



**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : PFL-LED-16L-PC-WF-50-80.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LED-12453  
 [TESTLAB] LSI INDUSTRIES, INC.  
 [ISSUEDATE] 03/05/21  
 [TESTDATE] 01/21/21  
 [MANUFAC] LSI INDUSTRIES, INC.  
 [LUMCAT] PFL-LED-16L-PC-WF-50-80  
 [OTHER] TEST PROCEDURE: IESNA LM-79-08  
 [ ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
 [OTHER] SCALED FROM ORIGINAL TEST DATA  
 [ SEARCH\_SOURCETYPE] LED  
 [ SEARCH\_APPLICATION] Outdoor  
 [ SEARCH\_COLORTEMP] 4000

Note: Candela values converted from Type-C to Type-B

**CHARACTERISTICS**

|                              |                 |
|------------------------------|-----------------|
| NEMA Type                    | 5 H x 5 V       |
| Maximum Candela              | 13163           |
| Maximum Candela Angle        | -3H 0V          |
| Horizontal Beam Angle (50%)  | 71.5            |
| Vertical Beam Angle (50%)    | 70.9            |
| Horizontal Field Angle (10%) | 90.2            |
| Vertical Field Angle (10%)   | 89.5            |
| Lumens Per Lamp              | N.A. (absolute) |
| Total Lamp Lumens            | N.A. (absolute) |
| Beam Lumens                  | 12788           |
| Beam Efficiency              | N.A.            |
| Field Lumens                 | 14874           |
| Field Efficiency             | N.A.            |
| Spill Lumens                 | 1280            |
| Luminaire Lumens             | 16155           |
| Total Efficiency             | N.A.            |
| Total Luminaire Watts        | 142             |
| Ballast Factor               | 1.00            |



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**AXIAL CANDELA**

| DEG.  | HOR.  | DEG.  | VERT. |
|-------|-------|-------|-------|
| 90    | 0     | 90    | 0     |
| 85    | 46    | 85    | 52    |
| 75    | 138   | 75    | 145   |
| 65    | 269   | 65    | 279   |
| 55    | 427   | 55    | 415   |
| 47.5  | 722   | 47.5  | 691   |
| 42.5  | 1951  | 42.5  | 1843  |
| 37.5  | 5409  | 37.5  | 5290  |
| 33    | 8458  | 33    | 8300  |
| 29    | 10222 | 29    | 10051 |
| 25.5  | 11181 | 25.5  | 11047 |
| 22.5  | 11765 | 22.5  | 11644 |
| 19.5  | 12197 | 19.5  | 12067 |
| 17    | 12484 | 17    | 12341 |
| 15    | 12671 | 15    | 12515 |
| 13    | 12814 | 13    | 12658 |
| 11    | 12932 | 11    | 12770 |
| 9     | 13026 | 9     | 12856 |
| 7     | 13097 | 7     | 12920 |
| 5     | 13145 | 5     | 12962 |
| 3     | 13163 | 3     | 12976 |
| 1     | 13093 | 1     | 13018 |
| 0     | 13044 | 0     | 13044 |
| -1    | 13093 | -1    | 13018 |
| -3    | 13163 | -3    | 12976 |
| -5    | 13145 | -5    | 12962 |
| -7    | 13097 | -7    | 12920 |
| -9    | 13026 | -9    | 12856 |
| -11   | 12932 | -11   | 12770 |
| -13   | 12814 | -13   | 12658 |
| -15   | 12671 | -15   | 12515 |
| -17   | 12484 | -17   | 12341 |
| -19.5 | 12197 | -19.5 | 12067 |
| -22.5 | 11765 | -22.5 | 11644 |
| -25.5 | 11181 | -25.5 | 11047 |
| -29   | 10222 | -29   | 10051 |
| -33   | 8458  | -33   | 8300  |
| -37.5 | 5409  | -37.5 | 5290  |
| -42.5 | 1951  | -42.5 | 1843  |
| -47.5 | 722   | -47.5 | 691   |
| -55   | 427   | -55   | 415   |
| -65   | 269   | -65   | 279   |
| -75   | 138   | -75   | 145   |
| -85   | 46    | -85   | 52    |
| -90   | 0     | -90   | 0     |

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**CANDELA TABULATION**

Maximum Candela = 13163

Beam Edge = 6581.5 Cd (50% of Max.)

Field Edge = 1316.3 Cd (10% of Max.)

\* Indicates Values Inside Field Edge

| <b>Vert.<br/>Angles</b> | <b>Horizontal Angles</b> |              |              |              |              |              |              |              |              |              |
|-------------------------|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                         | <b>-90.0</b>             | <b>-85.0</b> | <b>-75.0</b> | <b>-65.0</b> | <b>-55.0</b> | <b>-47.5</b> | <b>-42.5</b> | <b>-37.5</b> | <b>-33.0</b> | <b>-29.0</b> |
| <b>90.0</b>             | 0                        | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            |
| <b>85.0</b>             | 0                        | 4            | 14           | 23           | 31           | 35           | 37           | 40           | 42           | 45           |
| <b>75.0</b>             | 0                        | 13           | 41           | 67           | 91           | 102          | 109          | 120          | 131          | 138          |
| <b>65.0</b>             | 0                        | 21           | 63           | 108          | 146          | 172          | 190          | 206          | 220          | 231          |
| <b>55.0</b>             | 0                        | 28           | 83           | 142          | 199          | 242          | 270          | 296          | 317          | 333          |
| <b>47.5</b>             | 0                        | 32           | 96           | 166          | 241          | 295          | 330          | 368          | 398          | 432          |
| <b>42.5</b>             | 0                        | 35           | 105          | 181          | 269          | 329          | 371          | 423          | 486          | 557          |
| <b>37.5</b>             | 0                        | 37           | 112          | 196          | 295          | 365          | 422          | 514          | 654          | 900          |
| <b>33.0</b>             | 0                        | 39           | 118          | 209          | 316          | 398          | 486          | 654          | 1012         | 1771 *       |
| <b>29.0</b>             | 0                        | 41           | 122          | 219          | 334          | 434          | 558          | 908          | 1815 *       | 3479 *       |
| <b>25.5</b>             | 0                        | 42           | 126          | 228          | 349          | 467          | 653          | 1322 *       | 3008 *       | 5128 *       |
| <b>22.5</b>             | 0                        | 43           | 129          | 235          | 361          | 505          | 767          | 1831 *       | 4132 *       | 6451 *       |
| <b>19.5</b>             | 0                        | 44           | 131          | 242          | 374          | 540          | 929          | 2535 *       | 5260 *       | 7579 *       |
| <b>17.0</b>             | 0                        | 44           | 133          | 247          | 385          | 574          | 1051         | 3118 *       | 6073 *       | 8313 *       |
| <b>15.0</b>             | 0                        | 45           | 134          | 251          | 393          | 606          | 1222         | 3533 *       | 6648 *       | 8822 *       |
| <b>13.0</b>             | 0                        | 45           | 136          | 254          | 401          | 635          | 1400 *       | 4001 *       | 7162 *       | 9179 *       |
| <b>11.0</b>             | 0                        | 46           | 136          | 257          | 407          | 659          | 1554 *       | 4418 *       | 7553 *       | 9494 *       |
| <b>9.0</b>              | 0                        | 46           | 137          | 261          | 413          | 680          | 1683 *       | 4766 *       | 7857 *       | 9762 *       |
| <b>7.0</b>              | 0                        | 46           | 138          | 263          | 418          | 696          | 1787 *       | 5038 *       | 8098 *       | 9950 *       |
| <b>5.0</b>              | 0                        | 46           | 139          | 266          | 422          | 709          | 1866 *       | 5236 *       | 8280 *       | 10072 *      |
| <b>3.0</b>              | 0                        | 46           | 138          | 268          | 425          | 721          | 1949 *       | 5359 *       | 8400 *       | 10154 *      |
| <b>1.0</b>              | 0                        | 46           | 138          | 269          | 426          | 722          | 1950 *       | 5418 *       | 8454 *       | 10209 *      |
| <b>0.0</b>              | 0                        | 46           | 138          | 269          | 427          | 722          | 1951 *       | 5409 *       | 8458 *       | 10222 *      |
| <b>-1.0</b>             | 0                        | 46           | 138          | 269          | 426          | 722          | 1950 *       | 5418 *       | 8454 *       | 10209 *      |
| <b>-3.0</b>             | 0                        | 46           | 138          | 268          | 425          | 721          | 1949 *       | 5359 *       | 8400 *       | 10154 *      |
| <b>-5.0</b>             | 0                        | 46           | 139          | 266          | 422          | 709          | 1866 *       | 5236 *       | 8280 *       | 10072 *      |
| <b>-7.0</b>             | 0                        | 46           | 138          | 263          | 418          | 696          | 1787 *       | 5038 *       | 8098 *       | 9950 *       |
| <b>-9.0</b>             | 0                        | 46           | 137          | 261          | 413          | 680          | 1683 *       | 4766 *       | 7857 *       | 9762 *       |
| <b>-11.0</b>            | 0                        | 46           | 136          | 257          | 407          | 659          | 1554 *       | 4418 *       | 7553 *       | 9494 *       |
| <b>-13.0</b>            | 0                        | 45           | 136          | 254          | 401          | 635          | 1400 *       | 4001 *       | 7162 *       | 9179 *       |
| <b>-15.0</b>            | 0                        | 45           | 134          | 251          | 393          | 606          | 1222         | 3533 *       | 6648 *       | 8822 *       |
| <b>-17.0</b>            | 0                        | 44           | 133          | 247          | 385          | 574          | 1051         | 3118 *       | 6073 *       | 8313 *       |
| <b>-19.5</b>            | 0                        | 44           | 131          | 242          | 374          | 540          | 929          | 2535 *       | 5260 *       | 7579 *       |
| <b>-22.5</b>            | 0                        | 43           | 129          | 235          | 361          | 505          | 767          | 1831 *       | 4132 *       | 6451 *       |
| <b>-25.5</b>            | 0                        | 42           | 126          | 228          | 349          | 467          | 653          | 1322 *       | 3008 *       | 5128 *       |
| <b>-29.0</b>            | 0                        | 41           | 122          | 219          | 334          | 434          | 558          | 908          | 1815 *       | 3479 *       |
| <b>-33.0</b>            | 0                        | 39           | 118          | 209          | 316          | 398          | 486          | 654          | 1012         | 1771 *       |
| <b>-37.5</b>            | 0                        | 37           | 112          | 196          | 295          | 365          | 422          | 514          | 654          | 900          |
| <b>-42.5</b>            | 0                        | 35           | 105          | 181          | 269          | 329          | 371          | 423          | 486          | 557          |
| <b>-47.5</b>            | 0                        | 32           | 96           | 166          | 241          | 295          | 330          | 368          | 398          | 432          |
| <b>-55.0</b>            | 0                        | 28           | 83           | 142          | 199          | 242          | 270          | 296          | 317          | 333          |
| <b>-65.0</b>            | 0                        | 21           | 63           | 108          | 146          | 172          | 190          | 206          | 220          | 231          |
| <b>-75.0</b>            | 0                        | 13           | 41           | 67           | 91           | 102          | 109          | 120          | 131          | 138          |
| <b>-85.0</b>            | 0                        | 4            | 14           | 23           | 31           | 35           | 37           | 40           | 42           | 45           |
| <b>-90.0</b>            | 0                        | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            | 0            |

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**CANDELA TABULATION - (Cont.)**

| Vert.<br>Angles | Horizontal Angles |              |              |              |              |              |              |             |             |             |
|-----------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|
|                 | <u>-25.5</u>      | <u>-22.5</u> | <u>-19.5</u> | <u>-17.0</u> | <u>-15.0</u> | <u>-13.0</u> | <u>-11.0</u> | <u>-9.0</u> | <u>-7.0</u> | <u>-5.0</u> |
| 90.0            | 0                 | 0            | 0            | 0            | 0            | 0            | 0            | 0           | 0           | 0           |
| 85.0            | 46                | 48           | 49           | 50           | 50           | 51           | 52           | 52          | 52          | 52          |
| 75.0            | 144               | 146          | 147          | 147          | 147          | 147          | 147          | 147         | 146         | 146         |
| 65.0            | 241               | 248          | 253          | 257          | 260          | 263          | 267          | 270         | 272         | 275         |
| 55.0            | 347               | 358          | 369          | 378          | 384          | 389          | 395          | 400         | 405         | 409         |
| 47.5            | 462               | 497          | 529          | 559          | 589          | 616          | 639          | 658         | 674         | 687         |
| 42.5            | 652               | 758          | 906          | 1014         | 1168         | 1331 *       | 1472 *       | 1590 *      | 1685 *      | 1755 *      |
| 37.5            | 1283              | 1736 *       | 2392 *       | 2940 *       | 3333 *       | 3789 *       | 4193 *       | 4540 *      | 4827 *      | 5043 *      |
| 33.0            | 2929 *            | 4013 *       | 5104 *       | 5864 *       | 6400 *       | 6914 *       | 7335 *       | 7665 *      | 7914 *      | 8095 *      |
| 29.0            | 5093 *            | 6385 *       | 7483 *       | 8192 *       | 8695 *       | 9042 *       | 9353 *       | 9618 *      | 9805 *      | 9921 *      |
| 25.5            | 6894 *            | 8093 *       | 9029 *       | 9642 *       | 9999 *       | 10292 *      | 10557 *      | 10720 *     | 10842 *     | 10943 *     |
| 22.5            | 8122 *            | 9189 *       | 9984 *       | 10475 *      | 10785 *      | 11028 *      | 11233 *      | 11364 *     | 11471 *     | 11555 *     |
| 19.5            | 9084 *            | 10009 *      | 10674 *      | 11081 *      | 11348 *      | 11552 *      | 11717 *      | 11828 *     | 11924 *     | 12002 *     |
| 17.0            | 9699 *            | 10511 *      | 11090 *      | 11455 *      | 11703 *      | 11872 *      | 12020 *      | 12121 *     | 12201 *     | 12268 *     |
| 15.0            | 10067 *           | 10818 *      | 11361 *      | 11712 *      | 11913 *      | 12091 *      | 12215 *      | 12319 *     | 12382 *     | 12439 *     |
| 13.0            | 10364 *           | 11065 *      | 11575 *      | 11900 *      | 12112 *      | 12264 *      | 12387 *      | 12476 *     | 12542 *     | 12585 *     |
| 11.0            | 10628 *           | 11281 *      | 11760 *      | 12074 *      | 12263 *      | 12417 *      | 12531 *      | 12614 *     | 12672 *     | 12706 *     |
| 9.0             | 10809 *           | 11433 *      | 11898 *      | 12199 *      | 12396 *      | 12546 *      | 12658 *      | 12736 *     | 12783 *     | 12811 *     |
| 7.0             | 10950 *           | 11564 *      | 12021 *      | 12312 *      | 12497 *      | 12653 *      | 12765 *      | 12840 *     | 12884 *     | 12899 *     |
| 5.0             | 11059 *           | 11664 *      | 12118 *      | 12413 *      | 12588 *      | 12733 *      | 12848 *      | 12931 *     | 12977 *     | 12982 *     |
| 3.0             | 11136 *           | 11731 *      | 12172 *      | 12464 *      | 12646 *      | 12792 *      | 12913 *      | 13000 *     | 13057 *     | 13074 *     |
| 1.0             | 11176 *           | 11766 *      | 12196 *      | 12484 *      | 12674 *      | 12816 *      | 12935 *      | 13030 *     | 13100 *     | 13148 *     |
| 0.0             | 11181 *           | 11765 *      | 12197 *      | 12484 *      | 12671 *      | 12814 *      | 12932 *      | 13026 *     | 13097 *     | 13145 *     |
| -1.0            | 11176 *           | 11766 *      | 12196 *      | 12484 *      | 12674 *      | 12816 *      | 12935 *      | 13030 *     | 13100 *     | 13148 *     |
| -3.0            | 11136 *           | 11731 *      | 12172 *      | 12464 *      | 12646 *      | 12792 *      | 12913 *      | 13000 *     | 13057 *     | 13074 *     |
| -5.0            | 11059 *           | 11664 *      | 12118 *      | 12413 *      | 12588 *      | 12733 *      | 12848 *      | 12931 *     | 12977 *     | 12982 *     |
| -7.0            | 10950 *           | 11564 *      | 12021 *      | 12312 *      | 12497 *      | 12653 *      | 12765 *      | 12840 *     | 12884 *     | 12899 *     |
| -9.0            | 10809 *           | 11433 *      | 11898 *      | 12199 *      | 12396 *      | 12546 *      | 12658 *      | 12736 *     | 12783 *     | 12811 *     |
| -11.0           | 10628 *           | 11281 *      | 11760 *      | 12074 *      | 12263 *      | 12417 *      | 12531 *      | 12614 *     | 12672 *     | 12706 *     |
| -13.0           | 10364 *           | 11065 *      | 11575 *      | 11900 *      | 12112 *      | 12264 *      | 12387 *      | 12476 *     | 12542 *     | 12585 *     |
| -15.0           | 10067 *           | 10818 *      | 11361 *      | 11712 *      | 11913 *      | 12091 *      | 12215 *      | 12319 *     | 12382 *     | 12439 *     |
| -17.0           | 9699 *            | 10511 *      | 11090 *      | 11455 *      | 11703 *      | 11872 *      | 12020 *      | 12121 *     | 12201 *     | 12268 *     |
| -19.5           | 9084 *            | 10009 *      | 10674 *      | 11081 *      | 11348 *      | 11552 *      | 11717 *      | 11828 *     | 11924 *     | 12002 *     |
| -22.5           | 8122 *            | 9189 *       | 9984 *       | 10475 *      | 10785 *      | 11028 *      | 11233 *      | 11364 *     | 11471 *     | 11555 *     |
| -25.5           | 6894 *            | 8093 *       | 9029 *       | 9642 *       | 9999 *       | 10292 *      | 10557 *      | 10720 *     | 10842 *     | 10943 *     |
| -29.0           | 5093 *            | 6385 *       | 7483 *       | 8192 *       | 8695 *       | 9042 *       | 9353 *       | 9618 *      | 9805 *      | 9921 *      |
| -33.0           | 2929 *            | 4013 *       | 5104 *       | 5864 *       | 6400 *       | 6914 *       | 7335 *       | 7665 *      | 7914 *      | 8095 *      |
| -37.5           | 1283              | 1736 *       | 2392 *       | 2940 *       | 3333 *       | 3789 *       | 4193 *       | 4540 *      | 4827 *      | 5043 *      |
| -42.5           | 652               | 758          | 906          | 1014         | 1168         | 1331 *       | 1472 *       | 1590 *      | 1685 *      | 1755 *      |
| -47.5           | 462               | 497          | 529          | 559          | 589          | 616          | 639          | 658         | 674         | 687         |
| -55.0           | 347               | 358          | 369          | 378          | 384          | 389          | 395          | 400         | 405         | 409         |
| -65.0           | 241               | 248          | 253          | 257          | 260          | 263          | 267          | 270         | 272         | 275         |
| -75.0           | 144               | 146          | 147          | 147          | 147          | 147          | 147          | 147         | 146         | 146         |
| -85.0           | 46                | 48           | 49           | 50           | 50           | 51           | 52           | 52          | 52          | 52          |
| -90.0           | 0                 | 0            | 0            | 0            | 0            | 0            | 0            | 0           | 0           | 0           |

| Vert.<br>Angles | Horizontal Angles |             |            |            |            |            |            |            |             |             |
|-----------------|-------------------|-------------|------------|------------|------------|------------|------------|------------|-------------|-------------|
|                 | <u>-3.0</u>       | <u>-1.0</u> | <u>0.0</u> | <u>1.0</u> | <u>3.0</u> | <u>5.0</u> | <u>7.0</u> | <u>9.0</u> | <u>11.0</u> | <u>13.0</u> |
| 90.0            | 0                 | 0           | 0          | 0          | 0          | 0          | 0          | 0          | 0           | 0           |
| 85.0            | 52                | 52          | 52         | 52         | 52         | 52         | 52         | 52         | 52          | 51          |
| 75.0            | 146               | 145         | 145        | 145        | 146        | 146        | 146        | 147        | 147         | 147         |
| 65.0            | 278               | 279         | 279        | 279        | 278        | 275        | 272        | 270        | 267         | 263         |

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**CANDELA TABULATION - (Cont.)**

|       |         |         |         |         |         |         |         |         |         |         |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 55.0  | 413     | 414     | 415     | 414     | 413     | 409     | 405     | 400     | 395     | 389     |
| 47.5  | 698     | 693     | 691     | 693     | 698     | 687     | 674     | 658     | 639     | 616     |
| 42.5  | 1831 *  | 1839 *  | 1843 *  | 1839 *  | 1831 *  | 1755 *  | 1685 *  | 1590 *  | 1472 *  | 1331 *  |
| 37.5  | 5190 *  | 5282 *  | 5290 *  | 5282 *  | 5190 *  | 5043 *  | 4827 *  | 4540 *  | 4193 *  | 3789 *  |
| 33.0  | 8213 *  | 8286 *  | 8300 *  | 8286 *  | 8213 *  | 8095 *  | 7914 *  | 7665 *  | 7335 *  | 6914 *  |
| 29.0  | 9997 *  | 10042 * | 10051 * | 10042 * | 9997 *  | 9921 *  | 9805 *  | 9618 *  | 9353 *  | 9042 *  |
| 25.5  | 11011 * | 11044 * | 11047 * | 11044 * | 11011 * | 10943 * | 10842 * | 10720 * | 10557 * | 10292 * |
| 22.5  | 11615 * | 11647 * | 11644 * | 11647 * | 11615 * | 11555 * | 11471 * | 11364 * | 11233 * | 11028 * |
| 19.5  | 12049 * | 12068 * | 12067 * | 12068 * | 12049 * | 12002 * | 11924 * | 11828 * | 11717 * | 11552 * |
| 17.0  | 12311 * | 12335 * | 12341 * | 12335 * | 12311 * | 12268 * | 12201 * | 12121 * | 12020 * | 11872 * |
| 15.0  | 12483 * | 12513 * | 12515 * | 12513 * | 12483 * | 12439 * | 12382 * | 12319 * | 12215 * | 12091 * |
| 13.0  | 12622 * | 12651 * | 12658 * | 12651 * | 12622 * | 12585 * | 12542 * | 12476 * | 12387 * | 12264 * |
| 11.0  | 12734 * | 12762 * | 12770 * | 12762 * | 12734 * | 12706 * | 12672 * | 12614 * | 12531 * | 12417 * |
| 9.0   | 12827 * | 12848 * | 12856 * | 12848 * | 12827 * | 12811 * | 12783 * | 12736 * | 12658 * | 12546 * |
| 7.0   | 12899 * | 12912 * | 12920 * | 12912 * | 12899 * | 12899 * | 12884 * | 12840 * | 12765 * | 12653 * |
| 5.0   | 12964 * | 12954 * | 12962 * | 12954 * | 12964 * | 12982 * | 12977 * | 12931 * | 12848 * | 12733 * |
| 3.0   | 13036 * | 12970 * | 12976 * | 12970 * | 13036 * | 13074 * | 13057 * | 13000 * | 12913 * | 12792 * |
| 1.0   | 13151 * | 13047 * | 13018 * | 13047 * | 13151 * | 13148 * | 13100 * | 13030 * | 12935 * | 12816 * |
| 0.0   | 13163 * | 13093 * | 13044 * | 13093 * | 13163 * | 13145 * | 13097 * | 13026 * | 12932 * | 12814 * |
| -1.0  | 13151 * | 13047 * | 13018 * | 13047 * | 13151 * | 13148 * | 13100 * | 13030 * | 12935 * | 12816 * |
| -3.0  | 13036 * | 12970 * | 12976 * | 12970 * | 13036 * | 13074 * | 13057 * | 13000 * | 12913 * | 12792 * |
| -5.0  | 12964 * | 12954 * | 12962 * | 12954 * | 12964 * | 12982 * | 12977 * | 12931 * | 12848 * | 12733 * |
| -7.0  | 12899 * | 12912 * | 12920 * | 12912 * | 12899 * | 12899 * | 12884 * | 12840 * | 12765 * | 12653 * |
| -9.0  | 12827 * | 12848 * | 12856 * | 12848 * | 12827 * | 12811 * | 12783 * | 12736 * | 12658 * | 12546 * |
| -11.0 | 12734 * | 12762 * | 12770 * | 12762 * | 12734 * | 12706 * | 12672 * | 12614 * | 12531 * | 12417 * |
| -13.0 | 12622 * | 12651 * | 12658 * | 12651 * | 12622 * | 12585 * | 12542 * | 12476 * | 12387 * | 12264 * |
| -15.0 | 12483 * | 12513 * | 12515 * | 12513 * | 12483 * | 12439 * | 12382 * | 12319 * | 12215 * | 12091 * |
| -17.0 | 12311 * | 12335 * | 12341 * | 12335 * | 12311 * | 12268 * | 12201 * | 12121 * | 12020 * | 11872 * |
| -19.5 | 12049 * | 12068 * | 12067 * | 12068 * | 12049 * | 12002 * | 11924 * | 11828 * | 11717 * | 11552 * |
| -22.5 | 11615 * | 11647 * | 11644 * | 11647 * | 11615 * | 11555 * | 11471 * | 11364 * | 11233 * | 11028 * |
| -25.5 | 11011 * | 11044 * | 11047 * | 11044 * | 11011 * | 10943 * | 10842 * | 10720 * | 10557 * | 10292 * |
| -29.0 | 9997 *  | 10042 * | 10051 * | 10042 * | 9997 *  | 9921 *  | 9805 *  | 9618 *  | 9353 *  | 9042 *  |
| -33.0 | 8213 *  | 8286 *  | 8300 *  | 8286 *  | 8213 *  | 8095 *  | 7914 *  | 7665 *  | 7335 *  | 6914 *  |
| -37.5 | 5190 *  | 5282 *  | 5290 *  | 5282 *  | 5190 *  | 5043 *  | 4827 *  | 4540 *  | 4193 *  | 3789 *  |
| -42.5 | 1831 *  | 1839 *  | 1843 *  | 1839 *  | 1831 *  | 1755 *  | 1685 *  | 1590 *  | 1472 *  | 1331 *  |
| -47.5 | 698     | 693     | 691     | 693     | 698     | 687     | 674     | 658     | 639     | 616     |
| -55.0 | 413     | 414     | 415     | 414     | 413     | 409     | 405     | 400     | 395     | 389     |
| -65.0 | 278     | 279     | 279     | 279     | 278     | 275     | 272     | 270     | 267     | 263     |
| -75.0 | 146     | 145     | 145     | 145     | 146     | 146     | 146     | 147     | 147     | 147     |
| -85.0 | 52      | 52      | 52      | 52      | 52      | 52      | 52      | 52      | 52      | 51      |
| -90.0 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |

**Vert. Horizontal Angles**  
**Angles**

|      | <u>15.0</u> | <u>17.0</u> | <u>19.5</u> | <u>22.5</u> | <u>25.5</u> | <u>29.0</u> | <u>33.0</u> | <u>37.5</u> | <u>42.5</u> | <u>47.5</u> |
|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 90.0 | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| 85.0 | 50          | 50          | 49          | 48          | 46          | 45          | 42          | 40          | 37          | 35          |
| 75.0 | 147         | 147         | 147         | 146         | 144         | 138         | 131         | 120         | 109         | 102         |
| 65.0 | 260         | 257         | 253         | 248         | 241         | 231         | 220         | 206         | 190         | 172         |
| 55.0 | 384         | 378         | 369         | 358         | 347         | 333         | 317         | 296         | 270         | 242         |
| 47.5 | 589         | 559         | 529         | 497         | 462         | 432         | 398         | 368         | 330         | 295         |
| 42.5 | 1168        | 1014        | 906         | 758         | 652         | 557         | 486         | 423         | 371         | 329         |
| 37.5 | 3333 *      | 2940 *      | 2392 *      | 1736 *      | 1283        | 900         | 654         | 514         | 422         | 365         |
| 33.0 | 6400 *      | 5864 *      | 5104 *      | 4013 *      | 2929 *      | 1771 *      | 1012        | 654         | 486         | 398         |
| 29.0 | 8695 *      | 8192 *      | 7483 *      | 6385 *      | 5093 *      | 3479 *      | 1815 *      | 908         | 558         | 434         |
| 25.5 | 9999 *      | 9642 *      | 9029 *      | 8093 *      | 6894 *      | 5128 *      | 3008 *      | 1322 *      | 653         | 467         |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : PFL-LED-16L-PC-WF-50-80.IES**

**CANDELA TABULATION - (Cont.)**

|       |         |         |         |         |         |         |        |        |        |     |
|-------|---------|---------|---------|---------|---------|---------|--------|--------|--------|-----|
| 22.5  | 10785 * | 10475 * | 9984 *  | 9189 *  | 8122 *  | 6451 *  | 4132 * | 1831 * | 767    | 505 |
| 19.5  | 11348 * | 11081 * | 10674 * | 10009 * | 9084 *  | 7579 *  | 5260 * | 2535 * | 929    | 540 |
| 17.0  | 11703 * | 11455 * | 11090 * | 10511 * | 9699 *  | 8313 *  | 6073 * | 3118 * | 1051   | 574 |
| 15.0  | 11913 * | 11712 * | 11361 * | 10818 * | 10067 * | 8822 *  | 6648 * | 3533 * | 1222   | 606 |
| 13.0  | 12112 * | 11900 * | 11575 * | 11065 * | 10364 * | 9179 *  | 7162 * | 4001 * | 1400 * | 635 |
| 11.0  | 12263 * | 12074 * | 11760 * | 11281 * | 10628 * | 9494 *  | 7553 * | 4418 * | 1554 * | 659 |
| 9.0   | 12396 * | 12199 * | 11898 * | 11433 * | 10809 * | 9762 *  | 7857 * | 4766 * | 1683 * | 680 |
| 7.0   | 12497 * | 12312 * | 12021 * | 11564 * | 10950 * | 9950 *  | 8098 * | 5038 * | 1787 * | 696 |
| 5.0   | 12588 * | 12413 * | 12118 * | 11664 * | 11059 * | 10072 * | 8280 * | 5236 * | 1866 * | 709 |
| 3.0   | 12646 * | 12464 * | 12172 * | 11731 * | 11136 * | 10154 * | 8400 * | 5359 * | 1949 * | 721 |
| 1.0   | 12674 * | 12484 * | 12196 * | 11766 * | 11176 * | 10209 * | 8454 * | 5418 * | 1950 * | 722 |
| 0.0   | 12671 * | 12484 * | 12197 * | 11765 * | 11181 * | 10222 * | 8458 * | 5409 * | 1951 * | 722 |
| -1.0  | 12674 * | 12484 * | 12196 * | 11766 * | 11176 * | 10209 * | 8454 * | 5418 * | 1950 * | 722 |
| -3.0  | 12646 * | 12464 * | 12172 * | 11731 * | 11136 * | 10154 * | 8400 * | 5359 * | 1949 * | 721 |
| -5.0  | 12588 * | 12413 * | 12118 * | 11664 * | 11059 * | 10072 * | 8280 * | 5236 * | 1866 * | 709 |
| -7.0  | 12497 * | 12312 * | 12021 * | 11564 * | 10950 * | 9950 *  | 8098 * | 5038 * | 1787 * | 696 |
| -9.0  | 12396 * | 12199 * | 11898 * | 11433 * | 10809 * | 9762 *  | 7857 * | 4766 * | 1683 * | 680 |
| -11.0 | 12263 * | 12074 * | 11760 * | 11281 * | 10628 * | 9494 *  | 7553 * | 4418 * | 1554 * | 659 |
| -13.0 | 12112 * | 11900 * | 11575 * | 11065 * | 10364 * | 9179 *  | 7162 * | 4001 * | 1400 * | 635 |
| -15.0 | 11913 * | 11712 * | 11361 * | 10818 * | 10067 * | 8822 *  | 6648 * | 3533 * | 1222   | 606 |
| -17.0 | 11703 * | 11455 * | 11090 * | 10511 * | 9699 *  | 8313 *  | 6073 * | 3118 * | 1051   | 574 |
| -19.5 | 11348 * | 11081 * | 10674 * | 10009 * | 9084 *  | 7579 *  | 5260 * | 2535 * | 929    | 540 |
| -22.5 | 10785 * | 10475 * | 9984 *  | 9189 *  | 8122 *  | 6451 *  | 4132 * | 1831 * | 767    | 505 |
| -25.5 | 9999 *  | 9642 *  | 9029 *  | 8093 *  | 6894 *  | 5128 *  | 3008 * | 1322 * | 653    | 467 |
| -29.0 | 8695 *  | 8192 *  | 7483 *  | 6385 *  | 5093 *  | 3479 *  | 1815 * | 908    | 558    | 434 |
| -33.0 | 6400 *  | 5864 *  | 5104 *  | 4013 *  | 2929 *  | 1771 *  | 1012   | 654    | 486    | 398 |
| -37.5 | 3333 *  | 2940 *  | 2392 *  | 1736 *  | 1283    | 900     | 654    | 514    | 422    | 365 |
| -42.5 | 1168    | 1014    | 906     | 758     | 652     | 557     | 486    | 423    | 371    | 329 |
| -47.5 | 589     | 559     | 529     | 497     | 462     | 432     | 398    | 368    | 330    | 295 |
| -55.0 | 384     | 378     | 369     | 358     | 347     | 333     | 317    | 296    | 270    | 242 |
| -65.0 | 260     | 257     | 253     | 248     | 241     | 231     | 220    | 206    | 190    | 172 |
| -75.0 | 147     | 147     | 147     | 146     | 144     | 138     | 131    | 120    | 109    | 102 |
| -85.0 | 50      | 50      | 49      | 48      | 46      | 45      | 42     | 40     | 37     | 35  |
| -90.0 | 0       | 0       | 0       | 0       | 0       | 0       | 0      | 0      | 0      | 0   |

| Vert.<br>Angles | Horizontal Angles |             |             |             |             |
|-----------------|-------------------|-------------|-------------|-------------|-------------|
|                 | <u>55.0</u>       | <u>65.0</u> | <u>75.0</u> | <u>85.0</u> | <u>90.0</u> |
| 90.0            | 0                 | 0           | 0           | 0           | 0           |
| 85.0            | 31                | 23          | 14          | 4           | 0           |
| 75.0            | 91                | 67          | 41          | 13          | 0           |
| 65.0            | 146               | 108         | 63          | 21          | 0           |
| 55.0            | 199               | 142         | 83          | 28          | 0           |
| 47.5            | 241               | 166         | 96          | 32          | 0           |
| 42.5            | 269               | 181         | 105         | 35          | 0           |
| 37.5            | 295               | 196         | 112         | 37          | 0           |
| 33.0            | 316               | 209         | 118         | 39          | 0           |
| 29.0            | 334               | 219         | 122         | 41          | 0           |
| 25.5            | 349               | 228         | 126         | 42          | 0           |
| 22.5            | 361               | 235         | 129         | 43          | 0           |
| 19.5            | 374               | 242         | 131         | 44          | 0           |
| 17.0            | 385               | 247         | 133         | 44          | 0           |
| 15.0            | 393               | 251         | 134         | 45          | 0           |
| 13.0            | 401               | 254         | 136         | 45          | 0           |
| 11.0            | 407               | 257         | 136         | 46          | 0           |
| 9.0             | 413               | 261         | 137         | 46          | 0           |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : PFL-LED-16L-PC-WF-50-80.IES**

**CANDELA TABULATION - (Cont.)**

|              |     |     |     |    |   |
|--------------|-----|-----|-----|----|---|
| <b>7.0</b>   | 418 | 263 | 138 | 46 | 0 |
| <b>5.0</b>   | 422 | 266 | 139 | 46 | 0 |
| <b>3.0</b>   | 425 | 268 | 138 | 46 | 0 |
| <b>1.0</b>   | 426 | 269 | 138 | 46 | 0 |
| <b>0.0</b>   | 427 | 269 | 138 | 46 | 0 |
| <b>-1.0</b>  | 426 | 269 | 138 | 46 | 0 |
| <b>-3.0</b>  | 425 | 268 | 138 | 46 | 0 |
| <b>-5.0</b>  | 422 | 266 | 139 | 46 | 0 |
| <b>-7.0</b>  | 418 | 263 | 138 | 46 | 0 |
| <b>-9.0</b>  | 413 | 261 | 137 | 46 | 0 |
| <b>-11.0</b> | 407 | 257 | 136 | 46 | 0 |
| <b>-13.0</b> | 401 | 254 | 136 | 45 | 0 |
| <b>-15.0</b> | 393 | 251 | 134 | 45 | 0 |
| <b>-17.0</b> | 385 | 247 | 133 | 44 | 0 |
| <b>-19.5</b> | 374 | 242 | 131 | 44 | 0 |
| <b>-22.5</b> | 361 | 235 | 129 | 43 | 0 |
| <b>-25.5</b> | 349 | 228 | 126 | 42 | 0 |
| <b>-29.0</b> | 334 | 219 | 122 | 41 | 0 |
| <b>-33.0</b> | 316 | 209 | 118 | 39 | 0 |
| <b>-37.5</b> | 295 | 196 | 112 | 37 | 0 |
| <b>-42.5</b> | 269 | 181 | 105 | 35 | 0 |
| <b>-47.5</b> | 241 | 166 | 96  | 32 | 0 |
| <b>-55.0</b> | 199 | 142 | 83  | 28 | 0 |
| <b>-65.0</b> | 146 | 108 | 63  | 21 | 0 |
| <b>-75.0</b> | 91  | 67  | 41  | 13 | 0 |
| <b>-85.0</b> | 31  | 23  | 14  | 4  | 0 |
| <b>-90.0</b> | 0   | 0   | 0   | 0  | 0 |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : PFL-LED-16L-PC-WF-50-80.IES**

**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 8077.46

Total Field Lumens (one side of beam only) = 7437.22

\* Indicates Values Inside Field Edge

| Vert.<br>Angles | Horizontal Angles |          |          |          |          |          |           |           |           |           |
|-----------------|-------------------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|
|                 | <u>0</u>          | <u>1</u> | <u>3</u> | <u>5</u> | <u>7</u> | <u>9</u> | <u>11</u> | <u>13</u> | <u>15</u> | <u>17</u> |
| 90              |                   |          |          |          |          |          |           |           |           |           |
| 85              | 0.04              | 0.08     | 0.08     | 0.08     | 0.08     | 0.08     | 0.08      | 0.07      | 0.07      | 0.09      |
| 75              | 0.30              | 0.60     | 0.60     | 0.60     | 0.60     | 0.60     | 0.59      | 0.58      | 0.58      | 0.71      |
| 65              | 0.65              | 1.29     | 1.28     | 1.27     | 1.26     | 1.25     | 1.23      | 1.21      | 1.19      | 1.45      |
| 55              | 1.06              | 2.11     | 2.09     | 2.06     | 2.03     | 2.00     | 1.96      | 1.92      | 1.87      | 2.27      |
| 47.5            | 1.26              | 2.53     | 2.51     | 2.47     | 2.42     | 2.35     | 2.28      | 2.19      | 2.10      | 2.49      |
| 42.5            | 1.93              | 3.85     | 3.78     | 3.64     | 3.47     | 3.27     | 3.02      | 2.74      | 2.44      | 2.72      |
| 37.5            | 5.43 *            | 10.76 *  | 10.50 *  | 10.08 *  | 9.53 *   | 8.85 *   | 8.03 *    | 7.11 *    | 6.19 *    | 6.56 *    |
| 33              | 9.31 *            | 18.47 *  | 18.15 *  | 17.64 *  | 16.93 *  | 16.02 *  | 14.90 *   | 13.59 *   | 12.21 *   | 13.26 *   |
| 29              | 11.17 *           | 22.25 *  | 22.02 *  | 21.65 *  | 21.12 *  | 20.38 *  | 19.45 *   | 18.35 *   | 17.07 *   | 19.27 *   |
| 25.5            | 11.24 *           | 22.42 *  | 22.27 *  | 22.01 *  | 21.63 *  | 21.13 *  | 20.46 *   | 19.67 *   | 18.72 *   | 21.73 *   |
| 22.5            | 10.37 *           | 20.69 *  | 20.57 *  | 20.36 *  | 20.09 *  | 19.74 *  | 19.27 *   | 18.67 *   | 17.96 *   | 21.22 *   |
| 19.5            | 10.83 *           | 21.63 *  | 21.52 *  | 21.33 *  | 21.08 *  | 20.76 *  | 20.35 *   | 19.82 *   | 19.19 *   | 22.90 *   |
| 17              | 9.29 *            | 18.56 *  | 18.47 *  | 18.33 *  | 18.13 *  | 17.88 *  | 17.56 *   | 17.17 *   | 16.68 *   | 20.02 *   |
| 15              | 7.57 *            | 15.11 *  | 15.04 *  | 14.93 *  | 14.79 *  | 14.60 *  | 14.36 *   | 14.06 *   | 13.70 *   | 16.50 *   |
| 13              | 7.67 *            | 15.30 *  | 15.23 *  | 15.13 *  | 15.00 *  | 14.82 *  | 14.59 *   | 14.30 *   | 13.95 *   | 16.83 *   |
| 11              | 7.74 *            | 15.45 *  | 15.39 *  | 15.30 *  | 15.17 *  | 15.00 *  | 14.78 *   | 14.50 *   | 14.16 *   | 17.11 *   |
| 9               | 7.80 *            | 15.58 *  | 15.52 *  | 15.44 *  | 15.32 *  | 15.16 *  | 14.94 *   | 14.67 *   | 14.33 *   | 17.33 *   |
| 7               | 7.85 *            | 15.67 *  | 15.63 *  | 15.56 *  | 15.46 *  | 15.30 *  | 15.08 *   | 14.80 *   | 14.47 *   | 17.51 *   |
| 5               | 7.88 *            | 15.75 *  | 15.72 *  | 15.67 *  | 15.57 *  | 15.41 *  | 15.19 *   | 14.92 *   | 14.58 *   | 17.67 *   |
| 3               | 7.90 *            | 15.81 *  | 15.82 *  | 15.78 *  | 15.67 *  | 15.51 *  | 15.28 *   | 15.00 *   | 14.67 *   | 17.78 *   |
| 1               | 7.92 *            | 15.89 *  | 15.92 *  | 15.87 *  | 15.74 *  | 15.56 *  | 15.33 *   | 15.05 *   | 14.72 *   | 17.83 *   |
| 0               | 3.98 *            | 7.98 *   | 7.99 *   | 7.95 *   | 7.88 *   | 7.79 *   | 7.67 *    | 7.53 *    | 7.37 *    | 8.92 *    |
| -1              | 3.98 *            | 7.98 *   | 7.99 *   | 7.95 *   | 7.88 *   | 7.79 *   | 7.67 *    | 7.53 *    | 7.37 *    | 8.92 *    |
|                 | 7.92 *            | 15.89 *  | 15.92 *  | 15.87 *  | 15.74 *  | 15.56 *  | 15.33 *   | 15.05 *   | 14.72 *   | 17.83 *   |



**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : PFL-LED-16L-PC-WF-50-80.IES**

**LUMENS TABULATION - (Cont.)**

|              |         |         |         |         |         |         |         |         |         |         |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>-3</b>    | 7.90 *  | 15.81 * | 15.82 * | 15.78 * | 15.67 * | 15.51 * | 15.28 * | 15.00 * | 14.67 * | 17.78 * |
| <b>-5</b>    | 7.88 *  | 15.75 * | 15.72 * | 15.67 * | 15.57 * | 15.41 * | 15.19 * | 14.92 * | 14.58 * | 17.67 * |
| <b>-7</b>    | 7.85 *  | 15.67 * | 15.63 * | 15.56 * | 15.46 * | 15.30 * | 15.08 * | 14.80 * | 14.47 * | 17.51 * |
| <b>-9</b>    | 7.80 *  | 15.58 * | 15.52 * | 15.44 * | 15.32 * | 15.16 * | 14.94 * | 14.67 * | 14.33 * | 17.33 * |
| <b>-11</b>   | 7.74 *  | 15.45 * | 15.39 * | 15.30 * | 15.17 * | 15.00 * | 14.78 * | 14.50 * | 14.16 * | 17.11 * |
| <b>-13</b>   | 7.67 *  | 15.30 * | 15.23 * | 15.13 * | 15.00 * | 14.82 * | 14.59 * | 14.30 * | 13.95 * | 16.83 * |
| <b>-15</b>   | 7.57 *  | 15.11 * | 15.04 * | 14.93 * | 14.79 * | 14.60 * | 14.36 * | 14.06 * | 13.70 * | 16.50 * |
| <b>-17</b>   | 9.29 *  | 18.56 * | 18.47 * | 18.33 * | 18.13 * | 17.88 * | 17.56 * | 17.17 * | 16.68 * | 20.02 * |
| <b>-19.5</b> | 10.83 * | 21.63 * | 21.52 * | 21.33 * | 21.08 * | 20.76 * | 20.35 * | 19.82 * | 19.19 * | 22.90 * |
| <b>-22.5</b> | 10.37 * | 20.69 * | 20.57 * | 20.36 * | 20.09 * | 19.74 * | 19.27 * | 18.67 * | 17.96 * | 21.22 * |
| <b>-25.5</b> | 11.24 * | 22.42 * | 22.27 * | 22.01 * | 21.63 * | 21.13 * | 20.46 * | 19.67 * | 18.72 * | 21.73 * |
| <b>-29</b>   | 11.17 * | 22.25 * | 22.02 * | 21.65 * | 21.12 * | 20.38 * | 19.45 * | 18.35 * | 17.07 * | 19.27 * |
| <b>-33</b>   | 9.31 *  | 18.47 * | 18.15 * | 17.64 * | 16.93 * | 16.02 * | 14.90 * | 13.59 * | 12.21 * | 13.26 * |
| <b>-37.5</b> | 5.43 *  | 10.76 * | 10.50 * | 10.08 * | 9.53 *  | 8.85 *  | 8.03 *  | 7.11 *  | 6.19 *  | 6.56 *  |
| <b>-42.5</b> | 1.93    | 3.85    | 3.78    | 3.64    | 3.47    | 3.27    | 3.02    | 2.74    | 2.44    | 2.72    |
| <b>-47.5</b> | 1.26    | 2.53    | 2.51    | 2.47    | 2.42    | 2.35    | 2.28    | 2.19    | 2.10    | 2.49    |
| <b>-55</b>   | 1.06    | 2.11    | 2.09    | 2.06    | 2.03    | 2.00    | 1.96    | 1.92    | 1.87    | 2.27    |
| <b>-65</b>   | 0.65    | 1.29    | 1.28    | 1.27    | 1.26    | 1.25    | 1.23    | 1.21    | 1.19    | 1.45    |
| <b>-75</b>   | 0.30    | 0.60    | 0.60    | 0.60    | 0.60    | 0.60    | 0.59    | 0.58    | 0.58    | 0.71    |
| <b>-85</b>   | 0.04    | 0.08    | 0.08    | 0.08    | 0.08    | 0.08    | 0.08    | 0.07    | 0.07    | 0.09    |
| <b>-90</b>   |         |         |         |         |         |         |         |         |         |         |
| <b>Total</b> | 278.37  | 555.60  | 552.20  | 546.31  | 537.95  | 526.90  | 512.82  | 495.85  | 476.42  | 564.35  |

**Vert. Horizontal Angles**

| <b>Angles</b> | <b>19.5</b> | <b>22.5</b> | <b>25.5</b> | <b>29</b> | <b>33</b> | <b>37.5</b> | <b>42.5</b> | <b>47.5</b> | <b>55</b> | <b>65</b> |
|---------------|-------------|-------------|-------------|-----------|-----------|-------------|-------------|-------------|-----------|-----------|
| <b>90</b>     | 0.10        | 0.10        | 0.11        | 0.11      | 0.11      | 0.11        | 0.10        | 0.12        | 0.10      | 0.05      |
| <b>85</b>     | 0.83        | 0.80        | 0.88        | 0.93      | 0.93      | 0.89        | 0.76        | 0.93        | 0.81      | 0.38      |
| <b>75</b>     | 1.69        | 1.63        | 1.79        | 1.88      | 1.89      | 1.82        | 1.54        | 1.83        | 1.57      | 0.73      |
| <b>65</b>     | 2.62        | 2.49        | 2.73        | 2.87      | 2.91      | 2.81        | 2.35        | 2.71        | 2.26      | 1.03      |
| <b>55</b>     | 2.80        | 2.60        | 2.80        | 2.90      | 2.89      | 2.76        | 2.30        | 2.62        | 2.13      | 0.95      |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : PFL-LED-16L-PC-WF-50-80.IES**

**LUMENS TABULATION - (Cont.)**

|              |         |         |         |         |         |        |        |      |      |      |
|--------------|---------|---------|---------|---------|---------|--------|--------|------|------|------|
| <b>47.5</b>  |         |         |         |         |         |        |        |      |      |      |
|              | 2.87    | 2.47    | 2.49    | 2.44    | 2.34    | 2.18   | 1.78   | 2.03 | 1.63 | 0.71 |
| <b>42.5</b>  | 6.18 *  | 4.62    | 4.02    | 3.39    | 2.91    | 2.52   | 2.00   | 2.25 | 1.79 | 0.77 |
| <b>37.5</b>  | 12.71 * | 9.35 *  | 7.34 *  | 5.09    | 3.57    | 2.72   | 2.02   | 2.21 | 1.74 | 0.74 |
| <b>33</b>    | 19.61 * | 15.38 * | 12.58 * | 8.43 *  | 4.91    | 3.04   | 2.02   | 2.12 | 1.64 | 0.70 |
| <b>29</b>    | 23.13 * | 19.33 * | 17.08 * | 12.27 * | 6.91 *  | 3.51   | 1.99   | 1.98 | 1.50 | 0.63 |
| <b>25.5</b>  | 23.22 * | 20.22 * | 18.90 * | 14.66 * | 8.64 *  | 4.00   | 1.93   | 1.80 | 1.34 | 0.56 |
| <b>22.5</b>  | 25.50 * | 22.79 * | 22.20 * | 18.34 * | 11.55 * | 5.30 * | 2.21   | 1.91 | 1.38 | 0.58 |
| <b>19.5</b>  | 22.54 * | 20.51 * | 20.54 * | 17.77 * | 11.88 * | 5.56 * | 2.08   | 1.67 | 1.19 | 0.49 |
| <b>17</b>    | 18.67 * | 17.15 * | 17.49 * | 15.59 * | 10.84 * | 5.20 * | 1.86   | 1.40 | 0.97 | 0.40 |
| <b>15</b>    | 19.12 * | 17.66 * | 18.21 * | 16.61 * | 11.94 * | 5.92 * | 2.08   | 1.45 | 0.99 | 0.40 |
| <b>13</b>    | 19.48 * | 18.09 * | 18.80 * | 17.43 * | 12.95 * | 6.63 * | 2.29   | 1.50 | 1.00 | 0.41 |
| <b>11</b>    | 19.78 * | 18.43 * | 19.28 * | 18.10 * | 13.76 * | 7.24 * | 2.46   | 1.54 | 1.02 | 0.41 |
| <b>9</b>     | 20.01 * | 18.68 * | 19.65 * | 18.62 * | 14.41 * | 7.74 * | 2.61   | 1.58 | 1.03 | 0.42 |
| <b>7</b>     | 20.20 * | 18.88 * | 19.92 * | 19.00 * | 14.91 * | 8.12 * | 2.72   | 1.60 | 1.04 | 0.42 |
| <b>5</b>     | 20.34 * | 19.03 * | 20.10 * | 19.27 * | 15.26 * | 8.40 * | 2.82   | 1.63 | 1.05 | 0.42 |
| <b>3</b>     | 20.42 * | 19.12 * | 20.22 * | 19.43 * | 15.46 * | 8.56 * | 2.88 * | 1.64 | 1.06 | 0.42 |
| <b>1</b>     | 10.22 * | 9.58 *  | 10.14 * | 9.75 *  | 7.76 *  | 4.29 * | 1.44 * | 0.82 | 0.53 | 0.21 |
| <b>0</b>     | 10.22 * | 9.58 *  | 10.14 * | 9.75 *  | 7.76 *  | 4.29 * | 1.44 * | 0.82 | 0.53 | 0.21 |
| <b>-1</b>    | 20.42 * | 19.12 * | 20.22 * | 19.43 * | 15.46 * | 8.56 * | 2.88 * | 1.64 | 1.06 | 0.42 |
| <b>-3</b>    | 20.34 * | 19.03 * | 20.10 * | 19.27 * | 15.26 * | 8.40 * | 2.82   | 1.63 | 1.05 | 0.42 |
| <b>-5</b>    | 20.20 * | 18.88 * | 19.92 * | 19.00 * | 14.91 * | 8.12 * | 2.72   | 1.60 | 1.04 | 0.42 |
| <b>-7</b>    | 20.01 * | 18.68 * | 19.65 * | 18.62 * | 14.41 * | 7.74 * | 2.61   | 1.58 | 1.03 | 0.42 |
| <b>-9</b>    | 19.78 * | 18.43 * | 19.28 * | 18.10 * | 13.76 * | 7.24 * | 2.46   | 1.54 | 1.02 | 0.41 |
| <b>-11</b>   | 19.48 * | 18.09 * | 18.80 * | 17.43 * | 12.95 * | 6.63 * | 2.29   | 1.50 | 1.00 | 0.41 |
| <b>-13</b>   | 19.12 * | 17.66 * | 18.21 * | 16.61 * | 11.94 * | 5.92 * | 2.08   | 1.45 | 0.99 | 0.40 |
| <b>-15</b>   | 18.67 * | 17.15 * | 17.49 * | 15.59 * | 10.84 * | 5.20 * | 1.86   | 1.40 | 0.97 | 0.40 |
| <b>-17</b>   | 22.54 * | 20.51 * | 20.54 * | 17.77 * | 11.88 * | 5.56 * | 2.08   | 1.67 | 1.19 | 0.49 |
| <b>-19.5</b> | 25.50 * | 22.79 * | 22.20 * | 18.34 * | 11.55 * | 5.30 * | 2.21   | 1.91 | 1.38 | 0.58 |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : PFL-LED-16L-PC-WF-50-80.IES**

**LUMENS TABULATION - (Cont.)**

|              |         |         |         |         |        |        |       |       |       |       |
|--------------|---------|---------|---------|---------|--------|--------|-------|-------|-------|-------|
| <b>-22.5</b> | 23.22 * | 20.22 * | 18.90 * | 14.66 * | 8.64 * | 4.00   | 1.93  | 1.80  | 1.34  | 0.56  |
| <b>-25.5</b> | 23.13 * | 19.33 * | 17.08 * | 12.27 * | 6.91 * | 3.51   | 1.99  | 1.98  | 1.50  | 0.63  |
| <b>-29</b>   | 19.61 * | 15.38 * | 12.58 * | 8.43 *  | 4.91   | 3.04   | 2.02  | 2.12  | 1.64  | 0.70  |
| <b>-33</b>   | 12.71 * | 9.35 *  | 7.34 *  | 5.09    | 3.57   | 2.72   | 2.02  | 2.21  | 1.74  | 0.74  |
| <b>-37.5</b> | 6.18 *  | 4.62    | 4.02    | 3.39    | 2.91   | 2.52   | 2.00  | 2.25  | 1.79  | 0.77  |
| <b>-42.5</b> | 2.87    | 2.47    | 2.49    | 2.44    | 2.34   | 2.18   | 1.78  | 2.03  | 1.63  | 0.71  |
| <b>-47.5</b> | 2.80    | 2.60    | 2.80    | 2.90    | 2.89   | 2.76   | 2.30  | 2.62  | 2.13  | 0.95  |
| <b>-55</b>   | 2.62    | 2.49    | 2.73    | 2.87    | 2.91   | 2.81   | 2.35  | 2.71  | 2.26  | 1.03  |
| <b>-65</b>   | 1.69    | 1.63    | 1.79    | 1.88    | 1.89   | 1.82   | 1.54  | 1.83  | 1.57  | 0.73  |
| <b>-75</b>   | 0.83    | 0.80    | 0.88    | 0.93    | 0.93   | 0.89   | 0.76  | 0.93  | 0.81  | 0.38  |
| <b>-85</b>   | 0.10    | 0.10    | 0.11    | 0.11    | 0.11   | 0.11   | 0.10  | 0.12  | 0.10  | 0.05  |
| <b>-90</b>   |         |         |         |         |        |        |       |       |       |       |
| <b>Total</b> | 624.11  | 557.81  | 554.50  | 489.81  | 357.50 | 198.72 | 88.50 | 74.65 | 55.53 | 23.65 |

| Vert.<br>Angles | Horizontal Angles |           |           |              |
|-----------------|-------------------|-----------|-----------|--------------|
|                 | <u>75</u>         | <u>85</u> | <u>90</u> | <u>Total</u> |
| <b>90</b>       |                   |           |           |              |
|                 | 0.01              | 0.00      |           | 1.77         |
| <b>85</b>       |                   |           |           |              |
|                 | 0.10              | 0.00      |           | 14.00        |
| <b>75</b>       |                   |           |           |              |
|                 | 0.18              | 0.01      |           | 28.62        |
| <b>65</b>       |                   |           |           |              |
|                 | 0.26              | 0.01      |           | 44.41        |
| <b>55</b>       |                   |           |           |              |
|                 | 0.24              | 0.01      |           | 47.61        |
| <b>47.5</b>     |                   |           |           |              |
|                 | 0.18              | 0.01      |           | 51.98        |
| <b>42.5</b>     |                   |           |           |              |
|                 | 0.19              | 0.01      |           | 113.67       |
| <b>37.5</b>     |                   |           |           |              |
|                 | 0.18              | 0.01      |           | 198.17       |
| <b>33</b>       |                   |           |           |              |
|                 | 0.17              | 0.01      |           | 263.32       |
| <b>29</b>       |                   |           |           |              |
|                 | 0.15              | 0.00      |           | 289.78       |
| <b>25.5</b>     |                   |           |           |              |
|                 | 0.13              | 0.00      |           | 284.36       |
| <b>22.5</b>     |                   |           |           |              |
|                 | 0.14              | 0.00      |           | 311.33       |
| <b>19.5</b>     |                   |           |           |              |
|                 | 0.12              | 0.00      |           | 276.45       |
| <b>17</b>       |                   |           |           |              |
|                 | 0.09              | 0.00      |           | 230.33       |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : PFL-LED-16L-PC-WF-50-80.IES**

**LUMENS TABULATION - (Cont.)**

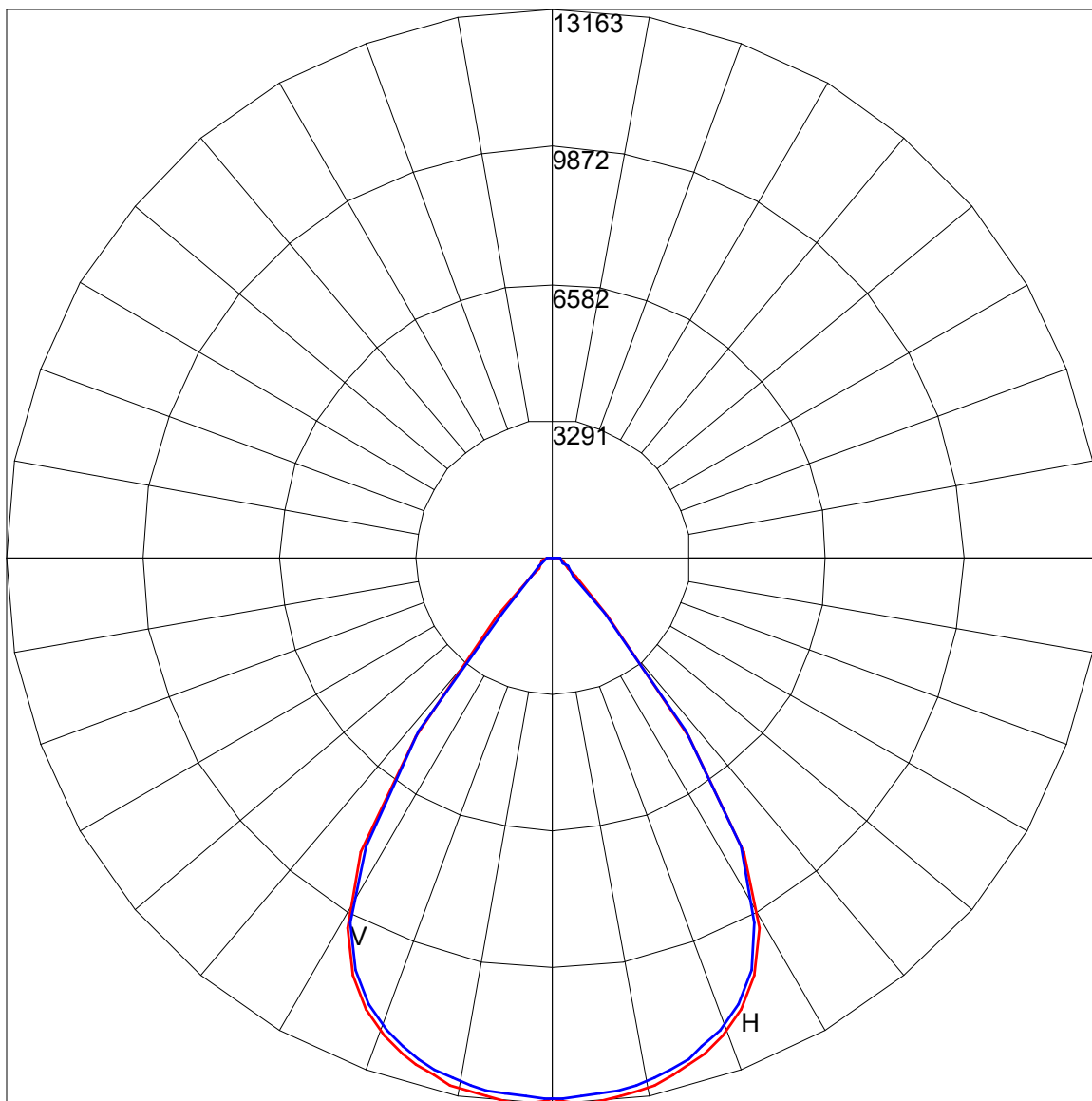
|              |      |      |        |
|--------------|------|------|--------|
| <b>15</b>    | 0.10 | 0.00 | 237.30 |
| <b>13</b>    | 0.10 | 0.00 | 243.28 |
| <b>11</b>    | 0.10 | 0.00 | 248.22 |
| <b>9</b>     | 0.10 | 0.00 | 252.19 |
| <b>7</b>     | 0.10 | 0.00 | 255.31 |
| <b>5</b>     | 0.10 | 0.00 | 257.64 |
| <b>3</b>     | 0.10 | 0.00 | 259.15 |
| <b>1</b>     | 0.05 | 0.00 | 129.85 |
| <b>0</b>     | 0.05 | 0.00 | 129.85 |
| <b>-1</b>    | 0.10 | 0.00 | 259.15 |
| <b>-3</b>    | 0.10 | 0.00 | 257.64 |
| <b>-5</b>    | 0.10 | 0.00 | 255.31 |
| <b>-7</b>    | 0.10 | 0.00 | 252.19 |
| <b>-9</b>    | 0.10 | 0.00 | 248.22 |
| <b>-11</b>   | 0.10 | 0.00 | 243.28 |
| <b>-13</b>   | 0.10 | 0.00 | 237.30 |
| <b>-15</b>   | 0.09 | 0.00 | 230.33 |
| <b>-17</b>   | 0.12 | 0.00 | 276.45 |
| <b>-19.5</b> | 0.14 | 0.00 | 311.33 |
| <b>-22.5</b> | 0.13 | 0.00 | 284.36 |
| <b>-25.5</b> | 0.15 | 0.00 | 289.78 |
| <b>-29</b>   | 0.17 | 0.01 | 263.32 |
| <b>-33</b>   | 0.18 | 0.01 | 198.17 |
| <b>-37.5</b> | 0.19 | 0.01 | 113.67 |
| <b>-42.5</b> | 0.18 | 0.01 | 51.98  |
| <b>-47.5</b> | 0.24 | 0.01 | 47.61  |
| <b>-55</b>   | 0.26 | 0.01 | 44.41  |
| <b>-65</b>   | 0.18 | 0.01 | 28.62  |

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : PFL-LED-16L-PC-WF-50-80.IES**

**LUMENS TABULATION - (Cont.)**

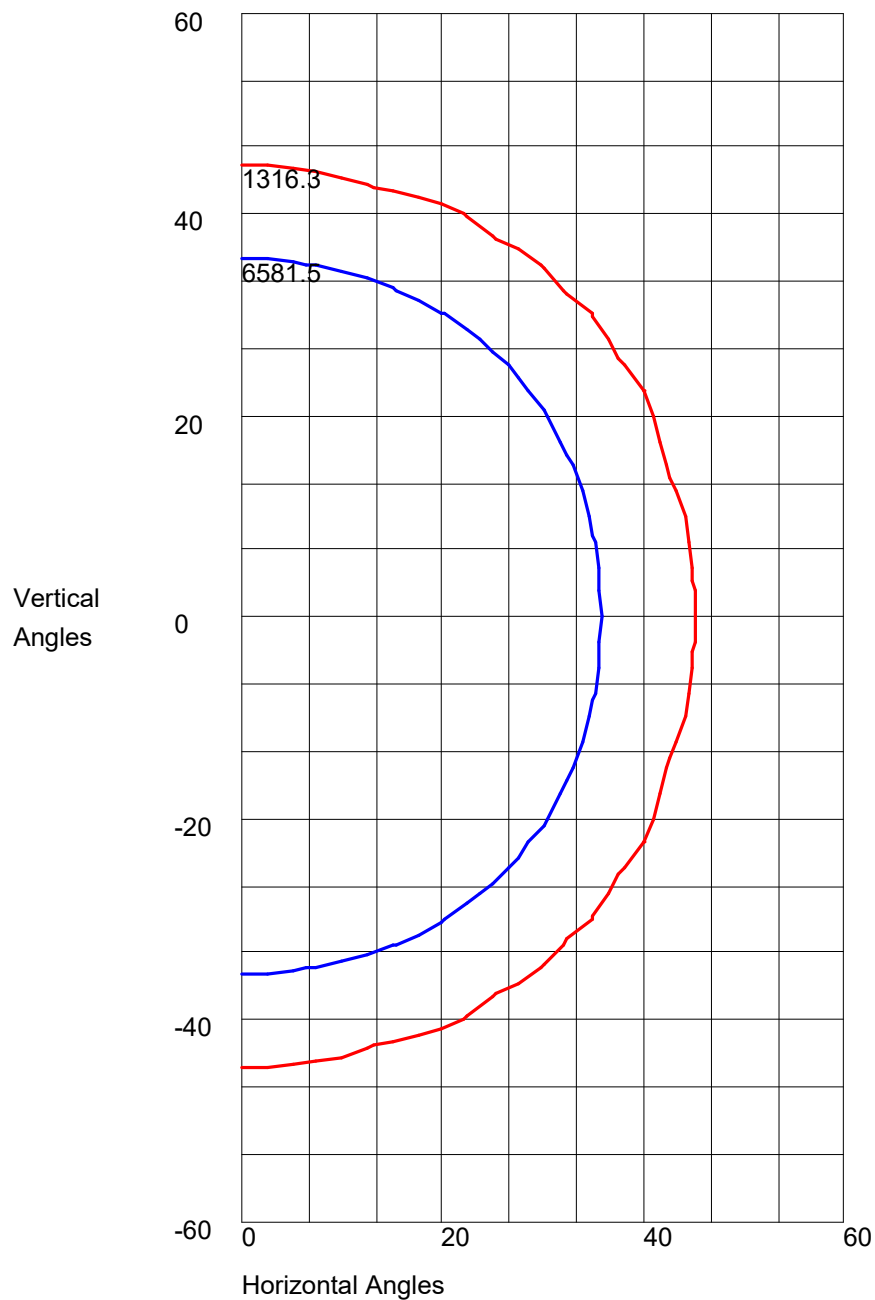
|              |      |      |         |
|--------------|------|------|---------|
| <b>-75</b>   | 0.10 | 0.00 | 14.00   |
| <b>-85</b>   | 0.01 | 0.00 | 1.77    |
| <b>-90</b>   |      |      |         |
| <b>Total</b> | 5.73 | 0.18 | 8077.46 |

AXIAL CANDELA DISPLAY



Maximum Candela = 13163 Located At Horizontal Angle = -3, Vertical Angle = 0  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 13163 Located At Horizontal Angle =-3, Vertical Angle = 0  
50% Maximum Candela = 6581.5  
10% Maximum Candela = 1316.3