

DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_  
 TYPE: \_\_\_\_\_ PROJECT: \_\_\_\_\_  
 CATALOG #: \_\_\_\_\_

**FEATURES**

- Reliable, uniform, glare free illumination
- Types II, III, IV, V and custom distributions
- 3000K, 4000K, 5000K CCT
- 0-10V dimming ready
- Integral surge suppression
- Upgrade Kits

**PROVIDENCE®**



Providence Large LED Deck



3000K and warmer CCTs only

**SPECIFICATIONS**

**CONSTRUCTION**

- All internal and external hardware are stainless steel
- Luminaire finish consists of a five stage pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish
- Optical bezel finish matches the luminaire housing

**LED/OPTICS**

- Molded silicone gasket ensures a weather-proof seal around each individual LED
- Features revolutionary individual LED optical control based on high performance TIR optical designs

**LED/OPTICS CONTINUED**

- House Side Shield is available on Standard and Clear Lens options except any Type 5 distribution. House Side Shield is not available for any distribution using a Diffused Lens

**INSTALLATION**

- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury

**ELECTRICAL**

- Luminaires have integral surge protection, UL recognized and have a surge current rating of 10,000 Amps using the industry standard 8/20uSec wave and surge rating of 372J

**ELECTRICAL CONTINUED**

- Drivers are UL recognized with an inrush current maximum of <20.0 Amps maximum at 230VAC
- 100%-1% dimming range. Fixture will be wired for low voltage 0-10V dimming control
- Driver and surge suppressor are mounted to a prewired tray with quick disconnects that may be removed from the gear compartment

**CERTIFICATIONS**

- ETL listed under UL 1598 and CSA C22.2 No. 250.0-08 for wet locations

**WARRANTY**

- 5 year warranty

**HOUSING**

| PROL2- LK |                        | LED Quantity |        | Lumen output |                           | CCT/CRI |                               | Distribution |               | Finish              |                              |
|-----------|------------------------|--------------|--------|--------------|---------------------------|---------|-------------------------------|--------------|---------------|---------------------|------------------------------|
| PROL2- LK | Providence Upgrade Kit | 72L          | 72 LED | 270          | 450mA Microcore Crossover | AMB     | Amber-595nm Peak <sup>1</sup> | 1            | Type I        | BLS                 | Black Gloss Smooth           |
|           |                        |              |        | 335          | 335mA, 9000 Lumens        | 3K7     | 3000K, 70 CRI                 | 2            | Type II       | BLT                 | Black Matte Textured         |
|           |                        |              |        | 425          | 700mA Microcore Crossover | 4K7     | 4000K, 70 CRI                 | 3            | Type III      | DBS                 | Dark Bronze Gloss Smooth     |
|           |                        |              |        | 500          | 500mA, 13000 Lumens       | 5K7     | 5000K, 70 CRI                 | 4W           | Type IV Wide  | DBT                 | Dark Bronze Matte Textured   |
|           |                        |              |        | 700          | 700mA, 17000 Lumens       |         |                               | 5Q           | Type V Square | GTT                 | Graphite Matte Textured      |
|           |                        |              |        |              |                           |         |                               | 5W           | Type V Wide   | LGS                 | Light Grey Gloss Smooth      |
|           |                        |              |        |              |                           |         |                               |              |               | LGT                 | Light Grey Matte Textured    |
|           |                        |              |        |              |                           |         |                               |              |               | PSS                 | Platinum Silver Gloss Smooth |
|           |                        |              |        |              |                           |         |                               |              |               | VGT                 | Verde Green Matte Textured   |
|           |                        |              |        |              |                           |         |                               |              |               | WHS                 | White Gloss Smooth           |
|           |                        |              |        |              |                           |         |                               |              |               | WHT                 | White Matte Textured         |
|           |                        |              |        |              |                           |         |                               |              |               | <b>Color Option</b> |                              |
|           |                        |              |        |              |                           |         |                               |              |               | CC <sup>2</sup>     | Custom Color                 |

| Options |                        | Voltage |          |
|---------|------------------------|---------|----------|
| SF      | Single Fuse (120, 277) | UNV     | 120-277V |
| DF      | Double Fuse (208, 240) |         |          |

Notes:

- 1 Turtle friendly
- 2 Consult factory custom color, marine and corrosive finish options

**DELIVERED LUMENS**

The table below shows the delivered lumens for the various lumen outputs and beam distributions. Use this chart in connection with the lumen factor (LF) capability to deliver any output required.

| LED #    | Drive Current | Lumen Package                   | Lens  | Distribution | 3000K 70CRI |            |      |       | 4000K 70CRI     |       |            |      | 5000K 70CRI |                 |       |            |      |       |                 |       |
|----------|---------------|---------------------------------|-------|--------------|-------------|------------|------|-------|-----------------|-------|------------|------|-------------|-----------------|-------|------------|------|-------|-----------------|-------|
|          |               |                                 |       |              | Lumen       | Bug Rating |      |       | Efficacy (Lm/W) | Lumen | Bug Rating |      |             | Efficacy (Lm/W) | Lumen | Bug Rating |      |       | Efficacy (Lm/W) |       |
|          |               |                                 |       |              |             |            |      |       |                 |       |            |      |             |                 |       |            |      |       |                 |       |
| 72       | 270           | 450mA<br>Microcore<br>Crossover | None  | 1            | 7028        | 1          | 0    | 1     | 116.1           | 7277  | 1          | 0    | 1           | 120.3           | 7533  | 1          | 0    | 1     | 124.5           |       |
|          |               |                                 |       | 2            | 6764        | 1          | 0    | 2     | 111.8           | 7004  | 1          | 0    | 2           | 115.8           | 7251  | 1          | 0    | 2     | 119.8           |       |
|          |               |                                 |       | 3            | 6824        | 1          | 0    | 2     | 112.8           | 7066  | 1          | 0    | 2           | 116.8           | 7315  | 1          | 0    | 2     | 120.9           |       |
|          |               |                                 |       | 4W           | 6898        | 1          | 0    | 2     | 114.0           | 7143  | 1          | 0    | 2           | 118.0           | 7394  | 1          | 0    | 2     | 122.2           |       |
|          |               |                                 |       | 1-HS         | 3806        | 0          | 0    | 1     | 62.9            | 3941  | 0          | 0    | 1           | 65.1            | 4079  | 0          | 0    | 1     | 67.4            |       |
|          |               |                                 |       | 2-HS         | 3144        | 0          | 0    | 1     | 52.0            | 3255  | 0          | 0    | 1           | 53.8            | 3370  | 0          | 0    | 1     | 55.7            |       |
|          |               |                                 |       | 3-HS         | 3191        | 0          | 0    | 1     | 52.7            | 3305  | 0          | 0    | 1           | 54.6            | 3421  | 0          | 0    | 1     | 56.5            |       |
|          |               |                                 | 4W-HS | 2782         | 0           | 0          | 1    | 46.0  | 2881            | 0     | 0          | 1    | 47.6        | 2982            | 0     | 0          | 1    | 49.3  |                 |       |
|          |               |                                 | 5Q    | 7322         | 3           | 0          | 1    | 121.0 | 7582            | 3     | 0          | 1    | 125.3       | 7849            | 3     | 0          | 1    | 129.7 |                 |       |
|          |               |                                 | 5W    | 6904         | 3           | 0          | 1    | 114.1 | 7149            | 3     | 0          | 2    | 118.2       | 7401            | 3     | 0          | 2    | 122.3 |                 |       |
|          |               |                                 | Clear | 1-CL         | 5271        | 1          | 0    | 1     | 87.1            | 5458  | 1          | 0    | 1           | 90.2            | 5650  | 1          | 0    | 1     | 93.4            |       |
|          |               |                                 |       | 2-CL         | 5073        | 1          | 0    | 1     | 83.9            | 5253  | 1          | 0    | 1           | 86.8            | 5438  | 1          | 0    | 1     | 89.9            |       |
|          |               |                                 |       | 3-CL         | 5118        | 1          | 0    | 2     | 84.6            | 5300  | 1          | 0    | 2           | 87.6            | 5486  | 1          | 0    | 2     | 90.7            |       |
|          |               |                                 |       | 4W-CL        | 5174        | 1          | 0    | 2     | 85.5            | 5357  | 1          | 0    | 2           | 88.5            | 5546  | 1          | 0    | 2     | 91.7            |       |
|          | 1-CL-HS       | 2854                            |       | 0            | 0           | 1          | 47.2 | 2955  | 0               | 0     | 1          | 48.8 | 3059        | 0               | 0     | 1          | 50.6 |       |                 |       |
|          | 2-CL-HS       | 2358                            |       | 0            | 0           | 1          | 39.0 | 2441  | 0               | 0     | 1          | 40.4 | 2527        | 0               | 0     | 1          | 41.8 |       |                 |       |
|          | 3-CL-HS       | 2393                            |       | 0            | 0           | 1          | 39.6 | 2478  | 0               | 0     | 1          | 41.0 | 2566        | 0               | 0     | 1          | 42.4 |       |                 |       |
|          | 4W-CL-HS      | 2087                            | 0     | 0            | 1           | 34.5       | 2161 | 0     | 0               | 1     | 35.7       | 2237 | 0           | 0               | 1     | 37.0       |      |       |                 |       |
|          | 5Q-CL         | 5491                            | 2     | 0            | 1           | 90.8       | 5686 | 2     | 0               | 1     | 94.0       | 5886 | 2           | 0               | 1     | 97.3       |      |       |                 |       |
|          | 5W-CL         | 5178                            | 3     | 0            | 1           | 85.6       | 5362 | 3     | 0               | 1     | 88.6       | 5550 | 3           | 0               | 1     | 91.7       |      |       |                 |       |
|          | Diffused      | 3-DL                            | 4218  | 1            | 0           | 1          | 55.7 | 4368  | 1               | 0     | 1          | 57.7 | 4521        | 1               | 0     | 1          | 74.7 |       |                 |       |
|          |               | 5W-DL                           | 4268  | 2            | 0           | 1          | 56.4 | 4419  | 2               | 0     | 1          | 58.4 | 4574        | 2               | 0     | 1          | 75.6 |       |                 |       |
|          | 335           | 9000                            |       | None         | 1           | 8507       | 1    | 0     | 1               | 112.4 | 8809       | 1    | 0           | 1               | 116.4 | 9119       | 1    | 0     | 1               | 119.9 |
|          |               |                                 |       |              | 2           | 8188       | 2    | 0     | 2               | 108.2 | 8479       | 2    | 0           | 2               | 112.0 | 8777       | 2    | 0     | 2               | 116.0 |
|          |               |                                 |       |              | 3           | 8261       | 1    | 0     | 2               | 109.4 | 8554       | 1    | 0           | 2               | 113.3 | 8855       | 2    | 0     | 2               | 116.4 |
|          |               |                                 |       |              | 4W          | 8351       | 1    | 0     | 2               | 110.3 | 8647       | 1    | 0           | 2               | 114.2 | 8951       | 1    | 0     | 2               | 117.5 |
|          |               |                                 |       |              | 1-HS        | 4607       | 0    | 0     | 1               | 60.9  | 4770       | 0    | 0           | 1               | 63.0  | 4938       | 0    | 0     | 1               | 65.1  |
|          |               |                                 |       |              | 2-HS        | 3805       | 0    | 0     | 1               | 50.3  | 3940       | 0    | 0           | 1               | 52.1  | 4079       | 0    | 0     | 1               | 54.1  |
| 3-HS     |               |                                 |       |              | 3863        | 0          | 0    | 1     | 51.0            | 4000  | 0          | 0    | 1           | 52.8            | 4141  | 0          | 0    | 1     | 54.9            |       |
| 4W-HS    |               |                                 |       | 3368         | 0           | 0          | 1    | 44.5  | 3487            | 0     | 0          | 1    | 46.1        | 3610            | 0     | 0          | 1    | 47.8  |                 |       |
| 5Q       |               |                                 |       | 8864         | 3           | 0          | 1    | 117.1 | 9178            | 3     | 0          | 1    | 121.3       | 9501            | 3     | 0          | 1    | 125.5 |                 |       |
| 5W       |               |                                 |       | 8358         | 3           | 0          | 2    | 110.4 | 8654            | 3     | 0          | 2    | 114.3       | 8959            | 3     | 0          | 2    | 118.6 |                 |       |
| Clear    |               |                                 |       | 1-CL         | 6380        | 1          | 0    | 1     | 84.3            | 6607  | 1          | 0    | 1           | 87.3            | 6839  | 1          | 0    | 1     | 90.3            |       |
|          |               |                                 |       | 2-CL         | 6141        | 1          | 0    | 1     | 81.1            | 6359  | 1          | 0    | 1           | 84.0            | 6583  | 1          | 0    | 1     | 87.0            |       |
|          |               |                                 |       | 3-CL         | 6196        | 1          | 0    | 2     | 81.8            | 6415  | 1          | 0    | 2           | 84.7            | 6641  | 1          | 0    | 2     | 88.1            |       |
|          |               |                                 |       | 4W-CL        | 6263        | 1          | 0    | 2     | 82.7            | 6485  | 1          | 0    | 2           | 85.7            | 6713  | 1          | 0    | 2     | 88.7            |       |
|          | 1-CL-HS       | 3455                            | 0     | 0            | 1           | 45.6       | 3577 | 0     | 0               | 1     | 47.3       | 3703 | 0           | 0               | 1     | 48.9       |      |       |                 |       |
|          | 2-CL-HS       | 2854                            | 0     | 0            | 1           | 37.7       | 2955 | 0     | 0               | 1     | 39.0       | 3059 | 0           | 0               | 1     | 40.4       |      |       |                 |       |
|          | 3-CL-HS       | 2897                            | 0     | 0            | 1           | 38.3       | 3000 | 0     | 0               | 1     | 39.6       | 3106 | 0           | 0               | 1     | 41.0       |      |       |                 |       |
| 4W-CL-HS | 2526          | 0                               | 0     | 1            | 33.4        | 2615       | 0    | 0     | 1               | 34.5  | 2707       | 0    | 0           | 1               | 35.8  |            |      |       |                 |       |
| 5Q-CL    | 6647          | 3                               | 0     | 1            | 87.8        | 6883       | 3    | 0     | 1               | 90.9  | 7125       | 3    | 0           | 1               | 94.1  |            |      |       |                 |       |
| 5W-CL    | 6268          | 3                               | 0     | 1            | 82.8        | 6491       | 3    | 0     | 1               | 85.7  | 6719       | 3    | 0           | 1               | 88.8  |            |      |       |                 |       |
| Diffused | 3-DL          | 5064                            | 1     | 0            | 1           | 66.9       | 5243 | 1     | 0               | 1     | 69.3       | 5428 | 1           | 0               | 1     | 71.7       |      |       |                 |       |
|          | 5W-DL         | 5208                            | 2     | 0            | 1           | 68.8       | 5393 | 2     | 0               | 1     | 71.2       | 5583 | 2           | 0               | 1     | 73.9       |      |       |                 |       |

**DELIVERED LUMENS**

The table below shows the delivered lumens for the various lumen outputs and beam distributions. Use this chart in connection with the lumen factor (LF) capability to deliver any output required.

| LED #    | Drive Current | Lumen Package                   | Lens | Distribution | 3000K 70CRI |            |      |      | 4000K 70CRI     |       |            |      | 5000K 70CRI |                 |       |            |      |   |                 |       |
|----------|---------------|---------------------------------|------|--------------|-------------|------------|------|------|-----------------|-------|------------|------|-------------|-----------------|-------|------------|------|---|-----------------|-------|
|          |               |                                 |      |              | Lumen       | Bug Rating |      |      | Efficacy (Lm/W) | Lumen | Bug Rating |      |             | Efficacy (Lm/W) | Lumen | Bug Rating |      |   | Efficacy (Lm/W) |       |
|          |               |                                 |      |              |             |            |      |      |                 |       |            |      |             |                 |       |            |      |   |                 |       |
| 72       | 425           | 700mA<br>Microcore<br>Crossover | None | 1            | 10329       | 1          | 0    | 1    | 107.6           | 10695 | 1          | 0    | 1           | 111.4           | 11072 | 1          | 0    | 1 | 115.3           |       |
|          |               |                                 |      | 2            | 9941        | 2          | 0    | 2    | 103.6           | 10294 | 2          | 0    | 2           | 107.2           | 10656 | 2          | 0    | 2 | 111.0           |       |
|          |               |                                 |      | 3            | 10030       | 2          | 0    | 2    | 104.5           | 10386 | 2          | 0    | 2           | 108.2           | 10751 | 2          | 0    | 2 | 112.0           |       |
|          |               |                                 |      | 4W           | 10139       | 2          | 0    | 2    | 105.6           | 10498 | 2          | 0    | 3           | 109.4           | 10868 | 2          | 0    | 3 | 113.2           |       |
|          |               |                                 |      | 1-HS         | 5593        | 0          | 0    | 1    | 58.3            | 5792  | 0          | 0    | 1           | 60.3            | 5995  | 0          | 0    | 1 | 62.5            |       |
|          |               |                                 |      | 2-HS         | 4620        | 0          | 0    | 1    | 48.1            | 4784  | 0          | 0    | 1           | 49.8            | 4952  | 0          | 0    | 1 | 51.6            |       |
|          |               |                                 |      | 3-HS         | 4690        | 0          | 0    | 1    | 48.9            | 4857  | 0          | 0    | 1           | 50.6            | 5028  | 0          | 0    | 1 | 52.4            |       |
|          |               |                                 |      | 4W-HS        | 4089        | 0          | 0    | 1    | 42.6            | 4234  | 1          | 0    | 1           | 44.1            | 4383  | 1          | 0    | 1 | 45.7            |       |
|          |               |                                 |      | 5Q           | 10762       | 3          | 0    | 1    | 112.1           | 11143 | 3          | 0    | 1           | 116.1           | 11535 | 3          | 0    | 1 | 120.2           |       |
|          |               |                                 |      | 5W           | 10148       | 4          | 0    | 2    | 105.7           | 10508 | 4          | 0    | 2           | 109.5           | 10877 | 4          | 0    | 2 | 113.3           |       |
|          |               |                                 |      | Clear        | 1-CL        | 7746       | 1    | 0    | 1               | 80.7  | 8021       | 1    | 0           | 1               | 83.6  | 8303       | 1    | 0 | 1               | 86.5  |
|          |               |                                 |      |              | 2-CL        | 7456       | 1    | 0    | 2               | 77.7  | 7720       | 1    | 0           | 2               | 80.4  | 7992       | 1    | 0 | 2               | 83.2  |
|          |               |                                 |      |              | 3-CL        | 7522       | 1    | 0    | 2               | 78.4  | 7789       | 1    | 0           | 2               | 81.1  | 8063       | 1    | 0 | 2               | 84.0  |
|          |               |                                 |      |              | 4W-CL       | 7604       | 1    | 0    | 2               | 79.2  | 7873       | 1    | 0           | 2               | 82.0  | 8150       | 1    | 0 | 2               | 84.9  |
|          | 1-CL-HS       | 4195                            | 0    |              | 0           | 1          | 43.7 | 4343 | 0               | 0     | 1          | 45.2 | 4496        | 0               | 0     | 1          | 46.8 |   |                 |       |
|          | 2-CL-HS       | 3465                            | 0    |              | 0           | 1          | 36.1 | 3588 | 0               | 0     | 1          | 37.4 | 3714        | 0               | 0     | 1          | 38.7 |   |                 |       |
|          | 3-CL-HS       | 3518                            | 0    |              | 0           | 1          | 36.6 | 3642 | 0               | 0     | 1          | 37.9 | 3771        | 0               | 0     | 1          | 39.3 |   |                 |       |
|          | 4W-CL-HS      | 3067                            | 0    |              | 0           | 1          | 31.9 | 3175 | 0               | 0     | 1          | 33.1 | 3287        | 0               | 0     | 1          | 34.2 |   |                 |       |
|          | 5Q-CL         | 8071                            | 3    |              | 0           | 1          | 84.1 | 8357 | 3               | 0     | 1          | 87.1 | 8651        | 3               | 0     | 1          | 90.1 |   |                 |       |
|          | 5W-CL         | 7610                            | 3    |              | 0           | 2          | 79.3 | 7880 | 3               | 0     | 2          | 82.1 | 8158        | 3               | 0     | 2          | 85.0 |   |                 |       |
|          | Diffused      | 3-DL                            | 6199 | 2            | 0           | 1          | 64.6 | 6419 | 2               | 0     | 2          | 66.9 | 6645        | 2               | 0     | 2          | 69.2 |   |                 |       |
|          |               | 5W-DL                           | 6272 | 2            | 0           | 1          | 65.3 | 6494 | 2               | 0     | 1          | 67.7 | 6723        | 2               | 0     | 1          | 70.0 |   |                 |       |
|          | 500           | 13000                           |      | None         | 1           | 11907      | 1    | 0    | 1               | 104.2 | 12330      | 2    | 0           | 1               | 107.9 | 12764      | 2    | 0 | 1               | 111.7 |
|          |               |                                 |      |              | 2           | 11461      | 2    | 0    | 2               | 100.3 | 11867      | 2    | 0           | 2               | 103.8 | 12285      | 2    | 0 | 2               | 107.5 |
|          |               |                                 |      |              | 3           | 11563      | 2    | 0    | 2               | 101.2 | 11973      | 2    | 0           | 2               | 104.7 | 12394      | 2    | 0 | 2               | 108.4 |
|          |               |                                 |      |              | 4W          | 11688      | 2    | 0    | 3               | 102.2 | 12103      | 2    | 0           | 3               | 105.9 | 12528      | 2    | 0 | 3               | 109.6 |
|          |               |                                 |      |              | 1-HS        | 6448       | 0    | 0    | 1               | 56.4  | 6677       | 0    | 0           | 1               | 58.4  | 6912       | 1    | 0 | 1               | 60.5  |
|          |               |                                 |      |              | 2-HS        | 5326       | 0    | 0    | 1               | 46.6  | 5515       | 0    | 0           | 1               | 48.2  | 5709       | 0    | 0 | 1               | 49.9  |
| 3-HS     |               |                                 |      |              | 5407        | 1          | 0    | 1    | 47.3            | 5599  | 1          | 0    | 1           | 49.0            | 5796  | 1          | 0    | 1 | 50.7            |       |
| 4W-HS    |               |                                 |      |              | 4714        | 1          | 0    | 1    | 41.2            | 4881  | 1          | 0    | 1           | 42.7            | 5053  | 1          | 0    | 1 | 44.2            |       |
| 5Q       |               |                                 |      |              | 12406       | 3          | 0    | 2    | 108.5           | 12846 | 3          | 0    | 2           | 112.4           | 13298 | 3          | 0    | 2 | 116.3           |       |
| 5W       |               |                                 |      |              | 11698       | 4          | 0    | 2    | 102.3           | 12113 | 4          | 0    | 2           | 106.0           | 12540 | 4          | 0    | 2 | 109.7           |       |
| Clear    |               |                                 |      |              | 1-CL        | 8930       | 1    | 0    | 1               | 78.1  | 9247       | 1    | 0           | 1               | 80.9  | 9572       | 1    | 0 | 1               | 83.7  |
|          |               |                                 |      |              | 2-CL        | 8595       | 2    | 0    | 2               | 75.2  | 8900       | 2    | 0           | 2               | 77.9  | 9213       | 2    | 0 | 2               | 80.6  |
|          |               |                                 |      |              | 3-CL        | 8672       | 1    | 0    | 2               | 75.9  | 8979       | 2    | 0           | 2               | 78.6  | 9295       | 2    | 0 | 2               | 81.3  |
|          |               |                                 |      |              | 4W-CL       | 8766       | 1    | 0    | 2               | 76.7  | 9077       | 2    | 0           | 2               | 79.4  | 9396       | 2    | 0 | 2               | 82.2  |
|          |               | 1-CL-HS                         | 4836 | 0            | 0           | 1          | 42.3 | 5007 | 0               | 0     | 1          | 43.8 | 5183        | 0               | 0     | 1          | 45.3 |   |                 |       |
|          |               | 2-CL-HS                         | 3995 | 0            | 0           | 1          | 34.9 | 4136 | 0               | 0     | 1          | 36.2 | 4282        | 0               | 0     | 1          | 37.5 |   |                 |       |
|          |               | 3-CL-HS                         | 4055 | 0            | 0           | 1          | 35.5 | 4199 | 0               | 0     | 1          | 36.7 | 4347        | 0               | 0     | 1          | 38.0 |   |                 |       |
|          |               | 4W-CL-HS                        | 3535 | 0            | 0           | 1          | 30.9 | 3661 | 0               | 0     | 1          | 32.0 | 3789        | 0               | 0     | 1          | 33.2 |   |                 |       |
|          |               | 5Q-CL                           | 9304 | 3            | 0           | 1          | 81.4 | 9634 | 3               | 0     | 1          | 84.3 | 9973        | 3               | 0     | 1          | 87.2 |   |                 |       |
|          |               | 5W-CL                           | 8773 | 3            | 0           | 2          | 76.8 | 9085 | 3               | 0     | 2          | 79.5 | 9404        | 3               | 0     | 2          | 82.3 |   |                 |       |
| Diffused |               | 3-DL                            | 7147 | 2            | 0           | 2          | 62.5 | 7400 | 2               | 0     | 2          | 64.7 | 7660        | 2               | 0     | 2          | 67.0 |   |                 |       |
|          |               | 5W-DL                           | 7231 | 2            | 0           | 1          | 63.3 | 7487 | 2               | 0     | 1          | 65.5 | 7750        | 3               | 0     | 1          | 67.8 |   |                 |       |

**DELIVERED LUMENS CONTINUED**

The table below shows the delivered lumens for the various lumen outputs and beam distributions. Use this chart in connection with the lumen factor (LF) capability to deliver any output required.

| LED # | Drive Current | Lumen Package | Lens     | Distribution | 3000K 70CRI |            |   |   | 4000K 70CRI     |       |            |   | 5000K 70CRI |                 |       |            |   |   |                 |      |
|-------|---------------|---------------|----------|--------------|-------------|------------|---|---|-----------------|-------|------------|---|-------------|-----------------|-------|------------|---|---|-----------------|------|
|       |               |               |          |              | Lumen       | Bug Rating |   |   | Efficacy (Lm/W) | Lumen | Bug Rating |   |             | Efficacy (Lm/W) | Lumen | Bug Rating |   |   | Efficacy (Lm/W) |      |
|       |               |               |          |              |             |            |   |   |                 |       |            |   |             |                 |       |            |   |   |                 |      |
| 72    | 700           | 17000         | None     | 1            | 15594       | 2          | 0 | 1 | 97.6            | 16147 | 2          | 0 | 2           | 101.0           | 16715 | 2          | 0 | 2 | 104.6           |      |
|       |               |               |          | 2            | 15009       | 2          | 0 | 2 | 93.9            | 15541 | 2          | 0 | 2           | 97.3            | 16088 | 2          | 0 | 2 | 100.7           |      |
|       |               |               |          | 3            | 15142       | 2          | 0 | 3 | 94.8            | 15679 | 2          | 0 | 3           | 98.1            | 16231 | 2          | 0 | 3 | 101.6           |      |
|       |               |               |          | 4W           | 15306       | 2          | 0 | 3 | 95.8            | 15849 | 2          | 0 | 4           | 99.2            | 16407 | 2          | 0 | 4 | 102.7           |      |
|       |               |               |          | 1-HS         | 8444        | 1          | 0 | 1 | 52.8            | 8744  | 1          | 0 | 1           | 54.7            | 9051  | 1          | 0 | 1 | 56.6            |      |
|       |               |               |          | 2-HS         | 6975        | 1          | 0 | 1 | 43.7            | 7223  | 1          | 0 | 1           | 45.2            | 7477  | 1          | 0 | 1 | 46.8            |      |
|       |               |               |          | 3-HS         | 7081        | 1          | 0 | 2 | 44.3            | 7332  | 1          | 0 | 2           | 45.9            | 7590  | 1          | 0 | 2 | 47.5            |      |
|       |               |               |          | 4W-HS        | 6173        | 1          | 0 | 1 | 38.6            | 6392  | 1          | 0 | 1           | 40.0            | 6617  | 1          | 0 | 1 | 41.4            |      |
|       |               |               |          | 5Q           | 16247       | 4          | 0 | 2 | 101.7           | 16823 | 4          | 0 | 2           | 105.3           | 17415 | 4          | 0 | 2 | 109.0           |      |
|       |               |               |          | 5W           | 15320       | 4          | 0 | 2 | 95.9            | 15863 | 4          | 0 | 2           | 99.3            | 16422 | 4          | 0 | 2 | 102.8           |      |
|       |               |               |          | Clear        | 1-CL        | 11695      | 1 | 0 | 1               | 73.2  | 12110      | 2 | 0           | 1               | 75.8  | 12536      | 2 | 0 | 1               | 78.5 |
|       |               |               |          |              | 2-CL        | 11256      | 2 | 0 | 2               | 70.4  | 11655      | 2 | 0           | 2               | 72.9  | 12066      | 2 | 0 | 2               | 75.5 |
|       |               |               |          |              | 3-CL        | 11356      | 2 | 0 | 2               | 71.1  | 11759      | 2 | 0           | 2               | 73.6  | 12173      | 2 | 0 | 2               | 76.2 |
|       |               |               |          |              | 4W-CL       | 11479      | 2 | 0 | 3               | 71.8  | 11886      | 2 | 0           | 3               | 74.4  | 12305      | 2 | 0 | 3               | 77.0 |
|       |               |               |          |              | 1-CL-HS     | 6333       | 0 | 0 | 1               | 39.6  | 6557       | 0 | 0           | 1               | 41.0  | 6788       | 1 | 0 | 1               | 42.5 |
|       |               |               | 2-CL-HS  |              | 5231        | 0          | 0 | 1 | 32.7            | 5417  | 0          | 0 | 1           | 33.9            | 5607  | 0          | 0 | 1 | 35.1            |      |
|       |               |               | 3-CL-HS  |              | 5311        | 1          | 0 | 1 | 33.2            | 5499  | 1          | 0 | 1           | 34.4            | 5693  | 1          | 0 | 1 | 35.6            |      |
|       |               |               | 4W-CL-HS |              | 4630        | 1          | 0 | 1 | 29.0            | 4794  | 1          | 0 | 1           | 30.0            | 4963  | 1          | 0 | 1 | 31.1            |      |
|       |               |               | 5Q-CL    |              | 12185       | 3          | 0 | 2 | 76.3            | 12617 | 3          | 0 | 2           | 79.0            | 13061 | 3          | 0 | 2 | 81.7            |      |
|       |               |               | 5W-CL    |              | 11490       | 4          | 0 | 2 | 71.9            | 11897 | 4          | 0 | 2           | 74.5            | 12316 | 4          | 0 | 2 | 77.1            |      |
|       |               |               | Diffused | 3-DL         | 9359        | 2          | 0 | 2 | 58.6            | 9691  | 2          | 0 | 2           | 60.6            | 10032 | 2          | 0 | 2 | 62.8            |      |
|       |               |               |          | 5W-DL        | 9469        | 3          | 0 | 2 | 59.3            | 9805  | 3          | 0 | 2           | 61.4            | 10150 | 3          | 0 | 2 | 63.5            |      |

**PHOTOMETRY**

**PROL2-72L-700-4K7-1**

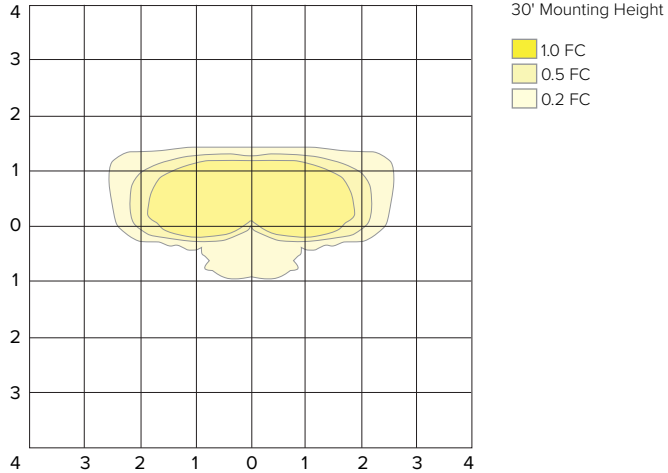
**LUMINAIRE DATA**

|                  |                    |
|------------------|--------------------|
| Description      | 4000 Kelvin, 70CRI |
| Delivered Lumens | 16,147             |
| Watts            | 159.8              |
| Efficacy         | 101.0              |
| IES Type         | I                  |
| BUG Rating       | B2-U0-G2           |
| Mounting Height  | 30 ft              |
| Grid Scale       | 30 ft              |

**ZONAL LUMEN SUMMARY**

| Zone                 | Lumens | % Luminaire |
|----------------------|--------|-------------|
| Downward Street Side | 13906  | 86%         |
| Downward House Side  | 2241   | 14%         |
| Downward Total       | 16147  | 100%        |
| Upward Street Side   | 0      | 0%          |
| Upward House Side    | 0      | 0%          |
| Upward Total         | 0      | 0%          |
| Total Flux           | 16147  | 100%        |

**ISOFOOT CANDLE PLOT**



**PROL2-72L-700-4K7-2**

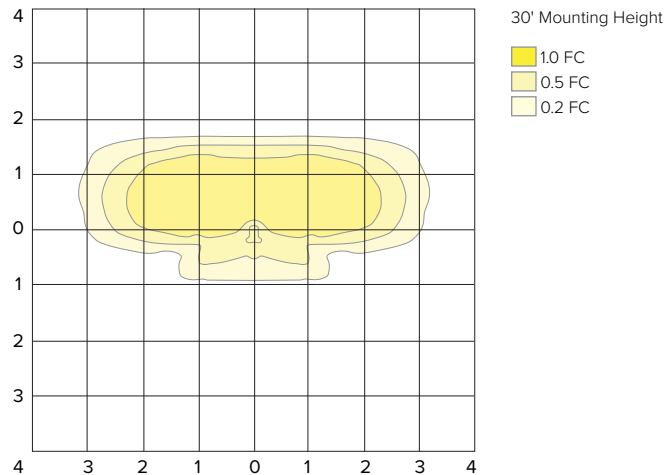
**LUMINAIRE DATA**

|                  |                    |
|------------------|--------------------|
| Description      | 4000 Kelvin, 70CRI |
| Delivered Lumens | 15,541             |
| Watts            | 159.8              |
| Efficacy         | 97.3               |
| IES Type         | II                 |
| BUG Rating       | B2-U0-G2           |
| Mounting Height  | 30 ft              |
| Grid Scale       | 30 ft              |

**ZONAL LUMEN SUMMARY**

| Zone                 | Lumens | % Luminaire |
|----------------------|--------|-------------|
| Downward Street Side | 12779  | 82%         |
| Downward House Side  | 2762   | 18%         |
| Downward Total       | 15541  | 100%        |
| Upward Street Side   | 0      | 0%          |
| Upward House Side    | 0      | 0%          |
| Upward Total         | 0      | 0%          |
| Total Flux           | 15541  | 100%        |

**ISOFOOT CANDLE PLOT**



**PROL2-72L-700-4K7-3**

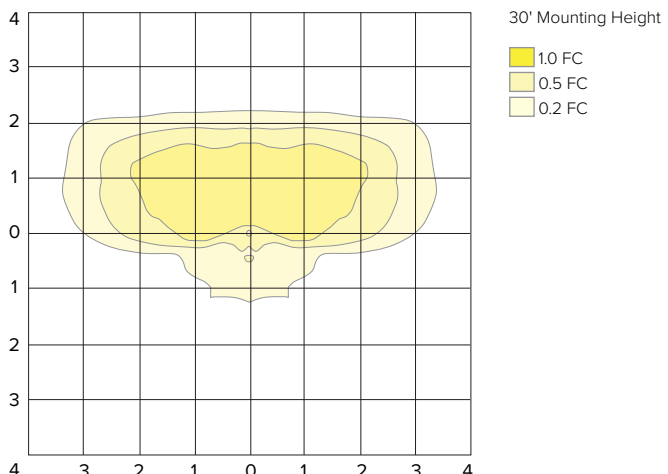
**LUMINAIRE DATA**

|                  |                    |
|------------------|--------------------|
| Description      | 4000 Kelvin, 70CRI |
| Delivered Lumens | 15,679             |
| Watts            | 159.8              |
| Efficacy         | 98.1               |
| IES Type         | III                |
| BUG Rating       | B2-U0-G3           |
| Mounting Height  | 30 ft              |
| Grid Scale       | 30 ft              |

**ZONAL LUMEN SUMMARY**

| Zone                 | Lumens | % Luminaire |
|----------------------|--------|-------------|
| Downward Street Side | 13203  | 84%         |
| Downward House Side  | 2476   | 16%         |
| Downward Total       | 15679  | 100%        |
| Upward Street Side   | 0      | 0%          |
| Upward House Side    | 0      | 0%          |
| Upward Total         | 0      | 0%          |
| Total Flux           | 15679  | 100%        |

**ISOFOOT CANDLE PLOT**



**PHOTOMETRY**

**PROL2-72L-700-4K7-4W**

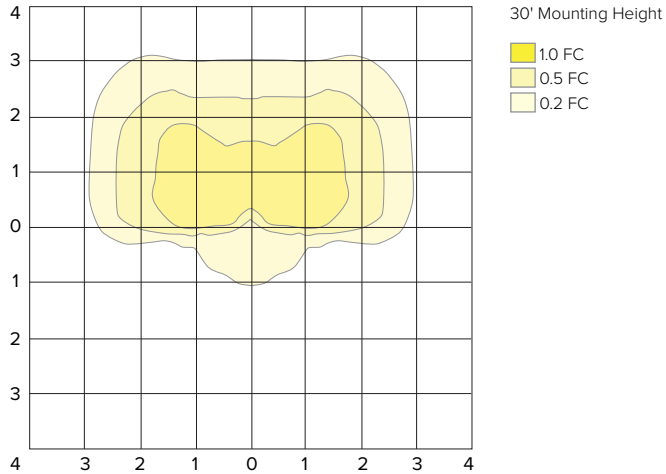
**LUMINAIRE DATA**

|                  |                    |
|------------------|--------------------|
| Description      | 4000 Kelvin, 70CRI |
| Delivered Lumens | 17,103             |
| Watts            | 159.8              |
| Efficacy         | 99.2               |
| IES Type         | IV Wide            |
| BUG Rating       | B2-U0-G4           |
| Mounting Height  | 30 ft              |
| Grid Scale       | 30 ft              |

**ZONAL LUMEN SUMMARY**

| Zone                 | Lumens | % Luminaire |
|----------------------|--------|-------------|
| Downward Street Side | 13774  | 87%         |
| Downward House Side  | 2076   | 13%         |
| Downward Total       | 15850  | 100%        |
| Upward Street Side   | 0      | 0%          |
| Upward House Side    | 0      | 0%          |
| Upward Total         | 0      | 0%          |
| Total Flux           | 15850  | 100%        |

**ISOFOOT CANDLE PLOT**



**PROL2-72L-700-4K7-5Q**

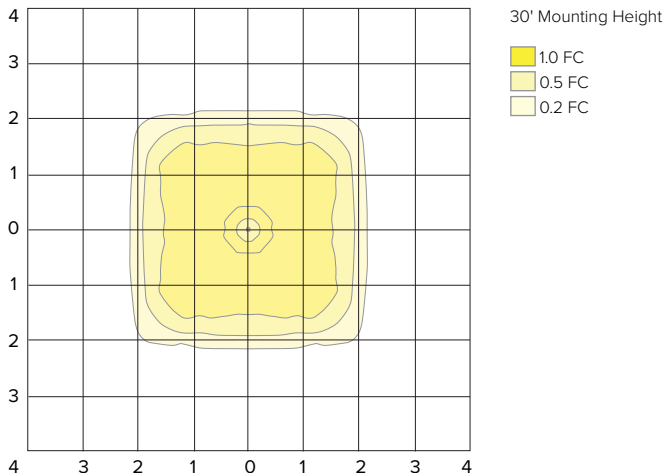
**LUMINAIRE DATA**

|                  |                    |
|------------------|--------------------|
| Description      | 4000 Kelvin, 70CRI |
| Delivered Lumens | 16,824             |
| Watts            | 159.8              |
| Efficacy         | 105.3              |
| IES Type         | VS                 |
| BUG Rating       | B4-U0-G2           |
| Mounting Height  | 30 ft              |
| Grid Scale       | 30 ft              |

**ZONAL LUMEN SUMMARY**

| Zone                 | Lumens | % Luminaire |
|----------------------|--------|-------------|
| Downward Street Side | 8412   | 50%         |
| Downward House Side  | 8412   | 50%         |
| Downward Total       | 16824  | 100%        |
| Upward Street Side   | 0      | 0%          |
| Upward House Side    | 0      | 0%          |
| Upward Total         | 0      | 0%          |
| Total Flux           | 16824  | 100%        |

**ISOFOOT CANDLE PLOT**



**PROL2-72L-700-4K7-5W**

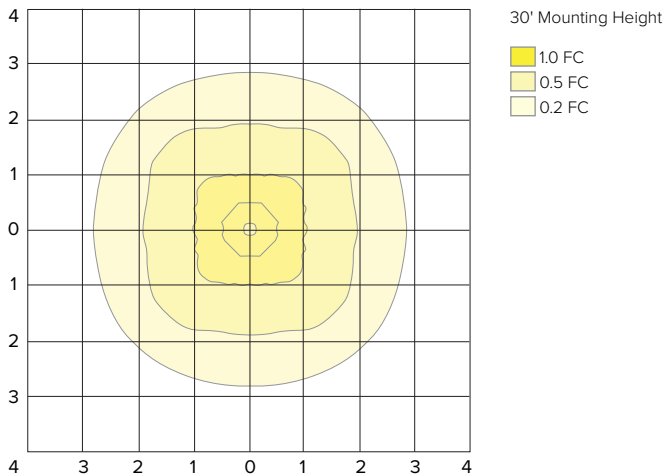
**LUMINAIRE DATA**

|                  |                    |
|------------------|--------------------|
| Description      | 4000 Kelvin, 70CRI |
| Delivered Lumens | 15,863             |
| Watts            | 159.8              |
| Efficacy         | 99.3               |
| IES Type         | VS                 |
| BUG Rating       | B4-U0-G2           |
| Mounting Height  | 30 ft              |
| Grid Scale       | 30 ft              |

**ZONAL LUMEN SUMMARY**

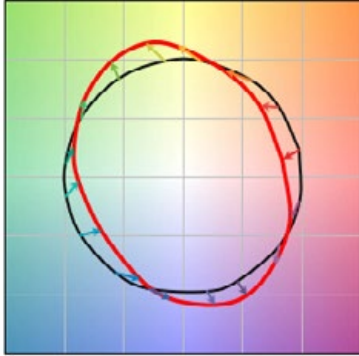
| Zone                 | Lumens | % Luminaire |
|----------------------|--------|-------------|
| Downward Street Side | 7932   | 50%         |
| Downward House Side  | 7932   | 50%         |
| Downward Total       | 15863  | 100%        |
| Upward Street Side   | 0      | 0%          |
| Upward House Side    | 0      | 0%          |
| Upward Total         | 0      | 0%          |
| Total Flux           | 15863  | 100%        |

**ISOFOOT CANDLE PLOT**



**TM-30 DATA**

**COLOR VECTOR GRAPHIC**

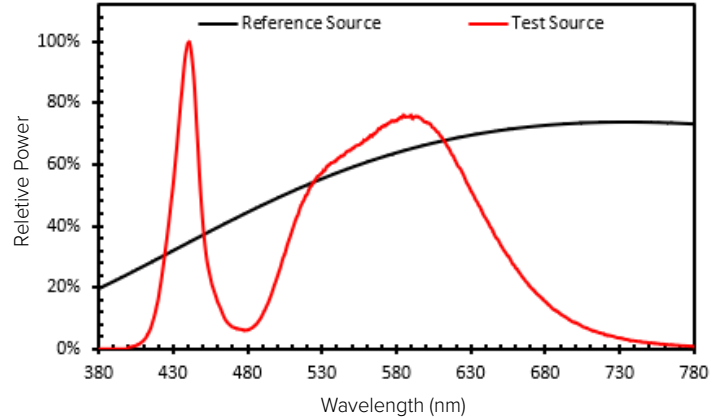


— Reference Illuminant — Test Source

**TEST SOURCE**

| MBM TEST RESULTS |        |
|------------------|--------|
| CCT (K)          | 3947   |
| CIE Ra           | 72     |
| Duv              | 0.0004 |
| x                | 0.3831 |
| y                | 0.3793 |
| Rf               | 68     |
| Rg               | 99     |

**SPECTRAL POWER DISTRIBUTION COMPARISON**



**ELECTRICAL DATA**

| Light Engine | Electrical     |              |              |       |         |      |      |      | Dimming           |             |               |                             |     |                                     |     |
|--------------|----------------|--------------|--------------|-------|---------|------|------|------|-------------------|-------------|---------------|-----------------------------|-----|-------------------------------------|-----|
|              | System Current | System Watts | Line Voltage |       | Amps AC |      |      |      | Min. Power Factor | Max THD (%) | Dimming Range | Source current out of 0-10V |     | Absolute voltage range on 0-10V (+) |     |
|              |                |              | VAC          | HZ    | 120     | 208  | 240  | 277  |                   |             |               | Min                         | Max | Min                                 | Max |
| 72           | 270 mA         | 60.51        | 120-277      | 50/60 | 0.50    | 0.29 | 0.25 | 0.22 | >0.9              | 20          | 10% to 100%   | 0mA                         | 1mA | 0V                                  | 10V |
|              | 335 mA         | 75.7         |              |       | 0.63    | 0.36 | 0.32 | 0.27 |                   |             |               |                             |     |                                     |     |
|              | 425 mA         | 96           |              |       | 0.80    | 0.46 | 0.40 | 0.35 |                   |             |               |                             |     |                                     |     |
|              | 500 mA         | 114.3        |              |       | 0.95    | 0.55 | 0.48 | 0.41 |                   |             |               |                             |     |                                     |     |
|              | 700 mA         | 159.8        |              |       | 1.33    | 0.77 | 0.67 | 0.58 |                   |             |               |                             |     |                                     |     |

| TM-21 LIFETIME CALCULATION - PROJECTED LUMEN MAINTENANCE (25°C / 77°F) |      |        |        |        |         |              |
|--|------|--------|--------|--------|---------|--------------|
| HOURS  | 0    | 25,000 | 36,000 | 50,000 | 100,000 | REPORTED L70 |
| Projected Lumen Maintenance  | 100% | 98.1%  | 96.9%  | 95.6%  | 90.7%   | > 60,000     |

| AMBER MULTIPLIER |            |
|------------------|------------|
| CCT              | MULTIPLIER |
| 5000K            | 1          |
| AM               | 0.1727     |

| 2700K MULTIPLIER |            |
|------------------|------------|
| CCT              | MULTIPLIER |
| 5000K            | 1          |
| 2700K            | 0.897      |

| LENS OPTION MULTIPLIER |               |
|------------------------|---------------|
| CLEAR LENS             | DIFFUSED LENS |
| 0.7499                 | 0.618         |