



**Filename:** LLLRB70L62W3658L30K

**Manufacturer:** TEXAS FLUORESCENTS

**Lamp:** LED Module

**Lamp Output:** Total luminaire Lumens: 4449.4

**Max Candela:** 1,183.2 at Horizontal: 150°, Vertical: 3°

**Input Wattage:** 62

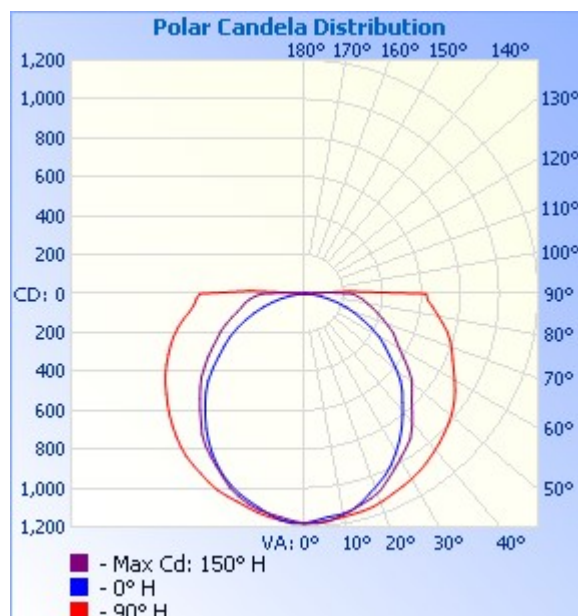
**Luminous Opening:** Rectangle w/Luminous Sides (L: 70.08", W: 4.33", H: 4.33")

**Test:** LLLRB70L62W3658L30KSA

**Test Date:** 09-Nov-2017 10:45:31

**Test Lab:** Radiant Vision Systems ProSource

**Photometry :** Type C



#### Roadway Summary

|                        |                     |
|------------------------|---------------------|
| Cutoff Classification: | N/A                 |
| Distribution:          | TYPE II, VERY SHORT |
| Max Cd, 90 Deg Vert:   | 625.2               |
| Max Cd, 80 to <90 Deg: | 692.0               |
| Lumens % Lamp          |                     |
| Downward Street Side:  | 2,172.8 48.8%       |
| Downward House Side:   | 2,164.6 48.6%       |
| Downward Total:        | 4,337.4 97.5%       |
| Upward Street Side:    | 54.2 1.2%           |
| Upward House Side:     | 58.4 1.3%           |
| Upward Total:          | 112.6 2.5%          |
| Total Lumens:          | 4,450.0 100%        |

#### Zonal Lumen Summary

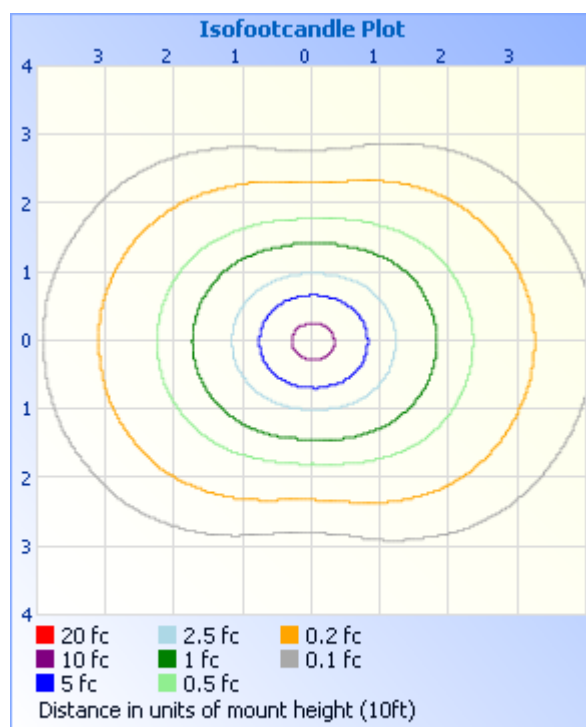
| Zone   | Lumens  | % Luminaire |
|--------|---------|-------------|
| 0-30   | 918.8   | 20.6%       |
| 0-40   | 1,520.9 | 34.2%       |
| 0-60   | 2,825.3 | 63.5%       |
| 60-90  | 1,511.5 | 34%         |
| 70-100 | 1,030.4 | 23.2%       |
| 90-120 | 112.6   | 2.5%        |
| 0-90   | 4,336.8 | 97.5%       |
| 90-180 | 112.6   | 2.5%        |
| 0-180  | 4,449.4 | 100%        |

#### Flood Summary

|              | Efficiency | Lumens  | Horizontal Spread | Vertical Spread |
|--------------|------------|---------|-------------------|-----------------|
| Field (10%): | 99.3%      | 4,418.9 | n/a               | 156.8           |
| Beam (50%):  | 77.8%      | 3,462.0 | 81.9              | 103.2           |
| Total:       | 100%       | 4,450.2 |                   |                 |

#### Lumens Per Zone

| Zone  | Lumens | % Total | Zone    | Lumens | % Total |
|-------|--------|---------|---------|--------|---------|
| 0-10  | 110.9  | 2.5%    | 90-100  | 112.5  | 2.5%    |
| 10-20 | 319.9  | 7.2%    | 100-110 | 0.1    | 0%      |
| 20-30 | 488.0  | 11.0%   | 110-120 | 0      | 0%      |
| 30-40 | 602.1  | 13.5%   | 120-130 | 0      | 0%      |
| 40-50 | 656.5  | 14.8%   | 130-140 | 0      | 0%      |
| 50-60 | 647.9  | 14.6%   | 140-150 | 0      | 0%      |
| 60-70 | 593.5  | 13.3%   | 150-160 | 0      | 0%      |
| 70-80 | 508.0  | 11.4%   | 160-170 | 0      | 0%      |
| 80-90 | 409.9  | 9.2%    | 170-180 | 0      | 0%      |



**Illuminance at a Distance**

|        | Center Beam fc | Beam Width |         |
|--------|----------------|------------|---------|
| 1.7ft  | 409 fc         | 4.3 ft     | 3.0 ft  |
| 3.3ft  | 108 fc         | 8.3 ft     | 5.7 ft  |
| 5.0ft  | 47.2 fc        | 12.6 ft    | 8.7 ft  |
| 6.7ft  | 26.3 fc        | 16.9 ft    | 11.6 ft |
| 8.3ft  | 17.1 fc        | 20.9 ft    | 14.4 ft |
| 10.0ft | 11.8 fc        | 25.2 ft    | 17.4 ft |

■ Vert. Spread: 103.2°  
 ■ Horiz. Spread: 81.9°

#### Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

| RCC %: | 80        |           |           |          | 70        |           |           |          | 50        |           |           |           | 30        |           |           |           | 10        |          |  |  | 0 |
|--------|-----------|-----------|-----------|----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|--|--|---|
| RW %:  | <u>70</u> | <u>50</u> | <u>30</u> | <u>0</u> | <u>70</u> | <u>50</u> | <u>30</u> | <u>0</u> | <u>50</u> | <u>30</u> | <u>20</u> | <u>50</u> | <u>30</u> | <u>20</u> | <u>50</u> | <u>30</u> | <u>20</u> | <u>0</u> |  |  |   |
| RCR: 0 | 1.18      | 1.18      | 1.18      | 1.18     | 1.15      | 1.15      | 1.15      | .97      | 1.10      | 1.10      | 1.10      | 1.04      | 1.04      | 1.04      | 1.00      | 1.00      | 1.00      | .97      |  |  |   |
| 1      | 1.04      | .98       | .92       | .87      | 1.01      | .95       | .90       | .75      | .90       | .86       | .82       | .86       | .82       | .79       | .82       | .79       | .76       | .74      |  |  |   |
| 2      | .94       | .83       | .75       | .68      | .90       | .81       | .74       | .60      | .77       | .71       | .65       | .73       | .68       | .63       | .70       | .65       | .61       | .59      |  |  |   |
| 3      | .85       | .72       | .63       | .55      | .82       | .70       | .62       | .50      | .67       | .59       | .53       | .64       | .57       | .52       | .61       | .55       | .51       | .48      |  |  |   |
| 4      | .77       | .63       | .54       | .46      | .74       | .62       | .53       | .42      | .59       | .51       | .45       | .56       | .49       | .44       | .54       | .48       | .43       | .40      |  |  |   |
| 5      | .71       | .56       | .46       | .39      | .68       | .55       | .46       | .36      | .53       | .44       | .38       | .50       | .43       | .37       | .48       | .42       | .37       | .34      |  |  |   |
| 6      | .65       | .51       | .41       | .34      | .63       | .49       | .40       | .32      | .47       | .39       | .33       | .45       | .38       | .32       | .43       | .37       | .32       | .30      |  |  |   |
| 7      | .60       | .46       | .36       | .30      | .58       | .45       | .36       | .28      | .43       | .35       | .29       | .41       | .34       | .29       | .40       | .33       | .28       | .26      |  |  |   |
| 8      | .56       | .42       | .32       | .26      | .54       | .41       | .32       | .25      | .39       | .31       | .26       | .38       | .31       | .25       | .36       | .30       | .25       | .23      |  |  |   |
| 9      | .52       | .38       | .29       | .24      | .51       | .37       | .29       | .22      | .36       | .28       | .23       | .35       | .28       | .23       | .33       | .27       | .23       | .21      |  |  |   |
| 10     | .49       | .35       | .27       | .21      | .47       | .34       | .26       | .20      | .33       | .26       | .21       | .32       | .25       | .21       | .31       | .25       | .20       | .19      |  |  |   |

#### Candela Table - Type C

|    | 0    | 10   | 20   | 30   | 40   | 50   | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 160  | 170  | 180  | 190  | 200  | 210  | 220  |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0  | 1181 | 1181 | 1181 | 1181 | 1181 | 1181 | 1181 | 1181 | 1181 | 1181 | 1181 | 1181 | 1181 | 1181 | 1181 | 1181 | 1181 | 1181 | 1181 | 1181 | 1181 | 1181 | 1181 |
| 3  | 1167 | 1168 | 1168 | 1170 | 1170 | 1172 | 1174 | 1176 | 1177 | 1179 | 1180 | 1181 | 1182 | 1183 | 1183 | 1183 | 1183 | 1183 | 1182 | 1182 | 1181 | 1181 | 1181 |
| 6  | 1154 | 1155 | 1157 | 1159 | 1161 | 1164 | 1167 | 1169 | 1171 | 1173 | 1175 | 1176 | 1178 | 1178 | 1178 | 1177 | 1175 | 1172 | 1171 | 1169 | 1169 | 1169 | 1169 |
| 9  | 1151 | 1151 | 1151 | 1151 | 1154 | 1158 | 1162 | 1164 | 1166 | 1167 | 1168 | 1170 | 1170 | 1169 | 1165 | 1160 | 1157 | 1151 | 1150 | 1149 | 1151 | 1151 | 1151 |
| 12 | 1142 | 1141 | 1140 | 1140 | 1146 | 1151 | 1157 | 1161 | 1162 | 1161 | 1162 | 1162 | 1161 | 1156 | 1150 | 1141 | 1134 | 1128 | 1126 | 1127 | 1132 | 1138 | 1138 |
| 15 | 1115 | 1116 | 1120 | 1123 | 1130 | 1140 | 1150 | 1159 | 1160 | 1157 | 1154 | 1152 | 1150 | 1142 | 1130 | 1123 | 1116 | 1107 | 1104 | 1105 | 1113 | 1122 | 1122 |
| 18 | 1081 | 1087 | 1093 | 1104 | 1113 | 1122 | 1135 | 1151 | 1156 | 1150 | 1145 | 1143 | 1142 | 1131 | 1114 | 1107 | 1096 | 1088 | 1082 | 1083 | 1085 | 1097 | 1097 |
| 21 | 1051 | 1056 | 1069 | 1086 | 1100 | 1107 | 1117 | 1138 | 1143 | 1137 | 1135 | 1134 | 1134 | 1115 | 1093 | 1085 | 1069 | 1059 | 1056 | 1055 | 1054 | 1064 | 1064 |
| 24 | 1021 | 1024 | 1042 | 1059 | 1083 | 1096 | 1103 | 1123 | 1128 | 1123 | 1125 | 1120 | 1111 | 1086 | 1059 | 1049 | 1032 | 1022 | 1025 | 1023 | 1018 | 1022 | 1022 |
| 27 | 983  | 991  | 1005 | 1023 | 1050 | 1075 | 1088 | 1108 | 1117 | 1112 | 1114 | 1103 | 1087 | 1060 | 1030 | 1015 | 990  | 986  | 989  | 986  | 979  | 989  | 989  |
| 30 | 940  | 952  | 962  | 980  | 1005 | 1041 | 1066 | 1090 | 1105 | 1101 | 1099 | 1090 | 1071 | 1042 | 1008 | 982  | 949  | 948  | 949  | 941  | 944  | 961  | 961  |

|     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|
| 33  | 896 | 911 | 917 | 946 | 978 | 1015 | 1045 | 1071 | 1084 | 1087 | 1080 | 1075 | 1049 | 1016 | 985 | 953 | 905 | 903 | 906 | 891 | 907 | 931 |
| 36  | 850 | 867 | 876 | 919 | 958 | 989  | 1027 | 1056 | 1059 | 1070 | 1059 | 1055 | 1018 | 976  | 955 | 924 | 864 | 851 | 860 | 839 | 866 | 900 |
| 39  | 800 | 817 | 841 | 877 | 923 | 958  | 1007 | 1039 | 1042 | 1052 | 1043 | 1030 | 988  | 942  | 914 | 877 | 833 | 799 | 812 | 793 | 828 | 855 |
| 42  | 752 | 764 | 799 | 831 | 886 | 924  | 983  | 1011 | 1025 | 1034 | 1028 | 1003 | 969  | 923  | 877 | 826 | 798 | 750 | 764 | 748 | 780 | 806 |
| 45  | 710 | 713 | 752 | 788 | 854 | 895  | 953  | 983  | 1001 | 1016 | 1010 | 980  | 946  | 904  | 847 | 778 | 751 | 705 | 718 | 701 | 729 | 757 |
| 48  | 662 | 666 | 705 | 750 | 824 | 867  | 921  | 961  | 975  | 997  | 988  | 956  | 915  | 869  | 815 | 743 | 699 | 660 | 667 | 655 | 682 | 719 |
| 51  | 601 | 623 | 655 | 712 | 785 | 835  | 892  | 936  | 954  | 975  | 962  | 928  | 890  | 829  | 772 | 711 | 638 | 616 | 606 | 611 | 625 | 685 |
| 54  | 539 | 571 | 617 | 667 | 740 | 800  | 864  | 912  | 931  | 951  | 932  | 903  | 868  | 800  | 721 | 660 | 594 | 569 | 544 | 561 | 578 | 638 |
| 57  | 490 | 516 | 572 | 624 | 707 | 765  | 835  | 886  | 910  | 922  | 907  | 877  | 840  | 767  | 687 | 608 | 549 | 521 | 492 | 509 | 531 | 588 |
| 60  | 443 | 464 | 515 | 578 | 669 | 735  | 800  | 855  | 887  | 890  | 885  | 844  | 806  | 730  | 655 | 562 | 506 | 469 | 444 | 456 | 490 | 538 |
| 63  | 384 | 411 | 467 | 538 | 625 | 707  | 770  | 824  | 857  | 860  | 859  | 814  | 773  | 695  | 612 | 528 | 471 | 414 | 388 | 405 | 454 | 500 |
| 66  | 324 | 356 | 419 | 506 | 590 | 676  | 743  | 794  | 825  | 833  | 828  | 788  | 740  | 664  | 576 | 500 | 423 | 357 | 331 | 351 | 405 | 472 |
| 69  | 274 | 302 | 380 | 465 | 558 | 643  | 714  | 762  | 795  | 811  | 798  | 765  | 705  | 631  | 546 | 460 | 376 | 305 | 277 | 298 | 361 | 424 |
| 72  | 227 | 261 | 339 | 424 | 527 | 609  | 681  | 733  | 772  | 788  | 773  | 737  | 672  | 598  | 520 | 423 | 335 | 259 | 225 | 247 | 318 | 389 |
| 75  | 175 | 217 | 299 | 389 | 487 | 579  | 647  | 706  | 746  | 759  | 747  | 703  | 637  | 573  | 486 | 389 | 297 | 212 | 173 | 203 | 274 | 355 |
| 78  | 122 | 171 | 265 | 361 | 457 | 545  | 615  | 675  | 716  | 725  | 717  | 666  | 604  | 544  | 457 | 359 | 261 | 167 | 123 | 164 | 238 | 326 |
| 81  | 84  | 133 | 237 | 338 | 434 | 516  | 591  | 653  | 689  | 692  | 685  | 634  | 576  | 506  | 421 | 327 | 225 | 124 | 77  | 124 | 212 | 292 |
| 84  | 47  | 105 | 205 | 312 | 405 | 485  | 569  | 629  | 656  | 663  | 649  | 610  | 554  | 475  | 392 | 305 | 194 | 101 | 44  | 95  | 183 | 265 |
| 87  | 20  | 78  | 181 | 285 | 386 | 462  | 547  | 589  | 614  | 633  | 623  | 572  | 532  | 452  | 373 | 274 | 172 | 77  | 19  | 72  | 161 | 245 |
| 90  | 4   | 58  | 161 | 260 | 335 | 431  | 493  | 558  | 588  | 625  | 601  | 557  | 509  | 424  | 350 | 250 | 157 | 60  | 5   | 56  | 139 | 221 |
| 93  | 1   | 20  | 63  | 105 | 126 | 165  | 188  | 240  | 210  | 230  | 218  | 266  | 219  | 198  | 151 | 128 | 84  | 25  | 1   | 25  | 80  | 136 |
| 96  | 0   | 1   | 5   | 5   | 9   | 9    | 15   | 25   | 20   | 13   | 27   | 28   | 23   | 21   | 18  | 14  | 12  | 4   | 0   | 4   | 12  | 17  |
| 99  | 0   | 0   | 2   | 2   | 2   | 2    | 2    | 2    | 3    | 1    | 5    | 2    | 1    | 0    | 0   | 0   | 0   | 1   | 0   | 1   | 0   | 0   |
| 102 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 105 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 108 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 111 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 114 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 117 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 120 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 123 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 126 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 129 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 132 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 135 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 138 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 141 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 144 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 147 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 150 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 153 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 156 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 159 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 162 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 165 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 168 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 171 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 174 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 177 | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

## Luminaire Report Summary

```
FILE: CREATED USING ABSOLUTE PHOTOMETRY
FILE: CANDELA MULTIPLIER: 1.823767
FILE: VERTICAL ANGLES: 61, HORIZONTAL ANGLES: 37
FILE: COORDINATE SYSTEM: TYPE C
FILE: UNIT OF MEASURE: METRIC
FILE: BALLAST FACTOR: 1
```

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Reported data calculated from manufacturer's data file, based on IES recommended methods.