



# DISCOVERY

## NARROW TROFFER

PRODUCT  
OVERVIEW



SCAN OR  
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## FEATURES

- Sleek, Compact and Modern Design offering high-quality illumination while modernizing any space
- Slim 4" Lens Width
- Available in White, Black, Silver or Custom Paint Finishes
- Available in 2FT, 4FT, and 8FT Sizes with Lumen Outputs of up to 12,000 Lumens. Lumen ranges per Foot of 500, 1,000, and 1,500 to accommodate a wide range of applications.
- Available in 30K, 35K, 40K or 50K CCT
- Grid, Flange, Surface & Skylight Mounting Options
- Integrated Wireless Controls Options allowing for seamless, remote management of site lighting

## DIGITAL NAVIGATION

Explore the spec sheet through the links below

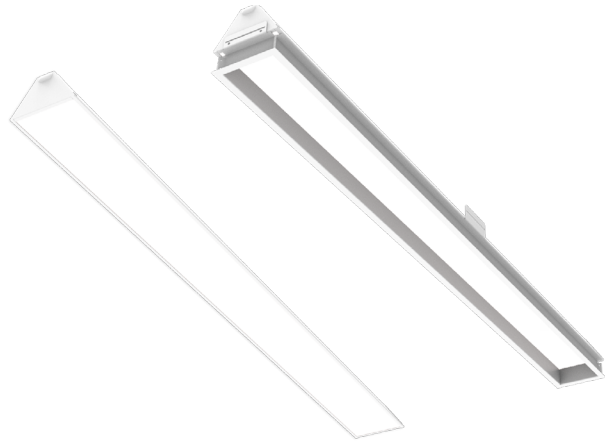
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## SUITABLE APPLICATIONS

- Education
- Commercial Office
- Healthcare
- Retail
- Hospitality

## CERTIFICATIONS



## SPECIFICATIONS

### CONSTRUCTION

A Compact and Sleek Steel housing body for rigidity, durability, and ease of installation. Designed to achieve maximum performance and improved aesthetics. Power access plate mounted on back of fixture for easy access to wiring. Product proudly assembled in the United States of America. Post-paint options available.

### ELECTRICAL

Class 2 LED light engine for high efficacy and long life. Calculated L70 > 100,000 hrs. LED Lumen Maintenance Estimates based on TM-21 projections for the light source at 25°C ambient. Open air max ambient temperature of 104°F. Power Factor > 0.90. Standard 120-277 Vac 0-10V dimmable (10%-100%) with optional 1%, Dali Ready, Bi-Level & Line Voltage options available. Optional emergency battery backups available to meet critical life safety lighting requirements.

### INSTALLATION

DNT fits into standard 9/16" & 15/16" T-grid ceiling. Optional Flange Kit, Surface Mount to ceiling, and Skylight for Added Depth mount options available. Access plate installed on top of fixture for easy hardwire power connections. Optional factory installed power flex conduit whip (MC) available to reduce electrical installation time.

### OPTICS

Flat acrylic lens (0.04" thick) designed for enhanced durability and glare reduction from LEDs.

### CONTROLS

Factory installed Advanced sensor options available to maximize energy savings. Sensors are installed integral to the fixture body. Please see more information below on Pages 3 & 4. Inquire with manufacturer for additional controls options, including customer supplied items.

### CERTIFICATIONS

ETL Listed to US and Canadian safety standards. Suitable for insulation contact with Type IC rated. Suitable for damp locations. BAA compliant. Title 24 Compliant with sensor option; see local ordinance for qualification information. DLC (DesignLights Consortium) Qualified. Please refer to the DLC Qualified Products List at [www.Designlights.org/QPL](http://www.Designlights.org/QPL) to confirm specific product qualifications.

### WARRANTY

5 Year Warranty Standard; 10 Year Warranty Optional (Terms and Conditions apply).

## ORDERING GUIDE

PART #

Example: DNT4-40L-U-40-EM10-NURO

| SERIES  | LUMENS   | DRIVER     | 80 CRI CCT  | FINISH  | ALT DRIVER   |
|---|--|------------|---|---|--|
| <b>DNT2</b><br>2' Discovery<br>Narrow Troffer | 10L 1,000 lm<br>15L 1,500 lm<br>20L 2,000 lm<br>25L 2,500 lm<br>30L 3,000 lm     | U 120-277V | 50 5000K<br>40 4000K<br>35 3500K<br>30 3000K      | BLANK White<br>BLK Black<br>SLV Silver<br>PAF Post Painted White<br>RALxxxx Custom (XXXX= 4 Digit RAL#) | BLANK None<br>SR Sensor Ready Driver<br>DR DALI Ready Driver<br>DIM1 1% Dimming Driver<br>BLD <sup>8</sup> Bi-Level Dimming Driver w/<br>Two Hot Leads (100%/50%)<br>LDE1 Lutron Hi-Lume Driver<br>LVD120 <sup>8</sup> Mark X Phase Dimming 120V |
| <b>DNT4</b><br>4' Discovery<br>Narrow Troffer | 20L 2,000 lm<br>30L 3,000 lm<br>40L 4,000 lm<br>50L 5,000 lm<br>60L 6,000 lm     |            | 90 CRI CCT<br>940 4000K<br>935 3500K<br>930 3000K |   |  |
| <b>DNT8</b><br>8' Discovery<br>Narrow Troffer | 40L 4,000 lm<br>60L 6,000 lm<br>80L 8,000 lm<br>100L 10,000 lm<br>120L 12,000 lm |            |   |   |  |

| EMERGENCY <sup>9</sup>   | CONTROLS  | METAL CONDUIT  | WARRANTY  |
|--|---|--|---|
| BLANK None<br>EM6 <sup>7</sup> 6W Battery Backup<br>EM6/HE <sup>7</sup> 6W Battery Backup<br>- CEC Title 20 Compliant<br>EM6/HE/SD <sup>7</sup> 6W Self Diagnostic Battery<br>Backup - CEC Title 20 Compliant<br>EM10 <sup>7</sup> 10W Battery Backup Advanced<br>EM10/HE <sup>7</sup> 10W Battery Backup<br>- CEC Title 20 Compliant<br>EM10/HE/SD <sup>7</sup> 10W Battery Backup<br>- Self Diagnostic<br>EM12 <sup>7</sup> 12W Battery Backup<br>GTD Generator Transfer Device<br>DTS UL 924 Emergency Device | BLANK None<br>NURO <sup>3,5</sup> NUROAir Integrated Bluetooth Groupable<br>Sensor<br>ESMC <sup>3</sup> EasySense Grouping Sensor for<br>Mounting Heights < 10ft<br>5E/CU/CL <sup>5</sup> Enlighted 5E Connected Lighting (CL) Sensor<br>with Control Unit<br>5E/CU/IOT <sup>5</sup> Enlighted 5E Internet of Things (IOT) Sensor<br>with Control Unit<br>VDO <sup>2</sup> Lutron Vive DFCSJ-OEM-OCC<br>(Daylight & Occupancy)<br>VRF <sup>2</sup> Lutron Vive DFCSJ-OEM-RF (RF Only)<br>AWNR Lutron Athena Wireless Node,<br>Radio Frequency Only<br>AWNS Lutron Athena Wireless Node, With Sensor<br>LPP <sup>5,6</sup> Lutron Vive Wireless PowPak Control | BLANK None<br>MCx/yW Metal Flex Conduit<br>(MCx= Length; x=6 or 10')<br>(yW= # of Wires; x= 3, 4, 5, or 6) | BLANK 5YR<br>Standard<br>10YR 10 YR<br>Optional |

| SHIP WITH ACCESSORIES        |  |
|------------------------------|--|
| BLANK                        | None   |
| NURO-SW-3B-BT-BLE-WP-V1      | NUROAir Bluetooth 3-Key Wireless Battery Powered Wall Switch           |
| NURO-SW-5B-BT-BLE-WP-V1      | NUROAir Bluetooth 5-Key Wireless Battery Powered Wall Switch           |
| NURO-SW-7B-AC-BLE-WP-V1      | NUROAir Bluetooth 7-Key Line Voltage (AC 120-277V) Powered Wall Switch |
| +DNTx SM xxx                 | DNT Surface Mount Kit (x=size, 2=2 Feet) (xxx=Finish, WHT=White)       |
| +DNTx FLGK xxx <sup>10</sup> | DNT Flange Kit (x=size, 2=2 Feet) (xxx=Finish, WHT=White)              |
| +DNTx SLMK xxx               | DNT Skylight Mount Kit (x=size, 2=2 Feet) (xxx=Finish, WHT=White)      |
| ESMC/WWS/DR                  | EasySense Dual Rocker Wireless Wall Switch                             |

## FOOTNOTES

<sup>1</sup> Not available with DNT2

<sup>2</sup> Must be used with SR driver

<sup>3</sup> Easily Controlled via Mobile Phone with Bluetooth App

<sup>4</sup> Cannot be ordered with alternate driver options

<sup>5</sup> Not available with SR, DR, BLD, LDE1, LVD120

<sup>6</sup> Base fixture height increases to 6.3"

<sup>7</sup> Minimum Ambient Temperature of 0°C

<sup>8</sup> Is not compatible with any control options

<sup>9</sup> Base fixture height increases to 4.3"

<sup>10</sup> DNT8 FLGK will have Extended Lead Time, please Contact Factory for more

## LED SYSTEMS

| LED SYSTEMS INFO | 3000K CCT |        |      | 3500K CCT |        |      | 4000K CCT |        |        | 5000K CCT |        |      | Watts | CRI | DLC      |
|------------------|-----------|--------|------|-----------|--------|------|-----------|--------|--------|-----------|--------|------|-------|-----|----------|
|                  | Part #    | Lumens | LPW  | lm/ft     | Lumens | LPW  | lm/ft     | Lumens | LPW    | lm/ft     | Lumens | LPW  |       |     |          |
| DNT2-10L         | 1071      | 118.1  | 536  | 1080      | 121.5  | 540  | 1118      | 125.7  | 559    | 1094      | 122.7  | 547  | 9     | 80  | Standard |
| DNT2-15L         | 1612      | 117.4  | 806  | 1648      | 120.7  | 824  | 1705      | 124.9  | 852.7  | 1668      | 122    | 834  | 14    | 80  |          |
| DNT2-20L         | 1931      | 116.7  | 966  | 1974      | 120    | 987  | 2043      | 124.2  | 1021.5 | 1998      | 121.2  | 999  | 16    | 80  |          |
| DNT2-25L         | 2625      | 120.2  | 1313 | 2686      | 123.6  | 1343 | 2779      | 127.9  | 1389.4 | 2718      | 124.9  | 1359 | 22    | 80  | Standard |
| DNT2-30L         | 2956      | 111.3  | 1478 | 3056      | 115.8  | 1528 | 3162      | 119.8  | 1581   | 3093      | 116.9  | 1546 | 26    | 80  |          |
| DNT4-20L         | 2017      | 125.7  | 504  | 2090      | 130.3  | 522  | 2181      | 134.8  | 545.3  | 2129      | 131.6  | 532  | 16    | 80  | Standard |
| DNT4-30L         | 2955      | 123.7  | 739  | 3061      | 128.1  | 765  | 3323      | 132.6  | 830.7  | 3118      | 129.4  | 779  | 24    | 80  | Standard |
| DNT4-40L         | 3991      | 121.6  | 998  | 4135      | 126    | 1034 | 4336      | 130.4  | 1084   | 4211      | 127.3  | 1053 | 33    | 80  | Standard |
| DNT4-50L         | 4943      | 119.6  | 1236 | 5121      | 123.9  | 1280 | 5274      | 128.2  | 1318.4 | 5215      | 125.1  | 1304 | 42    | 80  | Standard |
| DNT4-60L         | 5960      | 117.4  | 1490 | 6094      | 121.7  | 1524 | 6361      | 126    | 1590.2 | 6206      | 123    | 1552 | 50    | 80  | Standard |
| DNT8-40L         | 3769      | 126.6  | 471  | 3905      | 131.1  | 488  | 4075      | 135.7  | 509.4  | 3976      | 132.5  | 497  | 30    | 80  | Standard |
| DNT8-60L         | 6062      | 124    | 758  | 6280      | 128.5  | 785  | 6555      | 133    | 819.4  | 6396      | 129.8  | 800  | 49    | 80  | Standard |
| DNT8-80L         | 7987      | 121.5  | 998  | 8274      | 125.9  | 1034 | 8636      | 130.3  | 1079.5 | 8426      | 127.2  | 1053 | 66    | 80  | Standard |
| DNT8-100L        | 9838      | 119    | 1230 | 10192     | 123.3  | 1274 | 10638     | 127.6  | 1329.7 | 10379     | 124.5  | 1297 | 83    | 80  | Standard |
| DNT8-120L        | 11740     | 116.5  | 1468 | 12162     | 120.7  | 1520 | 12695     | 124.8  | 1586.8 | 12386     | 121.9  | 1548 | 101   | 80  | Standard |

<sup>1</sup>Values are nominal, check IES files for more detail

<sup>2</sup>Electrical data at 25°C(77°F). Actual wattage may differ by +/-10%.

<sup>3</sup>Estimated Average of 3% reduction in lumen output when installed with a sensor.

<sup>4</sup>Please refer to the DLC Qualified Products List at [www.Designlights.org/QPL](http://www.Designlights.org/QPL) to confirm specific product qualifications.

<sup>5</sup>Open air max ambient temperature of 104°F

## CONTROLS OPTIONS

### ADVANCED

#### NUROAir by ILLUMUS

##### NURO

NUROAir Integrated Bluetooth Sensor is the optimal groupable controls lighting solution. With main features such as PIR Motion Sensing, Occupancy/Vacancy, Bi-Level Dimming and Daylight Harvesting - this flexibility makes the NUROAir Integrated Sensor ideal for tailoring lighting to specific space needs, optimizing both ambiance and efficiency. The NUROAir App, available for download on iOS and Google Play Store, offers a user-friendly interface for automatic or manual customization of your space. Through the app, users can configure sensor settings such as the Light Output, Hold Time, Standby Time/Level, High/Low End Trim, Background Light Level, Set Schedules, and Control Lighting Groups or Zones, all from a mobile or tablet device. Manual control is also available with a range of compatible wireless & wired wall switch options.



POWERED BY ILLUMUS, BRANDS



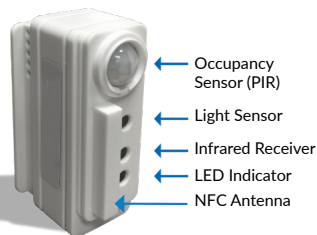
Click Here or Scan Code  
to Learn More About

NUROAir Bluetooth Controls

### EASYSense

##### ESMC

EasySense sensor combines occupancy sensing, daylight harvesting and institutional tuning in one compact solution. This is an ideal control for any Commercial application. Each device allows you to turn on/off occupancy and/or daylight harvesting functions as well as set the full light output, background light level, occupancy prolong time, occupancy grace fading time & occupancy time out/hold time. It can be easily controlled via the Philips MasterConnect Bluetooth App on a mobile phone.



##### ESMC/WWS/DR

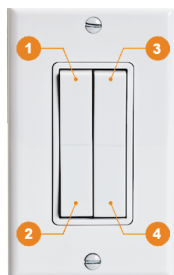
Optional Wireless / Batteryless Dual Rocker Wall Switch. Up to 100ft range. Functions include: On/Off, dimming and setting of (2) scenes for full room control.

##### Specifications:

- Wireless
- ZigBee®
- Batteryless
- 30-100ft Range
- Dual Rocker

##### Functions:

1. On (Hold to brighten up)
2. Off (Hold to dim down)
3. Scene 1
4. Scene 2



### ENLIGHTED

##### 5E/CU/CL

Bundled System with Enlighted 5E sensor (SU-5E-CL), Control Unit (CU-4E-FM) and Cable (CBL-5E-CU4-30N). Fixtures are controlled based on occupancy and ambient light. Includes individual lighting control plus connection to Enlighted Energy Manager. The Energy Manager provides data analysis for all data collected by the Enlighted Smart Sensors for energy, occupancy and environment. Provided with factory installed components only. Enlighted system provided by others. Contact factory for more information.



##### 5E/CU/IOT

Bundled System with Enlighted 5E sensor (SU-5E-IOT), Control Unit (CU-4E-FM) and Cable (CBL-5E-CU4-30N). Fixtures are controlled based on occupancy and ambient light. Includes individual lighting control plus connection to Enlighted Energy Manager. Energy Manager provides data analysis for all data collected by Enlighted Smart Sensors for energy, occupancy & environment. Additionally, the IOT functionality takes the data access and function beyond just lighting to a wide range of applications beyond the standard connected lighting controls. Provided with factory installed components only. Enlighted system provided by others. Contact factory for more information.

## CONTROLS OPTIONS Continued

### LUTRON

#### VDO

Vive DFCSJ-OEM-OCC integral fixture control sensor with daylight & occupancy. Vive provides intuitive programming allowing for maximum flexibility with wireless communication & sensing as desired. Provided with factory installed components only. Lutron system provided by others. Sensor must be used in conjunction with Pico Switch/Dimmer. Cannot be used in conjunction with mechanical on/off power switch. Contact factory for more information.



#### VRF

Vive DFCSJ-OEM-RF integral fixture control with Radio Frequency (RF) communication. Vive provides intuitive programming allowing for maximum flexibility with wireless communication as desired. Provided with factory installed components only. Lutron system provided by others. Sensor must be used in conjunction with Pico Switch/Dimmer. Cannot be used in conjunction with mechanical on/off power switch. Contact factory for more information.



#### AWNRR

Athena wireless node is a radio frequency (RF) device that enables simple, digital control of individual light fixtures in an Athena control system. Enables individual wireless control of each fixture in an Athena control system. Accommodates zone and control changes without rewiring. All drivers on the link are controlled as a single zone. Provided with factory installed components only. Lutron Athena system provided by others.



#### AWNS

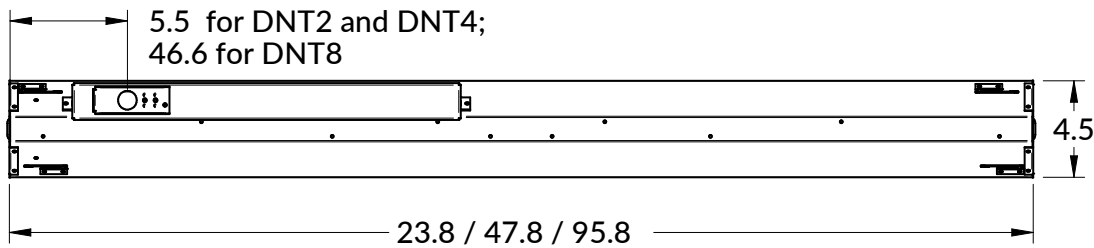
Athena wireless node with a sensor that enables simple, digital control of individual light fixtures in an Athena control system. Provides wireless control of the fixture and includes a passive infrared (PIR) sensor for occupancy and a daylight sensor. Enables individual wireless control of each fixture in an Athena control system. Accommodates zone and control changes without rewiring. All drivers on the link are controlled as a single zone. Provided with factory installed components only. Lutron Athena system provided by others.



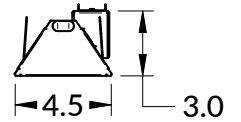
## LINE DRAWINGS \*Dimensions shown in inches\*

### DNTx

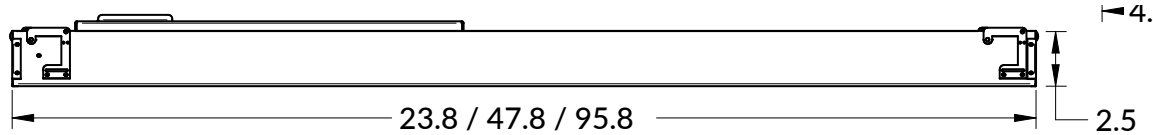
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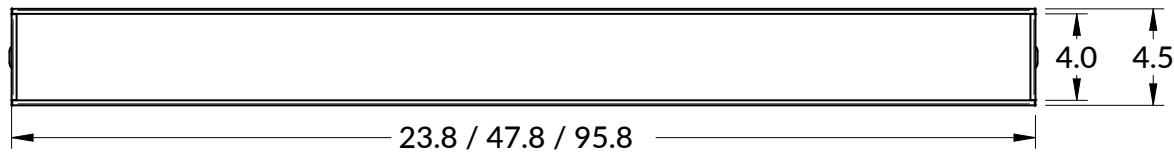
#### End View



#### Side

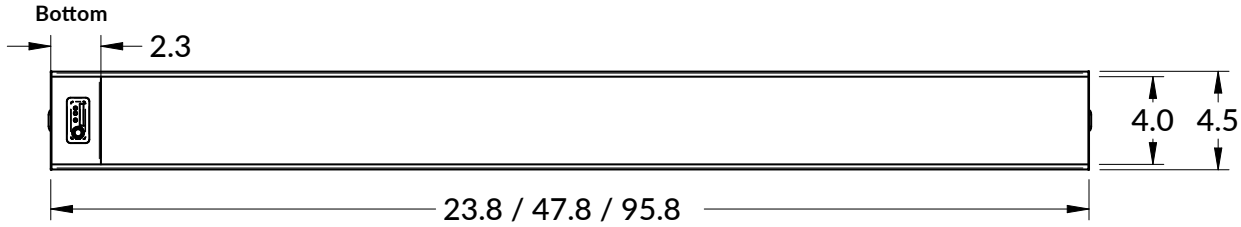
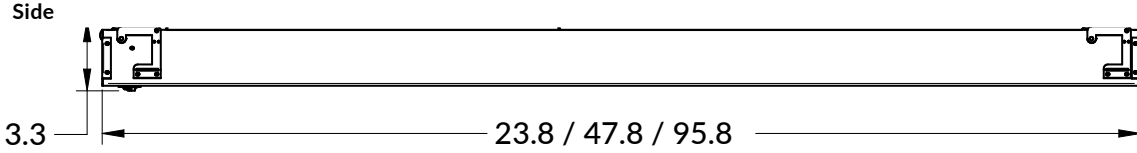
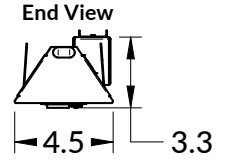
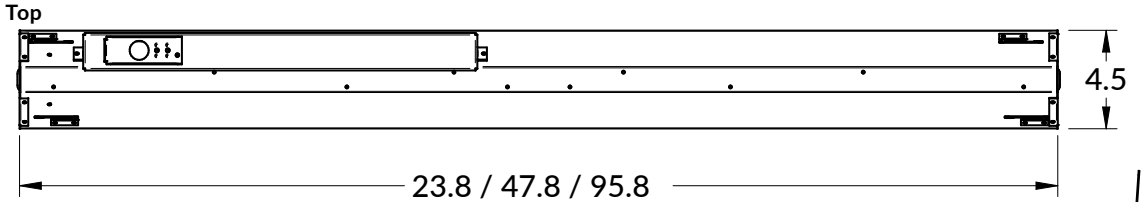


#### Bottom

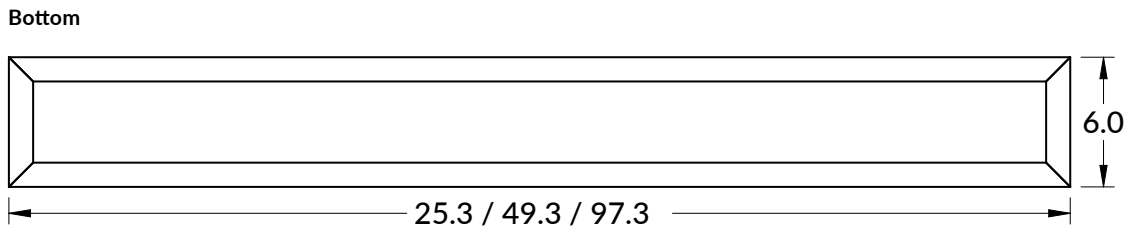
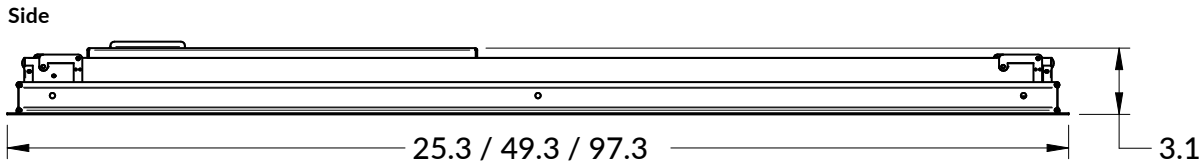
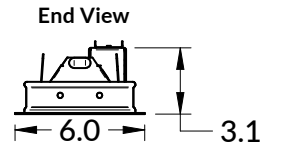
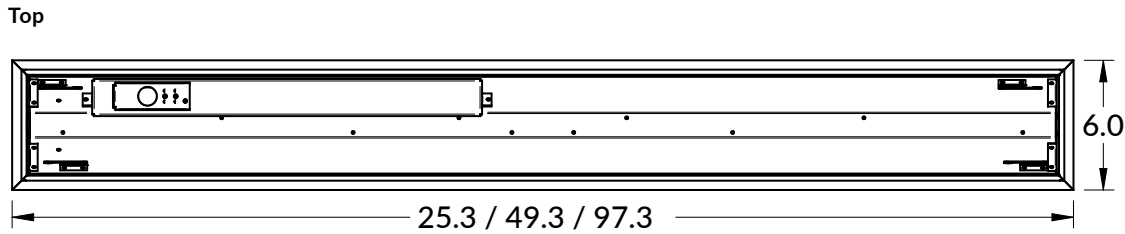


LINE DRAWINGS Continued

DNTx SENSOR ASSEMBLY



DNTx FLGK



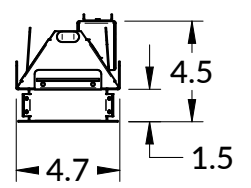
LINE DRAWINGS Continued

DNTx SLMK

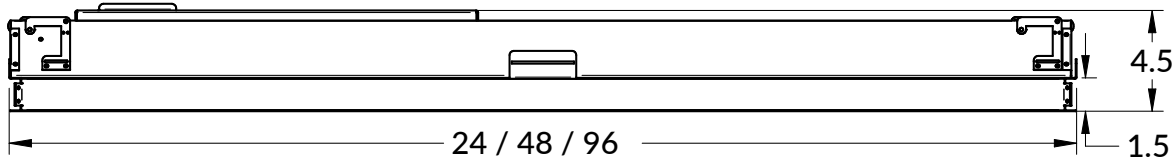
Top



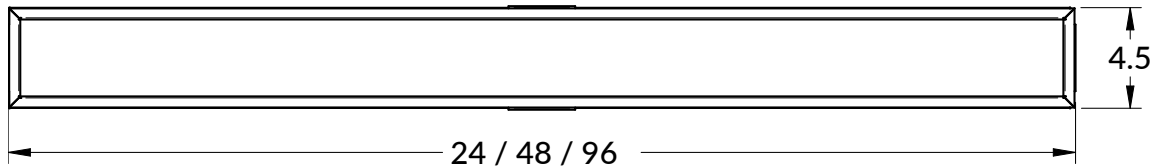
End View



Side

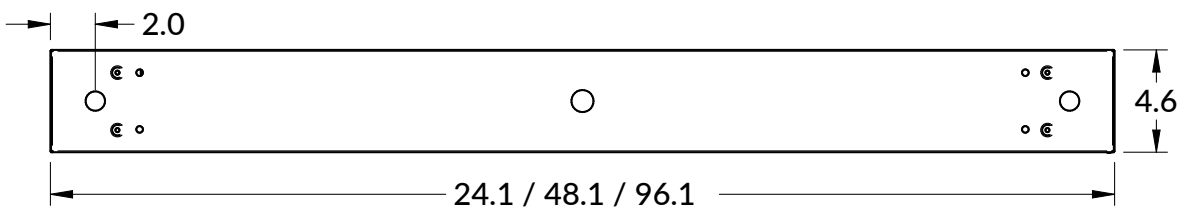


Bottom

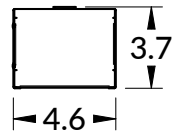


DNTx SM

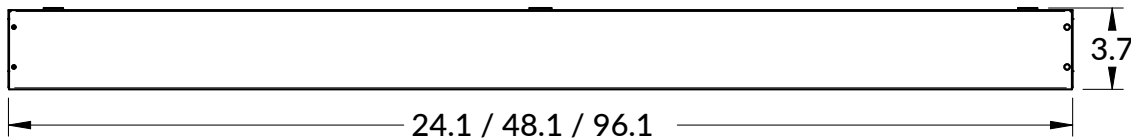
Top



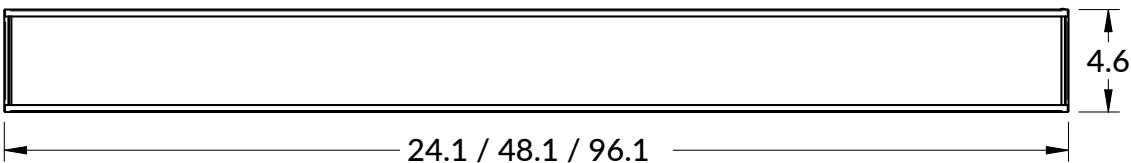
End View



Side



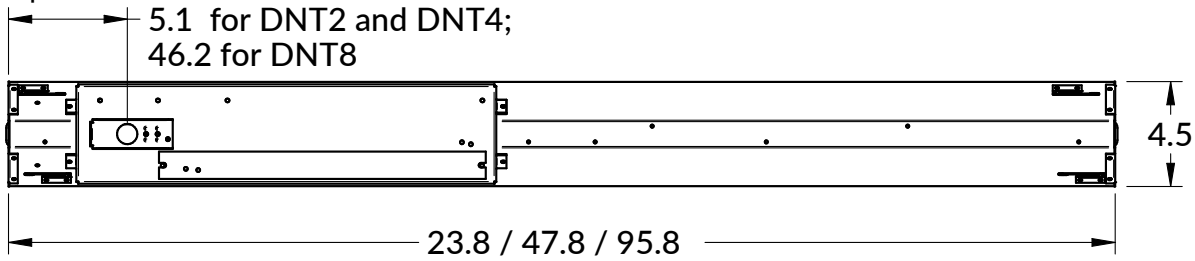
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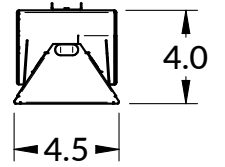
LINE DRAWINGS Continued

DNTx EM

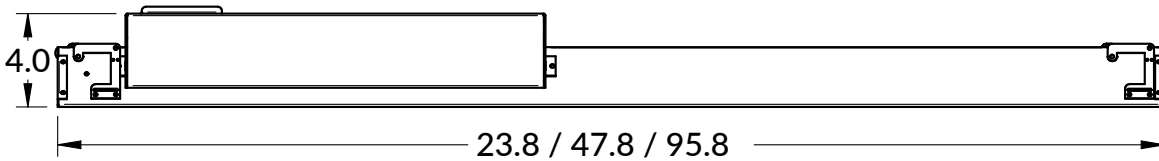
Top



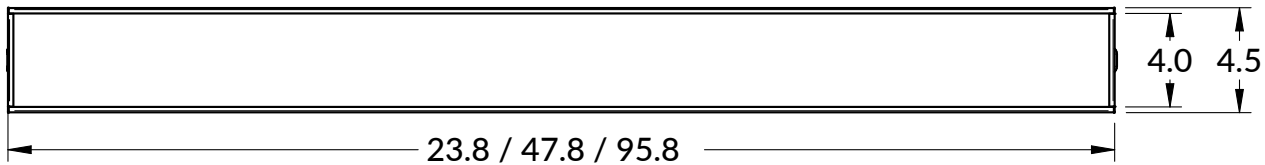
End View



Side



Bottom





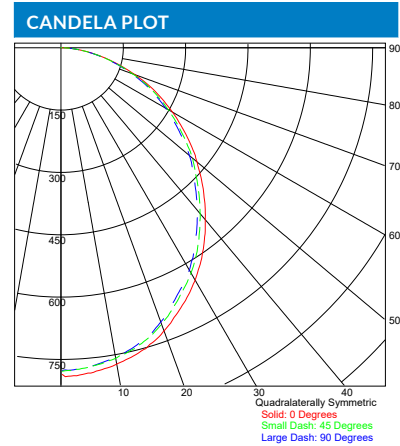
# DISCOVERY

## NARROW TROFFER

### PHOTOMETRIC DATA

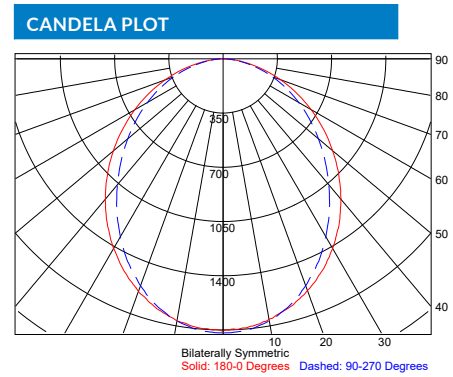
| LUMINAIRE DATA      |  |
|---------------------|--|
| Part Number         | DNT2-20L-U-40                                    |
| Description         | 2ft Discovery Narrow Troffer, 2000 Lumens, 4000K |
| Fixture Lumens (lm) | 2043 lm  |
| Wattage (W)         | 16.45 W  |
| Efficacy (lm/W)     | 124 lm/W   |
| Mounting            | Troffer  |
| Spacing Criteria    | 0° = 1.24, 90° = 1.2                             |

| ZONAL LUMEN SUMMARY |             |           |
|---------------------|-------------|-----------|
| Zone                | Lumens (lm) | % Fixture |
| 0° - 40°            | 952         | 47%       |
| 0° - 60°            | 1631        | 80%       |
| 0° - 90°            | 2043        | 100%      |
| 90° - 180°          | 0           | 0%        |
| 0° - 180°           | 2043        | 100%      |



| LUMINAIRE DATA      |  |
|---------------------|--|
| Part Number         | DNT4-40L-U-40                                    |
| Description         | 4ft Discovery Narrow Troffer, 4000 Lumens, 4000K |
| Fixture Lumens (lm) | 4336 lm  |
| Wattage (W)         | 33.1 W   |
| Efficacy (lm/W)     | 130.4 lm/W                                       |
| Mounting            | Troffer  |
| Spacing Criteria    | 0° = 1.2, 90° = 1.14                             |

| ZONAL LUMEN SUMMARY |             |           |
|---------------------|-------------|-----------|
| Zone                | Lumens (lm) | % Fixture |
| 0° - 40°            | 2097        | 48%       |
| 0° - 60°            | 3519        | 81%       |
| 0° - 90°            | 4336        | 100%      |
| 90° - 180°          | 0           | 0%        |
| 0° - 180°           | 4336        | 100%      |



| LUMINAIRE DATA      |  |
|---------------------|--|
| Part Number         | DNT8-80L-U-40                                    |
| Description         | 8ft Discovery Narrow Troffer, 8000 Lumens, 4000K |
| Fixture Lumens (lm) | 8589 lm  |
| Wattage (W)         | 66W  |
| Efficacy (lm/W)     | 129.5 lm/W                                       |
| Mounting            | Recessed   |
| Spacing Criteria    | 0° = 1.2, 90° = 1.14                             |

| ZONAL LUMEN SUMMARY |             |           |
|---------------------|-------------|-----------|
| Zone                | Lumens (lm) | % Fixture |
| 0° - 40°            | 4154        | 48%       |
| 0° - 60°            | 6971        | 81%       |
| 0° - 90°            | 8589        | 100%      |
| 90° - 180°          | 0           | 0%        |
| 0° - 180°           | 8589        | 100%      |

