

## ID+ 4.5"

LED ADJUSTABLE DOWNLIGHT



0°-15° tilt Spot detail



15°-30° tilt Spot detail



25°-40° tilt Spot detail



Clear Diffuse



Warm Diffuse



White

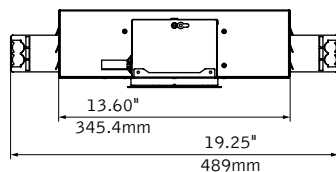
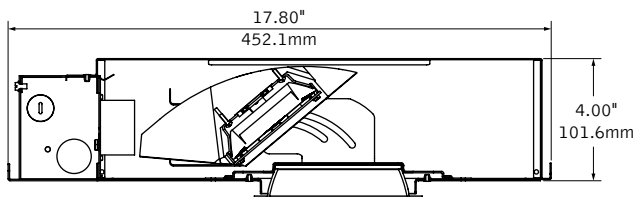


Black

Clear Diffuse &  
White flangeWarm Diffuse &  
White flange

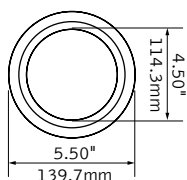
## DIMENSIONAL DATA

T housing\* (Solite lens optic shown)

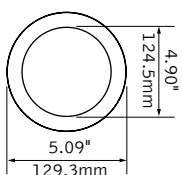


\*IC/CP housings - 5.00" height.

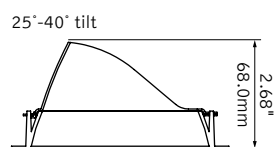
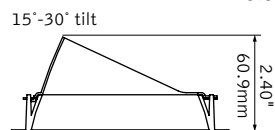
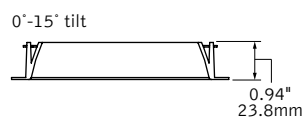
## Overlap



## Trimless



## Spot optic, no lens



## FEATURES

12° beam is ideal for art and object accenting, additional beamreads up to 90° complement any application.

Allows for aiming with locking 40° vertical tilt and 364° rotation of light module.

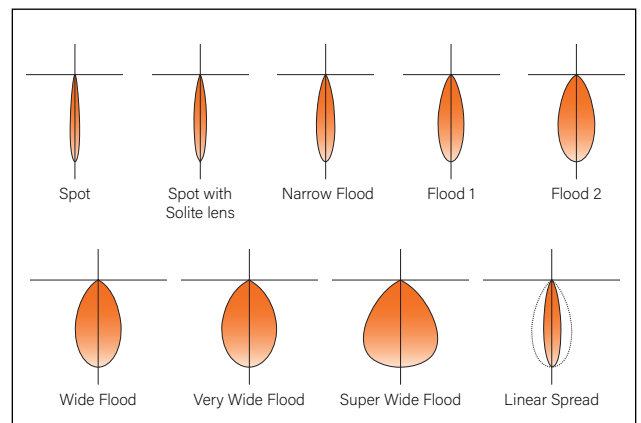
Overlap and trimless options.

Warm Dim: Lighting that enhances spaces with a warm glow, reminiscent of incandescent or halogen light sources.

PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

Outdoor rating permits use in outdoor covered ceiling applications.

## DISTRIBUTIONS



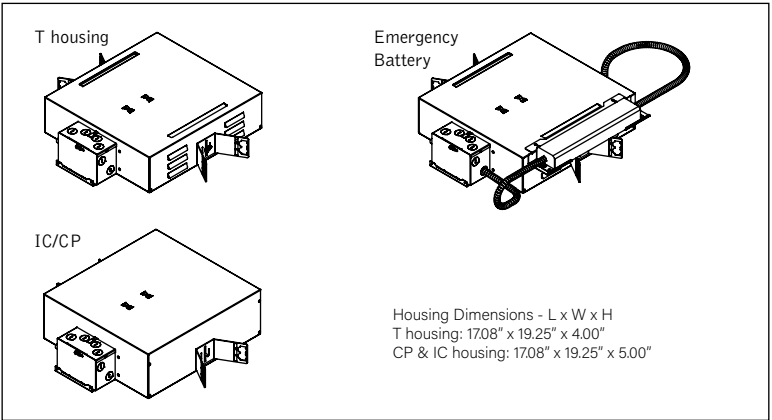
Distribution curves shown based on 2000L, Round Overlap, Clear Diffuses. Photometric performance is measured in accordance with IESNA LM-79. Visit [focalpointlights.com](http://focalpointlights.com) for complete photometric data.



fixture:

project:

HOUSING DETAILS



HOUSING SPECIFICATIONS

**LED System**  
Proprietary LED module with single light emitting source. May be specified in 2700K, 3000K, 3500K or 4000K in CRI>80, CRI>90, or CRI>97. Color accuracy within 2 SDCM. Warm Dim within 3-5 SDCM. Aluminum heat sink provides appropriate thermal management.

**Construction**  
T housing for new construction applications. Insulation to be kept 3" away from housing. Type IC inherently protected, suitable for direct contact with insulation. Butterfly brackets allow mounting to ½" emt. Order bar hangers as an accessory. Cast aluminum heat sink designed for maximum thermal dissipation. Die-formed housing and integral junction box with (7) ½" pry outs. UL & cUL listed for (8) #12 AWG (4 in, 4 out) 90°C conductors and feed through-branch wiring. Accommodates ceiling thicknesses from 0.5"-1.5" standard. For thicker ceiling consult factory. Fixture will not exceed 15lb.

**Adjustment**  
Manual locking 40° vertical tilt and 364° rotation of light module.

**Electrical**  
Choice of constant current dimming drivers. Power factor > .9 typical. PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

**Emergency Battery**  
Emergency output—7W for 90 minutes. Maximum mounting height: 19ft. For applications requiring higher than 2000L consult factory for maximum mounting height. Above ceiling access only.

**Labels**  
UL and cUL listed. Suitable for Dry, Damp or Wet Locations indoor use only. Wet Location Solite lens options only. Specify Outdoor rated (OD) for outdoor recessed ceiling applications.

**Lumen Maintenance**  
Reported: L70 at >55,000 hours      Calculated: L70 at 204,000 hours  
Reported: L90 at >55,000 hours      Calculated: L90 at 59,000 hours  
Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.

**Reliability**  
At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

**Warranty**  
LED System rated for operation in ambient environments up to 25°C. 5-year limited warranty.

TRIM SPECIFICATIONS

**Aesthetics**  
Parabolic reflector cone ensures glare free optics. Reflector is die-cast aluminum. Torsion springs pull trim tight to the ceiling with no visible fasteners within the trim. Trim is inherently air tight with Solite lens. Trims are self-flanged. Non-painted trim matches reflector finish. White or Black painted flange may also be specified. Spot distribution is offered with Solite lens and No lens options. No lens options with greater than 15° vertical tilt, feature a shroud to conceal internal components and maintain a premium aesthetic while providing a narrow spot distribution.

**Optics**  
75-degree cut-off to light source and its image.

| Lumen range | Distribution Beam Spread |                |               |               |               |               |               |               |                              |
|-------------|--------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|------------------------------|
|             | Spacing Criteria         |                |               |               |               |               |               |               |                              |
|             | SP                       | SP with Solite | NFL           | FL1           | FL2           | WFL           | VWFL          | SWFL          | LS                           |
| 1000 - 2000 | 12.6°<br>0.22            | 17.7°<br>0.32  | 24.0°<br>0.42 | 33.6°<br>0.56 | 48.0°<br>0.76 | 60.4°<br>0.88 | 72.2°<br>1.00 | 86.4°<br>1.24 | 22.8° x 51.8°<br>0.42 x 0.80 |
| 2500 - 4000 | -                        | -              | 24.9°<br>0.42 | 37.1°<br>0.60 | 44.1°<br>0.70 | 56.7°<br>0.86 | 74.2°<br>1.04 | 87.4°<br>1.26 | 28.6° x 58.9°<br>0.52 x 0.84 |

PERFORMANCE CHART

See Page 3

Focal Point LLC reserves the right to change specifications for product improvement without notification.

| HOUSING ORDERING                                                                                                |  | FLCS4    |
|-----------------------------------------------------------------------------------------------------------------|--|----------|
| Housing Series                                                                                                  |  |          |
| ID+ 4.5" Round Housing                                                                                          |  | FLCS4    |
| Trim Type                                                                                                       |  |          |
| Round Overlap                                                                                                   |  | RO       |
| Round Trimless                                                                                                  |  | RT       |
| Lumen Output                                                                                                    |  |          |
| 1000 Lumens                                                                                                     |  | 1000L    |
| 1500 Lumens                                                                                                     |  | 1500L    |
| 2000 Lumens                                                                                                     |  | 2000L    |
| 2500 Lumens                                                                                                     |  | 2500L    |
| 3000 Lumens                                                                                                     |  | 3000L    |
| 3500 Lumens                                                                                                     |  | 3500L    |
| 4000 Lumens                                                                                                     |  | 4000L    |
| (Not available with 97+ CRI)                                                                                    |  |          |
| Color Temperature                                                                                               |  |          |
| (Add 9 for 90 CRI or H for 97 CRI. Leave blank for 80 CRI. CRI 97: T & TW housing 3500L max, IC housing 2000L.) |  |          |
| 2700K, 80/90/97+ CRI                                                                                            |  | _27K     |
| 3000K, 80/90/97+ CRI                                                                                            |  | _30K     |
| 3500K, 80/90/97+ CRI                                                                                            |  | _35K     |
| 4000K, 80/90/97+ CRI                                                                                            |  | _40K     |
| Warm Dim: 2700-1800K, 90+ CRI*                                                                                  |  | 92718W   |
| Warm Dim: 3000-1800K, 90+ CRI*                                                                                  |  | 93018W   |
| *(1000L, 1500L, 2500L only. IC, UNV or LV available with 1000L & 1500L only.)                                   |  |          |
| Distribution                                                                                                    |  |          |
| Spot (2000L max.)                                                                                               |  | SP       |
| Narrow Flood                                                                                                    |  | NFL      |
| Flood 1                                                                                                         |  | FL1      |
| Flood 2                                                                                                         |  | FL2      |
| Wide Flood                                                                                                      |  | WFL      |
| Very Wide Flood                                                                                                 |  | VWFL     |
| Super Wide Flood                                                                                                |  | SWFL     |
| Linear Spread Lens                                                                                              |  | LS       |
| Voltage                                                                                                         |  |          |
| UNV 120/277 Volt                                                                                                |  | UNV      |
| (L11 & LD1 2500L max., LZ1, DZ1, D11, LFP 2000L max., LH1 1500L max.)                                           |  |          |
| 120 Volt                                                                                                        |  | 120      |
| 277 Volt                                                                                                        |  | 277      |
| Low Voltage                                                                                                     |  | LV       |
| (2500L max.)                                                                                                    |  |          |
| Driver                                                                                                          |  |          |
| 0-10V - 0% Dimming                                                                                              |  | LZ1      |
| 0-10V - 1% Dimming                                                                                              |  | L11      |
| 0-10V - 10% Dimming                                                                                             |  | LD1      |
| Forward Phase (120V only)                                                                                       |  | LFP      |
| Low Voltage, PoE Compatible                                                                                     |  | LVN      |
| (No driver, LV Voltage only. Not available with EM.)                                                            |  |          |
| Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming                                                                    |  | LH1      |
| DALI - 0% Dimming                                                                                               |  | DZ1      |
| DALI - 1% Dimming                                                                                               |  | D11      |
| Housing Type                                                                                                    |  |          |
| IC rated                                                                                                        |  | IC       |
| (L11, LD1 & LVN 2500L max. LZ1, DZ1, D11 & LFP 2000L max. LH1 1500L max.)                                       |  |          |
| Non-IC                                                                                                          |  | T        |
| (LZ1, LH1, DZ1, D11 3000L max. LFP 3500L max.)                                                                  |  |          |
| Non-IC Wood                                                                                                     |  | TW       |
| (RT only, requires Trimless Wood Kit.)                                                                          |  |          |
| Factory Options                                                                                                 |  |          |
| Bar Hangers                                                                                                     |  | BH       |
| Chicago Plenum                                                                                                  |  | CP       |
| Emergency Battery with Remote Test Switch                                                                       |  | EMR      |
| (T housing only. Not available with Warm Dim. Above ceiling access only.)                                       |  |          |
| Outdoor Rated                                                                                                   |  | OD       |
| (LD1 driver only. IC housing 2500L max. Solite lens optic only. See dimming Performance Chart on page 3.)       |  |          |
| TRIM ORDERING                                                                                                   |  |          |
| Aperture                                                                                                        |  |          |
| 4.5" Round Aperture                                                                                             |  | LCS4     |
| Trim Type                                                                                                       |  |          |
| Round Die-Cast Overlap                                                                                          |  | RDO      |
| Round Die-Cast Trimless                                                                                         |  | RDT      |
| Optic                                                                                                           |  |          |
| (SP distribution available with all Optic options, all other distributions SL only)                             |  |          |
| Solite Lens                                                                                                     |  | SL       |
| Spot Optic, no lens, for 0°-15° tilt                                                                            |  | SP00     |
| Spot Optic, no lens, for 15°-30° tilt                                                                           |  | SP30     |
| Spot Optic, no lens, for 25°-40° tilt                                                                           |  | SP40     |
| Color                                                                                                           |  |          |
| Clear Diffuse                                                                                                   |  | CD       |
| Warm Diffuse                                                                                                    |  | WD       |
| Black                                                                                                           |  | BK       |
| White                                                                                                           |  | WH       |
| Optional Flange Finish                                                                                          |  |          |
| (Overlap CD & WD finish only.) (For matching finishes leave blank)                                              |  |          |
| Black Painted                                                                                                   |  | BP       |
| White Painted                                                                                                   |  | WP       |
| ACCESSORIES                                                                                                     |  |          |
| Distribution Kit                                                                                                |  | FLCS4-__ |
| (Order kits to change distribution in field. Add Distribution code from above. Example FLCS4-SP)                |  |          |
| Spot Optic Tilt Kit                                                                                             |  | KIT-     |
| (Add code for desired title degree - 15°-30° = SP30, 25°-40° = SP40, Both = SPB)                                |  | FLCS4-__ |
| Trimless Wood Kit                                                                                               |  | FLCS4-   |
| (One kit suggested per 10 units)                                                                                |  | WOOD-KIT |

4.5" ROUND ADJUSTABLE DOWNLIGHT PERFORMANCE TABLE

| Lumen Output                                                                            | Delivered Lumens | System Watts | LPW |
|-----------------------------------------------------------------------------------------|------------------|--------------|-----|
| 1000L                                                                                   | 1042             | 11.5         | 91  |
|  1000L | 847              | 14.6         | 58  |
| 1500L                                                                                   | 1508             | 16.8         | 90  |
|  1500L | 1519             | 23.5         | 65  |
| 2000L                                                                                   | 2025             | 23.7         | 85  |
| 2500L                                                                                   | 2561             | 27.2         | 94  |
|  2500L | 2317             | 37.1         | 62  |
| 3000L                                                                                   | 3073             | 32.5         | 95  |
| 3500L                                                                                   | 3539             | 38.1         | 93  |
| 4000L                                                                                   | 4113             | 44.3         | 93  |

Based on SL optic, 3500K, 80CRI, Narrow Flood, Clear Diffuse. Warm Dim based on 3000 - 1800K, 90 CRI. Overlap and trimless offer identical performance. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

OUTDOOR RATED (OD) DRIVER DIMMING PERFORMANCE TABLE

| Lumen Output | Minimum Dimming Level |
|--------------|-----------------------|
| 1000L        | 13%                   |
| 1500L        | 10%                   |
| 2000L        | 10%                   |
| 2500L        | 10%                   |
| 3000L        | 10%                   |
| 3500L        | 10%                   |
| 4000L        | 10%                   |

4.5" ROUND DOWNLIGHT LUMEN MULTIPLIER TABLE

Color Temperature & CRI<sup>1</sup>

| Color Options                                                                                | Lumen Output | Color Temperature & CRI      | Multiplier |
|----------------------------------------------------------------------------------------------|--------------|------------------------------|------------|
| Standard White                                                                               | All Outputs  | 2700K, 80+ CRI [27K]         | 0.92       |
|                                                                                              |              | 2700K, 90+ CRI [927K]        | 0.79       |
|                                                                                              |              | 2700K, 97+ CRI [927K]        | 0.67       |
|                                                                                              |              | 3000K, 80+ CRI [30K]         | 0.98       |
|                                                                                              |              | 3000K, 90+ CRI [930K]        | 0.83       |
|                                                                                              |              | 3000K, 97+ CRI [9730K]       | 0.72       |
|                                                                                              |              | 3500K, 80+ CRI [35K]         | 1.00       |
|                                                                                              |              | 3500K, 90+ CRI [935K]        | 0.82       |
|                                                                                              |              | 3500K, 97+ CRI [9735K]       | 0.73       |
|                                                                                              |              | 4000K, 80+ CRI [40K]         | 1.01       |
|  Warm Dim | 1000L        | 2700-1800K, 90+ CRI [92718W] | 0.75       |
|                                                                                              |              | 3000-1800K, 90+ CRI [93018W] | 0.85       |
|                                                                                              | 1500L        | 2700-1800K, 90+ CRI [92718W] | 0.79       |
|                                                                                              |              | 3000-1800K, 90+ CRI [93018W] | 1.01       |
|                                                                                              | 2500L        | 2700-1800K, 90+ CRI [92718W] | 0.76       |
|                                                                                              |              | 3000-1800K, 90+ CRI [93018W] | 0.93       |

Distribution<sup>2</sup>

| Trim          | Distribution               | Round Overlap Multiplier |               | Round Trimless Multiplier |               |
|---------------|----------------------------|--------------------------|---------------|---------------------------|---------------|
|               |                            | 1000L - 2000L            | 2500L - 4000L | 1000L - 2000L             | 2500L - 4000L |
| Round Overlap | Spot [SP]                  | 1.08                     | —             | 1.08                      | —             |
|               | Spot with Solite lens [SP] | 1.06                     | —             | 1.06                      | —             |
|               | Narrow Flood [NFL]         | 1.01                     | 1.03          | 1.01                      | 1.03          |
|               | Flood 1 [FL1]              | 0.98                     | 0.93          | 0.98                      | 0.93          |
|               | Flood 2 [FL2]              | 1.00                     | 0.98          | 1.00                      | 0.98          |
|               | Wide Flood [WFL]           | 0.96                     | 0.90          | 0.96                      | 0.90          |
|               | Very Wide Flood [VWFL]     | 0.93                     | 0.91          | 0.93                      | 0.91          |
|               | Super Wide Flood [SWFL]    | 0.89                     | 0.88          | 0.89                      | 0.88          |
|               | Linear Spread [LS]         | 0.98                     | 0.97          | 0.98                      | 0.97          |

4.5" ROUND ADJUSTABLE DOWNLIGHT CBCP CHART

| Lumen Output | Distribution        | Beamspread    | Center Beam Candlepower (CBCP) |
|--------------|---------------------|---------------|--------------------------------|
| 2000L        | SP                  | 12.6°         | 28962                          |
|              | SP with Solite lens | 17.7°         | 12854                          |
|              | NFL                 | 24.0°         | 8035                           |
|              | FL1                 | 33.6°         | 4276                           |
|              | FL2                 | 48.0°         | 2518                           |
|              | WFL                 | 60.4°         | 1719                           |
|              | VWFL                | 72.2°         | 1332                           |
|              | SWFL                | 86.4°         | 985                            |
|              | LS                  | 22.8° x 51.8° | 4327                           |

Color<sup>3</sup>

| Trim | Color              | Multiplier |
|------|--------------------|------------|
| All  | Clear Diffuse [CD] | 1.00       |
|      | Warm Diffuse [WD]  | 0.98       |
|      | White [WH]         | 1.01       |
|      | Black [BK]         | 0.93       |
|      |                    |            |

How To Use Lumen Multipliers

**Formula:**  
(Lumen Output Value) x (Color Temperature & CRI<sup>1</sup>) x (Distribution<sup>2</sup>) x (Color<sup>3</sup>)

**Example:**  
FLCS4-RO-2000L-935K-FL1-LCS4-RDO-WH  
(2000) x (0.82) x (.98) x (1.01) ≈ 1623lm (estimated delivered lumens)

Multiplier charts are provided to aid with estimation of lumen levels across options. Apply multipliers against ordered Lumen Output to estimate Delivered Lumens. An estimation should make use of all tables through consecutive application of three multipliers. Refer to IES files for most accurate photometric information.