

|          |            |       |      |       |
|----------|------------|-------|------|-------|
| PROJECT: | SPECIFIER: | TYPE: | QTY: | DATE: |
|----------|------------|-------|------|-------|

|   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|----|



## TECH OPTIONS



## DESCRIPTION

Architectural grade downlight with elegant, modern design. Milled aluminum housing, bezel and trim available in wide range of finishes. Standard precision TIR optic with multiple distribution options including ultra-narrow 10° beam. Inherently protected luminaire with IC and non-IC options available. Thermal protection in case of improper insulation use. Extruded aluminum anodized heat sink. Positive retention springs allow for easy installation and prevent sagging.

## FEATURES

**Housing & Trim:** milled aluminum, powder coat or bespoke plating finish

**Cutout:** round

**Optic:** TIR Optic (clear polycarbonate)

**Beams:** 10°, 12°, 25°, 36°, 55°

**Lumen Output (nominal):** up to 3200+ lm, 93.3 lm/W

**Mounting:** new construction, remodeler, and IC housing box

**Heat Sink:** anodized aluminum

**LED:** PerfectWhite™ human centric, Static white CRI 90+ & 95+, Sunlike 97, Tunable white, Warm dim, Lumenetix RGBW

\*≤1x3 SDCM standard, ≤1x2 SDCM available upon request

## DIMENSIONS

**Optic (A):** 1.90"

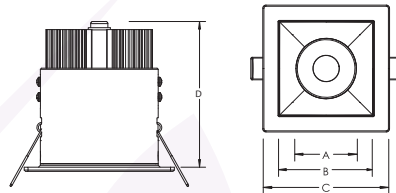
**Bezel (B):** 2.95"

**Flange (C):** 3.95"

**Height (D):** 3.85" - 5.10"

**Ceiling Opening:** 3.3"

**Ceiling Thickness:** ½" - 1" thk



**WARRANTY** 5 Year Limited Warranty (Covers Standard Components)

## RATINGS & CERTS

Made In USA with Global Components  
Damp Location Rated, Wet Location Rated



## 1: TYPE

**SL3-RD**  
**SL3-RDW**

Square Recessed Downlight  
Square Recessed Downlight, Wet Location

## 2: LED COLOR & CRI

|                    |                                      |                   |                              |
|--------------------|--------------------------------------|-------------------|------------------------------|
| <b>WD97-3018K*</b> | Warm Dim 3000-1800K 97+              | <b>SW95-30K</b>   | 3000K Static White 95+       |
| <b>WD92-4027K*</b> | Warm Dim 4000-2700K 92+              | <b>SW95-35K</b>   | 3500K Static White 95+       |
| <b>LX90-RGBW**</b> | Lumenetix RGB + 8000-1650K White 90+ | <b>SW95-40K</b>   | 4000K Static White 95+       |
| <b>PC90-30K</b>    | 3000K PerfectWhite™ 90+              | <b>SL97-27K</b>   | 2700K Sunlike 97             |
| <b>SW90-27K</b>    | 2700K Static White 90+               | <b>SL97-30K</b>   | 3000K Sunlike 97             |
| <b>SW90-30K</b>    | 3000K Static White 90+               | <b>SL97-35K</b>   | 3500K Sunlike 97             |
| <b>SW90-35K</b>    | 3500K Static White 90+               | <b>SL97-40K</b>   | 4000K Sunlike 97             |
| <b>SW90-40K</b>    | 4000K Static White 90+               | <b>SL97-50K</b>   | 5000K Sunlike 97             |
| <b>SW90-50K</b>    | 5000K Static White 90+               | <b>TW90-4018K</b> | Tunable White 4000-1800K 90+ |
| <b>SW95-27K</b>    | 2700K Static White 95+               | <b>TW90-6527K</b> | Tunable White 6500-2700K 90+ |

\*Warm dim compatible with traditional single channel dimming methods

\*\*Tunable full color and white with DMX; Tunable white and full color preset scenes only with 2x 0-10V; Tunable white only 8000-1650K with Lutron Ecosystem, DALI2, & Wattstopper DLM

\*\*\*Two-step MacAdam Ellipse available upon request. Use "2SP" after LED code

## 3: LUMENS

\* RGBW available up to 1200 lm

\*\*See page 2 LED Power Info for chip-specific lumens

|             |         |
|-------------|---------|
| <b>09LM</b> | 900 lm  |
| <b>12LM</b> | 1200 lm |
| <b>18LM</b> | 1800 lm |
| <b>26LM</b> | 2600 lm |
| <b>32LM</b> | 3200 lm |

## 4: VOLTAGE

|          |            |
|----------|------------|
| <b>U</b> | 120-277Vac |
| <b>1</b> | 120Vac     |
| <b>2</b> | 277Va      |

## 5: DIMMING / DRIVER Leading and trailing edge at 120Vac only

|                |                                                                                                           |
|----------------|-----------------------------------------------------------------------------------------------------------|
| <b>DIMA1*</b>  | 1% universal dim 0-10V/TRIAC/ELV                                                                          |
| <b>AVI</b>     | Bluetooth Avi-on BLE Wireless for static white, warm-dim, tunable white & RGBW                            |
| <b>10V</b>     | <10% Dim 0-10V                                                                                            |
| <b>10V1</b>    | 1% Dim 0-10V                                                                                              |
| <b>10VMCZ1</b> | 0.1% Dim 0-10Vx2 dim-to-off for tunable white                                                             |
| <b>10VMC1</b>  | 1% Dim 0-10V multi-channel for tunable white, warm dim & Lumenetix full color presets + tunable white     |
| <b>LTEA</b>    | 1% Dim Lutron Hi-Lume 2-Wire (120V only)                                                                  |
| <b>LUT1</b>    | 1% Dim Lutron Hi-Lume EcoSystem Soft-on & Fade Black                                                      |
| <b>LUTZ1**</b> | 0.1% Dim Lutron Hi-Lume Premium EcoSystem Soft-On & Fade Black for static white & Lumenetix tunable white |
| <b>ELD1</b>    | 1% Dim eldoLED ECODrive                                                                                   |
| <b>ELDZ1</b>   | 0.1% Dim eldoLED SOLOdrive dim-to-off                                                                     |
| <b>DMXZ1</b>   | 0.1% Dim DMX for tunable, warm dim, & Lumenetix tunable full color and white                              |
| <b>DALI21</b>  | 0.1% Dim DALI2 for tunable white, warm dim & Lumenetix tunable white                                      |
| <b>WATTZ1</b>  | 0.1% Dim Wattstopper DLM for Lumenetix tunable white                                                      |

\*Standard non-linear dim-to-off for 0-10V dimming; for linear dimming add -LIN at end of dim code

\*\*<20W available for static white

\*\*\*Most drivers use logarithmic dimming curve as standard. For linear curve add -LIN after code.

## 6: OPTIC

\*Up to 900 lm only, not available with warm dim or tunable white LED

|             |         |
|-------------|---------|
| <b>BVN*</b> | 10° TIR |
| <b>BNS*</b> | 14° TIR |
| <b>BN</b>   | 25° TIR |
| <b>BM</b>   | 35° TIR |
| <b>BW</b>   | 55° TIR |

## 7: BEZEL & TRIM FINISH

|           |                             |           |                               |
|-----------|-----------------------------|-----------|-------------------------------|
| <b>WH</b> | White Matte Powder          | <b>BC</b> | Black Chrome Plated           |
| <b>BK</b> | Black Matte Powder          | <b>BH</b> | Brush Brass Plated            |
| <b>BZ</b> | Oil-rub Bronze Brush Plated | <b>BR</b> | Polished Brass Plated         |
| <b>CB</b> | Copper Brush Plated         | <b>NB</b> | Nickel Brush Plated           |
| <b>CU</b> | Polished Copper Plated      | <b>NC</b> | Polished Nickel Chrome Plated |

\*All plating finishes have protective coating

## 8: IC RATING (OPTIONAL)

|           |                   |
|-----------|-------------------|
| <b>IC</b> | Insulated ceiling |
|-----------|-------------------|

\*Enclosed box required; contact factory for remodeler IC options

## 9: ACCESSORY

|            |                                                                           |
|------------|---------------------------------------------------------------------------|
| <b>HB*</b> | Ceiling frame with hanger bars                                            |
| <b>HBH</b> | Ceiling frame with hanger bars & butterfly bracket kit, extendable        |
| <b>LHB</b> | Heavy bars for 36" extension (set of 2 pcs); note 2 sets required for 48" |
| <b>EN</b>  | Enclosed box with ceiling plate & bars                                    |
| <b>BB4</b> | Battery Backup 4W for 90 mins                                             |
| <b>BB8</b> | Battery Backup 8W for 90 mins                                             |

## 10: CONTROL

\*Code compliant with all U.S. requirements with applicable controls

|              |                   |
|--------------|-------------------|
| <b>VIVE</b>  | Lutron Vive       |
| <b>ANL</b>   | Acuity nLight     |
| <b>AIRNL</b> | Acuity nLight Air |
| <b>CAS</b>   | Casambi Ready     |
| <b>ENT</b>   | Enlighted         |

## LED POWER INFO *Insulated ceiling (IC) rating up to 17.2W*

### Static White LED 90+ CRI @ 3000K (nominal)

| Ordering Code | Lumens, Nominal Delivered | Input Power, Nominal | Efficacy, Nominal |
|---------------|---------------------------|----------------------|-------------------|
| 09LM          | 899 lm                    | 9.83W                | 91.4 lm/W         |
| 12LM          | 1,258 lm                  | 13.76W               | 91.4 lm/W         |
| 18LM          | 1,803 lm                  | 19.32W               | 93.3 lm/W         |
| 26LM          | 2,525 lm                  | 27.05W               | 93.3 lm/W         |
| 32LM          | 3,246 lm                  | 34.77W               | 93.3 lm/W         |

### PerfectWhite LED 90+ CRI @ 3000K (nominal)

| Ordering Code | Lumens, Nominal Delivered | Input Power, Nominal | Efficacy, Nominal |
|---------------|---------------------------|----------------------|-------------------|
| 09LM          | 935 lm                    | 13.68W               | 68.4 lm/W         |
| 12LM          | 1,341 lm                  | 19.20W               | 69.8 lm/W         |
| 18LM          | 1,877 lm                  | 26.89W               | 69.8 lm/W         |

### Sunlike LED 97 CRI @ 3000K (nominal)

| Ordering Code | Lumens, Nominal Delivered | Input Power, Nominal | Efficacy, Nominal |
|---------------|---------------------------|----------------------|-------------------|
| 07LM          | 706 lm                    | 10.06W               | 70.2 lm/W         |
| 09LM          | 988 lm                    | 14.08W               | 70.2 lm/W         |
| 14LM          | 1,425 lm                  | 19.89W               | 71.7 lm/W         |
| 20LM          | 1,995 lm                  | 27.84W               | 71.7 lm/W         |

### Warm Dim LED 92+ CRI @ Full Intensity (nominal)

| Ordering Code | Lumens, Nominal Delivered | Input Power, Nominal | Efficacy, Nominal |
|---------------|---------------------------|----------------------|-------------------|
| 09LM          | 900 lm                    | 14.36W               | 62.6 lm/W         |
| 12LM          | 1,263 lm                  | 20.17W               | 62.6 lm/W         |
| 18LM          | 1,806 lm                  | 28.24W               | 63.9 lm/W         |

### Tunable White LED 90+ CRI @ Cool CCT (nominal)

| Ordering Code | Lumens, Nominal Delivered | Input Power, Nominal | Efficacy, Nominal |
|---------------|---------------------------|----------------------|-------------------|
| 06LM          | 616 lm                    | 8.55W                | 72 lm/W           |
| 12LM          | 1,170 lm                  | 17.11W               | 68.4 lm/W         |
| 18LM          | 1,694 lm                  | 23.53W               | 72 lm/W           |

#### LM Multiplier 1 LED CRI

SW90: 1.00  
SW95: 0.92

#### LM Multiplier 2 LED Color

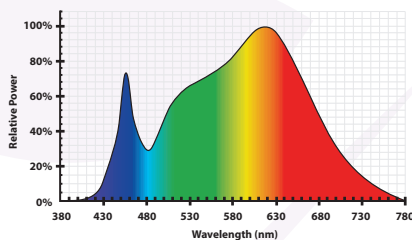
2700K: 0.96  
3000K: 1.00  
3500K: 1.03  
4000K: 1.05  
5000K: 1.07

#### LM Multiplier 3 Optic

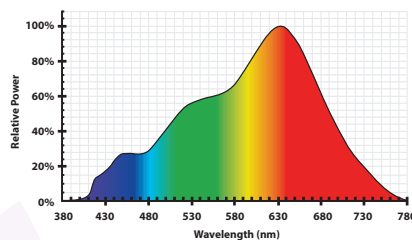
BVN: 0.90  
BNS: 0.90

Calculated Delivered Lumens = Delivered Lumen Value x LED CRI x LED Color

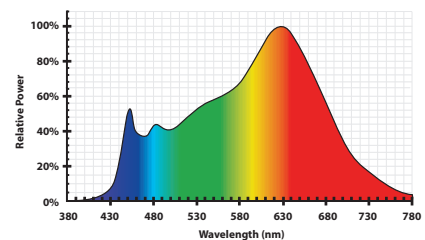
## SPECTRAL POWER DISTRIBUTION



Standard LED 90+ CRI @ 3000K



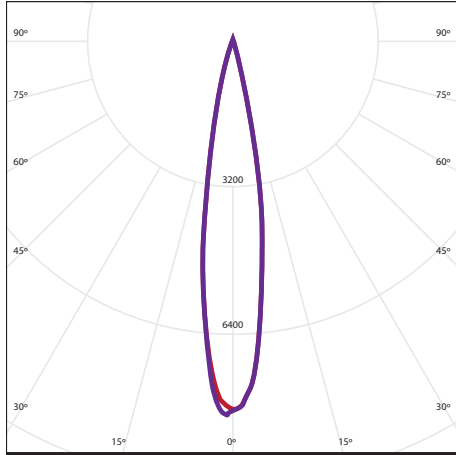
SunLike LED 97 CRI @ 3000K



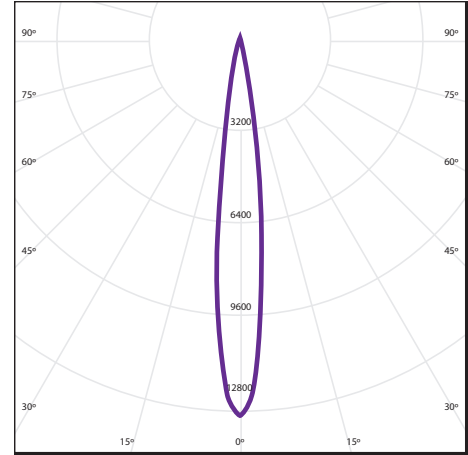
PerfectWhite LED 90+ CRI @ 3000K

## BEAM DISTRIBUTION

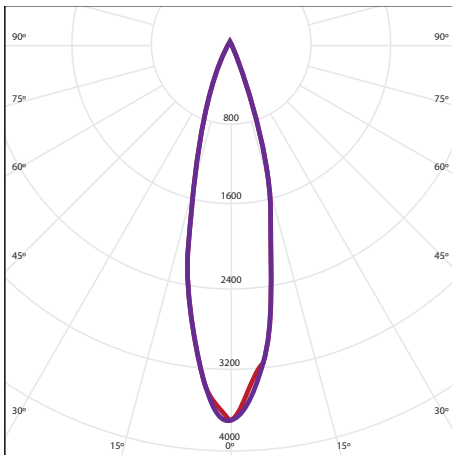
**BVN - 10° Narrow Real Spot**



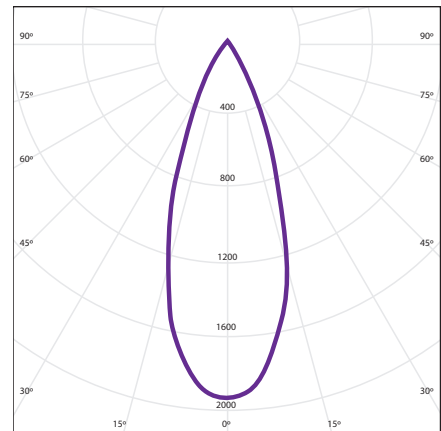
**BNS - 14° Narrow Spot**



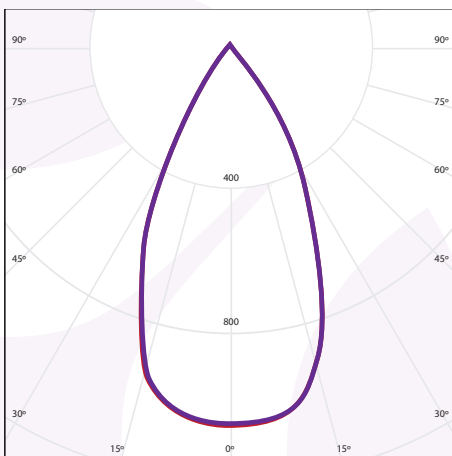
**BN - 25° Narrow**



**BM - 35° Medium**



**BW - 55° Wide**



## DIMMING

### DIMMING COMPATIBILITY FOR -DIMA1 CODE

Opus® Strat offers compatibility with both phase-cut (reverse-phase and forward-phase) and 0-10V dimmers. Forward-phase (TRIAC) and reverse-phase (ELV) dimming work only at 120Vac. Phase-cut dimming always has priority over 0-10V dimming. Each fixture requires 1mA for 0-10V dimming. Please consult dimmer datasheet for total 0-10V dimming current requirement to determine suitable number of fixtures per dimmer for best dimming results.

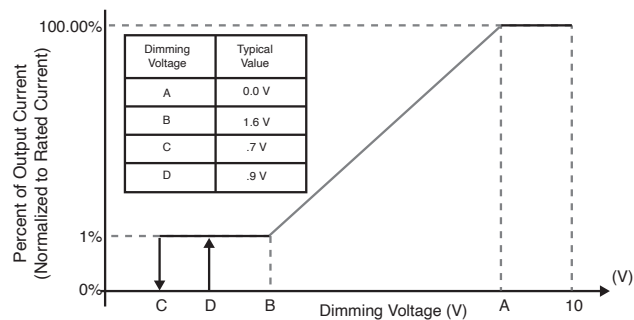
### COMPATIBLE PHASE-CUT DIMMERS FOR -DIMA1 CODE

| 120Vac Dimmers |           |         |            |            |           |
|----------------|-----------|---------|------------|------------|-----------|
| Mfg.           | Model     | Mfg.    | Model      | Mfg.       | Model     |
| Lutron         | S-603PG   | Lutron  | DVELV-303P | Lutron     | CT-103P   |
| Leviton        | IPI06-1LZ | Lutron  | SELV-300P  | Cooper     | SLC03P    |
| Leviton        | 6631-2    | Leviton | 6683-IW    | Leviton    | IPE04     |
| Lutron         | DVCL-153P | Leviton | 6161       | Lutron     | MAELV-600 |
| Lutron         | DV-600P   | Leviton | 6633-P     | Lutron     | FAELV-500 |
| Lutron         | TGCL-153P | Lutron  | TG-600P    | Lightolier | ZP260QEW  |
| Lutron         | S-600P    | Cooper  | DLC03P     | Cooper     | DAL06P    |
| Leviton        | VPE06     | Lutron  | LG-600P    |            |           |

### COMPATIBLE 0-10V DIMMERS FOR -DIMA1 CODE

| 0-10V Dimmers |                   |          |
|---------------|-------------------|----------|
| Mfg.          | Model             | Part No. |
| Lutron        | Nova series       | NFTV     |
| Leviton       | IllumaTech series | IP710-DL |
| Lutron        | Diva series       | DVTV     |

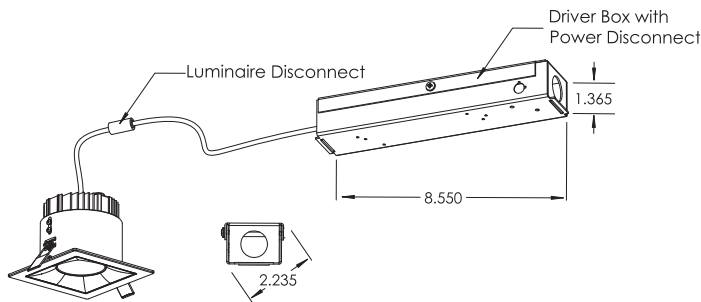
### 0-10V DIM VOLTAGE REFERENCE FOR -DIMA1 CODE



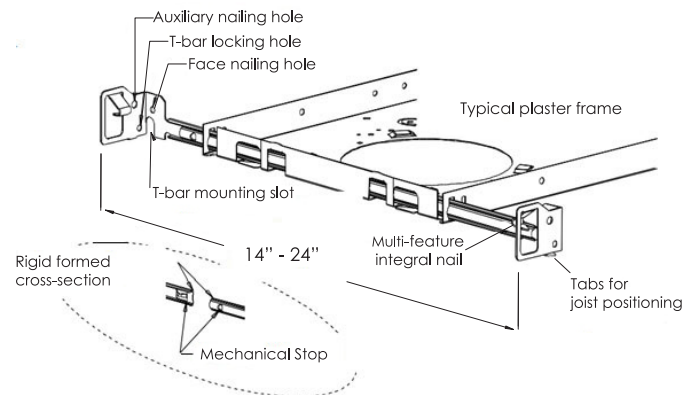
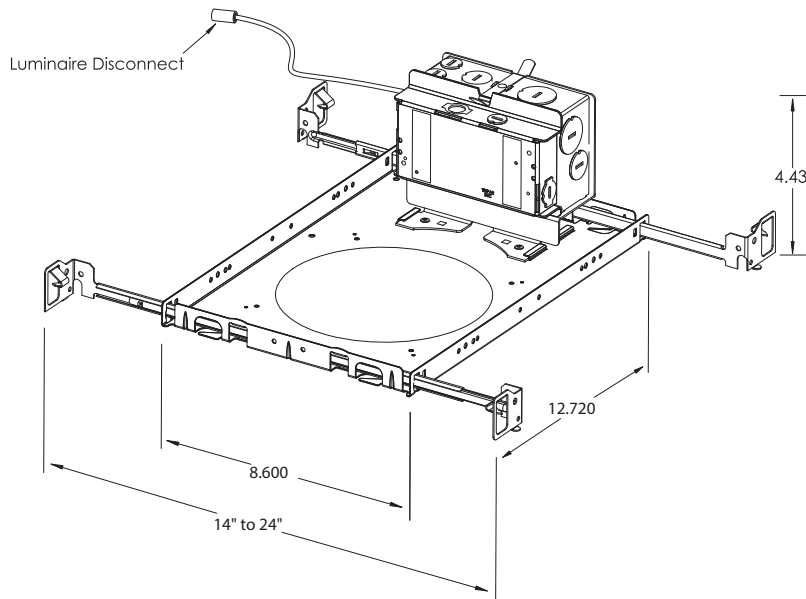
## Remodeler Mounting (No Suffix)

Mounting dimensions shown are for -DIMA1, -10V, -10V1, up to 50W input power and -LUT1, -LUTZ1 up to 20W input power.

Larger remodeler driver box for higher wattages and other dimming options as well, not shown below.



## HB Suffix Mounting



## HBH Suffix Mounting

