

# ID+ 2.5"

OVERLAP & TRIMLESS LED DOWNLIGHTS



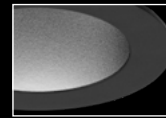
Solite lens



Clear diffuse



Warm diffuse



Black



White

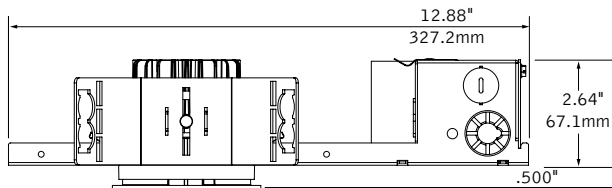


Optional painted flanges

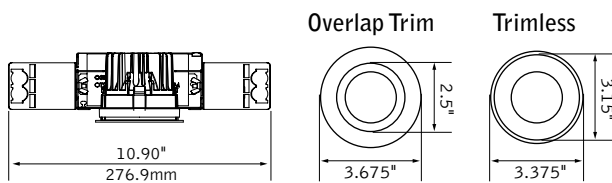


Wall Wash companion

## DIMENSIONAL DATA



Field adjustability of ceiling thickness from 0.5" - 1.5"  
Housing height with DALI, Lutron & LZ1 drivers is 3.0"



## FEATURES

Less than 2.64" low profile housing available.

60° and 75° cut-off reflector options available.

25° to 90° beam spreads support accent lighting, task lighting and general illumination

Solite lens with die-cast trim delivers 70° or 90° beam spread options.

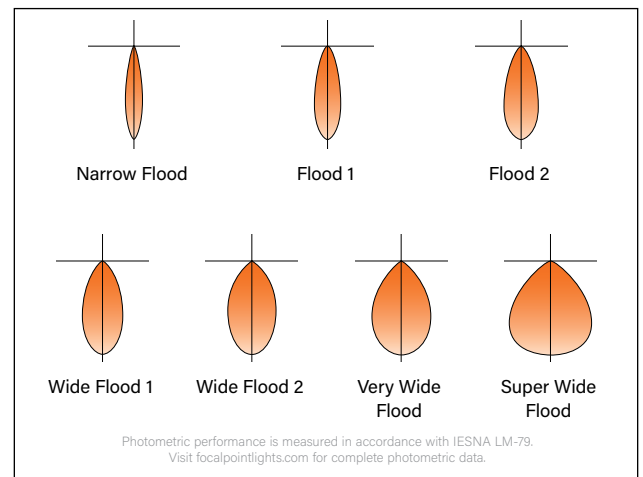
Warm Dim: Lighting that enhances spaces with a warm glow, reminiscent of incandescent or halogen light sources.

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

Configurations available for Title 24 JA8 High Efficacy Lighting compliance.

Available with The Naturals, a series of finishes that exude biophilic beauty.

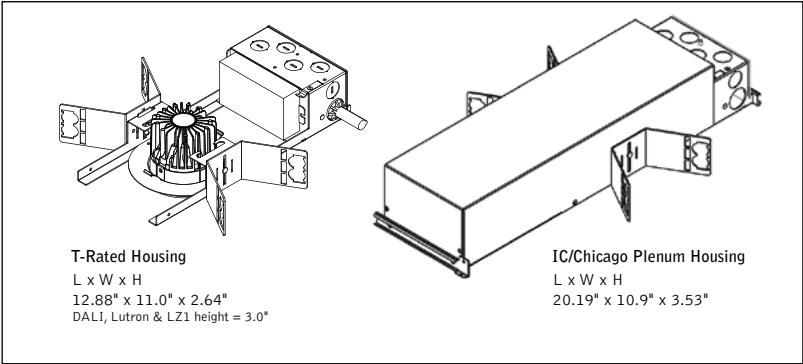
## DISTRIBUTIONS



fixture:

project:

HOUSING DETAILS



HOUSING SPECIFICATIONS

Construction

Thermally protected housing for new construction applications. Insulation to be kept 3" away from housing. Type IC inherently protected, suitable for direct contact with insulation. Restrictive airflow per ASTM-E283. LC2AT trim is inherently airtight and may be used to obtain airtight rating when used with IC-rated or thermally protected, non-IC (T) housings. Butterfly brackets allow mounting to 1/2" emt. Order bar hangers as an accessory. Die-cast aluminum heat sink designed for maximum thermal dissipation. Die-formed housing and integral junction box with (7) 1/2" pry outs. Accommodates ceiling thicknesses up to 0.5" standard, field adjustable up to 1.5" thickness. Fixture will not exceed 5 lb.

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

Above ceiling access required, overlap trim only. Emergency output - 7W for 90 minutes. Maximum mounting height: Clear Diffuse & White: 17.2ft. Black & Warm Diffuse: 15.5ft.

Labels

UL and cUL Listed. Suitable for Dry, Damp or Wet Locations, indoor use only. Specify Outdoor rated (OD) for outdoor recessed ceiling applications. Configurations available for Title 24 JA8 compliance, consult the JA8 High Efficacy Lighting Reference Guide for options. JA8 factory option must be specified to ensure Title 24 JA8 compliance.

Lumen Maintenance

Reported: L70 at >55,000 hours      Calculated: L70 at 204,000 hours  
L90 at >55,000 hours                      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. Fixture with Outdoor rated option must be installed in a covered ceiling and is warrantied for operation in ambient environments between -20°C to +40°C.

TRIM & LED SPECIFICATIONS

LED System

Proprietary array incorporates premium LEDs on a robust platform. May be specified in 2700K, 3000K, 3500K or 4000K, or Warm Dimming (2700K-1800K and 3000K-1800K), CRI>80, >90 or 97. Color accuracy within 2 SDCM (Warm Dimming from 3-5 SDCM). Aluminum heat sink provides appropriate thermal management.

Aesthetics

Die-cast aluminum trims. Overlap trims are self-flanged. The Naturals: 100% low VOC vinyl available with DSS only.

Optics

60-degree or 75-degree cut-off to light source and its image.

| Optic | Cut-Off Degree | Trim Type | Distribution Beam Spread   Spacing Criteria |            |            |            |            |            |            |
|-------|----------------|-----------|---------------------------------------------|------------|------------|------------|------------|------------|------------|
|       |                |           | NFL                                         | FL1        | FL2        | WFL1       | WFL2       | VWFL       | SWFL       |
| DNS   |                | Overlap   | 20°   0.36                                  | 33°   0.54 | 42°   0.68 | 52°   0.80 | 64°   0.92 | -          | -          |
|       |                | Trimless  | 21°   0.38                                  | 33°   0.54 | 43°   0.68 | 51°   0.78 | 62°   0.88 | -          | -          |
| DSS   |                | Overlap   | -                                           | -          | -          | 52°   0.86 | 61°   0.88 | 70°   1.02 | 81°   1.14 |
|       |                | Trimless  | -                                           | -          | -          | 52°   0.84 | 65°   0.90 | 69°   0.98 | 89°   1.26 |

PERFORMANCE TABLE - see page 3.

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

| HOUSING ORDERING                                                                                                 |                                           | FLC2D         |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------|
| <b>Housing Series</b>                                                                                            | ID+ 2.5" Round                            | FLC2D         |
| <b>Trim Type</b>                                                                                                 | Round Overlap                             | RDO           |
|                                                                                                                  | Round Trimless                            | RDT           |
| <b>Color Options</b>                                                                                             | Standard White, 80 & 90 CRI               | SW            |
|                                                                                                                  | High 97 CRI                               | HC            |
|                                                                                                                  | Warm Dim                                  | WDM           |
| (900L only. UNV, LV & EMR not available.)                                                                        |                                           |               |
| <b>Lumen Output</b>                                                                                              | 500 Lumen (LT1, LD1 & LVN only)           | 500L          |
|                                                                                                                  | 700 Lumen (Not available with LFP or LH1) | 700L          |
|                                                                                                                  | 900 Lumen (Not available with LFP or LH1) | 900L          |
|                                                                                                                  | 1100 Lumen                                | 1100L         |
|                                                                                                                  | 1300 Lumen                                | 1300L         |
|                                                                                                                  | 1500 Lumen                                | 1500L         |
|                                                                                                                  | 1700 Lumen                                | 1700L         |
|                                                                                                                  | 1900 Lumen (LT1, LD1 & LH1 only)          | 1900L         |
| <b>Voltage</b>                                                                                                   | 120/277 Volt                              | UNV           |
| (IC housing: SW & HC: 1500L max. T & TW housings: SW 1100L max., HC: 900L max.)                                  |                                           |               |
|                                                                                                                  | 120V                                      | 120           |
|                                                                                                                  | 277V                                      | 277           |
| <b>Low Voltage</b>                                                                                               |                                           | LV            |
| (IC housing: SW & HC: 1500L max. T & TW housings: SW 1100L max., HC: 900L max.)                                  |                                           |               |
| <b>Control System &amp; Dimming Level</b>                                                                        | 0-10V <1% Dimming                         | LZ1           |
|                                                                                                                  | 0-10V - 1% Dimming                        | L11           |
|                                                                                                                  | 0-10V - 10% Dimming                       | LD1           |
| <b>Low Voltage, PoE Compatible</b>                                                                               |                                           | LVN           |
| (No driver. Not available with EMR. LV voltage only.)                                                            |                                           |               |
|                                                                                                                  | Forward Phase (120V only)                 | LFP           |
| <b>Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming</b>                                                              |                                           | LH1           |
|                                                                                                                  | DALI <1% Dimming                          | DZ1           |
|                                                                                                                  | DALI - 1% Dimming                         | D11           |
| <b>Housing Type</b>                                                                                              | IC Rated / Airtight (1500L max.)          | IC            |
|                                                                                                                  | Thermally Protected, Non-IC               | T             |
| <b>Thermally Protected, Non-IC Wood</b>                                                                          |                                           | TW            |
| (Trimless only. Wood kit required)                                                                               |                                           |               |
| <b>Factory Options</b>                                                                                           | Bar Hangers                               | BH            |
|                                                                                                                  | Chicago Plenum                            | CP            |
| <b>Emergency Battery - Remote test switch</b>                                                                    |                                           | EMR           |
| (Overlap trim & T Housing only. Above ceiling access.)                                                           |                                           |               |
| <b>Outdoor Rated</b>                                                                                             |                                           | OD            |
| (LD1 driver and T-rated housing only. Not available with CP or EMR. See dimming performance table on page 3.)    |                                           |               |
| <b>Title 24 / JA8 Compliant</b>                                                                                  |                                           | JA8           |
| (Consult JA8 Reference Guide for available options.)                                                             |                                           |               |
| <b>TRIM &amp; LED MODULE</b>                                                                                     |                                           |               |
| <b>Aperture</b>                                                                                                  | 2.5" Round Reflector                      | LC2           |
|                                                                                                                  | 2.5" Round Airtight Reflector             | LC2AT         |
| <b>Trim Type</b>                                                                                                 | Round Overlap                             | RDO           |
|                                                                                                                  | Round Trimless                            | RDT           |
| <b>Lumen Output</b>                                                                                              |                                           |               |
| Trim & housing output must match. See options above.                                                             |                                           |               |
| <b>Color Temperature</b>                                                                                         |                                           |               |
| (Add 9 for 90 CRI or H for 97 CRI. Leave blank for 80 CRI. Examples: 2700K, 97 CRI = H27K. 2700K, 80 CRI = 27K.) |                                           |               |
|                                                                                                                  | 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        |
| <b>Optic</b>                                                                                                     |                                           |               |
|                                                                                                                  | Short Cone with 60° cut-off               | DNS           |
| <b>Super Short Cone with Solite Lens 75° cut-off</b>                                                             |                                           | DSS           |
| <b>Distribution</b>                                                                                              |                                           |               |
|                                                                                                                  | Narrow Flood (DNS only)                   | NFL           |
|                                                                                                                  | Flood (DNS only)                          | FL1           |
|                                                                                                                  | Flood (DNS only)                          | FL2           |
|                                                                                                                  | Wide Flood                                | WFL1          |
|                                                                                                                  | Wide Flood                                | WFL2          |
|                                                                                                                  | Very Wide Flood (DSS only)                | VWFL          |
|                                                                                                                  | Super Wide Flood (DSS only)               | SWFL          |
| <b>Finish</b>                                                                                                    |                                           |               |
| (See finishes page for The Naturals options available on DSS optic only.)                                        |                                           |               |
|                                                                                                                  | Clear Diffuse                             | CD            |
|                                                                                                                  | Warm Diffuse                              | WD            |
|                                                                                                                  | Black                                     | BK            |
|                                                                                                                  | White                                     | WH            |
| <b>Optional Flange Finish</b>                                                                                    |                                           |               |
| (Overlap CD & WD finish only. For matching finishes leave blank.)                                                |                                           |               |
|                                                                                                                  | Black Painted                             | BP            |
|                                                                                                                  | White Painted                             | WP            |
| <b>Factory Options</b>                                                                                           |                                           |               |
| <b>Title 24 / JA8 Compliant</b>                                                                                  | (Trim & housing must match.)              | JA8           |
| <b>ACCESSORIES</b>                                                                                               |                                           |               |
| <b>Trimless Wood Ceiling Installation Kit</b>                                                                    |                                           | LC2- WOOD-KIT |
| (One kit recommended per 10 downlights)                                                                          |                                           |               |

2.5" ROUND DOWNLIGHT PERFORMANCE TABLE

| Lumen Output                                                                           | Delivered Lumens | System Watts | LPW |
|----------------------------------------------------------------------------------------|------------------|--------------|-----|
| 500L                                                                                   | 513              | 6            | 86  |
| 700L                                                                                   | 756              | 8.2          | 92  |
|  900L | 880              | 14.6         | 60  |
| 900L                                                                                   | 929              | 9.9          | 94  |
| 1100L                                                                                  | 1139             | 11.9         | 96  |
| 1300L                                                                                  | 1354             | 16.2         | 84  |
| 1500L                                                                                  | 1527             | 18.1         | 84  |
| 1700L                                                                                  | 1746             | 20.7         | 84  |
| 1900L                                                                                  | 1949             | 23.3         | 84  |

Based on Overlap, Short cone, 3500K, 80 CRI, Flood 2, Clear Diffuse. WDM based on 3000 - 1800K, 90 CRI. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

OUTDOOR RATED (OD) DRIVER DIMMING PERFORMANCE TABLE

| Lumen Output | Minimum Dimming Level |
|--------------|-----------------------|
| 500L         | 25%                   |
| 700L         | 17%                   |
| 900L         | 13%                   |
| 1100L        | 10%                   |
| 1300L        | 10%                   |
| 1500L        | 10%                   |
| 1700L        | 10%                   |
| 1900L        | 10%                   |

2.5" ROUND DOWNLIGHT LUMEN MULTIPLIER TABLE

Color Temperature & CRI

| Trim Type | Optic | Color Temperature & CRI |                  | Multiplier |
|-----------|-------|-------------------------|------------------|------------|
| ALL       | ALL   | 2700K                   | 80+ CRI [27K]    | 0.92       |
|           |       |                         | 90+ CRI [927K]   | 0.79       |
|           |       |                         | 97 CRI [H27K]    | 0.67       |
|           |       | 3000K                   | 80+ CRI [30K]    | 0.98       |
|           |       |                         | 90+ CRI [930K]   | 0.83       |
|           |       |                         | 97 CRI [H30K]    | 0.72       |
|           |       | 3500K                   | 80+ CRI [35K]    | 1.00       |
|           |       |                         | 90+ CRI [935K]   | 0.82       |
|           |       |                         | 97 CRI [H35K]    | 0.73       |
|           |       | 4000K                   | 80+ CRI [40K]    | 1.01       |
|           |       |                         | 90+ CRI [940K]   | 0.84       |
|           |       |                         | 97 CRI [H40K]    | 0.76       |
|           |       | 2700-1800K              | 90+ CRI [92718K] | 0.93       |
|           |       | 3000-1800K              | 90+ CRI [93018K] | 0.98       |

Distribution

| Trim Type            | Optic                                                    | Distribution            | Multiplier |
|----------------------|----------------------------------------------------------|-------------------------|------------|
| Round Trimless [RDT] | Short Cone with 60° cut-off [DNS]                        | Narrow Flood [NFL]      | 1.05       |
|                      |                                                          | Flood 1 [FL1]           | 0.99       |
|                      |                                                          | Flood 2 [FL2]           | 1.03       |
|                      |                                                          | Wide Flood 1 [WFL1]     | 1.00       |
|                      |                                                          | Wide Flood 2 [WFL2]     | 0.91       |
|                      |                                                          | Wide Flood 1 [WFL1]     | 1.07       |
|                      | Super Short Cone with Solite Lens with 75° cut-off [DSS] | Wide Flood 2 [WFL2]     | 0.82       |
|                      |                                                          | Very Wide Flood [VWFL]  | 0.85       |
|                      |                                                          | Super Wide Flood [SWFL] | 0.75       |
|                      |                                                          | Super Wide Flood [SWFL] | 0.75       |
| Round Overlap [RDO]  | Short Cone with 60° cut-off [DNS]                        | Narrow Flood [NFL]      | 1.05       |
|                      |                                                          | Flood 1 [FL1]           | 0.99       |
|                      |                                                          | Flood 2 [FL2]           | 1.03       |
|                      |                                                          | Wide Flood 1 [WFL1]     | 1.00       |
|                      |                                                          | Wide Flood 2 [WFL2]     | 0.91       |
|                      |                                                          | Wide Flood 1 [WFL1]     | 1.07       |
|                      | Super Short Cone with Solite Lens with 75° cut-off [DSS] | Wide Flood 2 [WFL2]     | 0.82       |
|                      |                                                          | Very Wide Flood [VWFL]  | 0.85       |
|                      |                                                          | Super Wide Flood [SWFL] | 0.75       |
|                      |                                                          | Super Wide Flood [SWFL] | 0.75       |

Color

| Trim Type | Optic                                                    | Color              | Multiplier |
|-----------|----------------------------------------------------------|--------------------|------------|
| ALL       | Short Cone with 60° cut-off [DNS]                        | Clear Diffuse [CD] | 1.00       |
|           |                                                          | Warm Diffuse [WD]  | 0.99       |
|           |                                                          | White [WH]         | 1.08       |
|           |                                                          | Black [BK]         | 0.90       |
|           | Super Short Cone with Solite Lens with 75° cut-off [DSS] | Clear Diffuse [CD] | 1.00       |
|           |                                                          | Warm Diffuse [WD]  | 0.98       |
|           |                                                          | White [WH]         | 1.08       |
|           |                                                          | Black [BK]         | 0.90       |
|           |                                                          | Clear Diffuse [CD] | 1.00       |
|           |                                                          | Warm Diffuse [WD]  | 0.98       |
|           |                                                          | White [WH]         | 1.08       |
|           |                                                          | Black [BK]         | 0.90       |

How To Use Lumen Multipliers

**Formula:**  
(Lumen Output Value) x  
(Color Temperature & CRI) x  
(Distribution) x  
(Color)

**Example:**  
LC2-RDO-SW-1100L-935K-DNS-FL1-WH

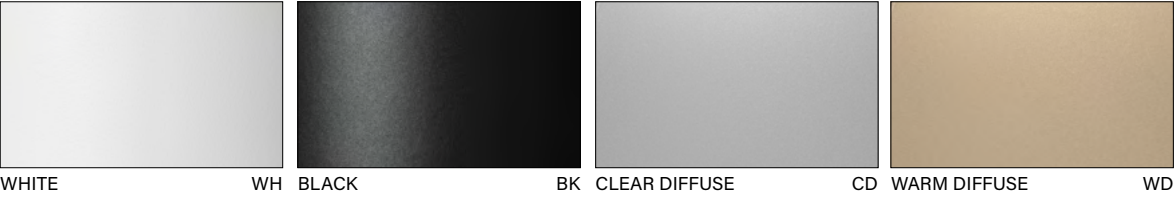
(1100) x (0.83) x (0.99) x (1.08) ≈ 976lm  
(estimated delivered lumens)

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,

# Finishes



**STANDARD FINISHES**



**THE NATURALS (25% SCALE)** - Available with Super Short Cone (DSS) only

