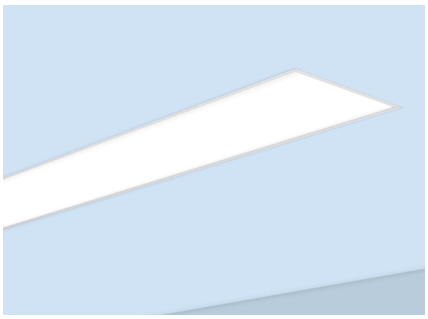
MARK ARCHITECTURAL LIGHTING

# SPECIFICATIONS

TYPE:

PROJECT:



# SLOT 4

RECESSED
TUNABLE WHITE
DC2DC ARCHITECTURE

## HIGHLIGHTS

- 300 to 1000 lumens per foot Direct
- Two lens depths: 0D (Flush) and 1D (1" Regress)
- 5 direct distributions: Lambertian, Batwing, Wall Wash, Wall Graze, or Asymmetric
- Multiple lens treatment options: Continuous Flush and Drop in 1/2", 1", or 1-1/2" depths
- Shielding provided by optional louver
- Driver option for Dim to Dark
- White, black or silver paint with satin finish
- UGR data available on page 4.

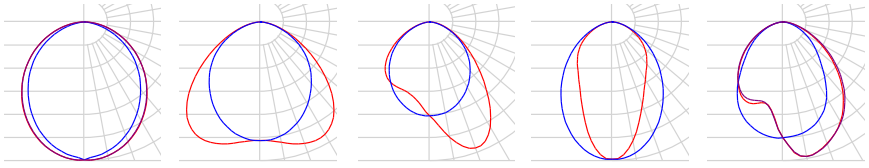
## FIXTURE PERFORMANCE

| | Direct* | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Nominal Lumens/Foot | 300LMF | | 400LMF | | 600LMF | | 800LMF | |
| CCT | 27K | 65K | 27K | 65K | 27K | 65K | 27K | 65K |
| Delivered Lumens/Foot | 299 | 331 | 410 | 441 | 633 | 660 | 856 | 879 |
| DC Input Watts/Foot** | 2.34 | 2.53 | 3.27 | 3.41 | 5.12 | 5.18 | 6.98 | 6.96 |
| Lumens/Watt | 128 | 131 | 125 | 129 | 124 | 127 | 123 | 126 |

| | Direct* | |
|---|---|---|
| Nominal Lumens/Foot | 1000LMF | |
| CCT | 27K | 65K |
| Delivered Lumens/Foot | 1043 | 1068 |
| DC Input Watts/Foot** | 8.56 | 8.49 |
| Lumens/Watt | 122 | 126 |

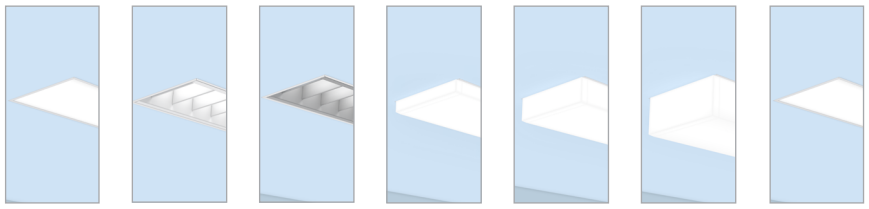
*Based on a 4FT 90CRI TUWH RHYR (27K-65K) fixture with 0" depth lens regress (OD), standard lambertian distribution, and flush lens (FLL)*
***Standard photometry based on AC wattage, DC wattage = AC wattage * .93.*
***Note**: See page 6 for Device Addresses and Feed details.*

## DIRECT DISTRIBUTION



Lambertian (no optic) | Batwing (DBW) | Wall Wash (WW) | Wall Graze (WG) | Asymmetric (DAS)

## DIFFUSERS/SHIELDING

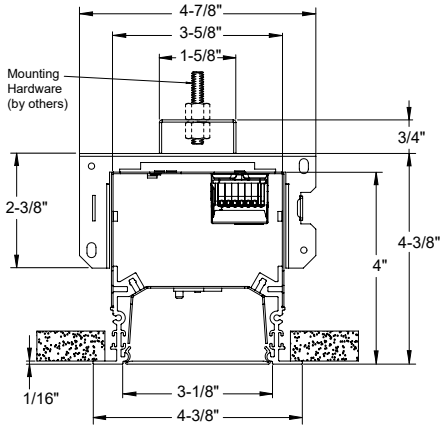


Flush Lens (FLL) | Louver (LVRR) Painted to Match Fixture Trim | Louver (LVRRA) Natural Aluminum | 1/2" Drop Lens (DRP05) | 1" Drop Lens (DRP1) | 1-1/2" Drop Lens (DRP15) | Continuous Lens (CLL) *40-foot maximum uninterrupted length

## DIMENSIONS

Section View

FL Trim with OD Lens Regress



# MARK ARCHITECTURAL LIGHTING™

# Slot 4

Recessed
Tunable White
DC2DC Architecture

## ORDERING

Example: S4RD LLP 8FT3.50 OD GB 90CRI TUWH RHYR 600LMF SCT DARK CLL MVOLT BLKT 2EC DALI8

### Series

**S4RD** Slot 4 Recessed Direct

### Linear Plan

**LOP** Optimized Length

### Total Run Length

**_FT_** Specify continuous linear feet to nearest 1/8" increments starting at 2FT (Example 24' - 6 1/8" = 24FT6.125)

**_FT[1]** Specify continuous linear feet to whole foot increments starting at 2FT (Example: 24' = 24FT)

Unit length may affect available options.

**For runs longer than 8FT: ALWAYS order the run by the TOTAL RUN LENGTH. Ordering the sections individually will not provide the correct joining hardware to allow run connections in the field.**

1. Use whole foot increment when using DRP05, DRP1, DRP15, LVRR, LVRRA. or zoning options.

### Lens Regress Depth

**OD** 0" Depth

**1D[1,2,3]** 1" Depth

1. Available with FLL, CLL, LVRR, or LVRRA Optional Shielding only.
2. Not available with Direct Distribution options.
3. Not available with FLINB or GBINB

### Ceiling Type

**FL** 5/8IN Flange (sheetrock)

**GB** Gypsum Board (sheetrock)

**FLINB** 5/8IN Flange (sheetrock) Install From Below

**GBINB** Gypsum Board (sheetrock) Install From Below

**TG** Grid Ceiling: 9/16" Flat Tee with Lay-In Tile, 9/16" Flat Tee with Tegular Tile, 9/16" Slot Tee with Tegular Tile, 15/16" Flat Tee with Lay-In Tile, & 15/16" Flat Tee with Tegular Tile

**FLW[1]** 5/8IN Flange (sheetrock) Wall Mounted

**GBW[1]** Gypsum Board (sheetrock) Wall Mounted

1. When using FLW or GBW options, FLW will change to FL & GBW will change to GB for shipping lines to designate same fixture as ceiling mounted units.

*For compatibility with metal pans, hardwood, or other ceiling types, consult technical support.

### Direct Light Source Color Rendering

**90CRI** 90CRI

### Direct Dynamic Feature

**TUWH** Tunable White

### Direct Dynamic Range

**RHYR** Rhythm Range (2700K-6500K)

### Direct LED Light Output

**300LMF** 300 Lumens per Foot

**400LMF** 400 Lumens per Foot

**600LMF** 600 Lumens per Foot

**800LMF** 800 Lumens per Foot

**1000LMF** 1,000 Lumens per Foot

**_LMF** Specify Lumens between 300LMF and 1000LMF in 50 LMF increments.

### Direct Distribution[1]

**<blank>** Lambertian

**DAS** Direct asymmetric distribution

**DBW** Direct Batwing Distribution

**WG** Wall Graze Distribution

**WW** Wall Wash

1. Direct Distribution options are only available with FLL Direct Shielding and OD Lens Regress Depth option.

### Switching

**SCT** Single Circuit

### Minimum Dimming Level

**DARK** Constant Current, Dimming to 0.1%

### Optional Shielding

**CLL[3,6]** Continuous Flush Lens

**DRP05[1,2,5]** Drop Lens 1/2IN

**DRP1[1,2,5]** Drop Lens 1IN

**DRP15[1,2,5]** Drop Lens 1 1/2IN

**FLL[4]** Flush Lens

**LVRR[1,2]** Louver (painted same finish color as housing)

**LVRRA[1,2]** Natural Aluminum Louver

1. Not available with TG trim
2. Only available in whole foot increments.
3. CLL is not available with WW, WG, DAS, or DBW distributions.
4. When using distribution options, FLL will change to FLLC to designate a co-extruded lens with white and clear material.
5. Not available with 1D Lens Regress Depth
6. 40-foot maximum uninterrupted length.

### Voltage

**57VDC** 57VDC, Class 2 Only

### Finish

**WHTT** White (Satin)

**AMF** Antimicrobial White

**BLKT** Black (Satin)

**SLVT** Silver (Satin)

**RALTBD[1]** RAL Paint Finish

1. RALTBD is for pricing only. Replace with applicable RAL number & sheen when placing order

### Emergency Battery Packs

**<blank>** No Emergency Option

**_EC** Total Number of Emergency Circuits

### Control Input

**DALI8** eldoLED Driver TW DT8

### Primary Zone

**<blank>** No Sensor or Primary Zone Option

**NS_** Primary Zone with No Sensor (Specify zone length in feet.)

### Secondary Zone

**<blank>** No Sensor or Secondary Zone Option

**SNS_** Secondary Zone with No Sensor (Specify zone length in feet.)

### Tertiary Zone Indicator

**<blank>** No Tertiary Zone

**TNS_** Tertiary Zone (Specify zone length in feet.)

### Options

**<blank>** No Options

**CP** Chicago Plenum

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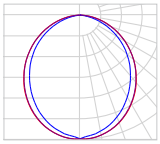
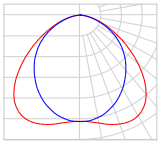
# Slot 4

Recessed
Tunable White
DC2DC Architecture

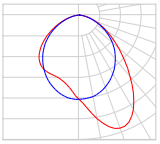
## PHOTOMETRICS



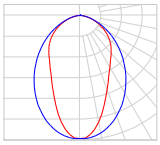
Test Report: ISF25 000625AP7606
IES LM79-08
Catalog #: S4RD 4FT OD 90CRI TUWH RHYR @46K 1000LMF STD FLL
Lumens: 4005
DC Wattage: 29.79
Efficacy: 125.04



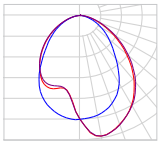
Test Report: ISF25 001020P1205
IES LM79-08
Catalog #: S4RD 4FT OD 90CRI TUWH RHYR @46K 1000LMF DBW FLLC
Lumens: 3984
DC Wattage: 29.79
Efficacy: 124.38



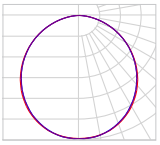
Test Report: ISF25 000818P1205
IES LM79-08
Catalog #: S4RD 4FT OD 90CRI TUWH RHYR @46K 1000LMF WW FLLC
Lumens: 3691
DC Wattage: 29.79
Efficacy: 115.24



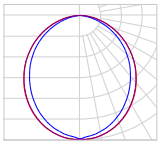
Test Report: ISF25 000817P2120
IES LM79-08
Catalog #: S4RD 4FT OD 90CRI TUWH RHYR @46K 1000LMF WG FLLC
Lumens: 3457
DC Wattage: 29.79
Efficacy: 116.05



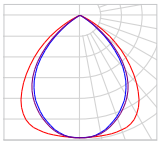
Test Report: ISF25 000819P2120
IES LM79-08
Catalog #: S4RD 4FT OD 90CRI TUWH RHYR @46K 1000LMF DAS FLLC
Lumens: 4354
DC Wattage: 29.79
Efficacy: 146.16



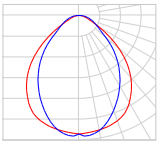
Test Report: ISF25 000816AP3245
IES LM79-08
Catalog #: S4RD 4FT OD 90CRI TUWH RHYR @46K 1000LMF STD CLL
Lumens: 3970
DC Wattage: 29.79
Efficacy: 133.27



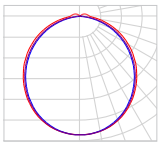
Test Report: ISF25 000770P4839
IES LM79-08
Catalog #: S4RD 4FT 1D 90CRI TUWH RHYR @46K 1000LMF STD FLL
Lumens: 3782
DC Wattage: 29.79
Efficacy: 126.96



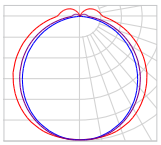
Test Report: ISF25 000822AP2370
IES LM79-08
Catalog #: S4RD 4FT OD 90CRI TUWH RHYR @46K 1000LMF STD LVRRA
Lumens: 2138
DC Wattage: 29.79
Efficacy: 71.77



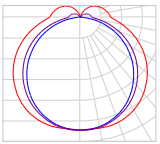
Test Report: ISF25 000821AP2370
IES LM79-08
Catalog #: S4RD 4FT OD 90CRI TUWH RHYR @46K 1000LMF STD LVRR
Lumens: 2249
DC Wattage: 29.79
Efficacy: 75.50



Test Report: ISF25 000813P1205
IES LM79-08
Catalog #: S4RD 4FT OD 90CRI TUWH RHYR @46K 1000LMF STD DRP05
Lumens: 4432
DC Wattage: 29.79
Efficacy: 148.77



Test Report: ISF25 000814AP1205
IES LM79-08
Catalog #: S4RD 4FT OD 90CRI TUWH RHYR @46K 1000LMF STD DRP1
Lumens: 4470
DC Wattage: 29.79
Efficacy: 150.0503525



Test Report: ISF25 000815P1205
IES LM79-08
Catalog #: S4RD 4FT OD 90CRI TUWH RHYR @46K 1000LMF STD DRP15
Lumens: 4240
DC Wattage: 29.79
Efficacy: 142.3296408

## PROJECT LED LUMEN MAINTENANCE

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

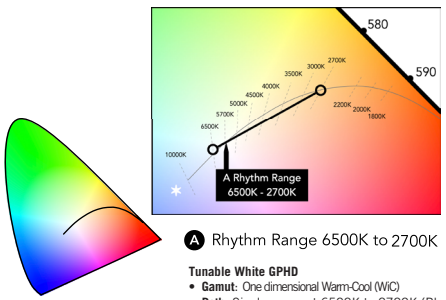
| Operating Hours | 0 | 10,000 | 60,000 | 100,000 |
|---|---|---|---|---|
| Lumen Maintenance Factor | 1 | 0.98 | 0.84 | 0.75 |

## REGRESS DEPTH SCALING CHART

| LENS REGRESS DEPTH | MULTIPLIER |
|---|---|
| 0D | 1.00 |
| 1D | 0.94 |

**Base fixture with Lambertian distribution, 0" depth lens regress (OD), and flush lens (FLL)*

## TUNABLE WHITE GAMUT AND RANGE




Ⓐ Rhythm Range 6500K to 2700K

**Tunable White GPHD**

- **Gamut**: One dimensional Warm-Cool (WiC)
- **Path**: Single-segment 6500K to 2700K (Rhythm Range)
- **Handle**: Two natural language handles: Intensity and CCT
- **Data**: nLight with nTune technology for both handles of control

## OPTICAL SCALING CHARTS

| DISTRIBUTIONS | MULTIPLIER |
|---|---|
| LAMBERTIAN | 1.00 |
| DBW | 0.99 |
| DAS | 1.09 |
| WW | 0.92 |
| WG | 0.86 |
| **SHIELDING** | **MULTIPLIER** |
| LVRR | 0.56 |
| LVRRA | 0.53 |
| CLL | 0.99 |
| FLL | 1.00 |
| DRP05 | 1.11 |
| DRP1 | 1.12 |
| DRP15 | 1.06 |

**Base fixture with Lambertian distribution and flush lens (FLL)*

## 50LMF INCREMENT SCALING CHART

| | LUMEN | WATTAGE |
|---|---|---|
| NOMINAL LMF | MULTIPLIER | MULTIPLIER |
| 300LMF | 0.31 | 0.30 |
| 350LMF | 0.36 | 0.35 |
| 400LMF | 0.41 | 0.40 |
| 450LMF | 0.46 | 0.45 |
| 500LMF | 0.52 | 0.50 |
| 550LMF | 0.57 | 0.54 |
| 600LMF | 0.62 | 0.59 |
| 650LMF | 0.67 | 0.64 |
| 700LMF | 0.72 | 0.69 |
| 750LMF | 0.76 | 0.75 |
| 800LMF | 0.81 | 0.80 |
| 850LMF | 0.86 | 0.85 |
| 900LMF | 0.91 | 0.90 |
| 950LMF | 0.96 | 0.95 |
| 1000LMF | 1.00 | 1.00 |

**Base fixture with 0" depth lens regress (OD), standard lambertian distribution, flush lens (FLL), and 1000LMF*

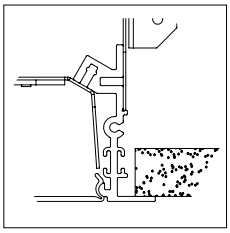
 

## UGR CHART

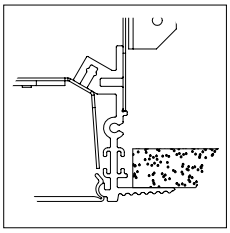
| Lumen Package | UGR (70% 50% 20% reflectance using a 4H x 8H room size) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Crosswise | | | | | | | | | | | | | | |
| | OD FLL Lambertian | OD CLL Lambertian | OD DBW | OD WW | OD WG | OD DAS | OD LVRR | OD LVRRA | OD DRP05 | OD DRP1 | OD DRP15 | 1D FLL Lambertian | 1D CLL Lambertian | 1D LVRR | 1D LVRRA |
| 300LMF | 20.7 | 21.4 | 19.6 | 19.3 | 19.3 | 18.9 | 15.7 | 7.5 | 19.5 | 18 | 16.4 | 20.5 | 21.2 | 15.5 | 7.3 |
| 400LMF | 21.7 | 22.4 | 20.6 | 20.3 | 20.3 | 19.9 | 16.6 | 8.5 | 20.5 | 19 | 17.4 | 21.5 | 22.2 | 16.4 | 8.3 |
| 600LMF | 23.1 | 23.8 | 22 | 21.7 | 21.7 | 21.3 | 18.1 | 9.9 | 21.9 | 20.4 | 18.8 | 22.9 | 23.6 | 17.9 | 9.7 |
| 800LMF | 24.1 | 24.7 | 22.9 | 22.7 | 22.7 | 22.3 | 19 | 10.8 | 22.8 | 21.3 | 19.8 | 23.9 | 24.5 | 18.8 | 10.6 |
| 1000LMF | 24.8 | 25.4 | 23.7 | 23.4 | 23.4 | 23 | 19.7 | 11.5 | 23.6 | 22 | 20.5 | 24.6 | 25.2 | 19.5 | 11.3 |
| | Endwise | | | | | | | | | | | | | | |
| | OD FLL Lambertian | OD CLL Lambertian | OD DBW | OD WW | OD WG | OD DAS | OD LVRR | OD LVRRA | OD DRP05 | OD DRP1 | OD DRP15 | 1D FLL Lambertian | 1D CLL Lambertian | 1D LVRR | 1D LVRRA |
| 300LMF | 21.6 | 21.4 | 20.2 | 20 | 18.8 | 21 | 15.2 | 11.8 | 21.6 | 22.1 | 22 | 21.4 | 21.2 | 15 | 11.6 |
| 400LMF | 22.6 | 22.4 | 21.2 | 21 | 19.8 | 21.9 | 16.2 | 12.8 | 22.6 | 23.1 | 23 | 22.4 | 22.2 | 16 | 12.6 |
| 600LMF | 24 | 23.8 | 22.6 | 22.4 | 21.2 | 23.4 | 17.6 | 14.2 | 24 | 24.5 | 24.4 | 23.8 | 23.6 | 17.4 | 14 |
| 800LMF | 25 | 24.8 | 23.6 | 23.3 | 22.2 | 24.3 | 18.5 | 15.2 | 25 | 25.5 | 25.3 | 24.8 | 24.6 | 18.3 | 15 |
| 1000LMF | 25.7 | 25.5 | 24.3 | 24.1 | 22.9 | 25 | 19.3 | 15.9 | 25.7 | 26.2 | 26.1 | 25.5 | 25.3 | 19.1 | 15.7 |

*UGR varies based on luminaire options and is affected by application dependent parameters. Numbers depicted here are considered "Luminaire-UGR" and/or "Point-UGR" values. To determine a more precise maximum UGR value ("Application-UGR"), a full lighting design layout should be completed with the selected luminaire configuration for each application.
**Click here for more information on: UGR FAQ

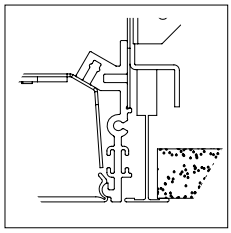
## CEILING TRIMS



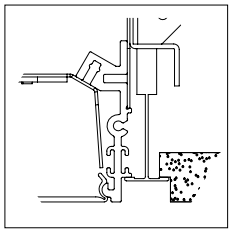
**FL**
5/8IN Flange (sheetrock)
Install Before Sheetrock



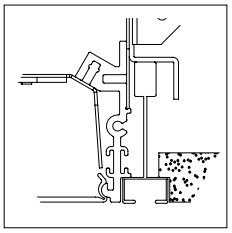
**GB**
Gypsum Board (sheetrock)
Install Before Sheetrock



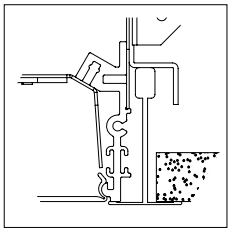
**TG**
9/16" Flat Tee w/ Lay-in Tile



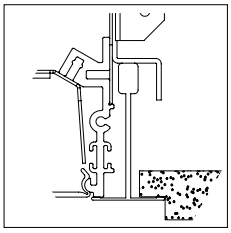
**TG**
9/16" Flat Tee w/ Tegular Tile



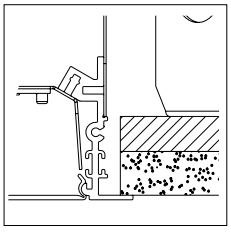
**TG**
9/16" Slot Tee w/ Tegular Tile



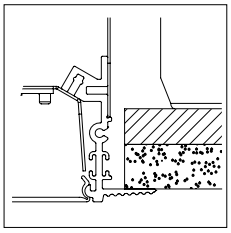
**TG**
15/16" Flat Tee w/ Lay-in Tile



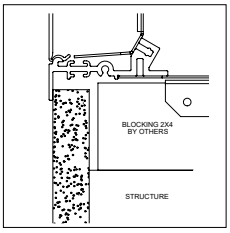
**TG**
15/16" Flat Tee w/ Tegular Tile



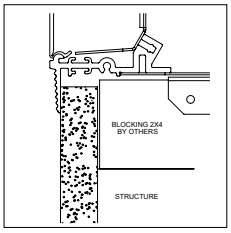
**FLINB**
5/8IN Flange (sheetrock)
Install From Below



**GBINB**
Gypsum Board (sheetrock)
Install From Below




**FLW**
5/8IN Flange (sheetrock)
Wall Mounted




**GBW**
Gypsum Board (sheetrock)
Wall Mounted

*For compatibility with metal pans, hardwood, or other ceiling types, consult technical support.

*TG ceiling trim types are compatible with Armstrong 4" TECHZONE ceiling grid.

## LINEAR PLAN

Mark Lighting calculates a continuous run based on optimizing fixture section length and options selected.

**LOP- Linear Optimized Length**

This linear plan supplies the run length based on defined length combinations, resulting in an optimized solution with the fewest segments.

| LOP | 8FT | 4FT | 3FT |
|---|---|---|---|

**Total Run Length**

This system is not modular. Runs longer than 8FT will be automatically configured with left, intermediate, and right sections based on nomenclature ordered. Always order the total run length required and not individual sections.

Example: This run to be ordered as one 32FT run.

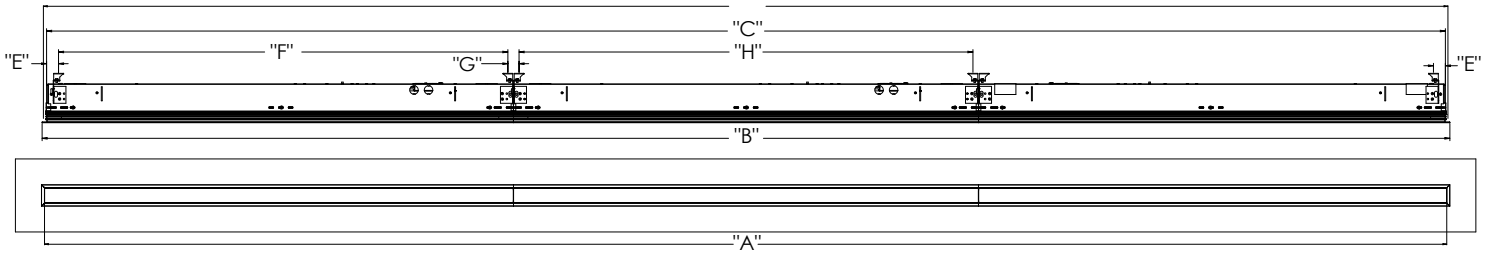
| 8FT | 8FT | 8FT | 8FT |
|---|---|---|---|

Example: This run to be ordered as four 8FT runs. Note: Individual fixtures sections cannot be joined together in the field.

| 8FT | 8FT | 8FT | 8FT |
|---|---|---|---|

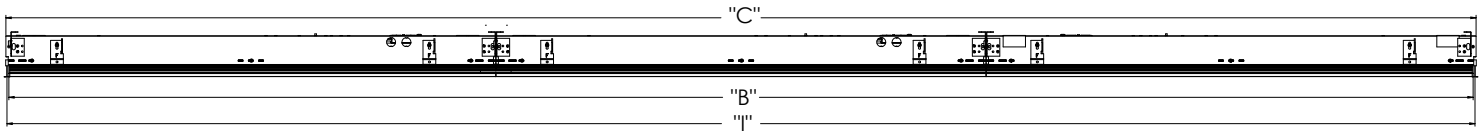
## MOUNTING

**FL and GB Trim Run**




| FL Run Configurations | | | | | | | |
|---|---|---|---|---|---|---|---|
| "A" (Illuminated Lenth) | "B" (Trim Length) | "C" (Housing Lenth) | "D" (Cut Opening Length) | "E" (End Mounting Location | "F" (End Fixture Middle Mounting Point) | "G" (Mounting Point to Mounting Point) | "H" (Mounting Point to Mounting Point Intermediate Fixtures) |
| Order Length | Ordered Length<br>+1 5/16" (FL)<br>+1 13/16" (GB) | Order length<br>+ 9/16" | Order length<br>+ 13/16" | 1 1/4" | Fixture length<br>-1 1/2" | 1 1/16" | Fixture length<br>-1 1/16" |

**TG Trim Run**

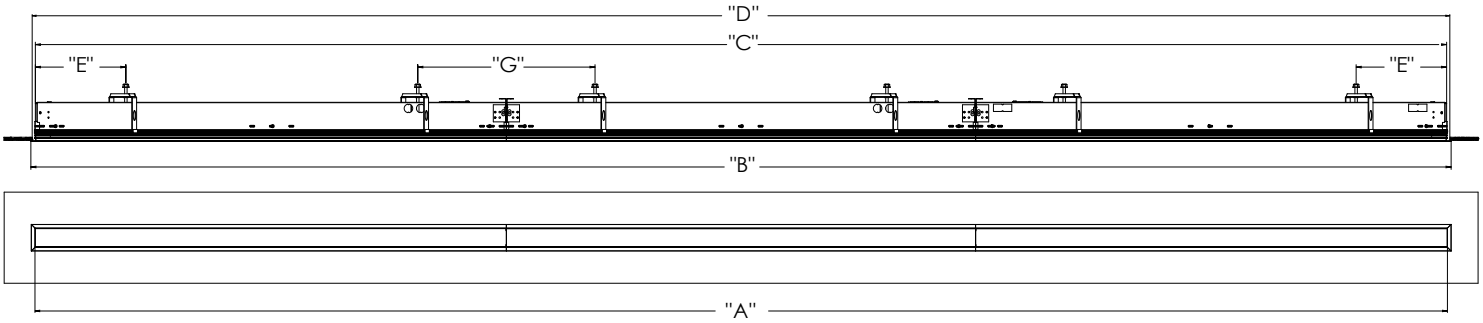



| Grid Run Configurations | | | |
|---|---|---|---|
| **"A" (Illuminated Lenth)** | **"B" (Trim Length)** | **"C" (Housing Lenth)** | **"I" (Grid Center to Center)** |
| Order Length<br>-13/16" | Ordered Length<br>-5/8" | Order length<br>-1/32" | Order length<br>+ 13/16" |

## MOUNTING (continued)

### FLINB and GBINB Trim Run




| FL Run Configurations | | | | | |
|---|---|---|---|---|---|
| "A" (Illuminated Length) | "B" (Trim Length) | "C" (Housing Length) | "D" (Cut Opening Length) | "E" (End Mounting Location) | "G" (Mounting Point to Mounting Point ) |
| Order Length | Order Length + 1 5/16"(FLINB) + 1 13/16"(GBINB) | Order length +9/16" | Order length +13/16" | 6 1/4" 9 1/4" | 1' 0 1/2" 1' 3 1/2" 1' 6 1/2" |

**NOTE:** Dimension "E" depends on length (inconsistent across family). **NOTE:** Dimension "G" depends on fixture combination.

### Ceiling Cut Out Dimensions

| | | 2-Foot | 3-Foot | 4-Foot | 5-Foot | 6-Foot | 7-Foot | 8-Foot |
|---|---|---|---|---|---|---|---|---|
| TG | GRID CL LENGTH(IN) | 24 | 36 | 48 | 60 | 72 | 84 | 96 |
| | GRID CL WIDTH(IN) | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| FL or FLINB | LENGTH(IN) | 24.813 | 36.813 | 48.81 | 60.813 | 72.813 | 84.81 | 96.813 |
| | WIDTH(IN) | 3.885 | 3.885 | 3.89 | 3.885 | 3.885 | 3.89 | 3.885 |
| GB or GBINB | LENGTH(IN) | 24.813 | 36.813 | 48.81 | 60.813 | 72.813 | 84.81 | 96.813 |
| | WIDTH(IN) | 3.885 | 3.885 | 3.89 | 3.885 | 3.885 | 3.89 | 3.885 |

CEILING OPENING DIMENSIONS FOR INSTALLATION, +/-0.13"

## MOUNTING (continued)

### FIXTURE DIMENSIONS AND WEIGHTS

| | | | 2-Foot | 3-Foot | 4-Foot | 5-Foot | 6-Foot | 7-Foot | 8-Foot |
|---|---|---|---|---|---|---|---|---|---|
| TG | Individual | GRID CL (IN) | 24 | 36 | 48 | 60 | 72 | 84 | 96 |
| | | OVERALL LENGTH (IN) | 23.375 | 35.375 | 47.375 | 59.375 | 71.375 | 83.375 | 95.375 |
| | | HOUSING LENGTH (IN) | 23.938 | 35.938 | 47.938 | 59.938 | 71.938 | 83.938 | 95.938 |
| | | APERTURE (IN) | 23.125 | 35.125 | 47.125 | 59.125 | 71.125 | 83.128 | 95.125 |
| | | | | | | | | | |
| | Left or Right | | **2-Foot** | **3-Foot** | **4-Foot** | **5-Foot** | **6-Foot** | **7-Foot** | **8-Foot** |
| | | GRID CL(IN) | 24 | 36 | 48 | 60 | 72 | 84 | 96 |
| | | PRODUCT LENGTH(IN) | 23.688 | 35.688 | 47.688 | 59.688 | 71.688 | 83.688 | 95.688 |
| | | HOUSING LENGTH(IN) | 23.938 | 35.938 | 47.938 | 59.938 | 71.938 | 83.938 | 95.938 |
| | | APERTURE(IN) | 23.563 | 35.563 | 47.563 | 59.563 | 71.563 | 83.563 | 95.563 |
| | | | | | | | | | |
| | Intermediate | | **2-Foot** | **3-Foot** | **4-Foot** | **5-Foot** | **6-Foot** | **7-Foot** | **8-Foot** |
| | | GRID CL(IN) | 24 | 36 | 48 | 60 | 72 | 84 | 96 |
| | | PRODUCT LENGTH(IN) | 24 | 36 | 48 | 60 | 72 | 84 | 96 |
| | | HOUSING LENGTH(IN) | 23.938 | 35.938 | 47.938 | 59.938 | 71.938 | 83.938 | 95.938 |
| | | APERTURE(IN) | 24 | 36 | 48 | 60 | 72 | 84 | 96 |

| | | | 2-Foot | 3-Foot | 4-Foot | 5-Foot | 6-Foot | 7-Foot | 8-Foot |
|---|---|---|---|---|---|---|---|---|---|
| FL or FLINB | Individual | APERTURE(IN) | 24 | 36 | 48 | 60 | 72 | 84 | 96 |
| | | PRODUCT LENGTH(IN) | 25.250 | 37.250 | 49.250 | 61.250 | 73.250 | 85.250 | 97.250 |
| | | HOUSING LENGTH(IN) | 24.563 | 36.563 | 48.563 | 60.563 | 72.563 | 84.563 | 96.563 |
| | | | | | | | | | |
| | Left or Right | | **2-Foot** | **3-Foot** | **4-Foot** | **5-Foot** | **6-Foot** | **7-Foot** | **8-Foot** |
| | | APERTURE(IN) | 24 | 36 | 48 | 60 | 72 | 84 | 96 |
| | | PRODUCT LENGTH(IN) | 24.625 | 36.625 | 48.625 | 60.625 | 72.625 | 84.625 | 96.625 |
| | | HOUSING LENGTH(IN) | 24.250 | 36.250 | 48.250 | 60.250 | 72.250 | 84.250 | 96.250 |
| | | | | | | | | | |
| | Intermediate | | **2-Foot** | **3-Foot** | **4-Foot** | **5-Foot** | **6-Foot** | **7-Foot** | **8-Foot** |
| | | APERTURE(IN) | 24 | 36 | 48 | 60 | 72 | 84 | 96 |
| | | PRODUCT LENGTH(IN) | 24 | 36 | 48 | 60 | 72 | 84 | 96 |
| | | HOUSING LENGTH(IN) | 23.938 | 35.938 | 47.938 | 59.938 | 71.938 | 83.938 | 95.938 |

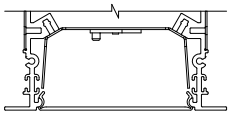
| | | | 2-Foot | 3-Foot | 4-Foot | 5-Foot | 6-Foot | 7-Foot | 8-Foot |
|---|---|---|---|---|---|---|---|---|---|
| GB or GBINB | | APERTURE(IN) | 24 | 36 | 48 | 60 | 72 | 84 | 96 |
| | | PRODUCT LENGTH(IN) | 25.750 | 37.750 | 49.750 | 61.750 | 73.750 | 85.750 | 97.750 |
| | | HOUSING LENGTH(IN) | 24.563 | 36.563 | 48.563 | 60.563 | 72.563 | 84.563 | 96.563 |
| | | | | | | | | | |
| | | APERTURE(IN) | 24 | 36 | 48 | 60 | 72 | 84 | 96 |
| | | PRODUCT LENGTH(IN) | 24.875 | 36.875 | 48.875 | 60.875 | 72.875 | 84.875 | 96.875 |
| | | HOUSING LENGTH(IN) | 24.250 | 36.250 | 48.250 | 60.250 | 72.250 | 84.250 | 96.250 |
| | | | | | | | | | |
| | | | **2-Foot** | **3-Foot** | **4-Foot** | **5-Foot** | **6-Foot** | **7-Foot** | **8-Foot** |
| | | APERTURE(IN) | 24 | 36 | 48 | 60 | 72 | 84 | 96 |
| | | PRODUCT LENGTH(IN) | 24 | 36 | 48 | 60 | 72 | 84 | 96 |
| | | HOUSING LENGTH(IN) | 23.938 | 35.938 | 47.938 | 59.938 | 71.938 | 83.938 | 95.938 |

*All values rounded to +/- 1/16"

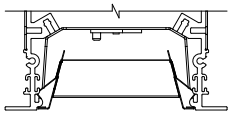
| | | 2-Foot | 3-Foot | 4-Foot | 5-Foot | 6-Foot | 7-Foot | 8-Foot |
|---|---|---|---|---|---|---|---|---|
| Approximate Fixture Section Weights | WEIGHT(LBS) | 10 | 13 | 15 | 22 | 25 | 28 | 30 |

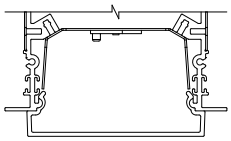
## DIRECT SHIELDING & OPTIONS



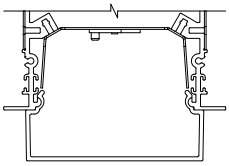
Flush Lens (FLL)
Continuous Lens (CLL)



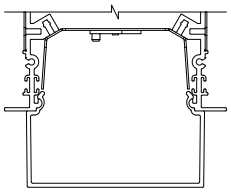
Louver (LVRRA)
Aluminum Louver
(LVRR) Painted



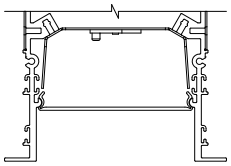
1/2" Drop Lens
DRP05



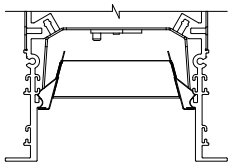
1" Drop Lens
DRP1



1-1/2" Drop Lens
(DRP15)



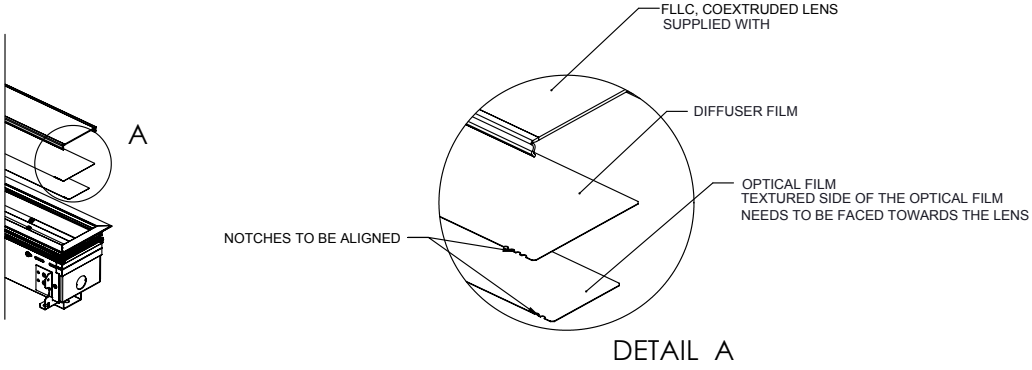
1" Regress with
FLL or CLL



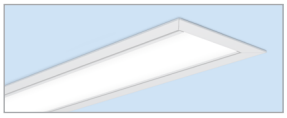
1" Regress with
LVRRA or LVRR

## DIRECT DISTRIBUTION

Optical Film for DAS, DBW, WG, and WW distributions with co-extruded lens standard.
Direction of light for DAS or WG distribution will be in the direction of the notches on the film.




| Optical Film | Number of Notches |
|---|---|
| Diffuser | 4 |
| Direct Asymmetric (DAS) | 1 |
| Direct Batwing (DBW) | 2 |
| Wall Graze (WG) | 3 |
| Wall Wash (WW) | 5 |

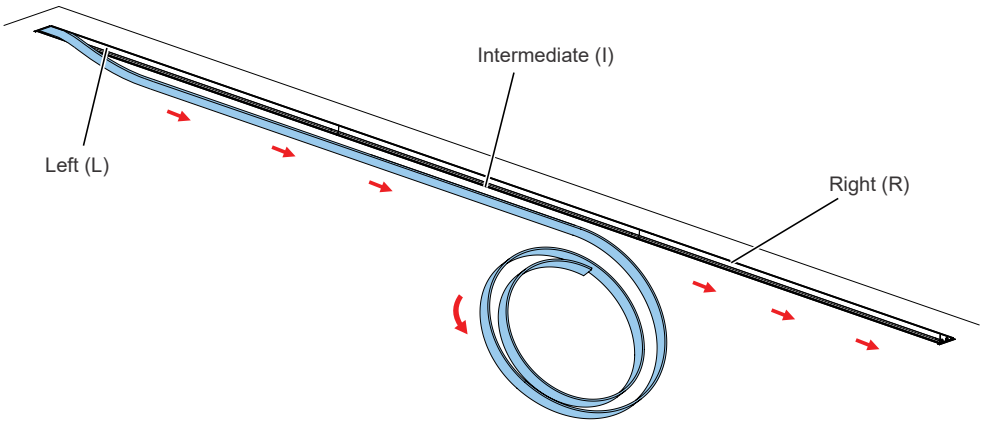


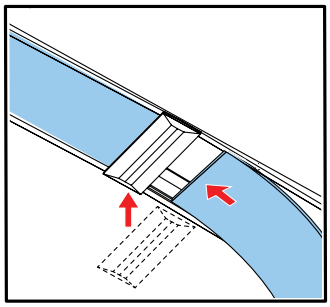
When ordering distribution options, use FLL designation. FLL will automatically change to FLLC on shipped product, to designate this co-extruded lens with white and clear material.

## CONTINUOUS LENS

40-foot maximum uninterrupted length. From 40-foot 1/8-inch to 106-foot,visible joiner required and supplied with lens rolls. Joiner will match color of trim. Continuous lens and joiners, if required, ship separate from the fixture. Reference installation instructions for further details and steps.



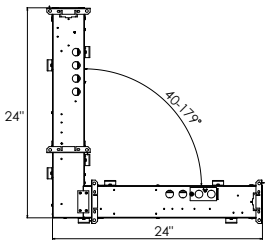



Continuous Lens Joiner Detail

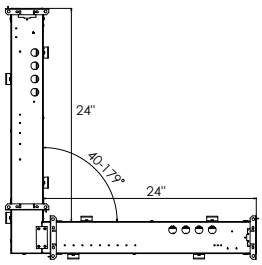
## RUN PATTERNS, CORNERS,& JUNCTIONS

Patterns can be configured in 1' increments with illuminated L (corner), X, Y, & T connectors. Standard corner has 2' leg segments. Standard L (corner) connector angles are available in 40-179 degrees in 1 degree increments. Standard T & Y connector angles are available in 40-179 degrees in 1 degree increments. Standard X connector angle available in 40-90 degrees in 1 degree increments.

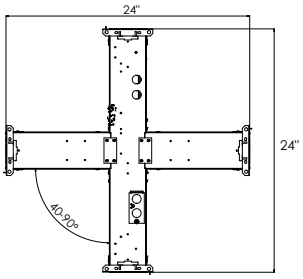
See separate pattern spec sheet for more details.



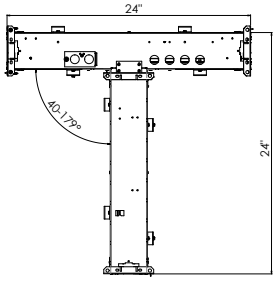

**90GDO (Grid Outside Leg at 24")**
**90C (Sheetrock)**



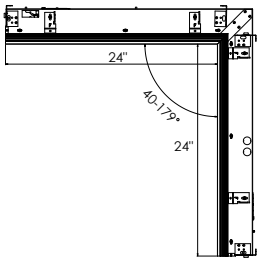

**90 GDI (Grid Inside Leg at 24")**



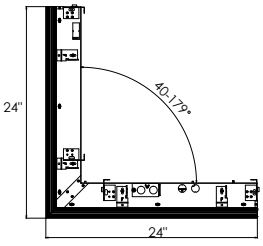

**90X**



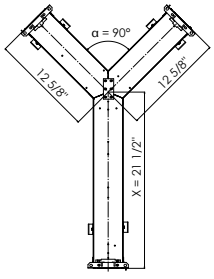

**90T**



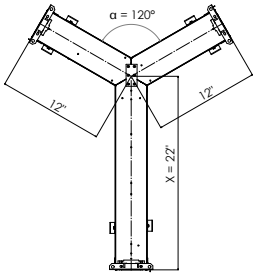

**90VIC (Vertical Inside Leg at 24")**




**90VOC (Vertical Outside Leg at 24")**




**90Y**



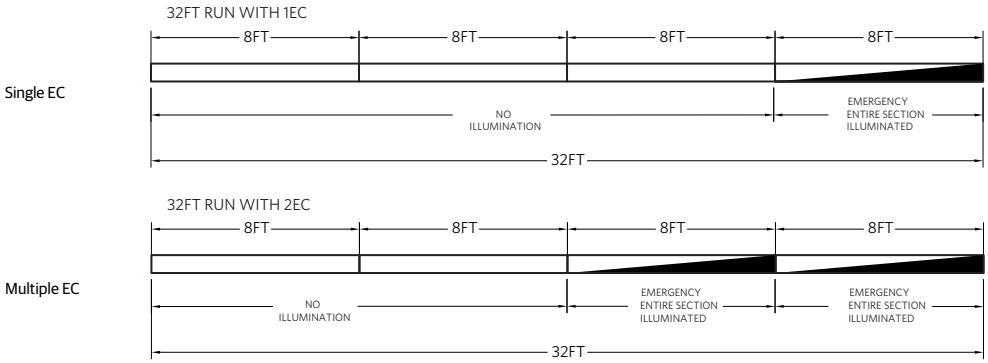

**120Y**

**NOTE:** For Y intersections, dimension X varies depending on the angle α. Angle α can be in a range of 40-179°.

## EMERGENCY OPTIONS

### Emergency Circuits




| Control Input | |
|---|---|
| **Section Length** | **EC** |
| U2-U2/11.875 | Entire Section Length |
| U3-U3/11.875 | Entire Section Length |
| U4 | Entire Section Length |
| U4/0.125-U4-11.875 | Entire Section Length |
| U5-U5/11.875 | Entire Section Length |
| U6-U6/11.875 | Entire Section Length |
| U7-U7/11.875 | Entire Section Length |
| U8 | Entire Section Length |

## INTELLIGENT LUMINAIRE GUIDE

**Choose nomenclature from these columns**

| Driver Configurations | Minimum Dimming Level | | Control Input | = | Driver | Dimming Range | Notes |
|---|---|---|---|---|---|---|---|
| | DARK | + | DALI8 | = | eldoLED SOLOdrive DC Driver – Dali 2 compatible with Device Type 8 (DT8) functionality | 100% to 1% | Logarithmic Dimming |

## DC2DC

**DC-powered Lighting, DC2DC Architecture**

Acuity Brands' DC2DC architecture provides for distributed low-voltage DC power and digital controls for a range of LED luminaires, including the S4RD.

The DC2DC architecture enhances an LED lighting system's efficiency by eliminating the need and cost to convert AC to DC power at the luminaire and facilitating the installation and commissioning of lighting controls. Intrinsically more efficient by design, our DC-powered lighting architecture also delivers savings at design and installation, facilitates maintenance, and empowers lighting design focused on sustainable and well-being applications.

Components include:

- DCHUB (ordered separately), distributes DC power up to 1080 VA of DC-powered LED luminaires including support for emergency lighting.
- 57 VDC powered LED luminaires, with Static CCT or Tunable White, based on control options.
- nLight® lighting control
- Integral or offboard wired networked lighting control, with nLight control devices (ordered separately).
- Embedded nLight AIR wireless devices in 57VDC powered Static CCT LED luminaires.
- Class 2 power and control cables.
- The number of luminaires that can be supported by a single DCHUB port is a function of luminaire wattage and conductor losses. Please refer to the fixture wattages listed and the DCHUB spec sheet for additional details. Alternatively, the LED luminaires can be supplied with an approved, UL Listed, Class 2 power source supplying between 52.3 and 57.0 VDC at the input to the luminaire.

***Note:***

*All luminaires require 57VDC option along with the corresponding Control Input option for DALI or DALI8 external nPS80 DALI 57VDC wired nLight control or NLTAIR2 or NLTAIREM2 embedded wireless lighting control.*

*When using external wired nLight control, nPS80 DALI 57 VDC is mounted locally with the controlled luminaires. Only 2 #16 AWG (min.) conductors are necessary between the DC power source and the nPS80 DALI controller, and 4 conductors between the controller and the luminaires.*

*When using nLight embedded wireless controls only 2 #16 AWG (min.) conductors are necessary between the DC power source and the luminaire runs.*

*Click DC2DC for more information.*

## FIXTURE PERFORMANCE, DEVICE ADDRESSES, & FEED CHART[1]

| | | Slot 4 Recessed Direct[1] | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Nominal Lumens/Foot** | | **300LMF** | | **400LMF** | | **600LMF** | | **800LMF** | | **1000LMF** | | **1200LMF** | | **1300LMF** | |
| **CCT** | | 27K | 65K | 27K | 65K | 27K | 65K | 27K | 65K | 27K | 65K | 27K | 65K | 27K | 65K |
| **Delivered Lumens/Foot** | | 299 | 331 | 410 | 441 | 633 | 660 | 856 | 879 | 1043 | 1068 | 1176 | 1197 | 1243 | 1261 |
| **DC Input Watts/Foot[2]** | | 2.34 | 2.53 | 3.27 | 3.41 | 5.12 | 5.18 | 6.98 | 6.96 | 8.56 | 8.49 | 10.08 | 9.88 | 10.84 | 10.56 |
| **Lumens/Watt** | | 128 | 131 | 125 | 129 | 124 | 127 | 123 | 126 | 122 | 126 | 117 | 121 | 115 | 119 |
| **# Device Addresses and Feeds** | **2FT** | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | |
| | **3FT** | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | |
| | **4FT** | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | |
| | **5FT3** | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | |
| | **6FT4** | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | |
| | **7FT5** | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | |
| | **8FT4** | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | |

**Notes**

1. Based on a 4FT 90CRI TUWH RHYR (27K-65K) fixture with 0D lens depth, standard lambertian distribution, and Flush Lens (FLL). Consult factory for other section lengths.
2. Standard photometry based on AC wattage, DC wattage = AC wattage *.93
3. For 5ft fixtures with two feeds, wattage for Feed 1 is 3/5 of the total wattage and for Feed 2 is 2/5 of the total wattage
4. For 6ft and 8ft fixtures with two feeds, wattage per feed is half of the total wattage
5. For 7ft fixtures with two feeds, wattage for Feed 1 is 4/7 of the total wattage and for Feed 2 is 3/7 of the total wattage

***General Note:*** Combine feeds based on maximum port supply wattage or as shown on drawings. Refer to Mark Linear Submittal drawings for additional feed configuration information.

***Example Calculation:***

*5FT 1000LMF*

Total Direct Wattage: 8.6 W/FT x 5FT = 43W
Direct Feed 1: 3/5 x 43W = 25.8W
Direct Feed 2: 2/5 x 43W = 17.2W

## SPECIFICATIONS

**Housing**
Nominal 4" x 2', 3', 4', 5', 6', 7', 8' and continuous rows in 1/8" increments starting at 2', as standard. Upper housing fabricated from cold-rolled steel with extruded aluminum ceiling trim.

**Finish**
Standard colors for fixture trims are polyester powder coated white, anti-microbial white, black, or silver with satin sheen. Consult factory for custom colors or specify RAL colors from Architectural brochure.

**Reflector**
Precision-formed steel; high reflectance matte white powder coat; 93% reflectivity.

**Optics (Distribution)**
Wall Wash (WW), Wall Graze (WG), Direct Batwing (DBW), and Direct Asymmetric (DAS) incorporate co-extruded lenses and films.

**Lenses/Shielding**
Extruded acrylic lens, (CLL, FLL). Aluminum louver with either a powder coat finish to match housing color (LVRR) or aluminum finish (LVRRA). Extruded acrylic drop lens (DRP05, DRP1, DRP15).

**Mounting**
Sheetrock: Recessed ceiling only to accommodate sheetrock, ½" minimum to 1-1/2" maximum depth for FL, GB, FLINB or GBINB trim options. Grid: To accommodate 9/16" Flat Tee with Lay-In Tile, 9/16" Flat Tee with Tegular Tile, 9/16" Slot Tee with Tegular Tile, 15/16" Flat Tee with Lay-In Tile, & 15/16" Flat Tee with Tegular Tile.

**LED Source**
Multiple lumen packages available in Rhythm Range (2700K-6500K) in 90CRI. The Acuity Brands circuit boards for the linear LED components use a precise binning algorithm which creates a consistent color temperature from board to board. Color variation of no greater than a 2.5 Step MacAdam (2.55DECM) along the black body locus from board to board.

**Electrical**
Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 90% LED lumen maintenance at 60,000 hours (L90/60,000).

**Circuits**
Single switching option only.

**Dimming Driver**
eldoLED constant current driver options deliver choice of dimming range for ultrasmooth dimming resolution from 100% to less than 1% , and choices for control, while assuring flicker free, low current inrush, 89% efficiency and low EMI. Luminaires operate over a voltage ranging from 53VDC to 57VDC.

**Ambient Operating Temperature Range**
-20°C (-4° F) to +25°C (+77°F)

**Environment**
Suitable for damp location. Indoor use only.

**Certification**
CSA certified to meet U.S. and Canadian standards (UL1598 and UL8750). This product is IC rated.

**Fixture Weight**
Approximately 5.0 lbs per foot, less packaging.

**Warranty**
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

***Notes:*** *Actual performance may differ as a result of end-user environment and application.*
*All values are design or typical values, measured under laboratory conditions at 25 °C.*
*Specifications subject to change without notice.*