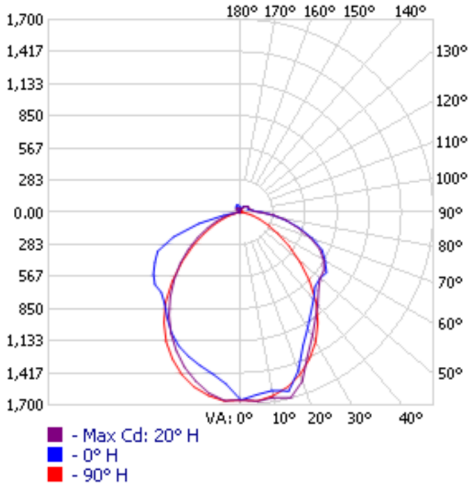
**OUTDOOR PHOTOMETRIC REPORT**
CATALOG: L-1-45LM-SA-840-1-U1-CP

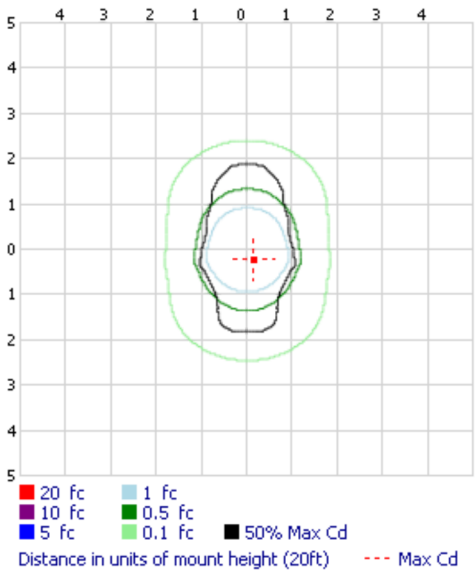
| | |
|---|---|
| Manufacturer: | LUX Dynamics |
| Test #: | L012512504 |
| Test Lab: | LIGHT LABORATORY, INC. (www.lightlaboratory.com) |
| Catalog: | L-1-45lm-SA-840-1-U1-CP |
| Description: | LED Luminaire |
| Lamp Output: | Total luminaire Lumens: 4657.4, absolute photometry * |
| Ballast / Driver: | OTi 50/120-277/1A4 DIM-1 L G2 / (1) |
| Input Wattage: | 33.56 |
| Luminous Opening: | Rectangle (L: 2.52", W: 12") |
| Max Cd: | 1,695.0 at Horizontal: 20°, Vertical: 15° |
| Roadway Class: | VERY SHORT, TYPE III |

No Photo Available

**Polar Candela**




**Isoilluminance**




*Test based on absolute photometry where lamp lumens=lumens total.
*Cutoff Classification and efficiency cannot be properly calculated for absolute photometry.

Visual Photometric Tool 1.2.46 copyright 2025, 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.

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**Zonal Lumen Summary**

| Zone | Lumens | % Luminaire |
|---|---|---|
| 0-30 | 1,244.1 | 26.7% |
| 0-40 | 1,974.6 | 42.4% |
| 0-60 | 3,355.3 | 72% |
| 60-90 | 1,026.6 | 22% |
| 70-100 | 519.8 | 11.2% |
| 90-120 | 121.2 | 2.6% |
| 0-90 | 4,381.9 | 94.1% |
| 90-180 | 275.5 | 5.9% |
| 0-180 | 4,657.4 | 100% |

**Lumens Per Zone**

| Zone | Lumens | % Total | Zone | Lumens | % Total |
|---|---|---|---|---|---|
| 0-10 | 155.7 | 3.3% | 90-100 | 42.6 | 0.9% |
| 10-20 | 442.8 | 9.5% | 100-110 | 39.7 | 0.9% |
| 20-30 | 645.5 | 13.9% | 110-120 | 38.9 | 0.8% |
| 30-40 | 730.5 | 15.7% | 120-130 | 43.4 | 0.9% |
| 40-50 | 719.7 | 15.5% | 130-140 | 42.5 | 0.9% |
| 50-60 | 661.1 | 14.2% | 140-150 | 32.9 | 0.7% |
| 60-70 | 549.4 | 11.8% | 150-160 | 21.8 | 0.5% |
| 70-80 | 346.0 | 7.4% | 160-170 | 11.0 | 0.2% |
| 80-90 | 131.2 | 2.8% | 170-180 | 2.8 | 0.1% |

**Roadway Summary**

| | | |
|---|---|---|
| Distribution: | TYPE III, VERY SHORT | |
| Max Cd, 90 Deg Vert: | | 189.0 |
| Max Cd, 80 to <90 Deg: | | 408.0 |
| | Lumens | % Lamp |
| Downward Street Side: | 2,263.5 | 48.6% |
| Downward House Side: | 2,120.4 | 45.5% |
| Downward Total: | 4,383.9 | 94.1% |
| Upward Street Side: | 181.4 | 3.9% |
| Upward House Side: | 94.1 | 2% |
| Upward Total: | 275.5 | 5.9% |
| Total Lumens: | 4,659.4 | 100% |

**LCS Table**

| **BUG Rating** | **B2 - U3 - G1** | |
|---|---|---|
| **Forward Light** | Lumens | Lumens % |
| Low(0-30): | 644.9 | 13.8% |
| Medium(30-60): | 1,058.6 | 22.7% |
| High(60-80): | 462.4 | 9.9% |
| Very High(80-90): | 97.5 | 2.1% |
| **Back Light** | | |
| Low(0-30): | 599.9 | 12.9% |
| Medium(30-60): | 1,053.6 | 22.6% |
| High(60-80): | 433.2 | 9.3% |
| Very High(80-90): | 33.8 | 0.7% |
| **Uplight** | | |
| Low(90-100): | 42.6 | 0.9% |
| High(100-180): | 232.8 | 5% |
| **Trapped Light:** | 0.000 | 0% |

**OUTDOOR PHOTOMETRIC REPORT**
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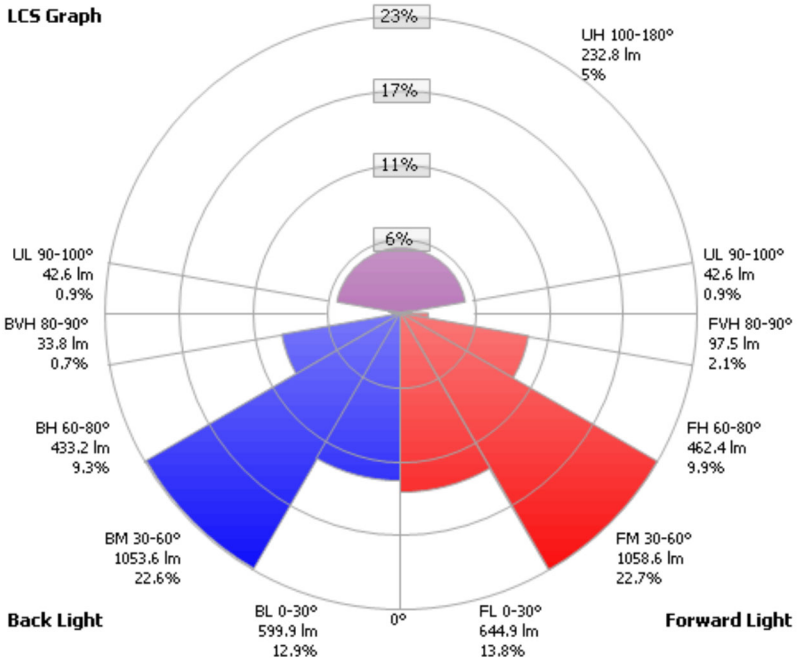
**LCS Graph**




Scale = Max LCS %

Trapped Light: 0 lm, 0%

L012512504
VISUAL PHOTOMETRIC TOOL

**OUTDOOR PHOTOMETRIC REPORT**
CATALOG: L-1-45LM-SA-840-1-U1-CP

**Candela Table - Type C**

| | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 1656 | 1656 | 1656 | 1656 | 1656 | 1656 | 1656 | 1656 | 1656 | 1656 | 1656 | 1656 | 1656 | 1656 | 1656 | 1656 | 1656 | 1656 | 1656 |
| 5 | 1615 | 1641 | 1673 | 1678 | 1682 | 1677 | 1673 | 1671 | 1670 | 1671 | 1670 | 1668 | 1662 | 1650 | 1634 | 1613 | 1593 | 1554 | 1519 |
| 10 | 1597 | 1627 | 1659 | 1666 | 1678 | 1682 | 1676 | 1661 | 1645 | 1642 | 1640 | 1620 | 1591 | 1570 | 1553 | 1537 | 1521 | 1484 | 1446 |
| 15 | 1632 | 1664 | **1695** | 1687 | 1667 | 1646 | 1639 | 1633 | 1608 | 1595 | 1586 | 1542 | 1518 | 1505 | 1493 | 1481 | 1470 | 1436 | 1399 |
| 20 | 1485 | 1528 | 1586 | 1623 | 1656 | 1644 | 1590 | 1572 | 1546 | 1525 | 1500 | 1455 | 1440 | 1434 | 1429 | 1424 | 1419 | 1389 | 1352 |
| 25 | 1298 | 1344 | 1394 | 1434 | 1506 | 1563 | 1546 | 1481 | 1459 | 1429 | 1389 | 1349 | 1344 | 1348 | 1354 | 1357 | 1358 | 1330 | 1301 |
| 30 | 1179 | 1221 | 1262 | 1277 | 1306 | 1375 | 1447 | 1388 | 1354 | 1320 | 1266 | 1236 | 1234 | 1243 | 1272 | 1286 | 1285 | 1252 | 1227 |
| 35 | 1078 | 1113 | 1148 | 1159 | 1163 | 1179 | 1273 | 1285 | 1218 | 1186 | 1127 | 1108 | 1116 | 1144 | 1177 | 1193 | 1187 | 1157 | 1136 |
| 40 | 999 | 1027 | 1056 | 1049 | 1038 | 1035 | 1061 | 1143 | 1062 | 1033 | 979 | 971 | 994 | 1042 | 1076 | 1091 | 1088 | 1063 | 1049 |
| 45 | 927 | 950 | 969 | 956 | 928 | 907 | 891 | 966 | 897 | 857 | 820 | 833 | 876 | 935 | 973 | 991 | 1001 | 998 | 996 |
| 50 | 909 | 919 | 911 | 877 | 834 | 791 | 750 | 759 | 738 | 681 | 661 | 698 | 760 | 832 | 873 | 922 | 965 | 986 | 992 |
| 55 | 924 | 928 | 894 | 830 | 757 | 690 | 621 | 577 | 576 | 519 | 508 | 565 | 643 | 730 | 801 | 875 | 917 | 942 | 944 |
| 60 | 857 | 866 | 845 | 800 | 705 | 607 | 508 | 432 | 420 | 377 | 373 | 439 | 534 | 644 | 733 | 805 | 845 | 878 | 878 |
| 65 | 794 | 796 | 768 | 720 | 647 | 540 | 410 | 318 | 283 | 263 | 263 | 323 | 433 | 557 | 649 | 724 | 767 | 807 | 812 |
| 70 | 672 | 670 | 650 | 617 | 551 | 460 | 333 | 228 | 182 | 172 | 176 | 230 | 337 | 461 | 555 | 605 | 623 | 636 | 633 |
| 75 | 534 | 534 | 522 | 493 | 438 | 355 | 251 | 153 | 111 | 104 | 110 | 152 | 246 | 345 | 403 | 401 | 391 | 390 | 387 |
| 80 | 406 | 407 | 408 | 392 | 340 | 259 | 167 | 98 | 62 | 54 | 60 | 91 | 145 | 197 | 231 | 219 | 184 | 161 | 151 |
| 85 | 288 | 290 | 292 | 288 | 246 | 174 | 103 | 53 | 28 | 21 | 25 | 34 | 51 | 68 | 63 | 48 | 37 | 32 | 30 |
| 90 | 188 | 187 | 173 | 149 | 106 | 57 | 28 | 15 | 9 | 6 | 6 | 7 | 8 | 8 | 9 | 10 | 10 | 11 | 11 |
| 95 | 124 | 126 | 113 | 93 | 63 | 34 | 19 | 13 | 9 | 7 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 |
| 100 | 101 | 103 | 104 | 105 | 95 | 70 | 44 | 25 | 14 | 8 | 10 | 7 | 8 | 8 | 8 | 9 | 10 | 10 | 10 |
| 105 | 85 | 86 | 92 | 96 | 92 | 74 | 51 | 32 | 16 | 9 | 16 | 13 | 7 | 8 | 8 | 8 | 9 | 9 | 10 |
| 110 | 76 | 77 | 83 | 86 | 84 | 73 | 57 | 35 | 15 | 9 | 21 | 29 | 12 | 7 | 7 | 8 | 8 | 8 | 9 |
| 115 | 67 | 74 | 79 | 82 | 81 | 74 | 58 | 38 | 17 | 10 | 25 | 38 | 40 | 13 | 7 | 7 | 7 | 7 | 8 |
| 120 | 70 | 74 | 80 | 84 | 82 | 73 | 57 | 39 | 20 | 11 | 29 | 46 | 52 | 48 | 21 | 7 | 7 | 7 | 7 |
| 125 | 79 | 78 | 82 | 82 | 78 | 69 | 56 | 38 | 22 | 11 | 28 | 52 | 59 | 61 | 54 | 31 | 19 | 10 | 8 |
| 130 | 79 | 76 | 78 | 77 | 71 | 63 | 52 | 39 | 23 | 12 | 28 | 52 | 64 | 63 | 65 | 63 | 51 | 39 | 37 |
| 135 | 74 | 71 | 72 | 70 | 65 | 60 | 50 | 38 | 22 | 13 | 27 | 52 | 67 | 68 | 65 | 64 | 64 | 63 | 63 |
| 140 | 67 | 65 | 66 | 64 | 60 | 54 | 48 | 35 | 24 | 15 | 26 | 50 | 63 | 71 | 68 | 66 | 63 | 62 | 63 |
| 145 | 63 | 61 | 61 | 59 | 55 | 50 | 43 | 34 | 23 | 17 | 26 | 44 | 60 | 68 | 73 | 71 | 67 | 67 | 68 |
| 150 | 59 | 57 | 56 | 54 | 51 | 46 | 40 | 32 | 22 | 20 | 25 | 41 | 54 | 63 | 69 | 73 | 72 | 73 | 73 |
| 155 | 54 | 52 | 51 | 50 | 45 | 42 | 37 | 31 | 22 | 21 | 24 | 36 | 48 | 57 | 63 | 66 | 68 | 71 | 72 |
| 160 | 48 | 46 | 45 | 44 | 43 | 39 | 34 | 29 | 24 | 24 | 25 | 33 | 42 | 49 | 55 | 59 | 62 | 63 | 66 |
| 165 | 45 | 44 | 42 | 41 | 38 | 35 | 31 | 29 | 24 | 24 | 25 | 30 | 36 | 42 | 46 | 49 | 52 | 53 | 54 |
| 170 | 37 | 36 | 35 | 35 | 32 | 31 | 29 | 25 | 24 | 24 | 24 | 28 | 31 | 34 | 37 | 39 | 41 | 43 | 44 |
| 175 | 30 | 29 | 29 | 26 | 25 | 24 | 24 | 23 | 23 | 23 | 23 | 24 | 25 | 27 | 28 | 29 | 30 | 31 | 31 |
| 180 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |