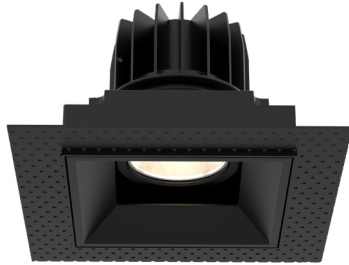


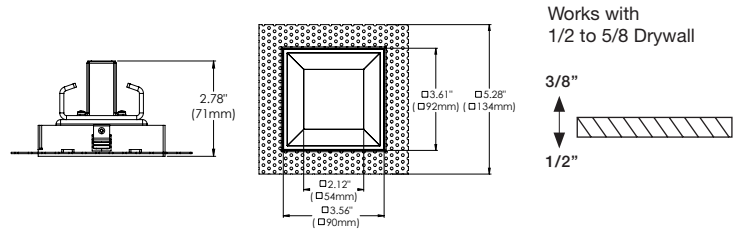
BRAVO 3.50 SINGLE/MULTIPLE RECESSED SYSTEM



FEATURES

The Bravo collection - a widely versatile collection - is our answer to directional lighting with contemporary flair. Featuring energy efficient hidden light sources for discreet illumination for all spaces, the Bravo has customizability from 1-light to 3-light. Possibilities are endless with multiples, frames, light modules, optics and more. Bravo has a high performance LED chip and driver. It's quick install with easy field replacements and adjustments, all are dimming compatible.

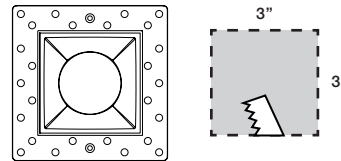
MODULE SPECIFICATIONS



SPECIFICATIONS

| | |
|-------------------|--|
| WATTS | 10W (IC/AT), 15W (Non-IC) |
| BEAM ANGLE | 15°/24°/38° |
| KELVIN | 2700K/3000K/3500K/4000K |
| LUMEN PER HEAD | 840lm (10W), 1180lm (15W) |
| CRI | 90+ |
| DIMMING | 0-10v, ELV, TRIAC |
| POWER SUPPLY TYPE | Constant current driver - Standard uses ERP: 0-10V/ TRIAC both supported - Option: 347V on request |
| LOCATION | Damp |
| INPUT VOLTAGE | 120V-277V |
| COLOR | Black/White |

CEILING CUT-OUTS



***New Construction Plate, Insulated Ceiling box and Airtight IC Box sold separately.**
(Refer to housing options on page 7)

CERTIFICATIONS

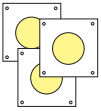


PRODUCT CONFIGURATOR

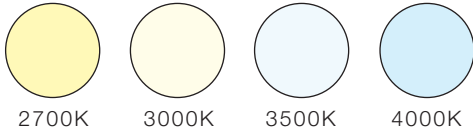
EXAMPLE PRODUCT NO: BVO-R1TL-01-ST-1030-WCLXT

| FAMILY | MOUNTING | # OF LIGHT (S) | TRIM | COLOR | *MODULE 1 | MODULE 2 | MODULE 3 | WATT | CCT | BEAM ANGLES | LENS | ACCESSORIES |
|--------|--------------|----------------|---------------|------------|----------------------------|----------------------------|----------------------------|-----------------|------------|----------------|-------------------------|------------------------|
| BVO | R | 1 | TL | 01 | RF | | | 10 | 30 | W | CL | XT |
| BVO | SURFACE (S) | 1LT (1) | TRIM (T) | BLACK (01) | RECESSED SNOOT GIMBAL (SG) | RECESSED SNOOT GIMBAL (SG) | RECESSED SNOOT GIMBAL (SG) | 10W IC/AT (10) | 2700K (27) | 15° NARROW (N) | CLEAR LENS (CL) | EXTENSION BAFFLE (XT) |
| | RECESSED (R) | 2LT (2) | TRIMLESS (TL) | WHITE (02) | RECESSED GIMBAL (RG) | RECESSED GIMBAL (RG) | RECESSED GIMBAL (RG) | 15W NON-IC (15) | 3000K (30) | 24° MEDIUM (M) | LINEAR SPREAD LENS (LN) | HONEY COMB LOUVRE (HC) |
| | | 3LT (3) | | | RECESSED FIXED (RF) | RECESSED FIXED (RF) | RECESSED FIXED (RF) | | 3500K (35) | 38° WIDE (W) | FROSTED DIFFUSER (FR) | |
| | | | | | SUSPENSION (SU) | SUSPENSION (SU) | SUSPENSION (SU) | | 4000K (40) | | SPREAD LENS (SP) | |
| | | | | | SPOT (ST) | SPOT (ST) | SPOT (ST) | | | | RED DICHROIC (RE) | |
| | | | | | WALLWASH (WL) | WALLWASH (WL) | WALLWASH (WL) | | | | GREEN DICHROIC (GR) | |
| | | | | | PANEL (PN) | PANEL (PN) | PANEL (PN) | | | | BLUE DICHROIC (BL) | |
| | | | | | | | | | | | ORANGE DICHROIC (OR) | |

LIGHT SOURCE



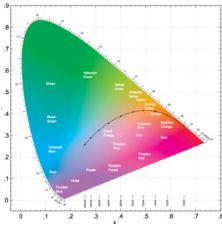
COLOR TEMPERATURE



CRI



COLOR CONSISTENCY



DIMMING



DRIVER



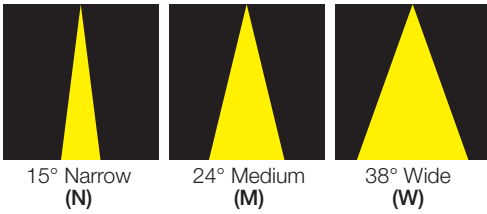
CERTIFICATION / RATING

| | |
|--------------------|---------------------------|
| WARRANTY | 5 Years limited |
| ETL/UL | cETLus |
| TITLE 24 | Title 24 Compliant |
| LM79/80 COMPLIANCE | LM80 Compliant |
| IC RATING | 10W (IC/AT), 15W (Non-IC) |
| IP RATING | Damp |

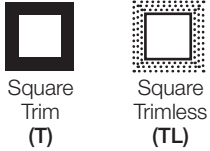
LIGHT TECHNOLOGY

| | |
|------------------------------|---|
| LIGHT SOURCE | COB LED |
| LED BRAND | Citizen/CREE |
| L90 (LUMEN MAINTENANCE) | L90/55,000 Hours |
| WATTAGE | 10W (IC/AT), 15W (Non-IC) |
| NOMINAL LUMEN | 1000lm, 1500lm |
| EFFICIENCY (LM/W) | 88lm/W |
| COLOR TEMPERATURE | 2700K, 3000K, 3500K, 4000K |
| CRI | 90+ |
| DELIVERED OUTPUT & INTENSITY | 840lm (10W), 1180lm (15W) |
| COLOR CONSISTENCY | 3-Step MacAdam Ellipse |
| DIMMING OPTIONS/CONTROLS | 0-10V phase dimming, TRIAC dimming or ELV dimming |
| VOLTAGE | Universal 120V-277V |
| DRIVER MODEL NUMBERS | ESS-010W-350-42 ESS-015W-350-42 |
| POWER SUPPLY | ERP ESS Series LED Driver |
| DRIVER BRAND | ERP |

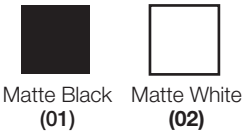
BEAM ANGLES (FIELD ADAPTATION)



TRIM SHAPES



TRIM FINISHES

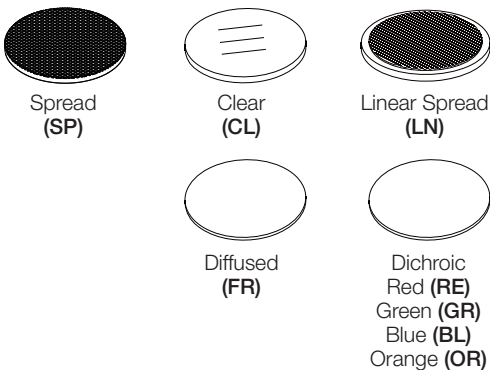


ACCESSORIES

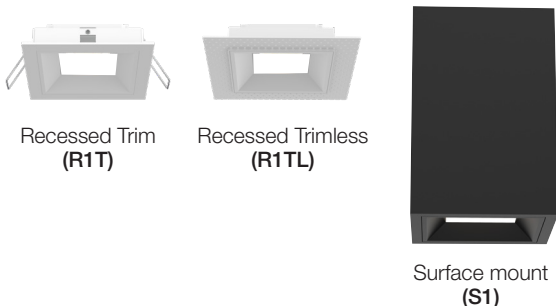


Extension Baffle
(XT)

OPTICS/DIFFUSER



MOUNTING OPTIONS



FIXTURE SPECIFICATIONS

| | |
|-------------------------------|---|
| LOCATION | Damp |
| BEAM ANGLE (FIELD ADAPTATION) | - 15° (Narrow) - 24° (Medium) - 38° (Wide) |
| VERTICAL ADJUSTMENT ANGLE | - Spot: 90° tilt - Gimbal: 30° tilt |
| HORIZONTAL ADJUSTMENT ANGLE | 355° rotatable |
| MINIMUM CEILING CLEARANCE | 10" (For shallow ceiling, refer to page 8) |
| TRIMMED FRAME | Available in square shape |
| TRIMLESS FRAME | Perforated flange with pre-allocated screw holes to anchor, allowing for easy mudding and creating a seamless installation on ceiling. Available in square shape. |
| FRAME FINISHES | Matte black, matte white |

ACCESSORIES

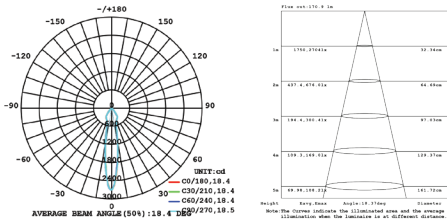
| | |
|------------------|---|
| EXTENSION BAFFLE | Machined aluminum with a matte powder coated finish and glare reduction. Decreased light spillage for focal point highlight. |
| OPTICS/DIFFUSER | Regressed glare control with reflector and lens, field changeable to achieve optimal lighting effect. Lens options include clear, linear spread, spread, diffused, honeycomb or dichroic - available in red, green, blue, orange. |

MOUNTING

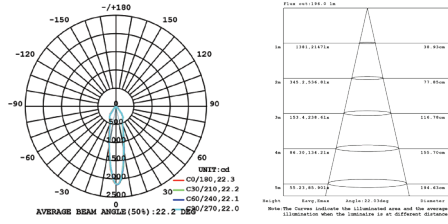
| | |
|-------------------|---|
| MOUNTING TYPE | Trimmed frame application suitable for drywall and wood (maximum thickness 5/8"). Trimless frame application suitable for drywall and mud-in ceilings. Ceiling mount application suitable for drywall and wood. |
| INSTALLATION TYPE | Suited for new construction or remodel with non-insulated ceilings, plenum for non-insulated ceilings, as well as new construction or remodel with insulated ciling (IC rated10W option). |

PHOTOMETRIC SUMMARY

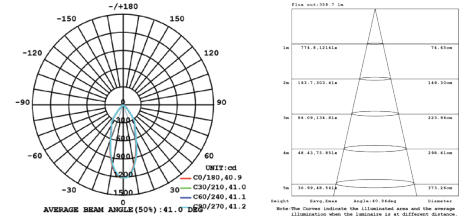
10W 1-LIGHT FIXED NARROW CLEAR



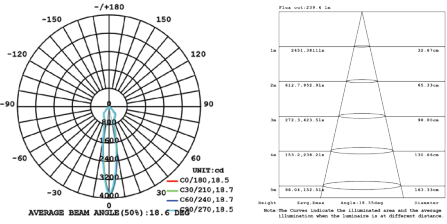
10W 1-LIGHT FIXED MEDIUM CLEAR



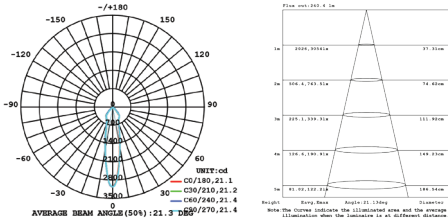
10W 1-LIGHT FIXED WIDE CLEAR



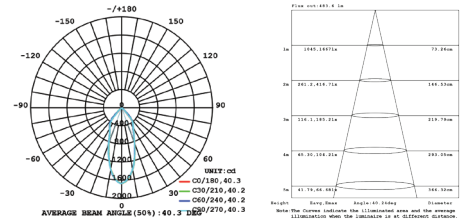
15W 1-LIGHT FIXED NARROW CLEAR



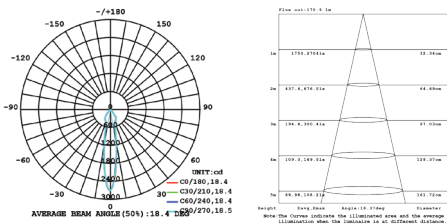
15W 1-LIGHT FIXED MEDIUM CLEAR



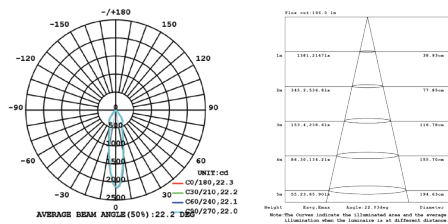
15W 1-LIGHT FIXED WIDE CLEAR



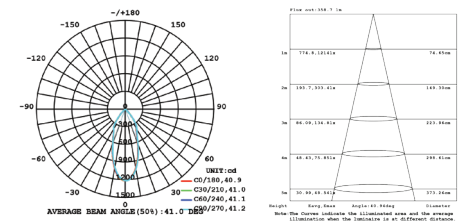
10W 1-LIGHT GIMBAL NARROW CLEAR



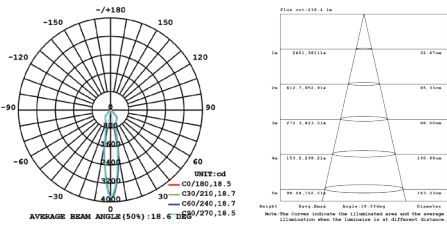
10W 1-LIGHT GIMBAL MEDIUM CLEAR



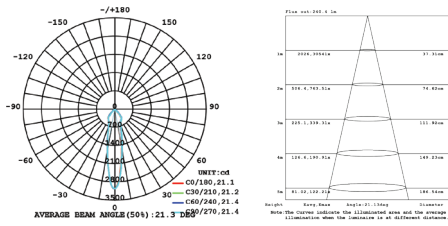
10W 1-LIGHT GIMBAL WIDE CLEAR



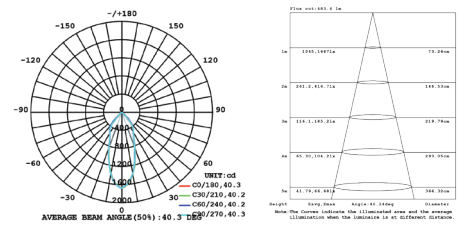
15W 1-LIGHT GIMBAL NARROW CLEAR



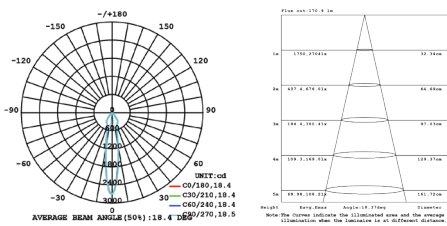
15W 1-LIGHT GIMBAL MEDIUM CLEAR



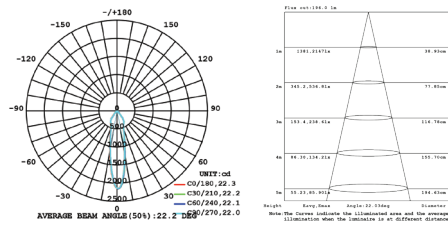
15W 1-LIGHT GIMBAL WIDE CLEAR



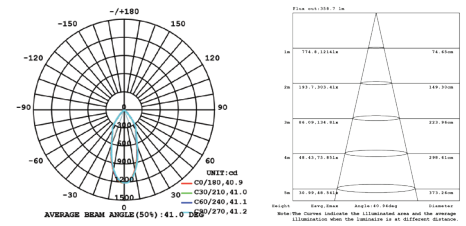
10W 1-LIGHT FIXED NARROW CLEAR



10W 1-LIGHT FIXED MEDIUM CLEAR

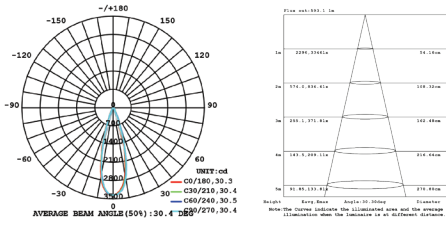


10W 1-LIGHT FIXED WIDE CLEAR

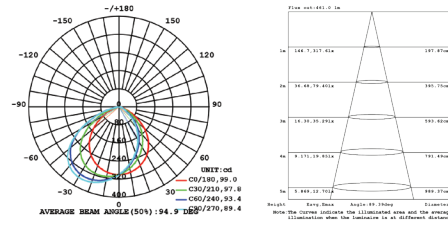


PHOTOMETRIC SUMMARY

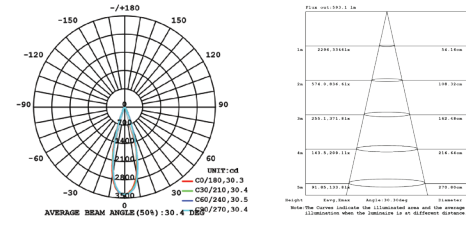
SUSPENSION



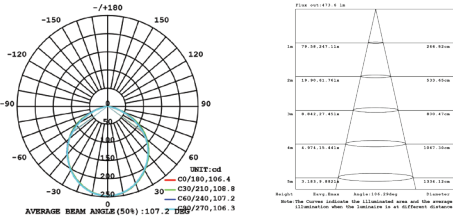
WALL WASH



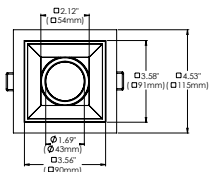
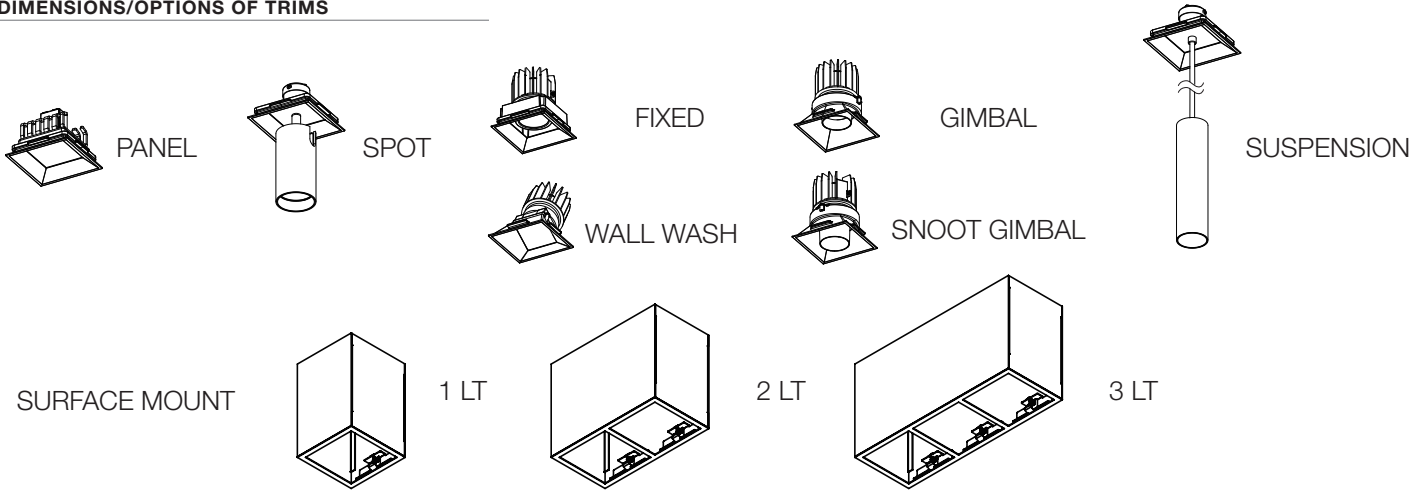
SPOT



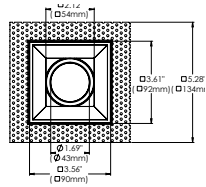
PANEL



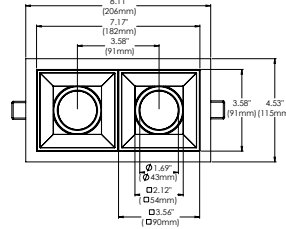
DIMENSIONS/OPTIONS OF TRIMS



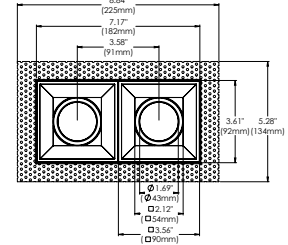
1 Light Trim Fixed - Bottom View



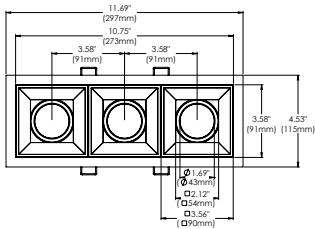
1 Light Trimless Fixed - Bottom View



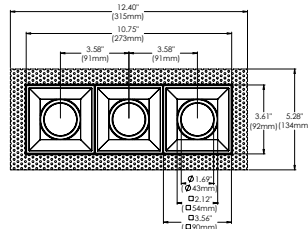
2 Light Trim Fixed - Bottom View



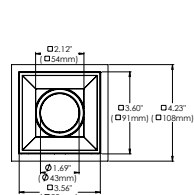
2 Light Trimless Fixed - Bottom View



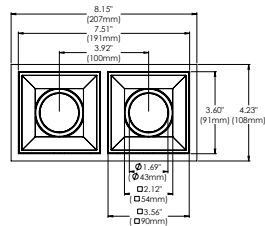
3 Light Trim Fixed - Bottom View



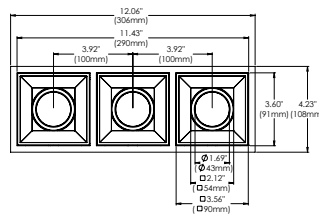
3 Light Trimless Fixed - Bottom View



1 Light Surface - Bottom View



2 Light Surface - Bottom View



3 Light Surface - Bottom View

EXPLODED OVERVIEW - PART SELECTION

STANDARD

A. 10W (IC/AT), 15W (non-IC)

CUSTOMIZABLE - FIELD ADAPTATION

B. Reflector - 15° / 24° / 38°

C. Lens - variable options

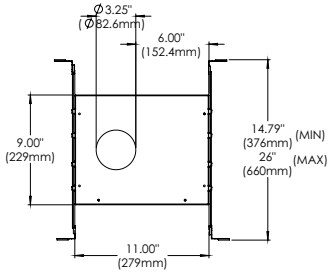
D. Extension Baffle

E. Baffle - Fixed / Gimbal

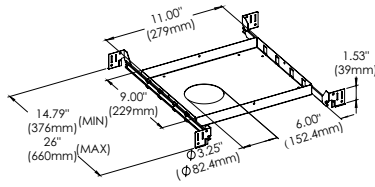
F. Recessed - Trim / Trimless, Surface

| | | | | | | | | |
|------------------------------------|---|--|---------------------------------|--|---------------------------|--|--|--|
| ENGINE | <p>10W (10) 15W (15)</p> | | | | | | | |
| REFLECTORS | <p>15° Narrow (N) 24° Medium (M) 36° Wide (W)</p> | | | | | | | |
| LENS | <p>Clear Lens (CL) Orange Dichroic (OR) Red Dichroic (RE) Blue Dichroic (BL) Green Dichroic (GR) Spread Lens (SP) Linear Spread Lens (LN) Honey Comb Lens (HO)</p> | | | | | | | |
| ADD-ON ^{*optional} | <p>Extension Baffle (XT)</p> | | | | | | | |
| BAFFLE | <p>Fixed (RF) Gimbal (RG)</p> | | | | | | | |
| TRIM | <p>Recessed Trim (R1T)</p> | | <p>Recessed Trimless (R1TL)</p> | | <p>Surface mount (S1)</p> | | | |

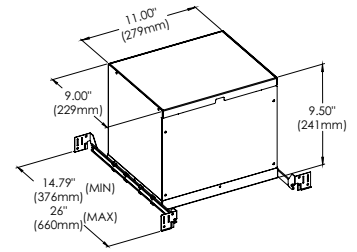
TECHNICAL DRAWINGS



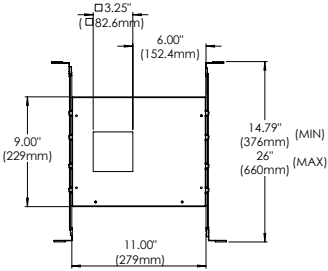
NCP and IC/AT
1-Light Round



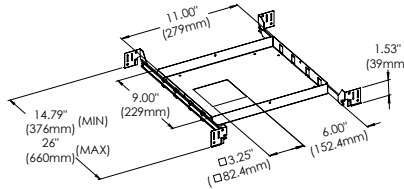
NCP 1-Light Round
41943-014



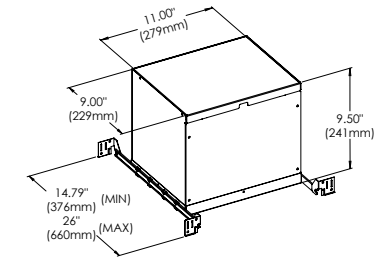
IC 1-Light Round
41944-011
AT 1-Light Round
41945-018



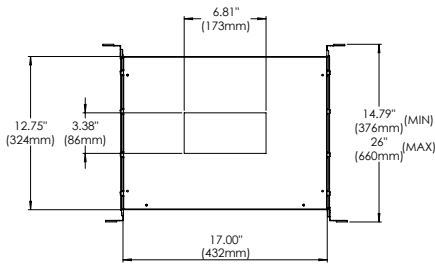
NCP and IC/AT
1-Light Square



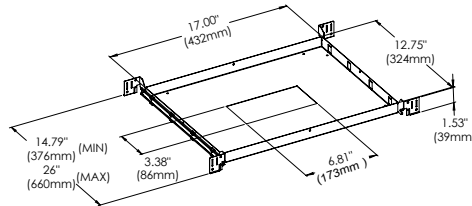
NCP 1-Light Square
41946-015



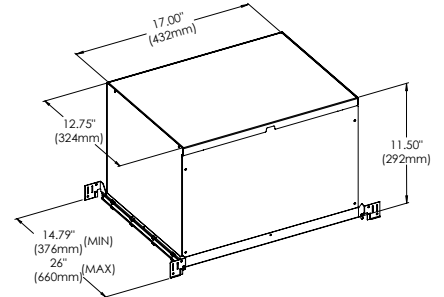
IC 1-Light Square
41947-012
AT 1-Light Square
41948-019



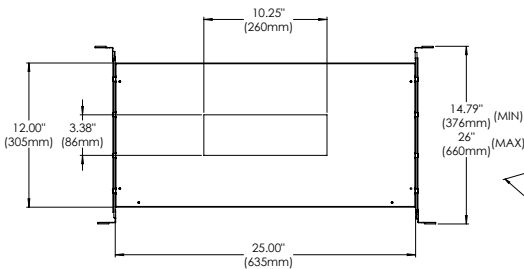
NCP and IC/AT
2-Light Rectangular



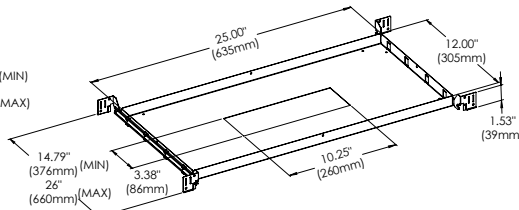
NCP 2-Light Rectangular
41949-016



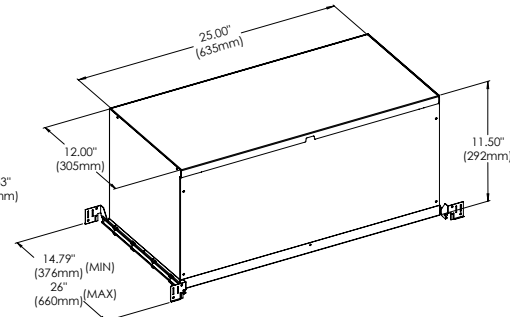
IC 2-Light Rectangular
41950-012
AT 2-Light Rectangular
41951-019



NCP and IC/AT
3-Light Rectangular



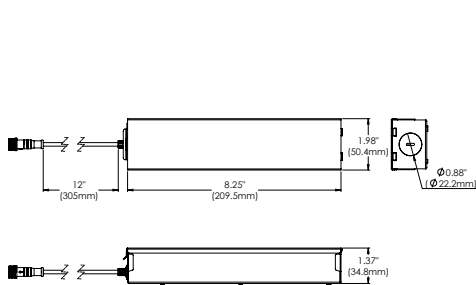
NCP 3-Light Rectangular
41952-016



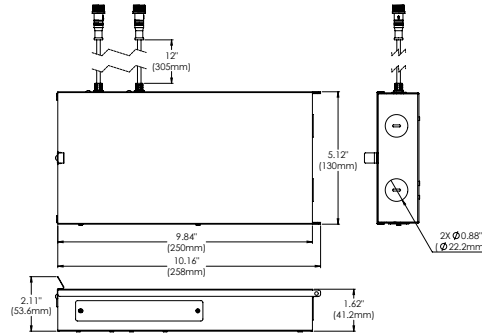
IC 3-Light Rectangular
41953-013
AT 3-Light Rectangular
41954-010

DRIVERS

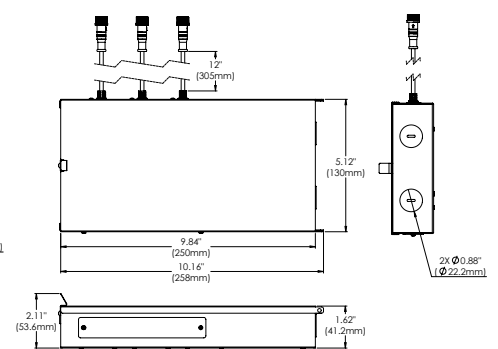
- Compatible with TRIAC (forward-phase or leading-edge) ELV (reverse-phase or trailing edge) and 0-10V dimmers.
- ESSxxxW models: TRIAC and ELV dimming only at 120 Vac
- ESSxxxW models: ELV dimming only at 230 Vac
- 90° C maximum case hot spot temperature
- Class 2 power supply
- Lifetime: 50,000 hours at 70° case hot spot temperature (some models have a higher lifetime)
- IP64-rated (IP66 for ESST) case with silicone-based potting
- Protections: Output open load, over-current and short-circuit (hiccup), and over-temperature with auto recovery.
- Conducted and radiated EMI: Compliant with FCC CFR Title 47 Part 15 Class B (120 Vac) and Class A (277 Vac), and EN55015 (CISPR 15) at 220, 230, and 240 Vac.
- Complies with ENERGY STAR®, DLC (DesignLight Consortium®) and CA Title 24 technical requirements
- Worldwide safety approvals



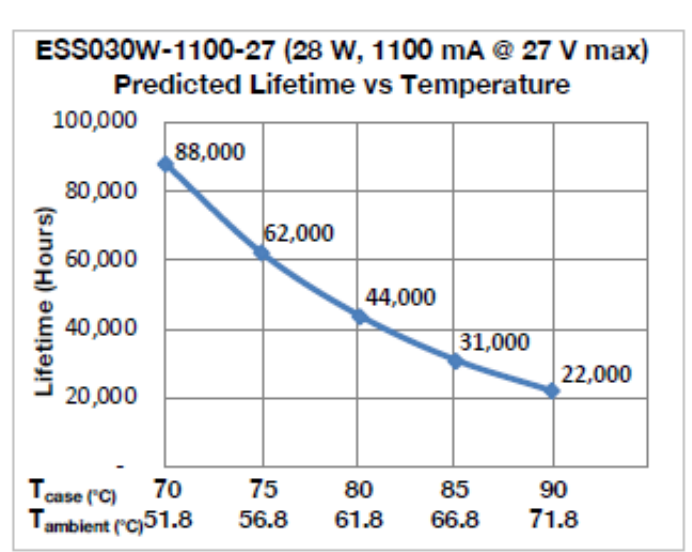
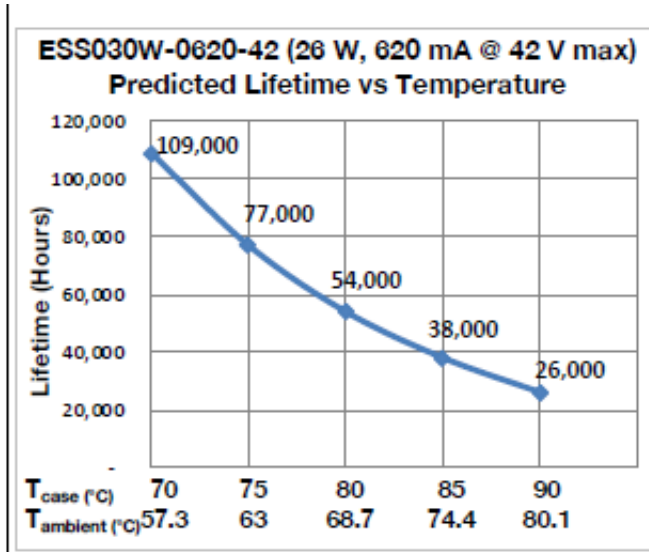
Driver Box - 1-Light



Driver Box - 2-Light



Driver Box - 3-Light



BRAVO

3.5 SINGLE/MULTIPLE RECESSED SYSTEM

Fase¹

33 West Beaver Creek Road,
 Richmond Hill, Ontario, Canada