

# Stretta ST2A

ADJUSTABLE 3"  
LED ARCHITECTURAL DOWNLIGHT

PROJECT \_\_\_\_\_

TYPE \_\_\_\_\_

SPECIFICATION \_\_\_\_\_

The Stretta universal downlight offers the highest output from the smallest aperture. **Stretta** is an Italian phrase meaning "narrow" and "tight", it refers to a musical composition performed with an acceleration in tempo to end in a crescendo. Solais created this light fixture with the perfect combination of features resulting in a sleek, minimalist downlight that makes a statement: elegance in simplicity.



Round and square with beveled flange shown above.

## MAIN FEATURES

- Universal 4" height housing for all trim types
- Forgiving rotating alignment tabs for perfect installation
- Tool-less and intuitive "hot" aiming
- 40° tilt and 360° rotation for optimal adjustability
- Magnetic arm for tool-less module installation
- Built-in accessory holder for field-replaceable lenses and louvers
- Trims/collars embedded with magnetic poles for easy installation
- Notched collars for easy, precise alignment during installation
- Field-swappable modules
- Fully dimmable
- Enhanced 2-step MacAdams Ellipse color binning standard
- New construction ceilings only
- Tool-less driver assembly

## POWER SUPPLIES

- Universal Input for all drivers: 120 - 277 Vac
- Proprietary Solais Driver (See page 4 for more info)
  - TRIAC, ELV, or 0-10 V Dimming down to 1%
- Lutron Hi-lume® ([click for more info](#))
  - Dimming down to 1.0% with Lutron controls
- eldoLED SOLOdrive® ([click for more info](#))
  - 0-10 V Dimming down to 0.1%

## RATINGS + CERTIFICATIONS

- IC rated
- UL listed for dry and damp locations
- UL listed for wet locations with lensed trim or wall wash trim
- Spray foam rated
- Chicago Plenum rated
- Title 24 and JA8 compliant
- Airtight per ASTM E283
- Conforms to Washington State Energy Code
- Contain no lead or mercury



## TRIM OFFERINGS

- Shapes: Round or Square
- Ceilings: gypsum, wood, specialty
- Thicknesses: 3/8" gypsum, 3/4" for millwork, up to 1 3/8" for specialty

## TRIM TYPES

- Beveled with 3/8" flange or flangeless
- Flat-pinhole with 3/8" flange or flangeless
- Adjustable with 3/8" flange or flangeless

## TRIM COLORS

- Perfect White: RAL 9003
- Black: RAL 9005
- Brown: RAL 8017
- Silver: "brushed aluminum" look
- Primer

## PERFORMANCE

- Input Power and Delivered Lumens
  - 13 W; 900 lumens
  - 15 W; 1200 lumens
  - 19 W; 1400 lumens
  - 25 W; 2000 lumens

## BEAM SPREADS

- |             |             |
|-------------|-------------|
| • VNSP - 9° | • NFL - 24° |
| • NSP - 14° | • FL - 35°  |
| • SP - 19°  | • WFL - 60° |

## COLOR RENDERING

- 80+, 90+ or 97+ CRI
- MonoWhite: Solais' exclusive color enhancing technology that intensifies contrast, brightens whites and makes colors pop by bridging the cyan color gap with higher gamut color rendering

## COLOR TEMPERATURES

- Standard: 2200K, 2500K, 2700K, 3000K, 3500K or 4000K
- MonoWhite: 3000K or 3500K
- Dim to Warm: 3000K to 1800K

# Stretta ST2A

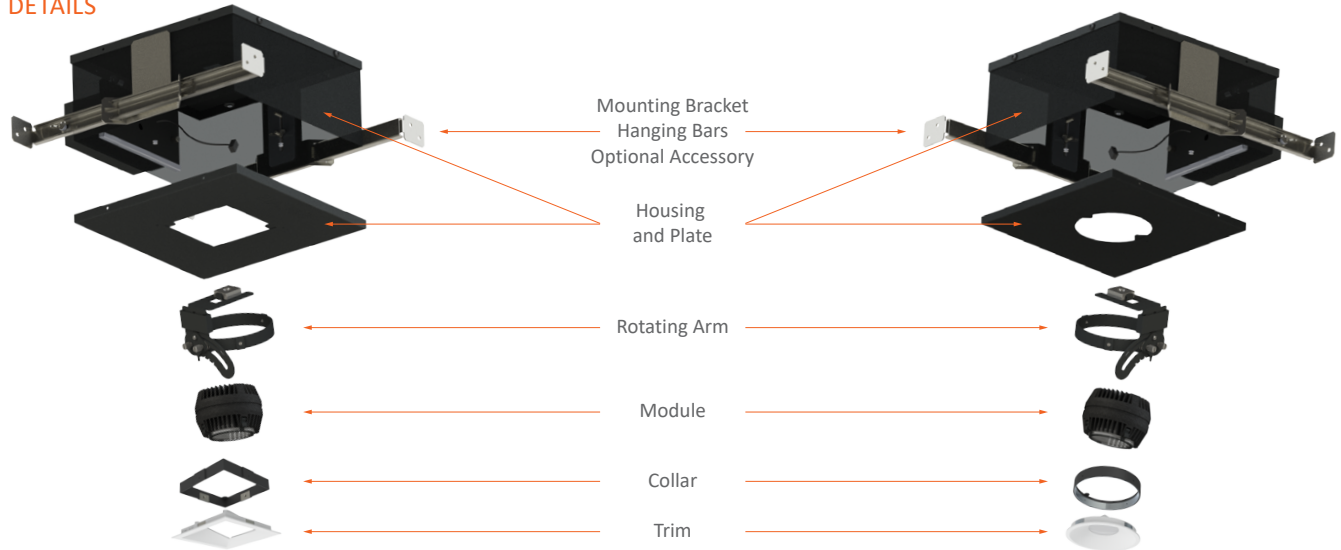
ADJUSTABLE 3"  
LED ARCHITECTURAL DOWNLIGHT

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## COMPONENT DETAILS



## ORDERING INFORMATION

Example: ST2RA/1/BD/PW/NFL/H27/1200/UNV/EM-HL-LT

| Fixture         | Ceiling Thickness      | Trim                                              | Trim Cone Finish   | Beam Spread                              | CRI                           | CCT                   | Delivered Lumens        | Options + Accessories                          |
|-----------------|------------------------|---------------------------------------------------|--------------------|------------------------------------------|-------------------------------|-----------------------|-------------------------|------------------------------------------------|
| ST2RA<br>Round  | 1 - 3/8" (millwork)    | BD<br>Beveled Down with flange                    | PW - Perfect White | <sup>3</sup> VNSP - 9° (500 lumens only) | 8 - 80+                       | 22 - 2200K            | 500<br>(VNSP only)      | EM - Emergency Backup                          |
| ST2SA<br>Square | 2 - 3/4" (specialty)   | BDT<br>Beveled Down flangeless                    | BK - Black         | NSP - 14°                                | <sup>4</sup> 9 - 90+          | 25 - 2500K            | 900<br>(SP unavailable) | MB - Mounting Bracket<br>Hanging Bars          |
|                 | 3 - 1 3/8" (specialty) | <sup>5</sup> BA<br>Beveled Adjustable with flange | BR - Brown         | SP - 19°                                 | <sup>4</sup> H - 97+          | 27 - 2700K            | 1200                    | Module Accessories (Max 2)                     |
|                 | 4 - 1 5/8" (specialty) | <sup>5</sup> BAT<br>Beveled Adjustable flangeless | SV - Silver        | NFL - 24°                                |                               | 30 - 3000K            | 1400                    | HL - Honeycomb Louver                          |
|                 |                        | FD<br>Flat-pinhole Down with flange               | PR - Primer        | FL - 35°                                 |                               | 35 - 3500K            | 2000                    | UL - Ultraviolet Lens                          |
|                 |                        | FDT<br>Flat-pinhole Down flangeless               |                    | <sup>6</sup> WFL - 60°                   | <sup>24</sup> M - MonoWhite   | 30 - 3000K            |                         | SL - Solite Lens                               |
|                 |                        |                                                   |                    |                                          |                               | 35 - 3500K            |                         | CL - Clear Lens                                |
|                 |                        |                                                   |                    |                                          | <sup>12</sup> D - Dim to Warm | 3018 - 3000K to 1800K |                         | LL - Linear Spread Lens                        |
|                 |                        |                                                   |                    |                                          | 90+ CRI, 1400 lumens only     |                       |                         | *Color lenses available, CF                    |
|                 |                        |                                                   |                    |                                          |                               |                       |                         | Trim Options (Max 1)                           |
|                 |                        |                                                   |                    |                                          |                               |                       |                         | <sup>5</sup> ST - Solite Lens                  |
|                 |                        |                                                   |                    |                                          |                               |                       |                         | <sup>5</sup> FT - Frosted Lens                 |
|                 |                        |                                                   |                    |                                          |                               |                       |                         | CT - Clear Lens                                |
|                 |                        |                                                   |                    |                                          |                               |                       |                         | <sup>6</sup> WT - Wide Flood Lens              |
|                 |                        |                                                   |                    |                                          |                               |                       |                         | DTR2FA - 2" Frosted Acrylic<br>Decorative Trim |
|                 |                        |                                                   |                    |                                          |                               |                       |                         | for round pinhole                              |
|                 |                        |                                                   |                    |                                          |                               |                       |                         | DTS2FA - 2" Frosted Acrylic<br>Decorative Trim |
|                 |                        |                                                   |                    |                                          |                               |                       |                         | for square pinhole                             |

**Power Supply** (Univ 120 - 277 V)

UNV - Solais 1% Univ Dimming

ES1 - eldoLED SOLOdrive® 0.1% 0-10 V Dimming

LDE1 - Lutron Hi-lume® 1.0% Dimming with Lutron controls

\*Consult factory for lead time and availability

Notes: <sup>1</sup>Dim to Warm available with NFL, FL or WFL and 1400 lumens only.

<sup>2</sup>CRI specification unavailable with MonoWhite or Dim to Warm; 90+ CRI Standard.

<sup>3</sup>VNSP unavailable with MonoWhite or Dim to Warm.

<sup>4</sup>MonoWhite and High CRI products produce up to 20% less measured lumens than their standard CCT; Although, perceived lumens will be noticeably higher.

<sup>5</sup>ST and FT trim options available with BD, BDT, FD and FDT trims only; not available for BA and BAT trims.

<sup>6</sup>WFL Beam Spread is achieved with NFL optic and WT trim accessory; not available for BA and BAT trims.

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LED ARCHITECTURAL DOWNLIGHT

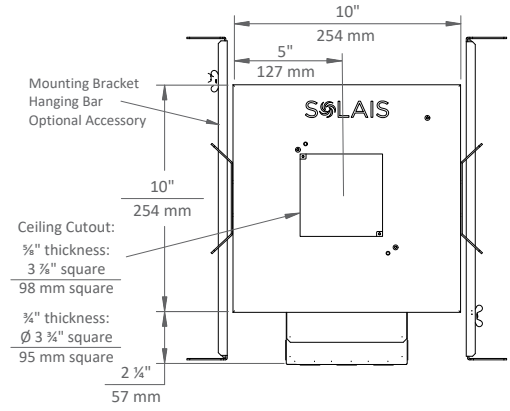
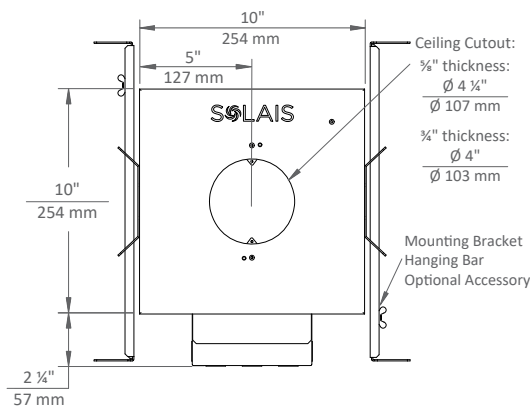
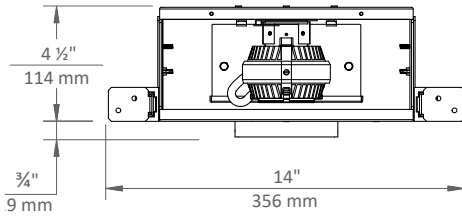
PROJECT

TYPE

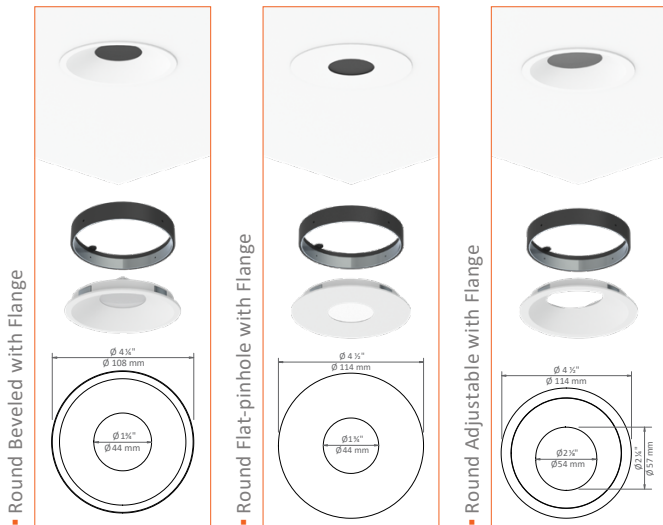
SPECIFICATION

## DIMENSIONAL DETAILS

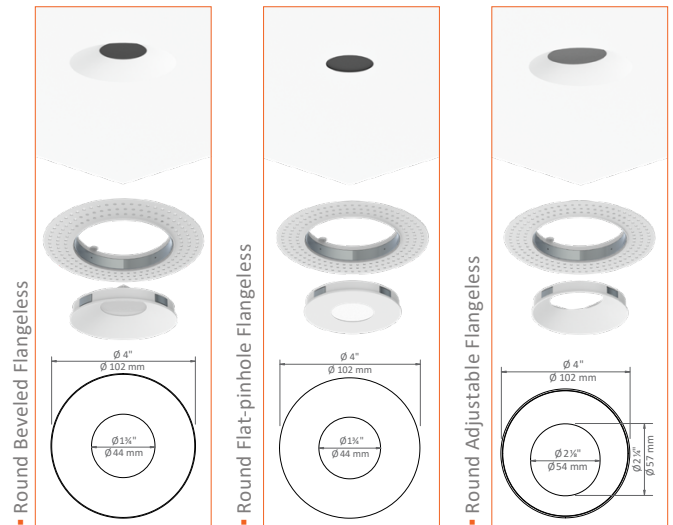
- Fixture Weight: 10.6 lb / 4.8 kg
- Hanging Bars: Optional Accessory  
14 1/8" / 359 mm Minimum  
25 3/4" / 654 mm Maximum



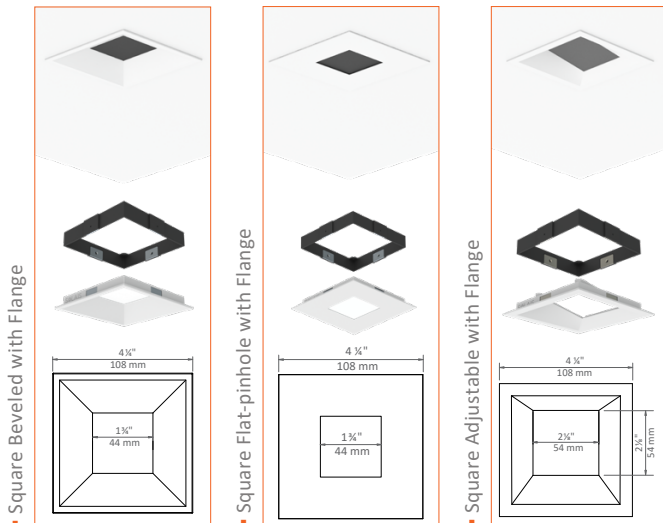
## ROUND FLANGED TRIM TYPES



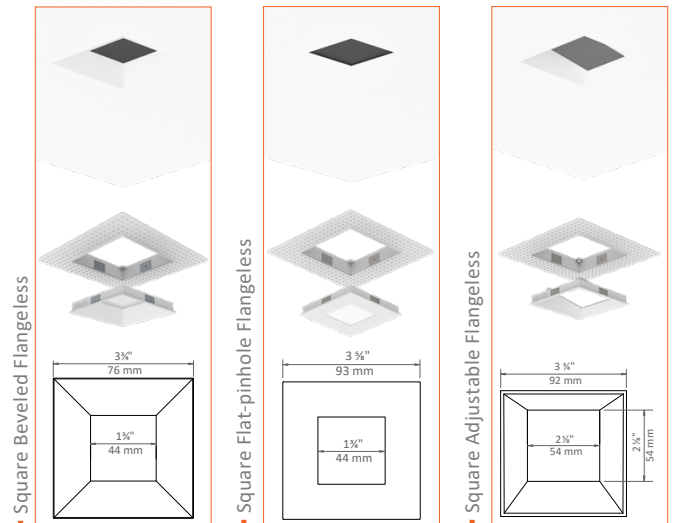
## ROUND FLANGELESS TRIM TYPES



## SQUARE FLANGED TRIM TYPES



## SQUARE FLANGELESS TRIM TYPES



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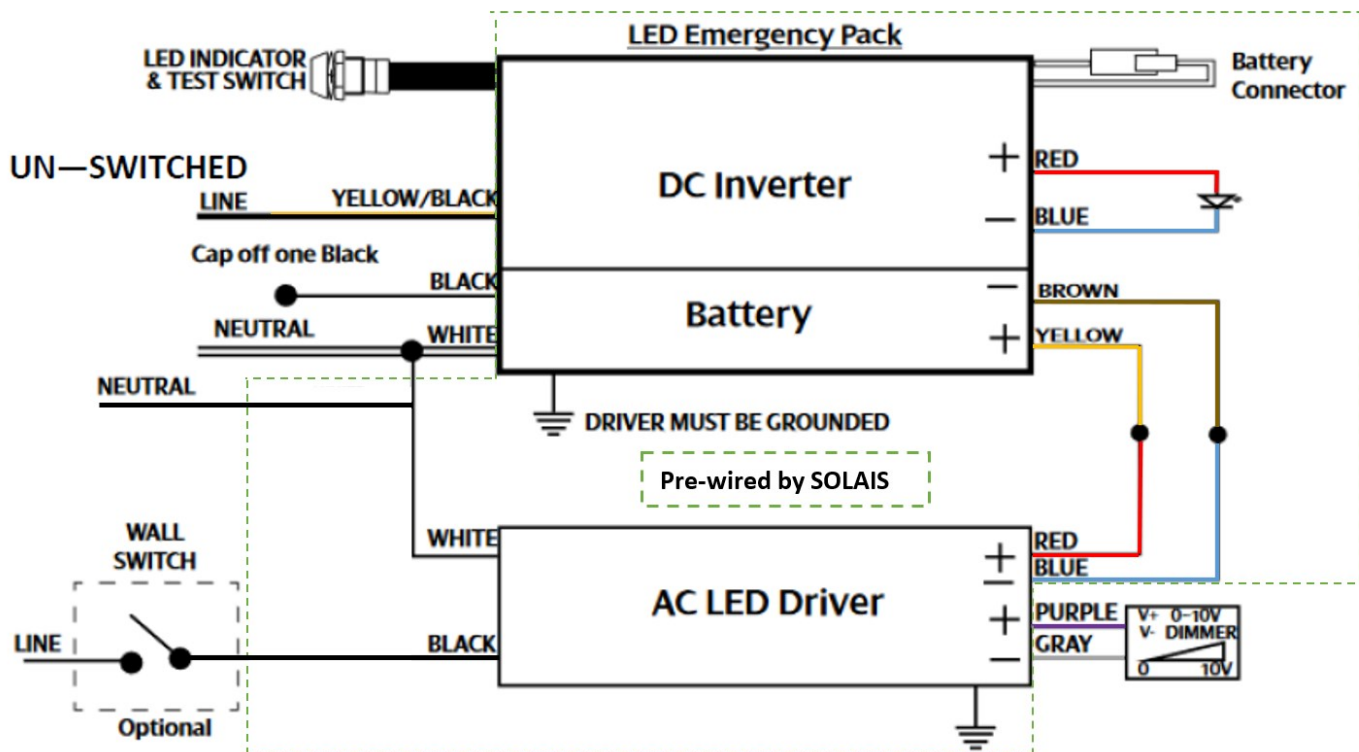
TYPE

SPECIFICATION

## SOLAIS PROPRIETARY DRIVER DETAILS (PS-25WUD1-A060)

- Universal Input: 120 - 277 Vac
- TRIAC, ELV, or 0-10 V Dimming down to 1%
- LED maintenance indicator for service efficiency
- Output Voltage: 30-40Vdc
- Output Current: 280mA / 340mA / 450mA / 600mA
- PF > 0.9
- THD < 20%
- Output Current Precision: +/- 5%
- Turn On Delay: < 0.5s
- Short Circuit Protection: Hiccup mode with self-recovery
- Over Temperature Protection:  
Reduction to 10% of output current when  $T_a > 75^{\circ}\text{C}$
- UL 5VA Polycarbonate housing
- 5 year warranty at  $T_c < 70^{\circ}\text{C}$
- Certifications: UL, FCC Part 15, CE, UL8750 Class 2, EN61000-4-5 Surge Immunity, 2.5kV
- Wire Length
  - L/N: UL1015 18AWG 10.5"
  - LED+/LED-: UL1015 18AWG 10.5"
  - DIM+/DIM-: UL1007 22AWG 10"
- Dimensions
  - 113 mm x 41.5 mm x 30 mm
  - 4.45" x 1.63" x 1.18"
- Temperature Range
  - Operating:  $-20^{\circ}$  to  $55^{\circ}\text{C}$ , 10-85% RH
  - Storage:  $-40^{\circ}$  to  $85^{\circ}\text{C}$ , 5-95% RH

## EMERGENCY BACKUP DETAILS



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

Baseline data shown below for 25 W, 2000 lumens, 80+ CRI , 3000K

## VNSP - 9° Very Narrow Spot

Input Power: 7.2 W  
Lumens: 604 lm  
Efficacy: 83.8 lm/W  
Beam Angle: 9.8°  
Field Angle: 20.6°

| ∠   | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12015 | 12015 | 12015 |
| 5°  | 5905  | 5904  | 5653  |
| 10° | 1264  | 1253  | 1269  |
| 15° | 490   | 494   | 512   |
| 20° | 193   | 200   | 210   |
| 25° | 82    | 85    | 88    |
| 30° | 40    | 41    | 40    |
| 35° | 21    | 22    | 20    |
| 40° | 10    | 11    | 10    |
| 45° | 1     | 2     | 1     |

## NSP - 14° Narrow Spot

Input Power: 24.1 W  
Lumens: 1949 lm  
Efficacy: 81 lm/W  
Beam Angle: 15.2°  
Field Angle: 31.7°

| ∠   | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 18506 | 18506 | 18506 |
| 5°  | 11935 | 13620 | 14967 |
| 10° | 4492  | 5560  | 6621  |
| 15° | 1888  | 2079  | 2354  |
| 20° | 793   | 933   | 1024  |
| 25° | 309   | 378   | 437   |
| 30° | 113   | 173   | 173   |
| 35° | 22    | 69    | 60    |
| 40° | 0     | 16    | 12    |
| 45° | 0     | 0     | 0     |

## SP - 19° Spot

Input Power: 25.3 W  
Lumens: 1783 lm  
Efficacy: 71 lm/W  
Beam Angle: 20.4°  
Field Angle: 44.8°

| ∠   | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9708 | 9708 | 9708 |
| 5°  | 8001 | 7992 | 8086 |
| 10° | 4692 | 4811 | 5067 |
| 15° | 2534 | 2559 | 2749 |
| 20° | 1363 | 1286 | 1497 |
| 25° | 676  | 587  | 699  |
| 30° | 307  | 239  | 286  |
| 35° | 114  | 78   | 82   |
| 40° | 31   | 19   | 16   |
| 45° | 0    | 0    | 0    |

## NFL - 24° Narrow Flood

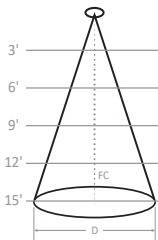
Input Power: 25.2 W  
Lumens: 1708 lm  
Efficacy: 68 lm/W  
Beam Angle: 26.3°  
Field Angle: 49.9°

| ∠   | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7139 | 7139 | 7139 |
| 5°  | 6593 | 6664 | 6589 |
| 10° | 5012 | 5066 | 4836 |
| 15° | 3123 | 3198 | 2972 |
| 20° | 1697 | 1609 | 1542 |
| 25° | 781  | 600  | 703  |
| 30° | 263  | 200  | 256  |
| 35° | 64   | 64   | 60   |
| 40° | 18   | 10   | 10   |
| 45° | 0    | 0    | 0    |

## FL - 35° Flood

Input Power: 25.2 W  
Lumens: 1777 lm  
Efficacy: 71 lm/W  
Beam Angle: 35.9°  
Field Angle: 64.3°

| ∠   | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4155 | 4155 | 4155 |
| 5°  | 4144 | 4113 | 3993 |
| 10° | 3701 | 3728 | 3550 |
| 15° | 2864 | 2952 | 2816 |
| 20° | 1884 | 2026 | 1955 |
| 25° | 1089 | 1213 | 1194 |
| 30° | 570  | 648  | 653  |
| 35° | 277  | 285  | 335  |
| 40° | 113  | 116  | 157  |
| 45° | 31   | 45   | 58   |



0.5' D; 1109 FC  
1' D; 277 FC  
1.5' D; 123 FC  
1.99' D; 69 FC  
2.49' D; 44 FC

0.8' D; 1439 FC  
1.6' D; 360 FC  
2.4' D; 160 FC  
3.2' D; 90 FC  
4' D; 58 FC

1.08' D; 755 FC  
2.17' D; 189 FC  
3.25' D; 84 FC  
4.34' D; 47 FC  
5.42' D; 30 FC

1.41' D; 555 FC  
2.81' D; 139 FC  
4.22' D; 62 FC  
5.63' D; 35 FC  
7.04' D; 22 FC

1.96' D; 323 FC  
3.92' D; 81 FC  
5.88' D; 36 FC  
7.84' D; 20 FC  
9.81' D; 13 FC

## OUTPUT MULTIPLIER

| Package         | Optic | Multiplier |
|-----------------|-------|------------|
| 19 W<br>1400 lm | NSP   | 0.78       |
|                 | SP    | 0.80       |
|                 | NFL   | 0.80       |
|                 | FL    | 0.80       |
| 15 W<br>1200 lm | NSP   | 0.63       |
|                 | SP    | 0.66       |
|                 | NFL   | 0.66       |
| 13 W<br>900 lm  | FL    | 0.66       |
|                 | NSP   | 0.47       |
|                 | NFL   | 0.47       |
|                 | FL    | 0.47       |

## CRI-CCT MULTIPLIER

| CRI        | CCT   | Multiplier |
|------------|-------|------------|
| 8<br>(80+) | 2200K | 0.86       |
|            | 2500K | 0.91       |
|            | 2700K | 0.96       |
|            | 3000K | 1.00       |
|            | 3500K | 1.03       |
|            | 4000K | 1.05       |
| 9<br>(90+) | 2200K | 0.70       |
|            | 2500K | 0.77       |
|            | 2700K | 0.83       |
|            | 3000K | 0.86       |
|            | 3500K | 0.89       |
|            | 4000K | 0.91       |

## FLICKER TESTING

- Flicker-free across dimming range
- Flicker Index: < 0.05
- Percent Flicker: < 12%
- Short Term Flicker: < 0.04
- Stroboscopic Visibility: < 0.41
- Meets "Low Risk" category of IEEE P1789-2015
- Tested dimmers:
  - TRIAC: Lutron DV-600P-BL
  - ELV: Lutron DVELV-300P-WH
  - 0-10 V: Lutron DVSTV

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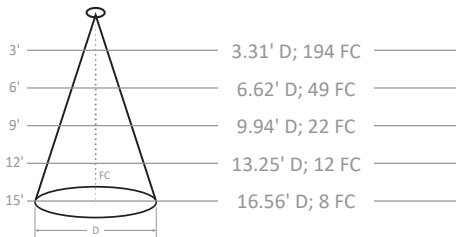
PHOTOMETRIC DETAILS | baseline X output multiplier X cri-cct multiplier = final output

Baseline data shown below for 25 W, 2000 lumens, 80+ CRI , 3000K

## FL - 35° Flood with WW Trim

Input Power: 25.1 W  
Lumens: 1707 lm  
Efficacy: 68 lm/W  
Beam Angle H/V: 57.8°/36.8°  
Field Angle H/V: 97.2°/66.6°

| ∠   | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2495 | 2495 | 2495 |
| 5°  | 2268 | 2268 | 2268 |
| 10° | 1851 | 1851 | 1851 |
| 15° | 1354 | 1354 | 1354 |
| 20° | 882  | 882  | 882  |
| 25° | 508  | 508  | 508  |
| 30° | 257  | 257  | 257  |
| 35° | 114  | 114  | 114  |
| 40° | 43   | 43   | 43   |
| 45° | 12   | 12   | 12   |



## 2 ft. from Wall

| From Wall             |       | 2'  |      | 2'   |      | 2'   |      | 2'   |      | 2'  |  | 2' |  | 2' |  |
|-----------------------|-------|-----|------|------|------|------|------|------|------|-----|--|----|--|----|--|
| Distance from Ceiling | 0.5'  | 0.9 | 1.9  | 7.5  | 10.6 | 10.8 | 10.8 | 9.8  | 3.9  | 0.9 |  |    |  |    |  |
|                       | 2.5'  | 2.5 | 11.8 | 45.2 | 64.6 | 67.5 | 66.5 | 57.2 | 23.8 | 4.3 |  |    |  |    |  |
|                       | 4.5'  | 3.6 | 9.3  | 20.6 | 29.0 | 31.5 | 30.7 | 25.0 | 13.4 | 5.0 |  |    |  |    |  |
|                       | 6.5'  | 3.3 | 5.7  | 9.3  | 12.3 | 13.5 | 13.0 | 10.6 | 6.9  | 3.8 |  |    |  |    |  |
|                       | 8.5'  | 2.7 | 3.8  | 5.1  | 6.3  | 6.9  | 6.6  | 5.6  | 4.2  | 2.8 |  |    |  |    |  |
|                       | 10.5' | 2.2 | 2.8  | 3.4  | 3.9  | 4.2  | 4.0  | 3.6  | 2.9  | 2.3 |  |    |  |    |  |
|                       | 12.5' | 1.8 | 2.1  | 2.4  | 2.7  | 2.9  | 2.8  | 2.5  | 2.1  | 1.7 |  |    |  |    |  |

## 2 ft. from Wall

| from Wall             |       |  |      |      |      |      |      |      |      |      |
|-----------------------|-------|------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|
| Distance from Ceiling | 0.5'  | 8.4                                                                                | 5.8  | 6.6  | 5.5  | 6.6  | 5.5  | 6.6  | 5.3  | 8.4  |
|                       | 2.5'  | 34.1                                                                               | 32.4 | 37.3 | 32.7 | 36.6 | 32.5 | 36.6 | 29.6 | 33.9 |
|                       | 4.5'  | 14.5                                                                               | 16.4 | 17.3 | 16.9 | 17.2 | 16.8 | 16.8 | 15.2 | 14.6 |
|                       | 6.5'  | 6.5                                                                                | 7.6  | 8.0  | 8.1  | 8.1  | 8.0  | 7.8  | 7.2  | 6.3  |
|                       | 8.5'  | 3.7                                                                                | 4.2  | 4.5  | 4.5  | 4.6  | 4.6  | 4.4  | 4.1  | 3.5  |
|                       | 10.5' | 2.5                                                                                | 2.8  | 2.9  | 3.1  | 3.1  | 3.1  | 3.0  | 2.7  | 2.4  |
|                       | 12.5' | 1.9                                                                                | 2.0  | 2.1  | 2.3  | 2.3  | 2.3  | 2.2  | 2.0  | 1.8  |

## OUTPUT MULTIPLIER

| Package         | Optic | Multiplier | Package        | Optic | Multiplier |
|-----------------|-------|------------|----------------|-------|------------|
| 19 W<br>1400 lm | NSP   | 0.78       | 13 W<br>900 lm | NSP   | 0.47       |
|                 | SP    | 0.80       |                | NFL   | 0.47       |
|                 | NFL   | 0.80       |                | FL    | 0.47       |
|                 | FL    | 0.80       |                |       |            |
| 15 W<br>1200 lm | NSP   | 0.63       |                |       |            |
|                 | SP    | 0.66       |                |       |            |
|                 | NFL   | 0.66       |                |       |            |
|                 | FL    | 0.66       |                |       |            |

## CRI-CCT MULTIPLIER

| CRI        | CCT   | Multiplier | CRI              | CCT   | Multiplier |
|------------|-------|------------|------------------|-------|------------|
| 8<br>(80+) | 2200K | 0.86       | H<br>(97+)       | 2700K | 0.66       |
|            | 2500K | 0.91       |                  | 3000K | 0.71       |
|            | 2700K | 0.96       |                  | 3500K | 0.75       |
|            | 3000K | 1.00       |                  | 4000K | 0.77       |
|            | 3500K | 1.03       | M<br>(MonoWhite) | 3000K | 0.86       |
|            | 4000K | 1.05       |                  | 3500K | 0.88       |
|            | 2200K | 0.70       |                  |       |            |
|            | 2500K | 0.77       |                  |       |            |
| 9<br>(90+) | 2700K | 0.83       |                  |       |            |
|            | 3000K | 0.86       |                  |       |            |
|            | 3500K | 0.89       |                  |       |            |
|            | 4000K | 0.91       |                  |       |            |

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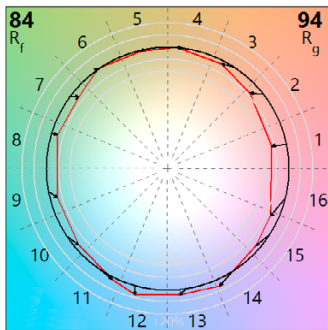
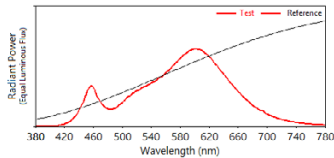
PROJECT

TYPE

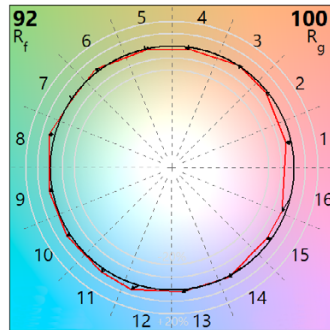
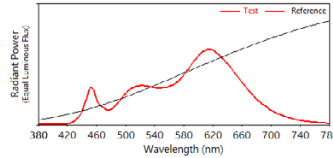
SPECIFICATION

## TM30 COLOR REPORTS

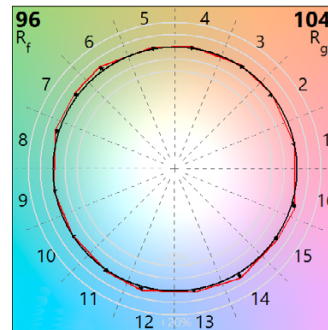
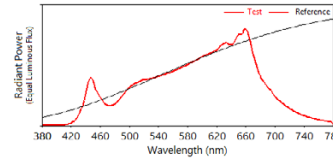
- 3000K with 80+ CRI
- $R_f = 84$ ;  $R_g = 94$
- $R_A = 82$ ;  $R_9 = 11$



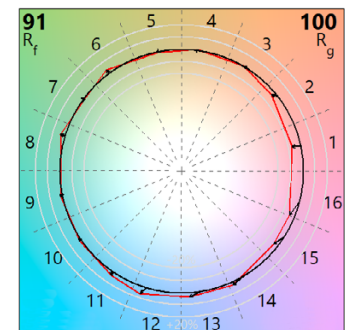
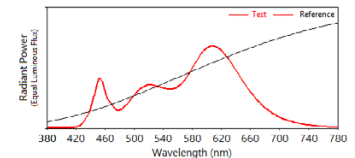
- 3000K with 90+ CRI
- $R_f = 92$ ;  $R_g = 100$
- $R_A = 93$ ;  $R_9 = 56$



- 3000K with 97+ CRI
- $R_f = 96$ ;  $R_g = 104$
- $R_A = 97$ ;  $R_9 = 98$

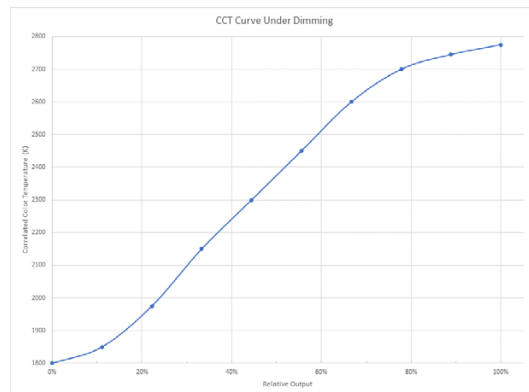
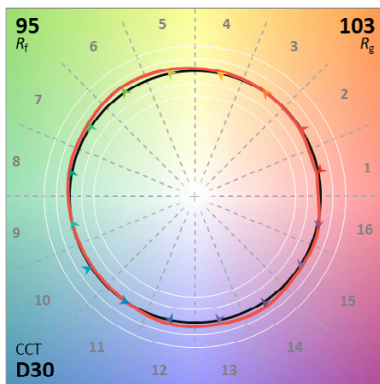


- 3000K with MonoWhite
- $R_f = 91$ ;  $R_g = 100$
- $R_A = 91$ ;  $R_9 = 42$



## DIM TO WARM DETAILS | Dim to Warm only available with NFL, FL, and WFL beam spreads @ 19 W; 1400 lumens

- 3000K to 1800K with 90+ CRI
- $R_f = 95$ ;  $R_g = 103$
- $R_A = 95$ ;  $R_9 = 62$



### NFL - 24° Narrow Flood

Input Power: 18.3 W  
Lumens: 1277 lm  
Efficacy: 70 lm/W  
Beam Angle: 27.9°  
Field Angle: 53.1°

| ∠   | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4410 | 4410 | 4410 |
| 5°  | 4262 | 4250 | 4150 |
| 10° | 3388 | 3404 | 3243 |
| 15° | 2218 | 2252 | 2097 |
| 20° | 1234 | 1269 | 1166 |
| 25° | 609  | 624  | 577  |
| 30° | 312  | 314  | 289  |
| 35° | 152  | 151  | 141  |
| 40° | 66   | 69   | 65   |
| 45° | 24   | 26   | 25   |

### FL - 35° Flood

Input Power: 18.3 W  
Lumens: 1247 lm  
Efficacy: 68 lm/W  
Beam Angle: 36.1°  
Field Angle: 65.9°

| ∠   | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2796 | 2796 | 2796 |
| 5°  | 2742 | 2744 | 2713 |
| 10° | 2432 | 2448 | 2398 |
| 15° | 1867 | 1906 | 1849 |
| 20° | 1247 | 1298 | 1252 |
| 25° | 749  | 787  | 758  |
| 30° | 423  | 443  | 426  |
| 35° | 231  | 241  | 231  |
| 40° | 116  | 122  | 118  |
| 45° | 56   | 59   | 57   |

