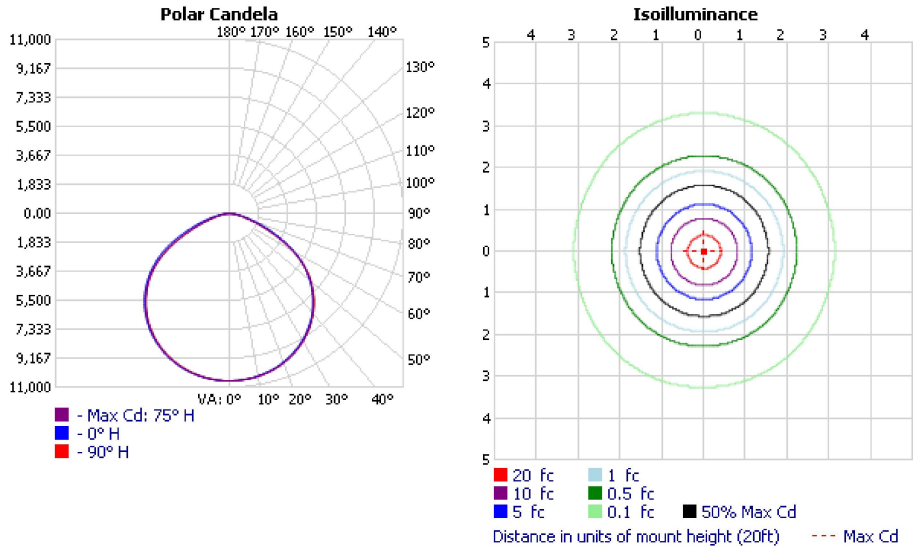


OUTDOOR PHOTOMETRIC REPORT
CATALOG: LHN-21040CL

Manufacturer: ADVANTAGE LIGHTING SOLUTIONS
Test Lab: Dongguan New Testing Centre Co., Ltd
Test Date: 01 July 2020
Catalog: LHN-21040CL
Description: LED
Lamp Output: 1 lamp, rated Lumens/lamp: 29599
Ballast / Driver: 120-277Vac 60Hz
Input Wattage: 214.358
Luminous Opening: Rectangle (L: 23.62", W: 15.75")
Max Cd: 10,603.8 at Horizontal: 75°, Vertical: 1°
CUTOFF CLASS: Cutoff
Roadway Class: Type VS
Efficiency: 100%



No
Photo
Available



Visual Photometric Tool 1.2.46 copyright 2021, Acuity Brands Lighting.
This Photometric report has been generated using methods recommended by the IESNA. Calculations are based on Photometric data provided by the manufacturer, and the accuracy of this Photometric report is dependent on the accuracy of the data provided. End-user environment and application (including, but not limited to, voltage variation and dirt accumulation) can cause actual Photometric performance to differ from the performance calculated using the data provided by the manufacturer. This report is provided without warranty as to accuracy, completeness, reliability or otherwise. In no event will Acuity Brands Lighting be responsible for any loss resulting from any use of this report.



OUTDOOR PHOTOMETRIC REPORT
 CATALOG: LHN-21040CL

Zonal Lumen Summary

| Zone | Lumens | % Lamp | % Luminaire |
|--------|----------|--------|-------------|
| 0-30 | 8,387.6 | 28.3% | 28.3% |
| 0-40 | 13,890.3 | 46.9% | 46.9% |
| 0-60 | 24,806.2 | 83.8% | 83.8% |
| 60-90 | 4,760.6 | 16.1% | 16.1% |
| 70-100 | 1,510.4 | 5.1% | 5.1% |
| 90-120 | 8.6 | 0% | 0% |
| 0-90 | 29,566.8 | 99.9% | 99.9% |
| 90-180 | 28.6 | 0.1% | 0.1% |
| 0-180 | 29,595.4 | 100% | 100% |

Roadway Summary

| | |
|------------------------|----------------|
| Cutoff Classification: | CUTOFF |
| Distribution: | Type VS |
| Max Cd, 90 Deg Vert: | 45.1 |
| Max Cd, 80 to <90 Deg: | 710.0 |
| | Lumens % Lamp |
| Downward Street Side: | 14,673.5 49.6% |
| Downward House Side: | 14,896.6 50.3% |
| Downward Total: | 29,570.2 99.9% |
| Upward Street Side: | 13.7 0% |
| Upward House Side: | 14.9 0.1% |
| Upward Total: | 28.6 0.1% |
| Total Lumens: | 29,598.7 100% |

Lumens Per Zone

| Zone | Lumens | % Total | Zone | Lumens | % Total |
|-------|---------|---------|---------|--------|---------|
| 0-10 | 1,005.1 | 3.4% | 90-100 | 2.8 | 0% |
| 10-20 | 2,905.8 | 9.8% | 100-110 | 2.7 | 0% |
| 20-30 | 4,476.6 | 15.1% | 110-120 | 3.1 | 0% |
| 30-40 | 5,502.8 | 18.6% | 120-130 | 3.8 | 0% |
| 40-50 | 5,788.7 | 19.6% | 130-140 | 4.5 | 0% |
| 50-60 | 5,127.2 | 17.3% | 140-150 | 4.4 | 0% |
| 60-70 | 3,253.0 | 11.0% | 150-160 | 3.8 | 0% |
| 70-80 | 1,265.1 | 4.3% | 160-170 | 2.6 | 0% |
| 80-90 | 242.5 | 0.8% | 170-180 | 0.9 | 0% |

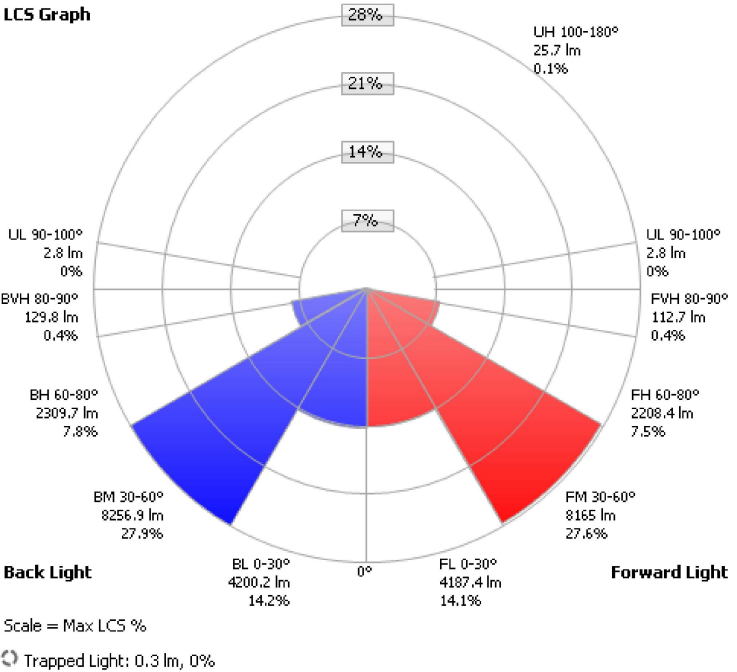
LCS Table

| BUG Rating | B4 - U2 - G2 | |
|-------------------|--------------|----------|
| Forward Light | Lumens | Lumens % |
| Low(0-30): | 4,187.4 | 14.1% |
| Medium(30-60): | 8,165.0 | 27.6% |
| High(60-80): | 2,208.4 | 7.5% |
| Very High(80-90): | 112.7 | 0.4% |
| Back Light | | |
| Low(0-30): | 4,200.2 | 14.2% |
| Medium(30-60): | 8,256.9 | 27.9% |
| High(60-80): | 2,309.7 | 7.8% |
| Very High(80-90): | 129.8 | 0.4% |
| Uplight | | |
| Low(90-100): | 2.8 | 0% |
| High(100-180): | 25.7 | 0.1% |
| Trapped Light: | 0.3 | 0% |



VISUAL PHOTOMETRIC TOOL

PAGE 2 OF 4



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 | 10598 | 10598 | 10598 | 10598 | 10598 | 10598 | 10598 | 10598 | 10598 | 10598 | 10598 | 10598 | 10598 | 10598 | 10598 | 10598 | 10598 | 10598 | 10598 | 10598 | 10598 | 10598 |
| 5 | 10555 | 10560 | 10565 | 10566 | 10559 | 10568 | 10556 | 10564 | 10567 | 10559 | 10566 | 10567 | 10576 | 10574 | 10575 | 10573 | 10574 | 10574 | 10549 | 10556 | 10559 | 1054 |
| 10 | 10450 | 10457 | 10468 | 10470 | 10461 | 10472 | 10452 | 10465 | 10469 | 10463 | 10472 | 10471 | 10477 | 10475 | 10459 | 10467 | 10464 | 10462 | 10458 | 10453 | 10448 | 1044 |
| 15 | 10267 | 10273 | 10284 | 10292 | 10294 | 10302 | 10297 | 10302 | 10305 | 10306 | 10308 | 10305 | 10307 | 10301 | 10292 | 10294 | 10291 | 10287 | 10267 | 10272 | 10272 | 1025 |
| 20 | 10005 | 10018 | 10030 | 10038 | 10046 | 10062 | 10047 | 10063 | 10056 | 10054 | 10066 | 10063 | 10067 | 10047 | 10043 | 10047 | 10038 | 10042 | 10010 | 10014 | 10014 | 999 |
| 25 | 9661 | 9683 | 9693 | 9707 | 9710 | 9736 | 9730 | 9745 | 9735 | 9731 | 9739 | 9735 | 9749 | 9724 | 9734 | 9728 | 9708 | 9713 | 9681 | 9687 | 9675 | 966 |
| 30 | 9249 | 9256 | 9278 | 9296 | 9298 | 9318 | 9320 | 9345 | 9332 | 9322 | 9335 | 9321 | 9339 | 9327 | 9321 | 9323 | 9304 | 9289 | 9268 | 9266 | 9260 | 925 |
| 35 | 8751 | 8759 | 8783 | 8797 | 8795 | 8818 | 8825 | 8835 | 8834 | 8840 | 8841 | 8829 | 8856 | 8854 | 8830 | 8824 | 8800 | 8788 | 8771 | 8750 | 8749 | 875 |
| 40 | 8156 | 8171 | 8194 | 8197 | 8191 | 8229 | 8244 | 8240 | 8248 | 8255 | 8246 | 8247 | 8271 | 8266 | 8250 | 8239 | 8192 | 8191 | 8172 | 8148 | 8151 | 814 |
| 45 | 7453 | 7477 | 7494 | 7499 | 7486 | 7526 | 7553 | 7556 | 7553 | 7565 | 7586 | 7580 | 7605 | 7585 | 7566 | 7552 | 7506 | 7487 | 7489 | 7447 | 7442 | 745 |
| 50 | 6652 | 6677 | 6695 | 6707 | 6663 | 6704 | 6749 | 6735 | 6736 | 6769 | 6800 | 6802 | 6826 | 6809 | 6775 | 6756 | 6693 | 6671 | 6679 | 6636 | 6625 | 665 |
| 55 | 5734 | 5744 | 5759 | 5758 | 5691 | 5711 | 5784 | 5755 | 5796 | 5848 | 5882 | 5895 | 5924 | 5916 | 5866 | 5828 | 5731 | 5697 | 5710 | 5646 | 5668 | 572 |
| 60 | 4619 | 4629 | 4610 | 4583 | 4477 | 4463 | 4548 | 4531 | 4637 | 4736 | 4786 | 4813 | 4848 | 4831 | 4754 | 4696 | 4538 | 4457 | 4488 | 4407 | 4479 | 459 |
| 65 | 3334 | 3330 | 3295 | 3241 | 3093 | 3045 | 3116 | 3108 | 3254 | 3412 | 3498 | 3546 | 3588 | 3552 | 3458 | 3355 | 3159 | 3048 | 3075 | 3012 | 3108 | 326 |
| 70 | 2134 | 2127 | 2084 | 2013 | 1877 | 1818 | 1860 | 1857 | 1983 | 2137 | 2240 | 2301 | 2350 | 2316 | 2228 | 2117 | 1953 | 1855 | 1855 | 1817 | 1893 | 205 |
| 75 | 1224 | 1221 | 1188 | 1126 | 1024 | 981 | 996 | 996 | 1078 | 1190 | 1284 | 1337 | 1394 | 1370 | 1304 | 1210 | 1074 | 999 | 995 | 969 | 1023 | 113 |
| 80 | 592 | 593 | 570 | 527 | 478 | 456 | 462 | 465 | 504 | 565 | 627 | 679 | 710 | 697 | 653 | 587 | 513 | 471 | 461 | 451 | 475 | 52 |
| 85 | 204 | 204 | 187 | 175 | 166 | 159 | 159 | 165 | 178 | 194 | 219 | 248 | 280 | 274 | 245 | 215 | 192 | 171 | 164 | 161 | 163 | 17 |
| 90 | 3 | 4 | 8 | 10 | 12 | 6 | 7 | 7 | 7 | 40 | 45 | 38 | 33 | 31 | 27 | 23 | 22 | 19 | 10 | 8 | 6 | |
| 95 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| 100 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | |
| 105 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| 110 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | |
| 115 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| 120 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| 125 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| 130 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| 135 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | |
| 140 | 6 | 6 | 5 | 5 | 5 | 6 | 5 | 6 | 6 | 6 | 5 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 7 | 7 | 7 | |
| 145 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| 150 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | |
| 155 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 6 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 1 |
| 160 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 1 |
| 165 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 7 | 10 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 1 |
| 170 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 11 | 10 | 11 | 10 | 11 | 10 | 1 |
| 175 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 1 |
| 180 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |