------|---------|---------|--------|---------|
| 0-10 | 1,453.2 | 6.2% | 90-100 | 0.3 | 0% |
| 10-20 | 4,389.1 | 18.7% | 100-110 | 0.5 | 0% |
| 20-30 | 6,672.9 | 28.4% | 110-120 | 0.9 | 0% |
| 30-40 | 6,341.8 | 27.0% | 120-130 | 1.8 | 0% |
| 40-50 | 3,025.5 | 12.9% | 130-140 | 2.9 | 0% |
| 50-60 | 869.7 | 3.7% | 140-150 | 3.4 | 0% |
| 60-70 | 482.3 | 2.1% | 150-160 | 3.3 | 0% |
| 70-80 | 213.8 | 0.9% | 160-170 | 2.4 | 0% |
| 80-90 | 43.8 | 0.2% | 170-180 | 0.9 | 0% |

LCS TABLE

| BUG RATING | B5 - U2 - G1 | |
|-------------------|--------------|----------|
| FORWARD LIGHT | LUMENS | LUMENS % |
| LOW(0-30): | 6,216.5 | 26.4% |
| MEDIUM(30-60): | 4,970.4 | 21.1% |
| HIGH(60-80): | 335.4 | 1.4% |
| VERY HIGH(80-90): | 20.9 | 0.1% |
| BACK LIGHT | | |
| LOW(0-30): | 6,298.8 | 26.8% |
| MEDIUM(30-60): | 5,270.2 | 22.4% |
| HIGH(60-80): | 360.6 | 1.5% |
| VERY HIGH(80-90): | 22.8 | 0.1% |
| UPLIGHT | | |
| LOW(90-100): | 0.3 | 0% |
| HIGH(100-180): | 16.0 | 0.1% |
| TRAPPED LIGHT: | 0.000 | 0% |

OUTDOOR PHOTOMETRIC REPORT
CATALOG: LH-16040ML



OUTDOOR PHOTOMETRIC REPORT
CATALOG: LH-16040ML

CANDELA TABLE - TYPE C

| | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 | 285 | 300 | 315 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | 15051 | 15051 | 15051 | 15051 | 15051 | 15051 | 15051 | 15051 | 15051 | 15051 | 15051 | 15051 | 15051 | 15051 | 15051 | 15051 | 15051 | 15051 | 15051 | 15051 | 15051 | 15051 |
| 5 | 15078 | 15011 | 14944 | 14887 | 14856 | 14862 | 14902 | 14966 | 15034 | 15103 | 15169 | 15239 | 15296 | 15335 | 15351 | 15352 | 15341 | 15324 | 15299 | 15251 | 15226 | 1519 |
| 10 | 15264 | 15145 | 15066 | 15019 | 14981 | 14969 | 15024 | 15143 | 15239 | 15333 | 15401 | 15484 | 15572 | 15630 | 15674 | 15700 | 15690 | 15659 | 15615 | 15565 | 15543 | 1549 |
| 15 | 15356 | 15245 | 15219 | 15222 | 15199 | 15157 | 15205 | 15356 | 15491 | 15575 | 15589 | 15601 | 15682 | 15748 | 15833 | 15860 | 15836 | 15777 | 15718 | 15700 | 15702 | 1568 |
| 20 | 15133 | 15080 | 15157 | 15235 | 15243 | 15185 | 15203 | 15365 | 15538 | 15558 | 15484 | 15408 | 15435 | 15490 | 15587 | 15620 | 15574 | 15453 | 15366 | 15403 | 15467 | 1551 |
| 25 | 14283 | 14335 | 14523 | 14718 | 14740 | 14651 | 14642 | 14804 | 15043 | 14999 | 14823 | 14635 | 14591 | 14609 | 14728 | 14776 | 14709 | 14518 | 14385 | 14490 | 14618 | 1473 |
| 30 | 12382 | 12560 | 12908 | 13270 | 13325 | 13163 | 13135 | 13319 | 13648 | 13519 | 13227 | 12908 | 12806 | 12803 | 13027 | 13165 | 13112 | 12839 | 12634 | 12809 | 12981 | 1311 |
| 35 | 9190 | 9427 | 9962 | 10620 | 10811 | 10643 | 10617 | 10848 | 11236 | 10950 | 10454 | 9992 | 9870 | 9921 | 10372 | 10760 | 10810 | 10498 | 10231 | 10417 | 10544 | 1054 |
| 40 | 5279 | 5495 | 6132 | 7033 | 7512 | 7438 | 7439 | 7719 | 8057 | 7545 | 6848 | 6225 | 6116 | 6360 | 7063 | 7767 | 8002 | 7728 | 7429 | 7589 | 7585 | 729 |
| 45 | 2018 | 2279 | 2792 | 3660 | 4247 | 4323 | 4308 | 4574 | 4788 | 4142 | 3341 | 2663 | 2689 | 2998 | 3845 | 4676 | 5068 | 4860 | 4609 | 4756 | 4622 | 413 |
| 50 | 857 | 855 | 1037 | 1518 | 1930 | 2118 | 2101 | 2195 | 2338 | 1775 | 1218 | 1000 | 931 | 1075 | 1587 | 2264 | 2636 | 2511 | 2354 | 2493 | 2287 | 187 |
| 55 | 619 | 628 | 664 | 773 | 955 | 1029 | 1067 | 1054 | 1031 | 846 | 687 | 648 | 650 | 665 | 752 | 1016 | 1249 | 1236 | 1188 | 1180 | 1058 | 86 |
| 60 | 446 | 469 | 536 | 616 | 682 | 742 | 807 | 744 | 700 | 630 | 567 | 513 | 504 | 530 | 591 | 671 | 762 | 807 | 846 | 781 | 710 | 62 |
| 65 | 263 | 289 | 342 | 490 | 568 | 622 | 693 | 628 | 589 | 515 | 386 | 328 | 316 | 336 | 419 | 549 | 624 | 668 | 720 | 651 | 592 | 51 |
| 70 | 102 | 112 | 172 | 287 | 439 | 503 | 554 | 510 | 466 | 315 | 215 | 146 | 135 | 153 | 241 | 363 | 500 | 547 | 578 | 537 | 472 | 31 |
| 75 | 58 | 60 | 66 | 97 | 243 | 368 | 375 | 378 | 289 | 124 | 78 | 68 | 67 | 69 | 84 | 165 | 339 | 412 | 402 | 406 | 285 | 12 |
| 80 | 42 | 42 | 40 | 40 | 73 | 204 | 221 | 218 | 76 | 45 | 45 | 46 | 46 | 46 | 46 | 50 | 124 | 251 | 248 | 243 | 94 | 4 |
| 85 | 26 | 24 | 25 | 23 | 21 | 42 | 84 | 34 | 25 | 29 | 31 | 32 | 32 | 32 | 32 | 29 | 25 | 75 | 104 | 59 | 24 | 2 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | |
| 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | |
| 105 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | |
| 110 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | |
| 115 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | |
| 120 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | |
| 125 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 1 | |
| 130 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 2 | 2 | 2 | |
| 135 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 6 | 6 | 5 | 5 | 5 | 4 | 4 | 2 | 2 | 2 | |
| 140 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 6 | 6 | 5 | 5 | 3 | 3 | 3 | |
| 145 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 8 | 7 | 7 | 6 | 6 | 4 | 4 | 4 | |
| 150 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 8 | 8 | 7 | 7 | 5 | 5 | 5 | |
| 155 | 5 | 5 | 6 | 5 | 6 | 6 | 7 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 6 | 6 | 6 | |
| 160 | 6 | 6 | 6 | 6 | 7 | 7 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 7 | 7 | 7 | |
| 165 | 6 | 7 | 7 | 7 | 7 | 7 | 9 | 10 | 10 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 8 | 8 | 8 | |
| 170 | 7 | 7 | 8 | 8 | 8 | 8 | 10 | 10 | 11 | 11 | 11 | 10 | 11 | 10 | 10 | 10 | 10 | 9 | 8 | 9 | 8 | |
| 175 | 8 | 8 | 9 | 8 | 9 | 9 | 10 | 10 | 10 | 10 | 11 | 10 | 10 | 11 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | |
| 180 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 1 |