

PROJECT NAME: \_\_\_\_\_ CAT. #: \_\_\_\_\_  
NOTES: \_\_\_\_\_ FIXTURE SCHEDULE: \_\_\_\_\_

## Round Network BLE Nodes & Sensors



NN-RDB



NN-RDW



NN-RDMPB



NN-RDMSW

### c-Max Overview

c-Max network lighting controls features a patent pending plug-and-play interface that allows for easy field installation of low voltage nodes and sensors to create an affordable luminaire lighting control solution. Sensors integrated with occupancy, daylight harvesting, and other control capabilities help achieve energy code compliance.

### Applications:

- Site Lighting
- Parking Garages/Lots
- Exterior
- Warehouses
- Industrial Space
- Commercial

### Features

- Luminaire Level Lighting Control (LLLC) enabled with wireless bluetooth technology
- Simple "Plug-and-Play" Connection - Easy to install in the field with pre-installed USB-C receptacle in Maxlite Controls Ready luminaires.
- Easy Commissioning with c-Max App (Available in IOS and Android)
- Local Bluetooth Network with no gateway needed
- Choice of different devices based on your desired functionality: Occupancy, Photocell and Daylight Harvesting on select models
- Individual Addressability and/or Grouping
- Multi-level dimming: Manual ON/OFF Automatic ON/OFF, and Automatic Partial ON/OFF control capability
- Ability to create scenes for more customized dimming scenarios
- Time clock scheduling for individual lights, groups, or scenes
- High-Trim/Tuning sets the maximum light level based on customer requirements in each space
- Includes locking screw to resist vandalism and withstand vibration (Requires 1.5mm Allen wrench)
- Check <https://www.maxlite.com/cmax> for c-Max fixture compatibility
- 5 Year Warranty

### PIR Sensor Features

|                              |                       |
|------------------------------|-----------------------|
| DAYLIGHT HARVESTING          | ON/OFF                |
| MOTION SENSING               | ON/OFF                |
| PHOTOCELL                    | ON/OFF                |
| FIRST TIME DELAY             | 1-59 minutes/infinite |
| SECOND TIME DELAY            | 0-59 minutes/infinite |
| DIM LEVEL                    | 1-100%                |
| MOUNTING HEIGHT              | 10-40ft               |
| DETECTION RANGE              | 80ft diameter         |
| DETECTION HORIZONTAL PATTERN | 360°                  |
| DETECTION VERTICAL PATTERN   | 90°                   |

### Ordering Information

| MODEL NUMBER | DESCRIPTION                                                       | UPC          | ORDER CODE |
|--------------|-------------------------------------------------------------------|--------------|------------|
| NN-RDW       | NETWORK NODE ROUND, WHITE                                         | 767627017810 | 106391     |
| NN-RDB       | NETWORK NODE ROUND, BRONZE                                        | 767627011962 | 105897     |
| NN-RDMSW     | NETWORK NODE ROUND, PIR MOTION SENSOR, DAYLIGHT HARVESTING, WHITE | 767627011979 | 105905     |
| NN-RDMPB     | NETWORK NODE ROUND, PIR MOTION SENSOR, PHOTOCELL, BRONZE          | 767627029271 | 108255     |



**5-year standard warranty** (further details available at [www.maxlite.com/warranties](http://www.maxlite.com/warranties)) Product may be eligible for a warranty extension to 10 years, for an additional fee. Contact MaxLite for details.



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### Specifications:

|                           | NN-RDW                                                     | NN-RDB       | NN-RDMSW       | NN-RDMPB       |
|---------------------------|------------------------------------------------------------|--------------|----------------|----------------|
| BLE CONTROL NODE          | Yes                                                        | Yes          | Yes            | Yes            |
| DAYLIGHT HARVESTING       | No                                                         | No           | Yes            | No             |
| PHOTOCELL                 | No                                                         | No           | No             | Yes            |
| DIGITAL PIR MOTION SENSOR | No                                                         | No           | Yes            | Yes            |
| OVERALL DIMENSIONS        | Ø63mm x 25mm                                               | Ø63mm x 25mm | Ø63mm x 48.2mm | Ø63mm x 48.2mm |
| COLOR                     | White                                                      | Bronze       | White          | Bronze         |
| WEIGHT                    | 1.47oz (42g)                                               | 1.47oz (42g) | 1.92oz (55g)   | 1.92oz (55g)   |
| CONNECTOR PORT            | USB-C                                                      |              |                |                |
| OPERATING VOLTAGE         | 12-20VDC                                                   |              |                |                |
| OPERATING CURRENT         | max 35mA                                                   |              |                |                |
| SINKING CURRENT           | max 25mA                                                   |              |                |                |
| CONTROL OUTPUT            | 0-10V (Linear)                                             |              |                |                |
| RADIO FREQUENCY           | 2.4GHz ± 75MHz                                             |              |                |                |
| WIRELESS STANDARD         | BLE 4.2 MESH IEEE 802.15.1                                 |              |                |                |
| PROGRAMMING               | c-Max Mobile App (IOS and Android)                         |              |                |                |
| CYBERSECURITY             | UL1376 Bronze Rating Pending                               |              |                |                |
| ENCRYPTION                | AES 128-bit                                                |              |                |                |
| MESH RANGE                | 100ft node-to-node and 50ft node-to-device (Commissioning) |              |                |                |
| SAFETY                    | cULus Listed E511069 Light-emitting-diode Controllers      |              |                |                |
| FCC                       | FCC ID: 2AZRDCMAX2021                                      |              |                |                |
| BQB                       | D055367                                                    |              |                |                |
| OPERATING TEMPERATURE     | -40°F to 130°F / -40°C to 55°C                             |              |                |                |
| IP RATING                 | IP66                                                       |              |                |                |



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Web: [www.maxlite.com](http://www.maxlite.com)

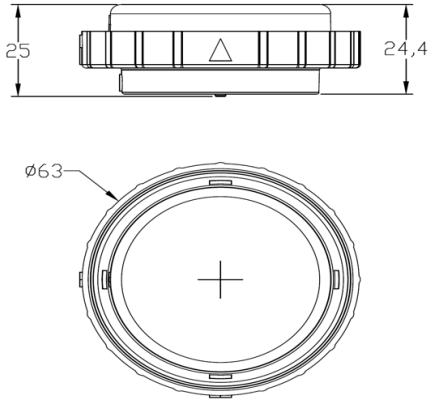
E-mail: [info@maxlite.com](mailto:info@maxlite.com)

Rev: 05/04/22

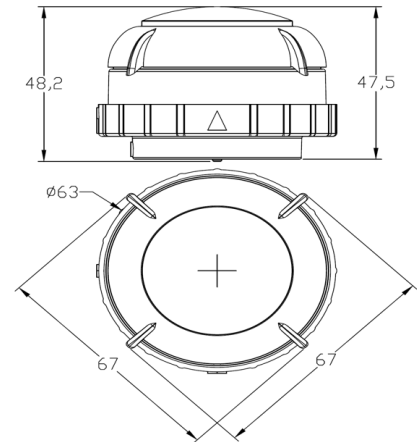
## Round Network BLE Nodes & Sensors

### Product Dimensions

#### NN-RDB AND NN-RDW



#### NN-RDMSW AND NN-RDMPB

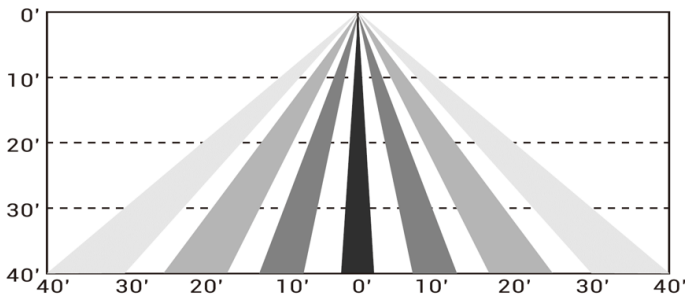


REQUIRES M1.5 ALLEN WRENCH

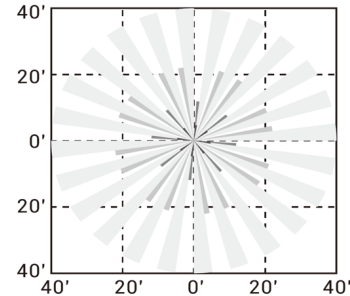
### High Bay Detection Coverage

#### NN-RDMSW/NN-RDMPB

SIDE VIEW



TOP VIEW



| MOUNTING HEIGHT       | ft (m) | 10' (3) | 20' (6)    | 30' (9.1)  | 40' (12.2) |
|-----------------------|--------|---------|------------|------------|------------|
| MAX COVERAGE DIAMETER | ft (m) | 20' (6) | 40' (12.2) | 60' (18.3) | 80' (24.4) |

### Commissioning

c-Max mobile App makes it easy to pair devices, create groups, set scenes/schedules, customize dimming levels, and adjust high trim based on application needs.

Visit [www.maxlite.com/cmmax](http://www.maxlite.com/cmmax) for How-to-Videos and a comprehensive commissioning guide.

