kurt versen
By Prescolite

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

NOR-3.5S

NONI 3.5" SQUARE RECESSED FAMILY

Noni™



FEATURES

- Downlight (two styles), Lensed Wall Wash (two styles), Adjustable Accent
- ¼" overlap microflange and flangeless trims
- Cast aluminum, magnetically-attached reflectors with applied finishes
- Interchangeable primary optics for Downlight and Adjustable Accent
- Proprietary Square in Square **(SS)** option available
- New Construction Non-IC, IC & Chicago Plenum applications
- Up to 2200 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
- Lockable housing ceiling pan rotates 45° independent of housing position
- 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

TRIM CONSTRUCTION (CONTINUED)

- ¼" overlap flange. Thickness measures .07"
- 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
- Square in Square **(SS)** optic option available
- 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, 60
SDCM	2
Rated Life	L85 @ > 55,000 Hours

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ORDERING GUIDE

Examples: NOR-3.5SDL-NHN17-930K-MD-DM1NU/NOR-3.5SDS-TRM-FWHS-RBL-SOL

CATALOG # _____

HOUSING

NOR-3.5S – | – | – | – | –

Series		Function		Housing		Output		CRI/CCT		Beam Spread [5]	
NOR-3.5S	Noni Recessed 3.5" Square	**Shallow Housing (2" Depth)**		**NHN**	New Construction, Non-IC	**10**	10 Watt	**Static**		**VN**	Very Narrow (.38 SC / 25°)
		DL	Downlight	**NHI**	New Construction, IC [1]	**17**	17 Watt	**927K**	90 CRI, 2700K	**NR**	Narrow (.48 SC / 30°)
		LWS	Lensed Wall Wash, Shallow	**CP**	Chicago Plenum [1]	**25**	25 Watt	**930K**	90 CRI, 3000K	**MD**	Medium (.58 SC / 35°)
		Shallow Housing (3" Depth)						**935K**	90 CRI, 3500K	**WD**	Wide (.84 SC / 50°)
		LWD	Lensed Wall Wash, Deep					**940K**	90 CRI, 4000K	**SS**	Square in Square (.90 SC / 60°)
		AA	Adjustable Accent					**830K**	80 CRI, 3000K	**LW**	Lensed Wall Wash [7]
								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]		

– | – | **U** – | **RMB**

Dimming		Controls [13]		Voltage		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 3.5S – | **TRM** – | – | – | –

Series		Function		Trim		Reflector Flange Color		Reflector Insert Color		Lens	
NOR-3.5S	Noni Recessed 3.5" Square	**Shallow Housing Compatible**		**TRM**	Trim	**Flanged**		**Texture**		**SOL**	Solite [9]
		DS	Downlight, Shallow (⅝"–1 ⅛" ceiling)			**FWHS**	White	**RWH**	White	**CLR**	Clear [9]
		DD	Downlight, Deep (1 ¼" ceiling only)			**FGYS**	Gray	**RGY**	Gray	**FRS**	Frosted [10]
		LWS	Lensed Wall Wash, Shallow			**FBLS**	Black	**RBL**	Black	**LIN**	Linear Spread (10 x 40°) [9, 11]
		Deep Housing Compatible				**FCOS**	Copper	**RGT**	Graphite	**HEX**	Hexcel Louver [9, 12]
		LWD	Lensed Wall Wash, Deep			**FAMW**	Anti-Microbial White	**RPP**	Pink Panache	**NON**	No Lens [9, 11]
		AA	Adjustable Accent			**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		

Notes:

1. Available in 10 or 17 watt outputs
2. NHN available up to 17 watts. NHI available as 10 watts
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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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)	25x25	2199	87	0.38	10547
	Narrow (NR)	30x30	2112	83	0.48	6993
	Medium (MD)	35x35	1989	79	0.58	4698
	Wide (WD)	50x50	2096	83	0.84	2730
	Square in Square (SS)	60x60	1280	51	0.90	912
17 Watt	Very Narrow (VN)	25x25	1660	96	0.38	7963
	Narrow (NR)	30x30	1595	92	0.48	5279
	Medium (MD)	35x35	1501	87	0.58	3547
	Wide (WD)	50x50	1582	91	0.84	2061
	Square in Square (SS)	60x60	967	56	0.90	689
10 Watt	Very Narrow (VN)	25x25	1031	101	0.38	4947
	Narrow (NR)	30x30	991	97	0.48	3280
	Medium (MD)	35x35	933	91	0.58	2204
	Wide (WD)	50x50	983	96	0.84	1280
	Square in Square (SS)	60x60	600	59	0.90	428

Output		Delivered Lumens	Efficacy	Max Candela
25 Watt	Wall Wash, Shallow (LWS)	1330	53	524
	Wall Wash, Deep (LWD)	1490	59	832
17 Watt	Wall Wash, Shallow (LWS)	1004	58	398
	Wall Wash, Deep (LWD)	1125	65	632
10 Watt	Wall Wash, Shallow (LWS)	624	61	247
	Wall Wash, Deep (LWD)	699	68	392

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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% 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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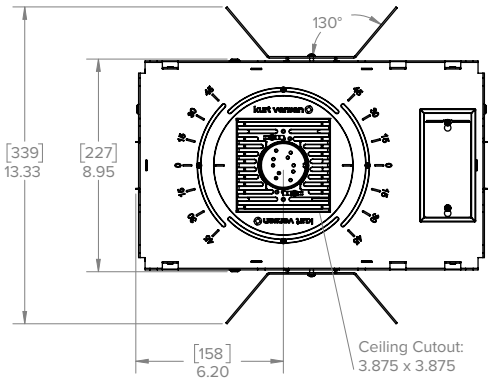
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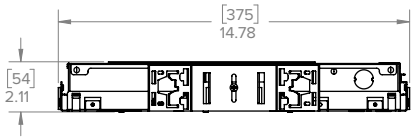
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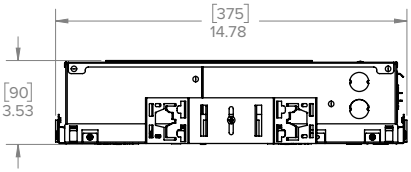


Housing

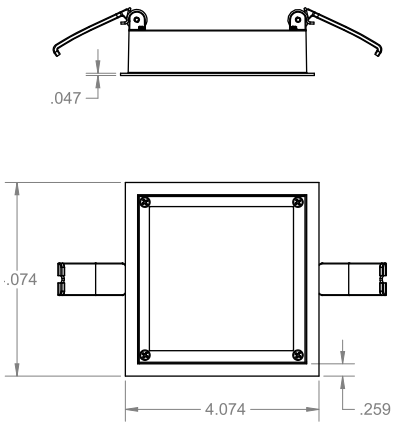
Shallow Housing (DL, LWS)



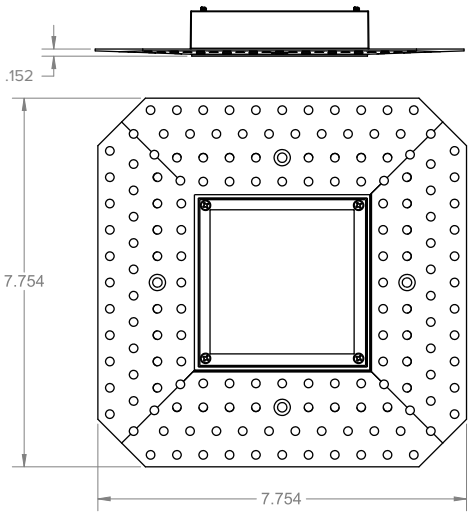
Deep Housing (LWD, AA)



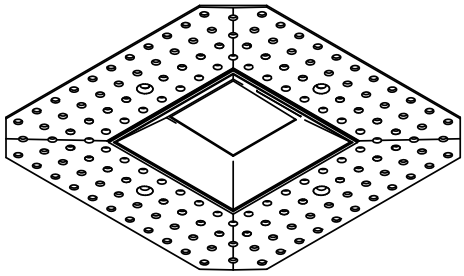
Flange



Flangeless (FT)

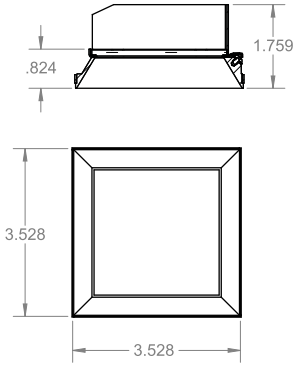


Flangeless (FT) with Downlight, Shallow (DS)

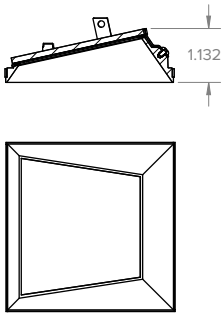


Reflector Collar

Lensed Wall Wash Deep (LWD)



Adjustable (AA)



NOR-3.5S Bottom View
Reflector Insert

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