kurt versen
By Prescolite

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

# NOR-3.5R

NONI 3.5" ROUND RECESSED FAMILY

Noni™



## FEATURES

- Downlight (two styles), Lensed Wall Wash (two styles), Adjustable Accent
- ¼" overlap micro flange and flangeless trims featuring CorrectCut
- Cast aluminum, magnetically-attached reflectors with applied finishes
- Interchangeable primary optics for Downlight and Adjustable Accent
- New Construction Non-IC, IC & Chicago Plenum applications
- Up to 2000 delivered lumens @ 80 CRI 3000K
- 90 CRI (27, 30, 35, 40K); 80 CRI (30, 35K)
- Dynamic white options (18–30K Dim-to-Warm, 27–65K Tunable White)

WET RATED

UL1598

## CONTROLS

NX LIGHTING CONTROLS

SpectraSync Color Tuning Technology

## SPECIFICATIONS

### HOUSING CONSTRUCTION

- Formed 22GA steel housing, finished matte black. New Construction **(NHN)** housing thermally protected. Insulation must be 3" away from housing. New Construction IC **(NHI)** inherently protected for direct contact with insulation installation
- Removable cover plates on housing side and bottom for j-box inspection
- Downlight **(DL)** & Shallow Lensed Wall Wash **(LWS)** feature ultra shallow 2" deep housing. Integral j-box has (4) ⅞" knock-outs
- Adjustable Accent **(AA)** & Deep Lensed Wall Wash **(LWD)** utilize 3 ⅜" deep housing. Integral j-box has (6) ⅞" knock outs
- Universal adjustable mounting brackets accept 0.5" EMT conduit or 1.5" or 0.75" lathing channel (by others)
- Optional Residential Mounting Bars **(RMB)** extend from 16–24"
- CorrectCut design is a rolled sheet metal edge which serves as a cutting guide for installers. Provides fixed cutout outer diameter which ensures reliable flange coverage and clean, finished appearance. *KV-exclusive*
- LED protection plate pre-installed from factory
- Control options require above ceiling access

### TRIM CONSTRUCTION

- Reflector assembly includes reflector collar & reflector insert. Both cast aluminum, matte finish. Can be mixed/matched as desired. Insert attaches to collar via magnets. Gasket centers insert and prevents light leak

### TRIM CONSTRUCTION (CONTINUED)

- ¼" overlap flange. Thickness measures .047"
- Ceiling thickness range ⅝"- 1 ¼". Two Downlight trim ceiling thickness options available: Shallow **(DS)** optimized for ⅝" ceiling (compatible up to & including 1 ⅛"). Deep **(DD)** optimized for 1 ¼" ceiling (compatible with 1 ¼" only)
- Flangeless **(FT)** mud-in ring is low profile, die-cast featuring an edge to plaster up to. Ring attaches to ceiling and comes with removable protective plug installed at factory

### OPTICS

- Static white fixtures feature low profile, high efficiency polycarbonate TIR primary optics for **(DL)** and **(AA)** functions
- All dynamic white fixtures feature optical grade silicone lens
- Optics installed and serviceable from below through housing aperture
- Media holder included standard. Accepts 1 reflector accessory. Matte black finish, reduces visual brightness at top of trim
- Adjustable Accent **(AA)** lockable hot-aim 0°–40° vertical tilt, 362° horizontal rotation. Features translating center beam at finished ceiling plane (⅝")
- Two wall wash options, both optimized for 18" spacing off-wall with 2:1 spacing. **LWD** optic provides industry-leading horizontal uniformity near top-of-wall. **LWS** optic provides excellent vertical uniformity in ultra shallow housing

### ELECTRICAL

- Integral LED module and driver are field serviceable from below through housing aperture
- Chip-on-board LED. 2 SDCM CCT consistency for static white options. 3 SDCM consistency for Dynamic options
- Static White and Dim to Warm LED rated life L85 @ 55,000 hours (TM-21). Tunable White LED rated life L70 @ 50,000 hours (TM-21)
- Integral solid state constant current dimming driver. 1% and Dim-to-Dark options for 0–10V, ELV and TRIAC controls. NX or Lutron Vive control options available
- Drivers are UL Class 2, inherent short circuit and overload protection. RoHS compliant

### CERTIFICATIONS

- cULus certified to UL 1598
- Suitable for wet locations
- Hexcel Louver **(HEX)** and No Lens **(NON)** suitable for damp locations.
- City of Chicago Environmental Air **(CCEA / CP)**
- Install in environments where ambient temperature does not exceed 25°C

### WARRANTY

- 5 year warranty

| KEY DATA | |
|---|---|
| Wattages | 25, 17, 10 |
| Beam Spreads | 25, 30, 35, 50, 75 |
| SDCM | 2 |
| Rated Life | L85 @ > 55,000 Hours |



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# NOR-3.5R

NONI 3.5" ROUND RECESSED FAMILY

## ORDERING GUIDE

**Examples:** NOR-3.5RDL-NHN17-930K-MD-DM1NU / NOR-3.5RDS-TRM-FWHS-RBL-SOL

**CATALOG #**

### HOUSING

**NOR-3.5R** –

| Series | | Function | |
|---|---|---|---|
| **NOR-3.5R** | Noni Recessed 3.5" Round | **Shallow Housing (2" Depth)** | |
| | | **DL** | Downlight |
| | | **LWS** | Lensed Wall Wash, Shallow |
| | | **Deep Housing (3" Depth)** | |
| | | **LWD** | Lensed Wall Wash, Deep |
| | | **AA** | Adjustable Accent |

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| Housing | | Output | |
|---|---|---|---|
| **NHN** | New Construction, Non-IC | **10** | 10 Watt |
| **NHI** | New Construction, IC [1] | **17** | 17 Watt |
| **CP** | Chicago Plenum [1] | **25** | 25 Watt |

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| CRI/CCT | | |
|---|---|---|
| **Static** | | |
| **927K** | 90 CRI, 2700K | |
| **930K** | 90 CRI, 3000K | |
| **935K** | 90 CRI, 3500K | |
| **940K** | 90 CRI, 4000K | |
| **830K** | 80 CRI, 3000K | |
| **835K** | 80 CRI, 3500K | |
| **Dynamic** | | |
| **1830DT** | 90 CRI, 1800K–3000K Dim-to-Warm [1, 2, 3] | |
| **2765T** | 90 CRI, 2700K–6500K SpectraSync™ Tunable White [1, 2, 3, 4] | |

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| Beam Spread [5] | |
|---|---|
| **VN** | Very Narrow (.42 SC / 25°) |
| **NR** | Narrow (.50 SC / 30°) |
| **MD** | Medium (.58 SC / 35°) |
| **WD** | Wide (.80 SC / 50°) |
| **XW** | Extra Wide (1.06 SC / 75°) [6] |
| **LW** | Lensed Wall Wash [7] |

| Dimming | | Controls [13] | | **U** Voltage | | **RMB** Accessories | |
|---|---|---|---|---|---|---|---|
| **DM1** | 0–10V 1% [8, 14, 15] | **N** | None | **U** | Universal Voltage (120–277V) | **RMB** | Residential Mounting Bars |
| **PDM** | ELV, TRIAC 1% [8, 14] | **LV** | Lutron Vive 0–10V (120–277V) | | | | |
| **ERP** | 0–10V, ELV, TRIAC Dim-to-Dark [8, 15] | **LVE** | Lutron Vive EcoSystem (120V Only) | | | | |
| **PEQ0E** | Lutron Hi-Lume Premier 0.1% | **NXE** | NX Dual RJ45 SmartPORTS, without Sensor [15] | | | | |
| **SpectraSync** | | **NXW** | NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [15] | | | | |
| **DMT** | 0–10V 5% [4] | | | | | | |

### TRIM

**NOR-3.5R** –

| Series | | Function | |
|---|---|---|---|
| **NOR-3.5R** | Noni Recessed 3.5" Round | **Shallow Housing Compatible** | |
| | | **DS** | Downlight, Shallow (⅝"–1⅛" ceiling) |
| | | **DD** | Downlight, Deep (1¼" ceiling only) |
| | | **LWS** | Lensed Wall Wash, Shallow |
| | | **Deep Housing Compatible** | |
| | | **LWD** | Lensed Wall Wash, Deep |
| | | **AA** | Adjustable Accent |

– **TRM** –

| Trim | |
|---|---|
| **TRM** | Trim |

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| Reflector Flange Color | | Reflector Insert Color | |
|---|---|---|---|
| **Flanged** | | **Texture** | |
| **FWHS** | White | **RWH** | White |
| **FGYS** | Gray | **RGY** | Gray |
| **FBLS** | Black | **RBL** | Black |
| **FCOS** | Copper | **RGT** | Graphite |
| **FAMW** | Anti-Microbial White | **RPP** | Pink Panache |
| **FX** | Custom Finish | **RGH** | Grasshopper |
| **Flangeless** | | **Smooth** | |
| **FT** | Flangeless | **RWHS** | White |
| | | **RGYS** | Gray |
| | | **RBLS** | Black |
| | | **RCOS** | Copper |
| | | **RAMW** | Anti-Microbial White |
| | | **Other** | |
| | | **RX** | Custom Finish |

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| Lens | |
|---|---|
| **SOL** | Solite [9] |
| **CLR** | Clear [9] |
| **FRS** | Frosted [10] |
| **LIN** | Linear Spread (10 x 40°) [9, 11] |
| **HEX** | Hexcel Louver [9, 12] |
| **NON** | No Lens [9, 11] |

Notes:

1 Available in 10 or 17 watt outputs
2 NHN housing only
3 Available with NR or LW optic only
4 DMT driver must be selected for use with 2765T
5 DL and AA performance based on SOL lens with RWHS insert finish
6 Available only with FRS lens
7 Available only when LW functions selected
8 Not available with LVE control
9 Not available with LW function
10 Available with all functions. Must be selected with LW
11 Available with DS only
12 Wet location not suitable for HEX or NON
13 Above ceiling access required
14 Only available in 17 or 25 watt outputs
15 DM1 or ERP required with NX options



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# NOR-3.5R

NONI 3.5" ROUND RECESSED FAMILY

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## PERFORMANCE DATA

Performance data provided below based on 80 CRI, 3000K with White reflector and Solite lens. Extra Wide (XW) and Lensed Wall Wash (LWS, LWD) performance includes White reflector and Frosted lens.

| Output | Beam Spread | Beam | Delivered Lumens | Efficacy | Spacing Criterion | Candela @ 0° |
|---|---|---|---|---|---|---|
| 25 Watt | Very Narrow **(VN)** | 25 | 2033 | 80 | 0.42 | 8414 |
| | Narrow **(NR)** | 30 | 1964 | 78 | 0.50 | 6056 |
| | Medium **(MD)** | 35 | 1846 | 73 | 0.58 | 4200 |
| | Wide **(WD)** | 50 | 2021 | 80 | 0.80 | 2711 |
| | Extra Wide **(XW)** | 75 | 1598 | 63 | 1.06 | 1133 |
| 17 Watt | Very Narrow **(VN)** | 25 | 1535 | 89 | 0.42 | 6311 |
| | Narrow **(NR)** | 30 | 1483 | 86 | 0.50 | 4542 |
| | Medium **(MD)** | 35 | 1394 | 81 | 0.58 | 3150 |
| | Wide **(WD)** | 50 | 1526 | 88 | 0.80 | 2033 |
| | Extra Wide **(XW)** | 75 | 1206 | 70 | 1.06 | 850 |
| 10 Watt | Very Narrow **(VN)** | 25 | 953 | 93 | 0.42 | 3929 |
| | Narrow **(NR)** | 30 | 921 | 90 | 0.50 | 2828 |
| | Medium **(MD)** | 35 | 866 | 85 | 0.58 | 1961 |
| | Wide **(WD)** | 50 | 948 | 93 | 0.80 | 1266 |
| | Extra Wide **(XW)** | 75 | 749 | 73 | 1.06 | 529 |

| Output | | Delivered Lumens | Efficacy | Max Candela |
|---|---|---|---|---|
| 25 Watt | Wall Wash, Shallow **(LWS)** | 1280 | 51 | 773 |
| | Wall Wash, Deep **(LWD)** | 1306 | 52 | 1223 |
| 17 Watt | Wall Wash, Shallow **(LWS)** | 967 | 56 | 587 |
| | Wall Wash, Deep **(LWD)** | 986 | 57 | 929 |
| 10 Watt | Wall Wash, Shallow **(LWS)** | 600 | 59 | 364 |
| | Wall Wash, Deep **(LWD)** | 612 | 60 | 576 |



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# NOR-3.5R

NONI 3.5" ROUND RECESSED FAMILY

## MULTIPLIER TABLE

| CRI, CCT | 927 | 930 | 935 | 940 | 830 | 835 | 1830TD | 2765T |
|---|---|---|---|---|---|---|---|---|
| | 0.83 | 0.86 | 0.87 | 0.87 | 1.0 | 1.02 | 0.46 | 0.55* |

| Media | SOL | CLR | LIN | HEX | FRS | NON |
|---|---|---|---|---|---|---|
| | 1.0 | 1.02 | 0.95 | 0.76 | 0.78 | 1.12 |

*Multiplier value based on 4600K.

| Output | 10 Watt | 17 Watt | 25 Watt |
|---|---|---|---|
| | 0.47 | 0.76 | 1.0 |

| Finishes | RWH | RGY | RBL | RGT | RPP | RGH | RWHS | RGYS | RGBLS | RCOS | RAMW |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1.0 | 0.9 | 0.85 | 0.85 | 0.8 | 0.8 | 1.02 | 0.95 | 0.9 | 0.8 | 1.05 |

## ELECTRICAL DATA

| | DM1 | PDM | ERP | PEQ0E | DMT |
|---|---|---|---|---|---|
| **Dimming Protocols Supported** | 0–10V | ELV, TRIAC | 0–10V, ELV, TRIAC | Lutron Hi-Lume Premier 0.1% | 0–10V |
| **Input Voltage** | 120–277V | 120–277V | 120–277V | 120–277V | 120–277V |
| **Input Frequency** | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz |
| **Dim Level** | 20W <1%<br>17W <5% | 1% | 1% Dim-to-Dark | 0.1% Dim-to-Dark | 17W <5% |
| **Power Factor (PF)** | ≥0.90 | ≥0.90 | ≥0.90 | 0.95 Typical | ≥0.90 |
| **Total Harmonic Distortion (THD)** | <20% | <20% | <20% | 15% Typical | <20% |
| **Inrush Current** | NEMA 410 Limit | NEMA 410 Limit | NEMA 410 Limit | NEMA 410 Limit | NEMA 410 Limit |
| **Electromagnetic Interference (EMI) Filtering** | FCC CFR Title 47 Part 15 Class B | FCC CFR Title 47 Part 15 Class B | FCC CFR Title 47 Part 15 Class B at 120Vac, Class A at 277Vac | Contact Lutron | FCC CFR Title 47 Part 15 Class B |
| **Transient Surge Protection** | IEEE C62.41.1-2002 & C62.41.2-2002 Category A | IEEE C62.41.1-2002 & C62.41.2-2002 Category A | IEEE C62.41.1-2002 & C62.41.2-2002 Category A | Contact Lutron | IEEE C62.41.1-2002 & C62.41.2-2002 Category A |



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# NOR-3.5R

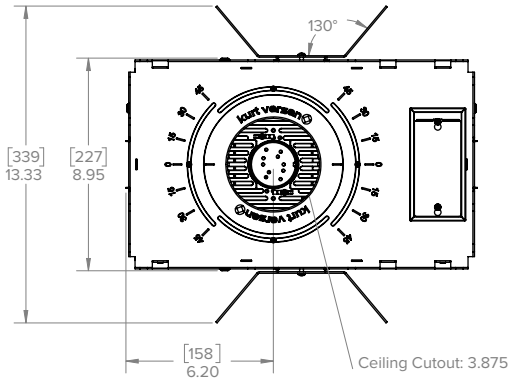
NONI 3.5" ROUND RECESSED FAMILY

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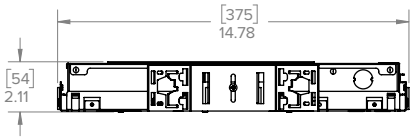
CATALOG #:

## DIMENSIONS

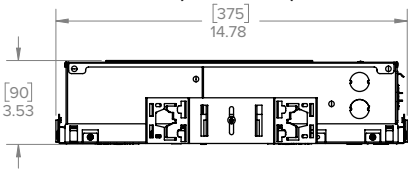



### Housing

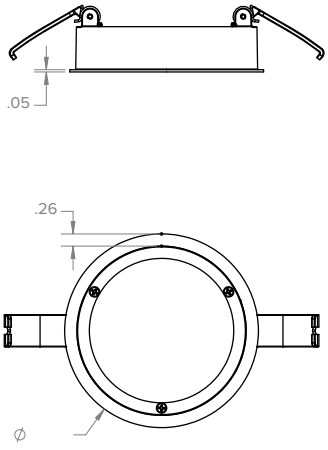
### Shallow Housing (DL, LWS)



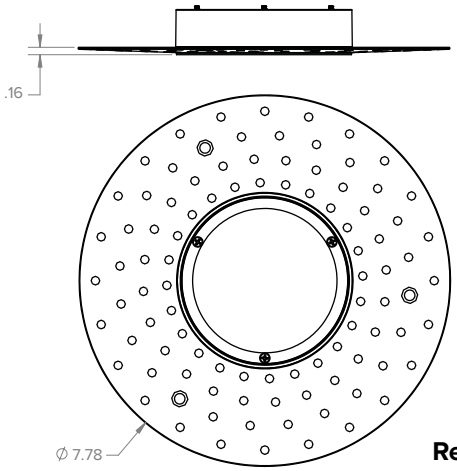

### Deep Housing (LWD, AA)



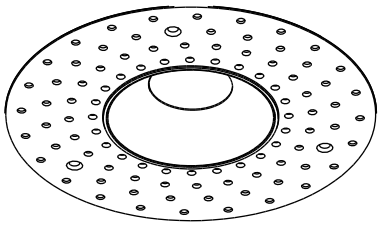

### Flange




### Flangeless (FT)

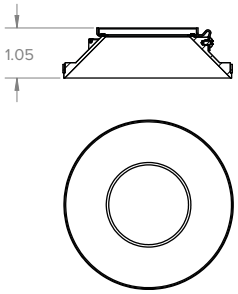



### Flangeless (FT) with Downlight, Shallow (DS)

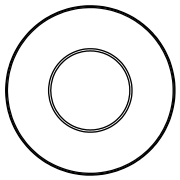


### Reflector Collar

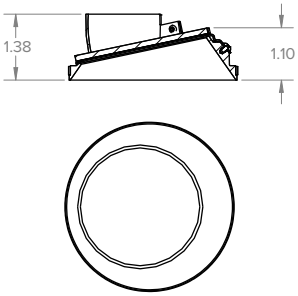
### Downlight (DS)



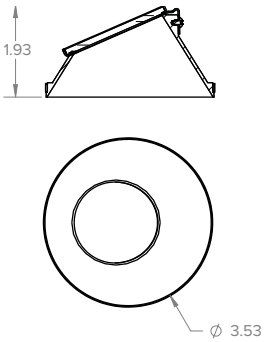

### DownLight, Deep (DD)



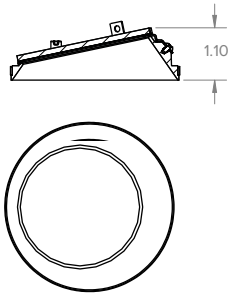
### Lensed Wall Wash Shallow (LWS)




### Lensed Wall Wash Deep (LWD)




### Adjustable (AA)




### Reflector Insert



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