ELCO Lighting

Project Name:
Fixture Type:
Date:

# 4" POPLAR™ DOWNLIGHTING SYSTEM

**8W - 12W, 2700K - 5000K, Sunset, 850 lm - 1250 lm**



## THE POPLAR™ SYSTEM

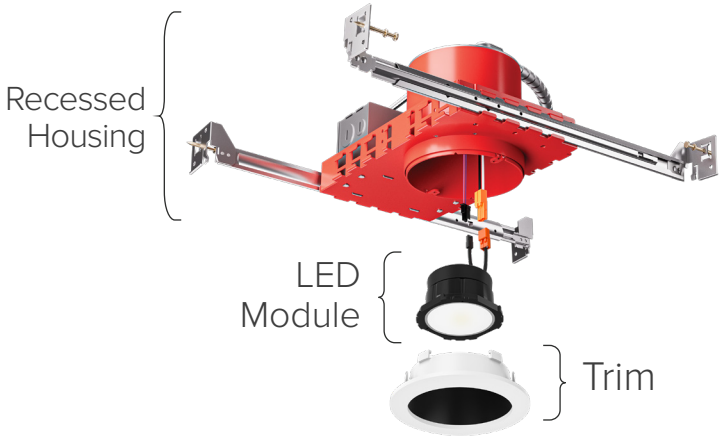
Maximize options, minimize inventory. Available for New Construction and Remodel in a variety of sizes and styles. The module easily twist-on into a variety of trims and fits into a wide variety of housing.

## FEATURES

- Integrated 120-277V, 0-10V, Triac, ELV driver dims to 1%
- Frosted lens diffuses light while reducing glare
- Compatible with E26, GU10, or GU24 base housings with PSA30, PSA31, or PSA35 socket adapters (sold separately)
- Title 24 JA8-2022 E-Compliant
- Covered by U.S. PATENTS and Patents Pending

## SET UP

1. Select a New Construction, Remodel Housing, or Retrofit Socket Adapter.
2. Select Poplar™ LED Module.
3. Select a Trim.




## SPECIFICATIONS

| | |
|---|---|
| Lumens/Wattage | LUMEN Switch<br>850 lm (8W), 1100 lm (10W), 1250 lm (12W) or 1250 lm (11W) |
| Voltage | 120-277V or 120V |
| Color Temp. | CCT SWITCH<br>2700K, 3000K, 3500K, 4000K, 5000K |
| CRI | 90+ |
| Wet Location | UL Listed Fixed Trims |
| Dimming | Triac/ELV/0-10V (1%), Triac/ELV (5%) |
| Beam Angle | 90°+ Ambient |
| Finishes | All White, All Black, All Bronze, Black White Ring, Haze White Ring |

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## PRODUCT NUMBER BUILDER

**STEP 1.** Specify Housing part number (Select one) Example: EL490ICA

### 4" IC AIRTIGHT RECESSED HOUSINGS

| ITEM | STLYE | | VOLTAGE/DIMMING | | OPTIONAL EMERGENCY BATTERY BACKUP | |
|---|---|---|---|---|---|---|
| **E** | | | | | | |
| | **Standard New Construction/Remodel Housings** | | | | | |
| | **L490**[1] | Standard New Construction (5 ½" Height) | **ICA** | IC Airtight 120-277V - Triac/ELV | **(Blank)** | No Battery Backup |
| | **L490R**[2] | Standard Remodel (5 ½" Height) | **ICDXA** | IC Airtight 120-277V - 0-10V/Triac/ELV | **-EM5**[4] | 90 min., 25W MAX |
| | **L492**[3] | Shallow New Construction (3 ½" Height) | | | | |
| | **L492R**[3] | Shallow Remodel (3 ½" Height) | | | | |
| | [1]Collar adjustable up to 2 ¼" ceiling thickness<br>[2] Collar adjustable up to 1 ¼" ceiling thickness<br>[3] Collar adjustable up to 1 ½" ceiling thickness | | | | [4] Accessible from below the ceiling | |
| | **R-60 Foam Insulation New Construction Housings** | | | | | |
| | **L490AJ**[1] | Standard New Construction (5 ½" Height) | **ICA** | IC Airtight 120-277V - Triac/ELV | **(Blank)** | No Battery Backup |
| | | | **ICDXA** | IC Airtight 120-277V - 0-10V/Triac/ELV | | |
| | [1] Collar adjustable up to 1 ½" ceiling thickness | | | | | |
| | **New Construction/Remodel 2-Hr Fire Rated Dedicated LED Housings** | | | | | |
| | **JB4** | New Construction 2-Hour Fire Junction Box (4 ½" Height) | **ICA** | IC Airtight 120-277V - Triac/ELV | **(Blank)** | No Battery Backup |
| | | | | | **-EM5**[2] | 90 min., 25W MAX |
| | **JB4R** | Remodel 2-Hour Fire Junction Box (4 ½" Height) | **ICDXA** | IC Airtight 120-277V - 0-10V/Triac/ELV | | |
| | **JB483** | New Construction 2-Hour Fire Junction Box (4 ⅛" Height) | | | | |
| | **JB4CNC**[1] | Concrete Pour 2-Hour Fire Junction Box (4 ½" Height) | **(Blank)** | 120-277V - 0-10V/Triac/ELV | **(Blank)** | No Battery Backup |
| | [1] Not Compatible with -EM5 battery backup | | | | [2] Accessible from below the ceiling | |

**Socket Adapters for Retrofitting Existing ELCO Housings (Adapters to male Quick Connect)**

| **PSA30** | **PSA31** |
|---|---|
| E26 Medium Base Adapter | GU10 Base Adapter |

**Oversize Ring**

| | |
|---|---|
| **ELJ4OV** | Oversize Ring for use with EJB4R to cover tabs |

## PRODUCT NUMBER BUILDER

**STEP 2.** Specify Poplar™ LED Module part number Example: ELP11CT5DX

| ITEM | LUMENS/WATTAGE | | COLOR TEMPERATURE | | VOLTAGE/DIMMING | |
|---|---|---|---|---|---|---|
| **ELP** | | | | | | |
| **ELP** | **11**[1] | 850 lm (8W), 1100 lm (10W), 1250 lm (12W) | **CT5**[2] | 2700K, 3000K, 3500K, 4000K, 5000K | **DX** | 120-277V - Triac/ELV/0-10V Dims to 1% |
| | **11** | 1250 lm (11W) | **CT5**[2] | 2700K, 3000K, 3500K, 4000K, 5000K | **(Blank)**[3] | 120V - Triac/ELV Dims to 5% |
| | [1] Lumen Switch LUMEN Switch | | [2] Color Temperature Switch CCT SWITCH | | [3] For ELP11, 1250 lm **(11W)** option only | |


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## PRODUCT NUMBER BUILDER

**STEP 3.** Specify Trim part number (Select one)

### 4″ FLEXA™ ROUND TRIMS



Style: **Reflector**
Item: **ELL4621WW** (All White)
**ELL4621BB** (All Black)
**ELL4621BZ** (All Bronze)
**ELL4621BW** (Black/White Ring)
**ELL4621HW** (Haze/White Ring)



Style: **Baffle**
Item: **ELL4623WW** (All White)
**ELL4623BB** (All Black)
**ELL4623BW** (Black/White Ring)

### 4″ FLEXA™ SQUARE TRIMS



Style: **Reflector**
Item: **ELL4641WW** (All White)
**ELL4641BB** (All Black)
**ELL4641BZ** (All Bronze)
**ELL4641BW** (Black/White Ring)
**ELL4641HW** (Haze/White Ring)



Style: **Baffle**
Item: **ELL4643WW** (All White)
**ELL4643BB** (All Black)
**ELL4643BZBZ** (All Bronze)
**ELL4643BW** (Black/White Ring)

### 4″ UNIQUE™ ROUND TRIMS



Style: **Reflector**
Item: **ELL4810W** (All White)
**ELL4810B** (All Black)
**ELL4810BZ** (All Bronze)



Style: **Wall Wash Reflector**
Item: **ELL4815W** (All White)
**ELL4815B** (All Black)
**ELL4815BZ** (All Black)



Style: **Deep Reflector**
Item: **ELL4817W** (All White)
**ELL4817BZ** (All Bronze)

### 4″ UNIQUE™ SQUARE TRIMS



Style: **Reflector**
Item: **ELL4814W** (All White)
**ELL4814B** (All Black)
**ELL4814BZ** (All Bronze)



Style: **Baffle**
Item: **ELL4816W** (All White)
**ELL4816BZ** (All Bronze)



Style: **Deep Reflector**
Item: **ELL4818W** (All White)
**ELL4818BZ** (All Bronze)

### 4″ UNIQUE™ ROUND TRIMLESS (For use with EJB483 housing only)



Style: **Reflector**
Item: **ELL430W** (All White)
**ELL430B** (All Black)
**ELL430BZ** (All Bronze)
Spackle frame included

Compatible trims for Shallow Housings

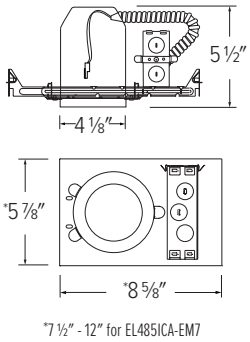
Compatible trims for EJB housings


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# PRODUCT DIMENSIONS

## 4″ POPLAR™ IC AIRTIGHT HOUSINGS

### STANDARD NEW CONSTRUCTION HOUSING




*7 ½″ - 12″ for EL485ICA-EM7

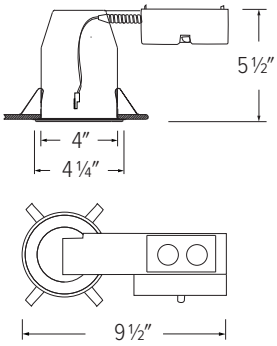
**EL490ICA**



**EL490ICDXA**



### STANDARD REMODEL HOUSING



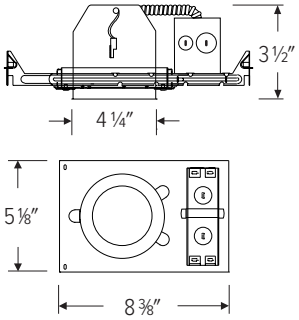

**EL490RICA**



**EL490RICDXA**



### SHALLOW NEW CONSTRUCTION HOUSING




**EL492ICA**

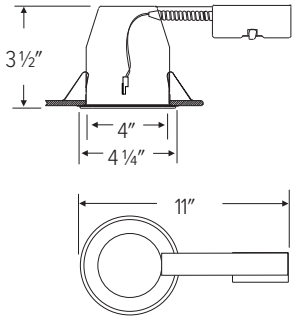


**EL492ICDXA**



For compatible trims look for this icon

### SHALLOW REMODEL HOUSING




**EL492RICA**

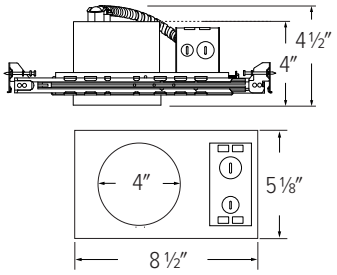


**EL492IRCDXA**

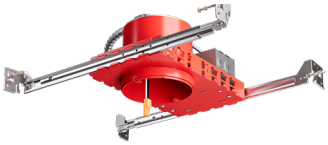


For compatible trims look for this icon

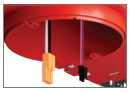
### NEW CONSTRUCTION HOUSING FOR 2-HOUR FIRE RATED CEILINGS




**EJB4ICA**

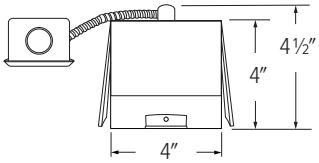


**EJB4ICDXA**



For compatible trims look for this icon

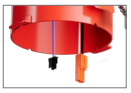
### REMODEL HOUSING FOR 2-HOUR FIRE RATED CEILINGS




**EJB4RICA**

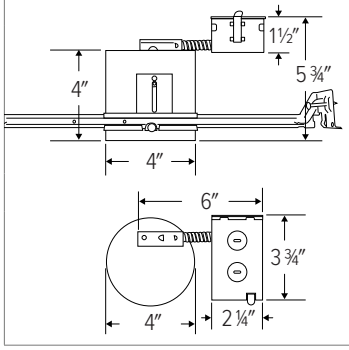


**EJB4RICDXA**

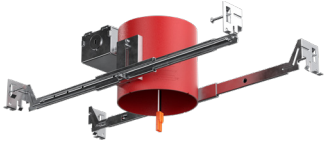


For compatible trims look for this icon

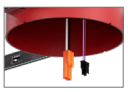
### NEW CONSTRUCTION HOUSING FOR 2-HOUR FIRE RATED CEILINGS




**EJB475ICA**

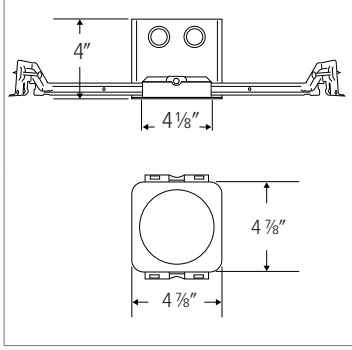


**EJB475ICDXA**

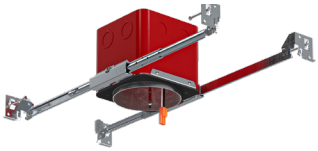


For compatible trims look for this icon

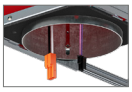
### NEW CONSTRUCTION HOUSING FOR 2-HOUR FIRE RATED CEILINGS




**EJB483ICA**



**EJB483ICDXA**



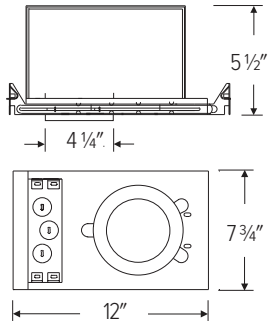
For compatible trims look for this icon


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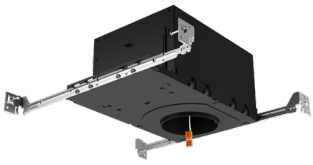
## PRODUCT DIMENSIONS

## 4″ POPLAR™ IC AIRTIGHT HOUSINGS

### R-60 FOAM INSULATION NEW CONSTRUCTION HOUSING



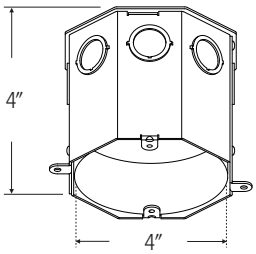

**EL490AJICA**



**EL490AJICDXA**



### CONCRETE POUR JUNCTION BOX

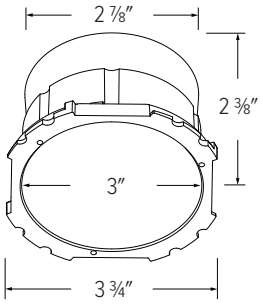



**EJB4CNC**



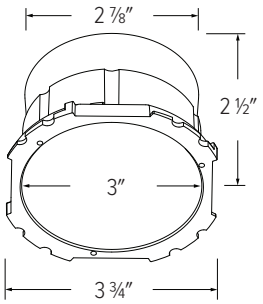
## STANDARD POPLAR™ LED MODULE

**ELP11CT5DX**
STANDARD POPLAR™ LED MODULE WITH **5-CCT & LUMEN SWITCH**






**ELP11CT5**
POPLAR™ LED MODULE WITH **5-CCT SWITCH**



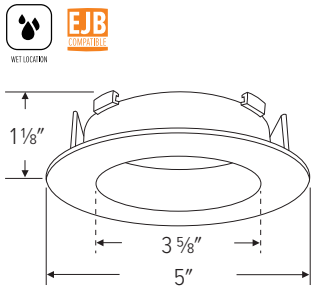



## FLEXA™ TRIMS

Compatible trims for Shallow Housings

Compatible trims for EJB housings

### ELL4621 - 4″ ROUND REFLECTOR






**WW** (All White)



**BW** (Black/White Ring)



**BB** (All Black)

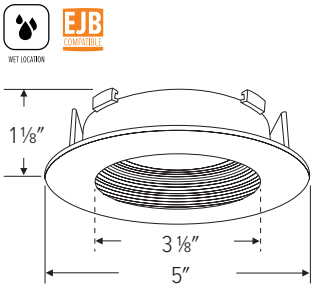


**HW** (Haze/White Ring)



**BZBZ** (All Bronze)

### ELL4623 - 4″ ROUND BAFFLE






**WW** (All White)

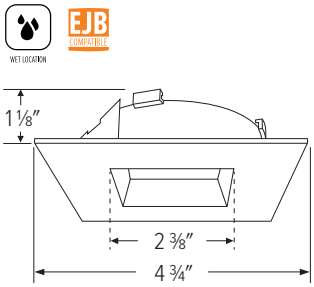


**BB** (All Black)



**BW** (Black/White Ring)

### ELL4641 - 4″ SQUARE REFLECTOR






**WW** (All White)



**BW** (Black/White Ring)



**BB** (All Black)

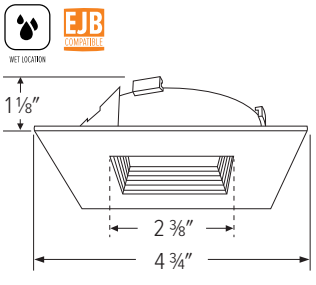


**HW** (Haze/White Ring)



**BZBZ** (All Bronze)

### ELL4643 - 4″ SQUARE BAFFLE






**WW** (All White)



**BW** (Black/White Ring)



**BB** (All Black)



**BZBZ** (All Bronze)


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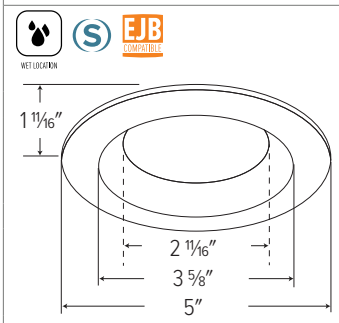
# PRODUCT DIMENSIONS

## UNIQUE™ TRIMS

Compatible trims for Shallow Housings

Compatible trims for EJB housings

### ELL4810 - 4" ROUND REFLECTOR



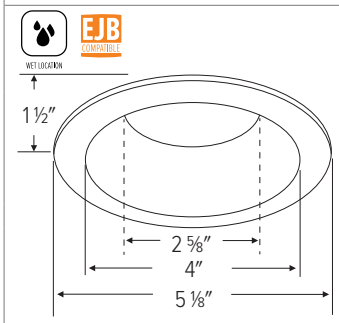



**W** (All White)

**B** (All Black)

**BZ** (All Bronze)

### ELL4817 - 4" DEEP REFLECTOR

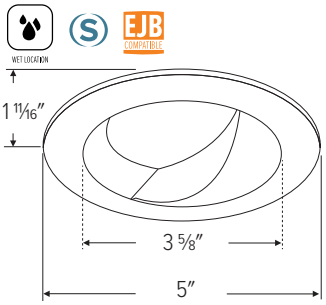





**W** (All White)

**BZ** (All Bronze)

### ELL4815 - 4" ROUND WALL WASH REFLECTOR



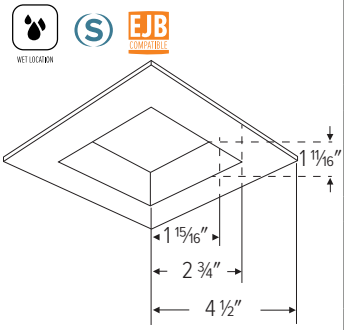


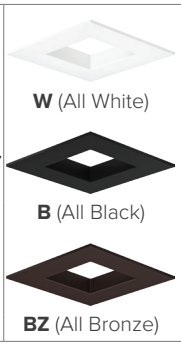

**W** (All White)

**B** (All Black)

**BZ** (All Bronze)

### ELL4814 - 4" SQUARE REFLECTOR



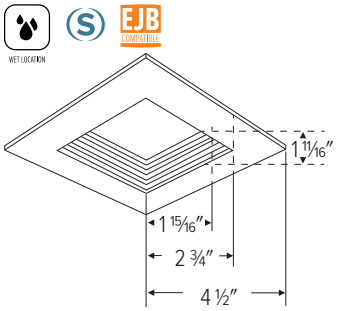



**W** (All White)

**B** (All Black)

**BZ** (All Bronze)

### ELL4816 - 4" SQUARE BAFFLE

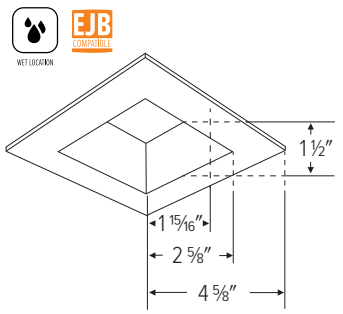





**W** (All White)

**BZ** (All Bronze)

### ELL4818 - 4" SQUARE DEEP REFLECTOR



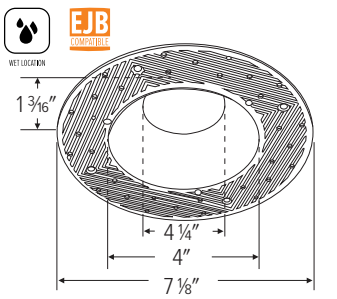


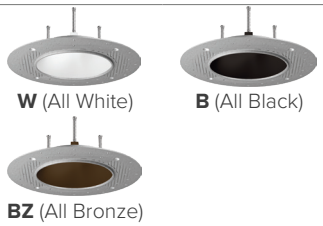

**W** (All White)

**BZ** (All Bronze)

## UNIQUE™ TRIMLESS

### ELL430 - 4" TRIMLESS REFLECTOR



**W** (All White)

**B** (All Black)

**BZ** (All Bronze)

(For use with EJB483 housing only)


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## ACCESSORIES

### ACCESSORIES FOR RETROFITS (socket adapters for retrofitting existing housings - adapters to male Quick Connect)

| Medium Base Adapter | GU10 Base Adapter |
|---|---|
|  |  |
| **PSA30**<br><br>Socket adapter<br>medium base to<br>LED Quick Connect | **PSA31**<br><br>Socket adapter<br>GU10 to LED<br>Quick Connect |

## TECHNICAL DETAILS

**Optics:** Frosted polycarbonate module lens diffuses light evenly throughout while reducing glare with LED technology. Standard lens is shaterproof.

**Construction (Light Engine):** Diecast module houses LED chip, reflector, diffuser and heat sink. Smooth lens provides even illumination.

**Installation (Light Engine):** Twist-on design for toolless trim installation. For use with 4″ and 6″ Flexa™ and Unique™ Trims.

**Hanger Bars:** Pre-installed hanger bars with True Nail easy installation in regular lumber, engineered lumber, and laminated beams. Integral T-bar slots for easy installation in T-bars. Spans up 24″ and can be repositioned 90º. Score lines allow for tool-free hanger bar size reduction. Integral leveling flange allows for single-person installation while easily aligning the housings with the joists.

**LED Technology:** Extremely accurate Color Rendering Index of 90+. Lumen Maintenance of 50,000 hours L70 Life based on LM80 standardized test results. Superior Thermal Management by utilizing integrated heat sink. Instant On to Full Brightness technology. No LED pixilation.

**Electrical:** Integral driver is rated for 120/277V Input with a power factor greater than 0.9.

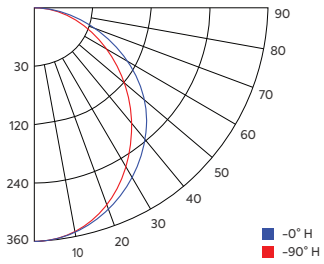
**Dimming:** 120V Triac/ELV/0-10V dimming, 277V 0-10V dimming down to 1%

**Listings:** UL and cUL Listed for Damp Locations. UL and cUL Listed for Wet Location with Wet location trims. RoHS Compliant. Meets Energy Star & California Title 24 JA8-2022-E standards.

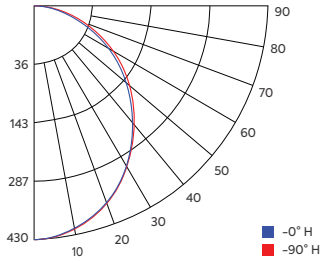
**Warranty:** ELCO Products are built to last with a 5-year Limited warranty.


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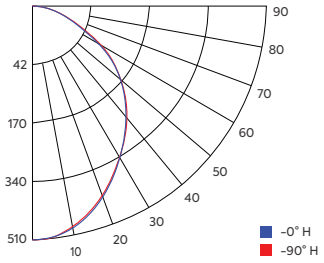
## POPLAR™ LED MODULE

| PHOTOMETRIC REPORT | CANDLE POWER SUMMARY | | ILLUMINANCE AT A DISTANCE | | |
|---|---|---|---|---|---|
| Product #: ELP11CT5DX (8W & 3000K)<br>Wattage / Lumens: 8W / 800 lm<br>Luminaire LPW: 0.12 lm/W | Degres s Vertical | 0° | Distance to Target Plane | Center Beam Footcandles | Beam Diameter |
| | 0 | 353 | 4′ | 22.1 | 7.6′ |
| | 5 | 354 | 6′ | 9.82 | 11.4′ |
|  | 15 | 338 | 8′ | 5.52 | 15.2′ |
| | 25 | 302 | 10′ | 3.53 | 19.0′ |
| | 35 | 247 | ZONAL LUMEN SUMMARY | | |
| | 45 | 187 | | | |
| | 55 | 131 | Zone | Lumens | %Luminaire |
| | 65 | 84 | | | |
| | 75 | 45 | 0-30° | 255.8 | 34.2 |
| | 85 | 15 | 0-40° | 398.2 | 53.2 |
| | 90 | 4 | 0-60° | 631.4 | 84.3 |
| | | | 0-90° | 748.5 | 100 |



| PHOTOMETRIC REPORT | CANDLE POWER SUMMARY | | ILLUMINANCE AT A DISTANCE | | |
|---|---|---|---|---|---|
| Product #: ELP11CT5DX (10W & 3000K)<br>Wattage / Lumens: 10W / 1050 lm<br>Luminaire LPW: 99 lm/W | Degress Vertical | 0° | Distance to Target Plane | Center Beam Footcandles | Beam Diameter |
| | 0 | 426 | 4′ | 26.6 | 7.6′ |
| | 5 | 421 | 6′ | 11.8 | 11.4′ |
|  | 15 | 392 | 8′ | 6.66 | 15.2′ |
| | 25 | 339 | 10′ | 4.26 | 19.0′ |
| | 35 | 268 | ZONAL LUMEN SUMMARY | | |
| | 45 | 197 | | | |
| | 55 | 134 | Zone | Lumens | %Luminaire |
| | 65 | 81 | | | |
| | 75 | 38 | 0-30° | 307.6 | 34.4 |
| | 85 | 6 | 0-40° | 477.9 | 53.5 |
| | 90 | 2 | 0-60° | 755.3 | 84.6 |
| | | | 0-90° | 893.1 | 100 |



| PHOTOMETRIC REPORT | CANDLE POWER SUMMARY | | ILLUMINANCE AT A DISTANCE | | |
|---|---|---|---|---|---|
| Product #: ELP11CT5DX (12W & 3000K)<br>Wattage / Lumens: 12W / 1150 lm<br>Luminaire LPW: 88 lm/W | Degress Vertical | 0° | Distance to Target Plane | Center Beam Footcandles | Beam Diameter |
| | 0 | 503 | 4′ | 31.4 | 7.6′ |
| | 5 | 496 | 6′ | 14.0 | 11.4′ |
|  | 15 | 458 | 8′ | 7.86 | 15.3′ |
| | 25 | 393 | 10′ | 5.03 | 19.1′ |
| | 35 | 297 | ZONAL LUMEN SUMMARY | | |
| | 45 | 213 | | | |
| | 55 | 141 | Zone | Lumens | %Luminaire |
| | 65 | 82 | | | |
| | 75 | 35 | 0-30° | 364.9 | 34.3 |
| | 85 | 5 | 0-40° | 566.7 | 53.3 |
| | 90 | 2 | 0-60° | 897.4 | 84.4 |
| | | | 0-90° | 1,063.3 | 100 |




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