



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-5W-LED-18L-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11683
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/20
[TEST DATE] 04/06/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-5W-LED-18L-40
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

| | |
|---|-----------------------------|
| IES Classification | Type VS |
| Longitudinal Classification | Short |
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 18428 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 124 |
| Total Luminaire Watts | 148.9 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 9614 |
| Maximum Candela Angle | 45H 70V |
| Maximum Candela (<90 Degrees Vertical) | 9614 |
| Maximum Candela Angle (<90 Degrees Vertical) | 45H 70V |
| Maximum Candela At 90 Degrees Vertical | 17 (0.1% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 962 (5.2% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

| | Lumens | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30) | 562.9 | N.A. | 3.1 |
| FM - Front-Medium (30-60) | 4104.9 | N.A. | 22.3 |
| FH - Front-High (60-80) | 4451.4 | N.A. | 24.2 |
| FVH - Front-Very High (80-90) | 79.0 | N.A. | 0.4 |
| BL - Back-Low (0-30) | 562.9 | N.A. | 3.1 |
| BM - Back-Medium (30-60) | 4104.9 | N.A. | 22.3 |
| BH - Back-High (60-80) | 4451.4 | N.A. | 24.2 |
| BVH - Back-Very High (80-90) | 79.0 | N.A. | 0.4 |
| UL - Uplight-Low (90-100) | 11.5 | N.A. | 0.1 |
| UH - Uplight-High (100-180) | 20.3 | N.A. | 0.1 |
| Total | 18428.2 | N.A. | 100.0 |
| BUG Rating | B4-U2-G2 | | |

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CANDELA TABULATION

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-----------------|-------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | <u>0</u> | <u>5</u> | <u>15</u> | <u>25</u> | <u>35</u> | <u>45</u> | <u>55</u> | <u>65</u> | <u>75</u> | <u>85</u> |
| 0.0 | 914 | 914 | 914 | 914 | 914 | 914 | 914 | 914 | 914 | 914 |
| 2.5 | 910 | 912 | 911 | 912 | 915 | 913 | 910 | 905 | 901 | 906 |
| 5.0 | 862 | 856 | 858 | 877 | 872 | 867 | 865 | 859 | 844 | 855 |
| 7.5 | 858 | 844 | 844 | 845 | 839 | 834 | 857 | 876 | 896 | 875 |
| 10.0 | 858 | 854 | 852 | 825 | 850 | 859 | 888 | 893 | 918 | 918 |
| 12.5 | 965 | 945 | 934 | 906 | 917 | 907 | 923 | 959 | 961 | 970 |
| 15.0 | 1048 | 1022 | 999 | 1019 | 1026 | 1006 | 1010 | 1012 | 1048 | 1066 |
| 17.5 | 1122 | 1117 | 1090 | 1109 | 1137 | 1152 | 1119 | 1103 | 1146 | 1147 |
| 20.0 | 1229 | 1246 | 1218 | 1241 | 1260 | 1264 | 1269 | 1201 | 1238 | 1280 |
| 22.5 | 1340 | 1332 | 1368 | 1388 | 1412 | 1435 | 1441 | 1365 | 1371 | 1430 |
| 25.0 | 1469 | 1460 | 1505 | 1549 | 1591 | 1605 | 1655 | 1609 | 1510 | 1587 |
| 27.5 | 1649 | 1639 | 1702 | 1762 | 1794 | 1836 | 1855 | 1862 | 1710 | 1758 |
| 30.0 | 1793 | 1805 | 1854 | 1953 | 2028 | 2094 | 2138 | 2106 | 1941 | 1925 |
| 32.5 | 2058 | 2066 | 2092 | 2157 | 2282 | 2398 | 2444 | 2369 | 2183 | 2103 |
| 35.0 | 2254 | 2290 | 2310 | 2419 | 2548 | 2731 | 2754 | 2661 | 2452 | 2297 |
| 37.5 | 2565 | 2588 | 2559 | 2623 | 2854 | 3009 | 3059 | 2958 | 2748 | 2512 |
| 40.0 | 2750 | 2775 | 2841 | 2919 | 3141 | 3357 | 3347 | 3270 | 3013 | 2687 |
| 42.5 | 2930 | 2956 | 3009 | 3170 | 3467 | 3596 | 3639 | 3512 | 3228 | 2858 |
| 45.0 | 3114 | 3155 | 3190 | 3388 | 3691 | 3835 | 3833 | 3717 | 3438 | 3031 |
| 47.5 | 3309 | 3349 | 3415 | 3593 | 3879 | 4005 | 4021 | 3925 | 3659 | 3244 |
| 50.0 | 3527 | 3568 | 3636 | 3789 | 4053 | 4188 | 4211 | 4135 | 3890 | 3490 |
| 52.5 | 3730 | 3782 | 3851 | 4002 | 4246 | 4384 | 4402 | 4357 | 4121 | 3733 |
| 55.0 | 3968 | 4026 | 4095 | 4236 | 4441 | 4593 | 4614 | 4597 | 4386 | 3989 |
| 57.5 | 4245 | 4314 | 4403 | 4514 | 4689 | 4889 | 4891 | 4893 | 4698 | 4280 |
| 60.0 | 4568 | 4624 | 4740 | 4894 | 5102 | 5347 | 5302 | 5297 | 5095 | 4673 |
| 62.5 | 4897 | 4956 | 5079 | 5333 | 5708 | 6075 | 5951 | 5868 | 5534 | 5018 |
| 65.0 | 5151 | 5254 | 5430 | 5789 | 6428 | 7012 | 6763 | 6400 | 5928 | 5316 |
| 67.5 | 5008 | 5136 | 5505 | 6180 | 7286 | 8182 | 7645 | 6940 | 6282 | 5512 |
| 70.0 | 3872 | 3996 | 4539 | 5656 | 7824 | 9614 | 8402 | 6808 | 5410 | 4354 |
| 72.5 | 2205 | 2292 | 2838 | 3829 | 6202 | 8631 | 6922 | 4743 | 3293 | 2456 |
| 75.0 | 761 | 796 | 1027 | 1809 | 3859 | 5966 | 4280 | 2450 | 1411 | 1039 |
| 77.5 | 374 | 376 | 455 | 685 | 1466 | 2655 | 1801 | 1059 | 614 | 470 |
| 80.0 | 173 | 173 | 202 | 301 | 591 | 962 | 742 | 456 | 273 | 241 |
| 82.5 | 115 | 114 | 124 | 157 | 237 | 314 | 243 | 203 | 173 | 172 |
| 85.0 | 77 | 77 | 80 | 98 | 130 | 147 | 136 | 122 | 106 | 108 |
| 87.5 | 43 | 43 | 44 | 52 | 60 | 63 | 57 | 53 | 47 | 43 |
| 90.0 | 11 | 12 | 14 | 14 | 15 | 17 | 15 | 13 | 12 | 9 |
| 92.5 | 8 | 8 | 10 | 11 | 14 | 16 | 15 | 13 | 12 | 9 |
| 95.0 | 8 | 8 | 9 | 10 | 12 | 15 | 14 | 13 | 11 | 8 |
| 97.5 | 7 | 7 | 8 | 8 | 10 | 12 | 11 | 10 | 9 | 6 |
| 100.0 | 6 | 6 | 6 | 7 | 8 | 9 | 9 | 8 | 7 | 5 |
| 102.5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 6 | 4 |
| 105.0 | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 5 | 4 |
| 107.5 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 |
| 110.0 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 |
| 112.5 | 4 | 4 | 5 | 6 | 6 | 6 | 5 | 5 | 5 | 4 |
| 115.0 | 4 | 4 | 5 | 6 | 6 | 6 | 6 | 5 | 5 | 4 |
| 117.5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 5 | 5 | 5 |
| 120.0 | 5 | 5 | 6 | 6 | 7 | 7 | 6 | 6 | 5 | 5 |
| 122.5 | 5 | 5 | 6 | 7 | 7 | 7 | 6 | 6 | 6 | 5 |
| 125.0 | 5 | 5 | 6 | 7 | 7 | 7 | 6 | 6 | 6 | 6 |
| 127.5 | 5 | 5 | 6 | 7 | 7 | 7 | 6 | 6 | 6 | 6 |
| 130.0 | 5 | 5 | 6 | 7 | 7 | 7 | 6 | 6 | 6 | 6 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|
| 132.5 | 5 | 6 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 6 |
| 135.0 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 5 | 5 | 5 |
| 137.5 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 |
| 140.0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| 142.5 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 |
| 145.0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 147.5 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 150.0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 152.5 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155.0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 157.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 160.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 162.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 167.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170.0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 172.5 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175.0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 177.5 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 180.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Vert. Horizontal Angles

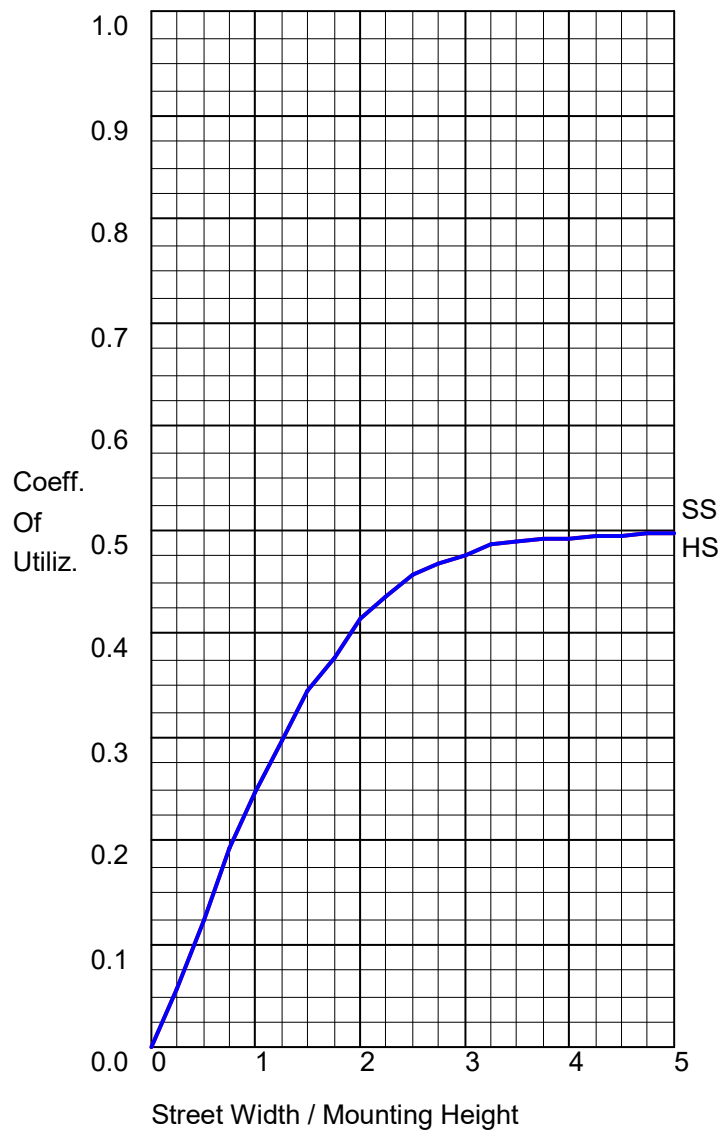
| | |
|------|-----------|
| | 90 |
| 0.0 | 914 |
| 2.5 | 915 |
| 5.0 | 861 |
| 7.5 | 883 |
| 10.0 | 915 |
| 12.5 | 991 |
| 15.0 | 1070 |
| 17.5 | 1160 |
| 20.0 | 1267 |
| 22.5 | 1407 |
| 25.0 | 1597 |
| 27.5 | 1751 |
| 30.0 | 1937 |
| 32.5 | 2107 |
| 35.0 | 2314 |
| 37.5 | 2531 |
| 40.0 | 2698 |
| 42.5 | 2864 |
| 45.0 | 3038 |
| 47.5 | 3233 |
| 50.0 | 3456 |
| 52.5 | 3658 |
| 55.0 | 3897 |
| 57.5 | 4177 |
| 60.0 | 4527 |
| 62.5 | 4834 |
| 65.0 | 5088 |
| 67.5 | 5257 |
| 70.0 | 4119 |
| 72.5 | 2270 |
| 75.0 | 995 |
| 77.5 | 454 |

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CANDELA TABULATION - (Cont.)

| | |
|-------|-----|
| 80.0 | 240 |
| 82.5 | 169 |
| 85.0 | 105 |
| 87.5 | 40 |
| 90.0 | 7 |
| 92.5 | 6 |
| 95.0 | 6 |
| 97.5 | 5 |
| 100.0 | 4 |
| 102.5 | 4 |
| 105.0 | 3 |
| 107.5 | 4 |
| 110.0 | 4 |
| 112.5 | 4 |
| 115.0 | 4 |
| 117.5 | 5 |
| 120.0 | 5 |
| 122.5 | 5 |
| 125.0 | 5 |
| 127.5 | 6 |
| 130.0 | 6 |
| 132.5 | 6 |
| 135.0 | 5 |
| 137.5 | 2 |
| 140.0 | 0 |
| 142.5 | 0 |
| 145.0 | 0 |
| 147.5 | 0 |
| 150.0 | 0 |
| 152.5 | 0 |
| 155.0 | 0 |
| 157.5 | 0 |
| 160.0 | 0 |
| 162.5 | 0 |
| 165.0 | 0 |
| 167.5 | 0 |
| 170.0 | 0 |
| 172.5 | 0 |
| 175.0 | 0 |
| 177.5 | 0 |
| 180.0 | 0 |

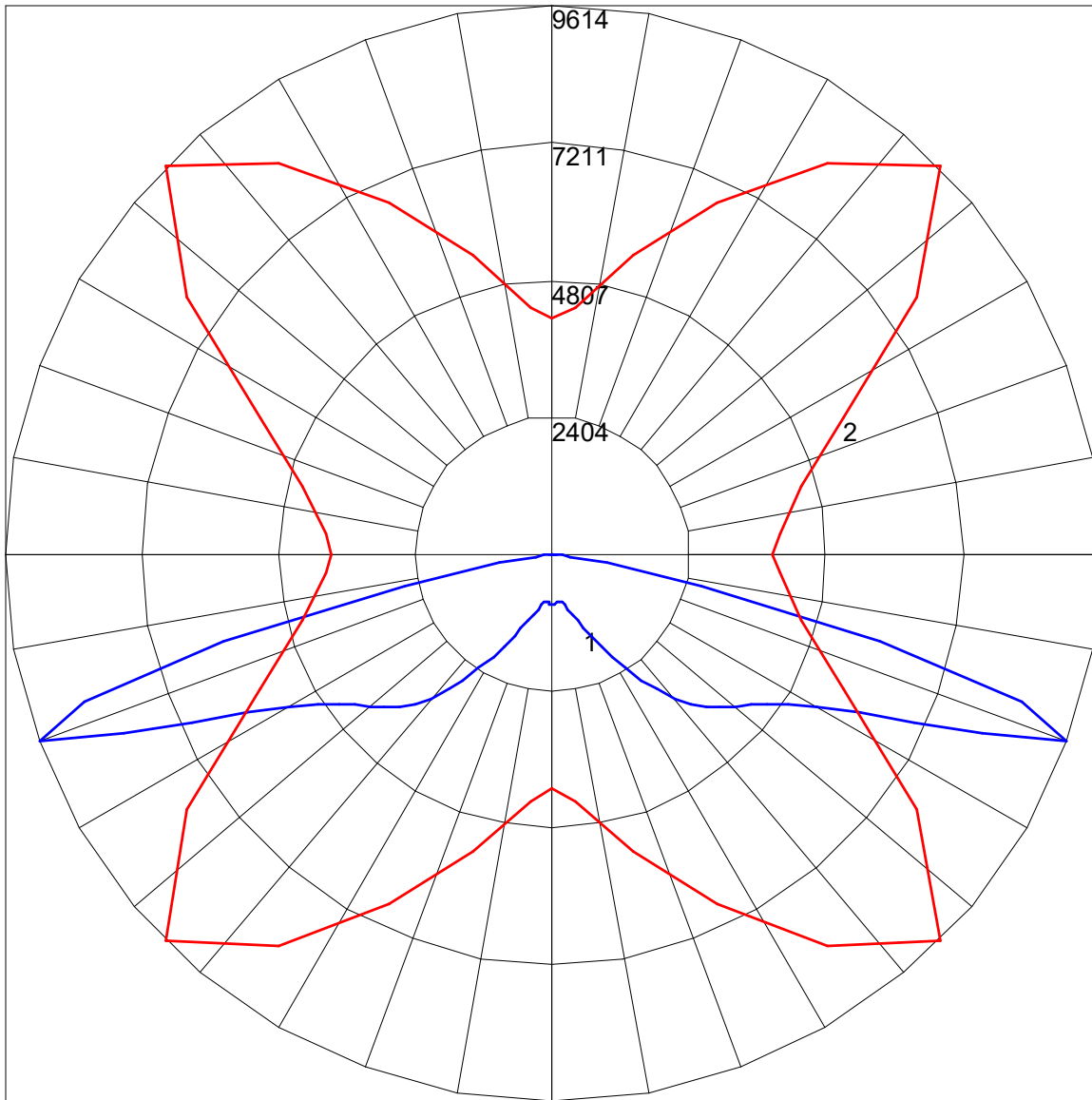
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

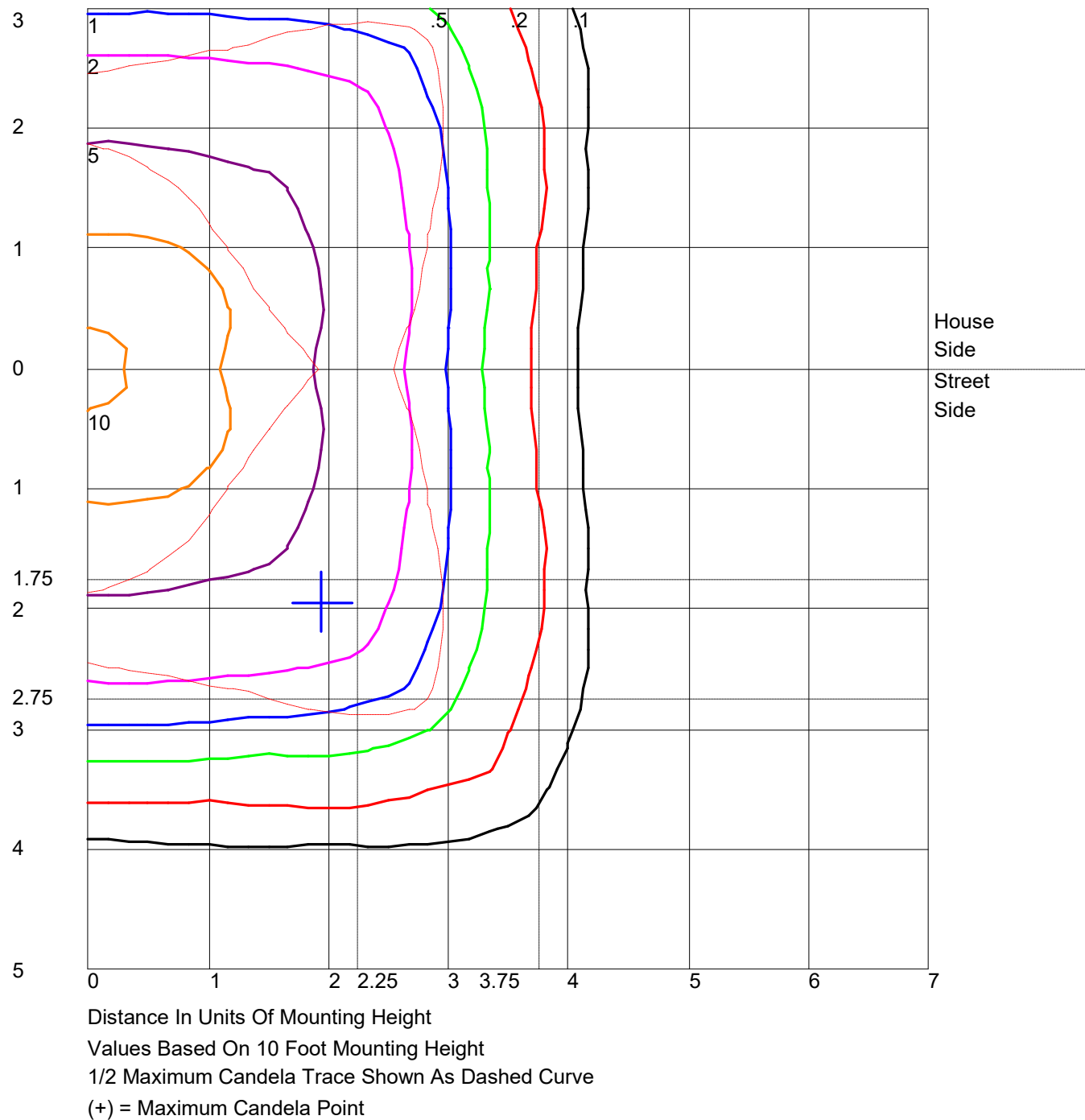
| | Lumens | Percent Of Luminaire |
|----------------------|---------|-------------------------|
| Downward Street Side | 9198.3 | 49.9 |
| Downward House Side | 9198.3 | 49.9 |
| Downward Total | 18396.6 | 99.8 |
| Upward Street Side | 15.9 | 0.1 |
| Upward House Side | 15.9 | 0.1 |
| Upward Total | 31.8 | 0.2 |
| Total Flux | 18428.4 | 100.0 |

POLAR GRAPH

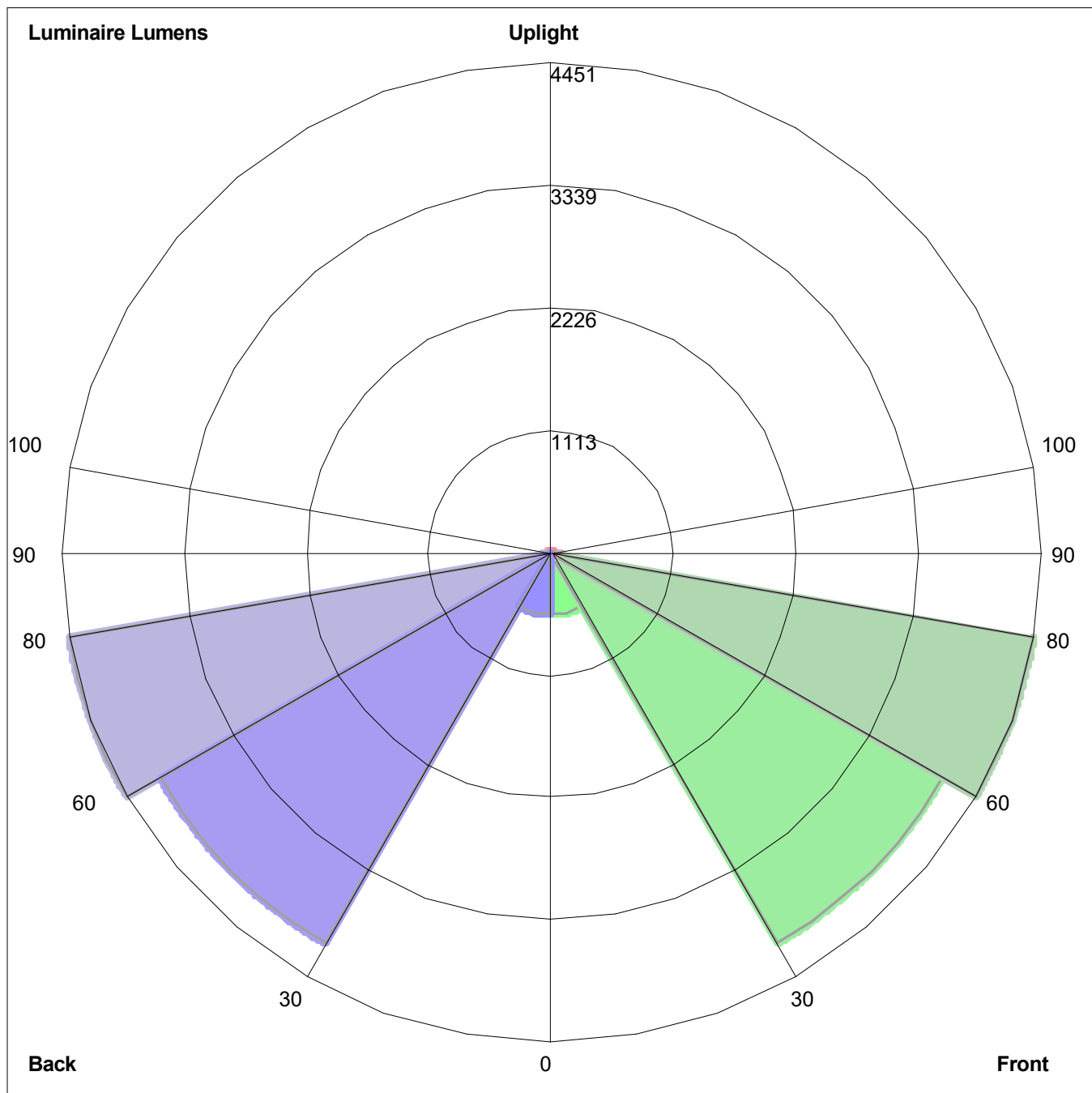


Maximum Candela = 9614 Located At Horizontal Angle = 45, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=562.9, Medium=4104.9, High=4451.4, Very High=79.0
Back: Low=562.9, Medium=4104.9, High=4451.4, Very High=79.0
Uplight: Low=11.5, High=20.3

BUG Rating : B4-U2-G2