

# R-Xm24-WK

## MID-HIGH OUTPUT | XM24 RETROFIT MODULE WHIP KIT

PROJECT \_\_\_\_\_

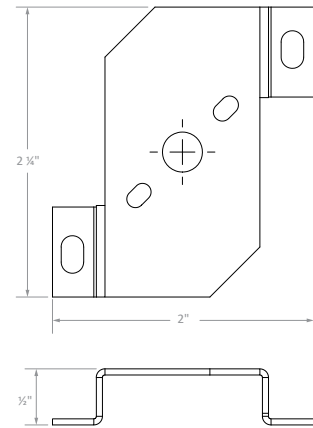
TYPE \_\_\_\_\_

SPECIFICATION \_\_\_\_\_

- Made-to-order product\*
  - Retrofit GU24 Base Whip Kit designed to replace T6 and T4 ceramic metal halide downlights. Testing complete for:
    - Kurt Versen Downlight Models:
      - XR6 106 — Type KGA
      - XR6 107 — Type KGA
      - XR6 605 — Type KGA
  - 120 V
  - 0-10 V\*, Triac and ELV dimming
  - 50,000 Hours (L70)
  - Integrated driver
  - UL Certification *pending*
  - RoHs-compliant
  - Dry location rating
  - Contain no lead or mercury
  - **VioLight** and **\*MonoWhite** color rendering enhancements available
  - \* 90+ High CRI available.
- To order, replace 'K' in CCT designation with 'h' in code below



KGA Model Bracket Details



### Ordering Information

Example: R-Xm24/GGG/25/30K/2400/BK/WK/HL

| Fixture | Type       | Beam Spread | CCT / Lumens           | Finish                   | Kit           | Options   |
|---------|------------|-------------|------------------------|--------------------------|---------------|---|
| R-Xm24  | JJJ<br>KGA | COB-optic   | 25K* / 1400            | WH - White<br>BK - Black | WK - Whip Kit | HL - Honeycomb Louver<br>SL - Linear Spread<br>SP - Prismatic Spread<br>SS - Solite Spread<br>SF - Frosted Spread<br>More Accessories Available |
|         |            | 15c         | 27K / 1550             |                          |               |   |
|         |            | 25c         | 30K / 1600             |                          |               |   |
|         |            | 40c         | 30m* / 1600            |                          |               |   |
|         |            | 60c         | 35K* / 1600            |                          |               |   |
|         |            |             | 35m* / 1600            |                          |               |   |
|         |            |             | 40K* / 1600            |                          |               |   |
|         |            |             | 25K* / 2000            |                          |               |   |
|         |            |             | 27K / 2000             |                          |               |   |
|         |            |             | 30K / 2000             |                          |               |   |
|         |            |             | 30m* / 2000            |                          |               |   |
|         |            |             | 35K* / 2000            |                          |               |   |
|         |            |             | 35m* / 2000            |                          |               |   |
|         |            |             | 40K* / 2000            |                          |               |   |
|         |            | Multi-optic | 30v / 1850             |                          |               |   |
|         |            | 15          | 27K / 2300 <b>DLC</b>  |                          |               |   |
|         |            | 25          | 30K / 2400 <b>DLC</b>  |                          |               |   |
|         |            | 40          | 35K* / 2400 <b>DLC</b> |                          |               |   |
|         |            | 60          | 40K* / 2400 <b>DLC</b> |                          |               |   |
|         |            |             | 27K / 3000             |                          |               |   |
|         |            |             | 30K / 3000             |                          |               |   |
|         |            |             | 35K* / 3000            |                          |               |   |
|         |            |             | 40K* / 3000            |                          |               |   |

# R-Xm24-WK

## MID-HIGH OUTPUT | XM24 RETROFIT MODULE WHIP KIT

PROJECT

TYPE

SPECIFICATION

PHOTOMETRIC DETAILS | baseline X output multiplier X cri-cct multiplier = final output

### COB OPTIC: Baseline data for 22 W, 2000 lumens, 80+ CRI, 3000K

#### Xm24/15c/30K/2000

|              |           |
|--------------|-----------|
| Input Power: | 22.5 W    |
| Lumens:      | 1868 lm   |
| Efficacy:    | 82.9 lm/W |
| Beam Angle:  | 19.2°     |
| Field Angle: | 49.1°     |

| ∠   | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7831 | 7831 | 7831 |
| 5°  | 6438 | 6425 | 6339 |
| 10° | 3671 | 3628 | 3524 |
| 15° | 1830 | 1823 | 1789 |
| 20° | 1088 | 1090 | 1069 |
| 25° | 726  | 736  | 709  |
| 30° | 501  | 516  | 496  |
| 35° | 342  | 353  | 344  |
| 40° | 233  | 238  | 236  |
| 45° | 157  | 160  | 163  |

#### Xm24/25c/30K/2000

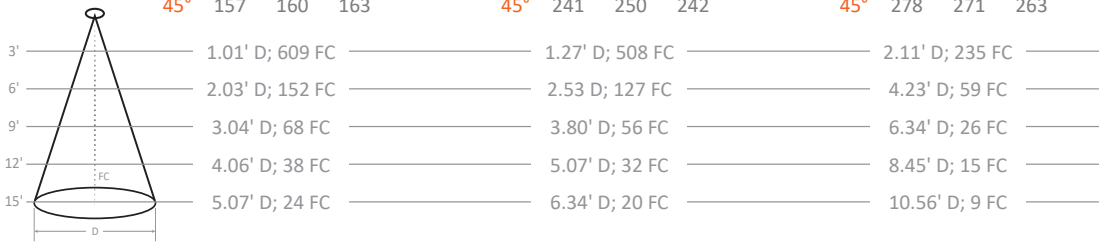
|              |            |
|--------------|------------|
| Input Power: | 21.9 W     |
| Lumens:      | 2200 lm    |
| Efficacy:    | 100.3 lm/W |
| Beam Angle:  | 23.9°      |
| Field Angle: | 59.8°      |

| ∠   | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6529 | 6529 | 6529 |
| 5°  | 5797 | 5759 | 5621 |
| 10° | 4014 | 3962 | 3803 |
| 15° | 2347 | 2286 | 2202 |
| 20° | 1369 | 1344 | 1311 |
| 25° | 904  | 894  | 874  |
| 30° | 646  | 642  | 628  |
| 35° | 458  | 465  | 453  |
| 40° | 332  | 341  | 331  |
| 45° | 241  | 250  | 242  |

#### Xm24/40c/30K/2000

|              |           |
|--------------|-----------|
| Input Power: | 22.2 W    |
| Lumens:      | 2013 lm   |
| Efficacy:    | 90.9 lm/W |
| Beam Angle:  | 38.8°     |
| Field Angle: | 85.9°     |

| ∠   | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3023 | 3023 | 3023 |
| 5°  | 2893 | 2871 | 2848 |
| 10° | 2530 | 2476 | 2437 |
| 15° | 2026 | 1961 | 1911 |
| 20° | 1511 | 1447 | 1402 |
| 25° | 1073 | 1023 | 987  |
| 30° | 749  | 716  | 690  |
| 35° | 527  | 507  | 491  |
| 40° | 380  | 368  | 357  |
| 45° | 278  | 271  | 263  |



### OUTPUT MULTIPLIER

| Package                        | Optic | Multiplier |
|--------------------------------|-------|------------|
| 18 W<br>1600 lm<br>Xm24<br>COB | 15°   | 0.80       |
|                                | 25°   | 0.80       |
|                                | 40°   | 0.79       |

### CRI-CCT MULTIPLIER

| CRI              | CCT   | Multiplier |
|------------------|-------|------------|
| 80<br>(80+)      | 2200K | 0.86       |
|                  | 2500K | 0.91       |
|                  | 2700K | 0.96       |
|                  | 3000K | 1.00       |
|                  | 3500K | 1.03       |
| 90<br>(90+)      | 4000K | 1.05       |
|                  | 2200K | 0.70       |
|                  | 2500K | 0.77       |
|                  | 2700K | 0.83       |
| M<br>(MonoWhite) | 3000K | 0.86       |
|                  | 3500K | 0.89       |
|                  | 4000K | 0.91       |
| V<br>(VioLight)  | 3000K | 0.88       |

### MULTI-OPTIC: Baseline data for 26 W, 2400 lumens, 80+ CRI, 3000K

#### Xm24/15/30K/2400

|              |            |
|--------------|------------|
| Input Power: | 26.4 W     |
| Lumens:      | 2636 lm    |
| Efficacy:    | 100.0 lm/W |
| Beam Angle:  | 14.8°      |
| Field Angle: | 26.1°      |

| ∠   | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 32012 | 32012 | 32012 |
| 5°  | 23079 | 22740 | 22414 |
| 10° | 7807  | 8170  | 8147  |
| 15° | 1905  | 1732  | 1527  |
| 20° | 642   | 512   | 463   |
| 25° | 268   | 253   | 255   |
| 30° | 157   | 151   | 150   |
| 35° | 99    | 91    | 89    |
| 40° | 72    | 66    | 62    |
| 45° | 55    | 52    | 51    |

#### Xm24/25/30K/2400

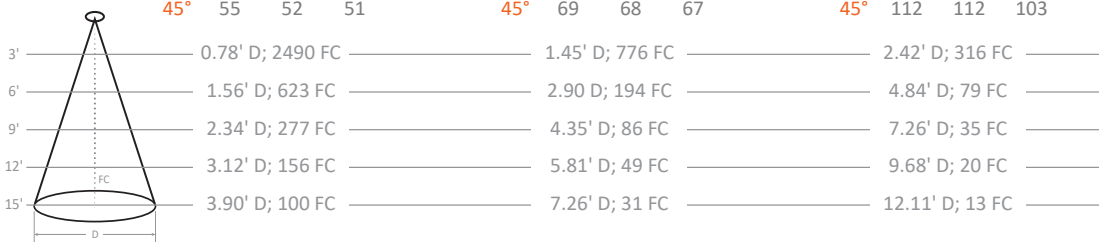
|              |           |
|--------------|-----------|
| Input Power: | 26.4 W    |
| Lumens:      | 2573 lm   |
| Efficacy:    | 97.4 lm/W |
| Beam Angle:  | 27.2°     |
| Field Angle: | 48.4°     |

| ∠   | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9977 | 9977 | 9977 |
| 5°  | 9134 | 9161 | 9195 |
| 10° | 6880 | 6928 | 6963 |
| 15° | 4125 | 4130 | 4112 |
| 20° | 1967 | 1951 | 1931 |
| 25° | 824  | 797  | 783  |
| 30° | 367  | 340  | 323  |
| 35° | 191  | 172  | 164  |
| 40° | 111  | 103  | 99   |
| 45° | 69   | 68   | 67   |

#### Xm24/40/30K/2400

|              |           |
|--------------|-----------|
| Input Power: | 26.4 W    |
| Lumens:      | 2385 lm   |
| Efficacy:    | 90.5 lm/W |
| Beam Angle:  | 44.0°     |
| Field Angle: | 71.7°     |

| ∠   | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4057 | 4057 | 4057 |
| 5°  | 4083 | 3943 | 3829 |
| 10° | 3913 | 3706 | 3506 |
| 15° | 3452 | 3328 | 3021 |
| 20° | 2599 | 2596 | 2302 |
| 25° | 1651 | 1710 | 1532 |
| 30° | 913  | 969  | 889  |
| 35° | 456  | 488  | 459  |
| 40° | 221  | 238  | 225  |
| 45° | 112  | 112  | 103  |



### OUTPUT MULTIPLIER

| Package                                | Optic | Multiplier |
|--|-------|------------|
| 20 W<br>1850 lm<br>Xm24<br>Multi-optic | 15°   | 0.70       |
|  | 25°   | 0.72       |
|  | 40°   | 0.78       |

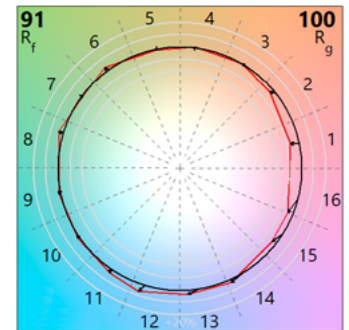
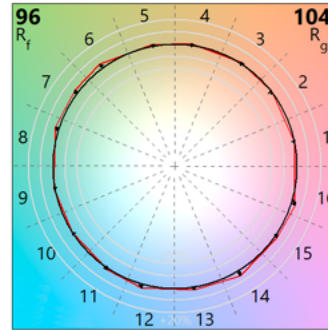
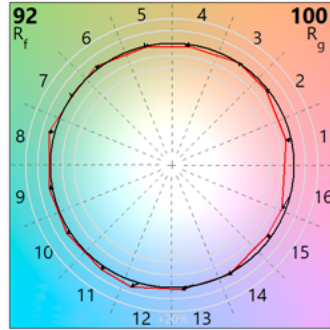
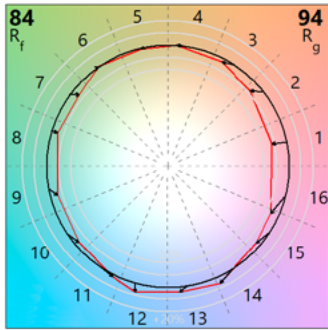
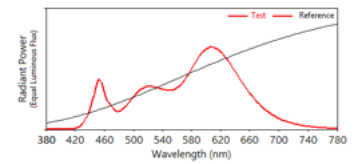
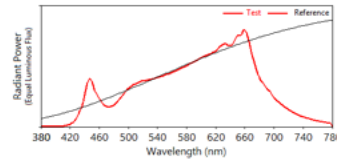
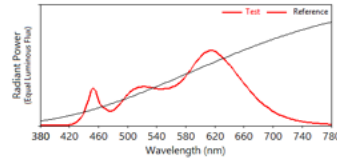
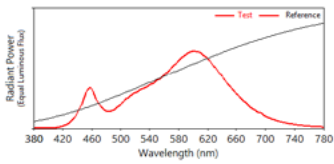
| Package                                | Optic | Multiplier |
|--|-------|------------|
| 28 W<br>3000 lm<br>Xm24<br>Multi-optic | 15°   | 1.13       |
|  | 25°   | 1.17       |
|  | 40°   | 1.12       |

# R-Xm24-WK

## MID-HIGH OUTPUT | XM24 RETROFIT MODULE WHIP KIT

### TM30 COLOR REPORTS

- 3000K with 80+ CRI
  - $R_f = 84$ ;  $R_g = 94$
  - $R_A = 82$ ;  $R_g = 11$
- 3000K with 90+ CRI
  - $R_f = 92$ ;  $R_g = 100$
  - $R_A = 93$ ;  $R_g = 56$
- 3000K with 97+ CRI
  - $R_f = 96$ ;  $R_g = 104$
  - $R_A = 97$ ;  $R_g = 98$
- 3000K with MonoWhite
  - $R_f = 91$ ;  $R_g = 100$
  - $R_A = 91$ ;  $R_g = 42$



**WARNING:** Not for use in fully enclosed luminaires. Risk of electric shock. Use in an indoor, dry location only. This device is not intended for use with emergency exit fixtures or emergency exit lights. May not be compatible with all dimmers; please visit [solais.com/dimming](http://solais.com/dimming) for up-to-date dimmer compatibility information.

**NOTES:** This device complies with Part 15 of the FCC Rule. This product may cause interference with other devices. If interference occurs, change the locations of the products involved. **Compatible on 120v systems.**



Luxiance utilizes active cooling to remove heat from the LED system - allowing Solais LED lamps to operate cooler, resulting in superior life, light output, and performance.



X-CHANGEABLE

X-Changeable is our all-in-one technology that incorporates the optics, LEDs, driver and power within a replaceable module. This allows you to change the lumen output, color temperature, beam angle and trim color with ease.



THEROTTLER

Thermal Throttle – In the event that Solais products begin to overheat, they will undetectably dim unthemselves to protect your technology investments.



VIOLIGHT™

VioLight radiates superior quality, enhancing colors in merchandise, making colors more vibrant and offering a truly competitive LED replacement for CMH-like crispness.