



Type(s)
Project
Date
Notes

GENERAL INFORMATION

The compact Navis 50 luminaire is ideally suited for installation in areas that desire a small aperture for general illumination.

Navis is for architectural lighting applications where high-quality optics and extremely accurate and smooth dimming are required. Easy installation is a must, using simple, wind-down clamps, Navis 50 can be installed in a variety of ceiling thicknesses. Whether a new install, retrofit, surface mount, or pendant, Navis 50 is a versatile addition to your architectural luminaire system. All backed by the access and robustness of external driver technology that removes critical components from ceiling spaces and moves them to exactly where you want them, whether in an equipment closet or in a convenient wallmount location.

Navis 50 is designed for a low voltage power over Cat 6 system, and requires a direct connection to an F-Drive RX LED driver (see separate datasheet for more details).

GENERAL INFORMATION

APPLICATIONS

- Auditoriums
- Cruise ships
- Houses of worship
- Restaurants
- Retail
- Museums
- Hospitality

PRODUCT FEATURES

- High-grade, field-changeable TIR optics and accessories
- Stepless smooth dimming
- Convection cooled for fan-free, silent operation
- Multiple color-temperatures, including Fade To Warm options
- Remote driver for improved accessibility
- Cat 6 and RJ45 wiring scheme including multiple individually controlled fixtures per cable
- Wide variety of mounting options including variable ceiling thickness, pendant, new install, retrofit, and more.
- 30° room-side lockable tilt

ORDERING INFORMATION

Navis 50

| Model | LED | Color Temp | Beam Angle | Trim Plate | Trim Color | Mounting |
|----------|--------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------|
| ARC�-050 | W - Fixed White F - Fade to Warm* | 2 - 2700 K 3 - 3000 K* 35 - 3500 K 4 - 4000 K 5 - 5000 K *FTW option only available at 3000 K | 15 - 15° 25 - 25° 40 - 40° 60 - 60° WW - Wall Wash | S - Standard C - Curve‡ P - Pinhole O - Off-set Slot (Blank) - Wall Wash ‡Curve limits tilt angle to 15° max. | B - Black W- White P - Primed C - Custom | A - Adjustable Recessed |
| ARC�-050 | | | | | | |

To complete the form, simply select an option at the bottom of each column to populate the last row with your desired model number.

Color options: Standard in black, white, or primed (for painting by others). For additional colors please contact ETC.



PRODUCT SPECIFICATIONS NAVIS 50 FIXED WHITE



Source

| | |
|----------------------------------|--------------------|
| LED Details | Nichia |
| Max Delivered Lumens | 685 w/ 60°TIR lens |
| Efficacy (Lumens/Watt) | 95 |
| L70 Rating (Hours to 70% Output) | 55,000 |

Color

| | |
|---------------------------|------------------------------------------------|
| Color Temperature Options | 2700 K 3000 K 3500 K 4000 K 5000 K |
|---------------------------|------------------------------------------------|

Optical

| | |
|-----------------------------|---------------------------|
| Interchangeable Beam Angles | 15° / 25° / 40° / 60° |
| CRI | >90 (5000 K >80) |
| TM-30-18 Data | Refer to charts on page 5 |
| Photometry Data | Refer to charts on page 5 |

LED Driver

| | |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approved Drivers | F-Drive RX Output Card - CC 8 Model Number: FD-RX-OC-CC-8 |
| Luminaire Input Type | RJ45 in and thru connector Minimum required conductor gauge 23 AWG / 0.25 mm ² |
| Maximum Navis 50 White per Approved Driver | FD-RX-OC-CC-8 : eight (8) Navis 50 Fixed White FD-SBOX-R expands this to three (3) Luminaires per channel (controlled together) (max 24 luminaires) |
| Refresh Rate | 1500 Hz |
| Dimming | Smooth dimming to 0% intensity |
| Control | Control via F-Drive RX |
| Configuration | Yes, via ETC Concert |
| Complete Driver Data | https://www.etcconnect.com/Products/Power-Controls/LED-Drivers/F-Drive/Features.aspx |

Electrical

| | |
|-----------------------------|------------------------------------------|
| Luminaire Operating Current | 700 mA |
| Wattage (Typical) | 7.2 W per Navis 50 Fixed White luminaire |
| Voltage Range | 12 VDC constant current |

Thermal

| | |
|------------------------|--------------------------------------|
| Ambient Operating Temp | 0°C to 40°C (32°F to 104°F) |
| Fan (Controllable) | Fanless, convection cooled luminaire |
| BTUs/Hour | 24.57 |

Physical

| | |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Materials | Die-cast aluminum and cold-rolled steel |
| Color Options | Luminaire available in Black. Trim plates available in white, black, primed, and custom color. Please contact ETC regarding custom colors. |
| Mounting Options | -Retro fit mounting in ceilings of 0.5 mm to 32 mm -New install ceiling bracket (optional accessory) -Surface Cylinder mounting (optional accessory) -Pendant mounting (optional accessory) |
| IP Rating | IP-20, suitable for damp locations |
| IC Rated | No |
| Vibration Testing | TBD |
| Salt Fog Testing | TBD |
| Weight | Product weight: 0.23 kg (0.50 lb) Shipping weight: 0.68 kg (1.50 lb) |
| Included Accessories | Trim plate (when selected) |
| Maximum Fixture Rotation | Infinite during fixture positioning |
| Maximum Fixture Tilt | 30° (15° maximum with curve trim plate) |
| Lockable Tilt/Rotate | Yes - via torx #8 screw on room side of luminaire |

Warranty

| | |
|--------------|----------|
| Full Fixture | 5 years |
| LED Array | 10 years |

Regulatory & Compliance

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regulatory Standards | UL 2108/CSA C22.2 No. 250.2, Low Voltage Lighting System UL 1598/UL1598A Recess Luminaires, Marine grade Plenum Rated to UL 2043/CAN/ULC S142 Meets requirements for Emergency Lighting and Power Equipment when paired with a UL924 driver. CE Compliant IEC EN 60598-1 Luminaires IEC EN 60598-2-2 Recessed luminaires IEC EN 60598-2-22 Emergency Lighting Certified by Lloyd's Registry |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

PRODUCT SPECIFICATIONS NAVIS 50 FADE TO WARM



Source

| | |
|----------------------------------|---------------------|
| LED Details | Nichia |
| Max Delivered Lumens | 523 w/ 60° TIR lens |
| Efficacy (Lumens/Watt) | 62 |
| L70 Rating (Hours to 70% Output) | 55,000 |

Color

| | |
|-------------------|--------------------------------------------------------------|
| Color Temperature | 3000 K shifting to 1800 K while dimming |
| Color Features | Warm trim allows configuration of Fade to Warm functionality |

Optical

| | |
|--------------------------|---------------------------|
| Distribution Beam Angles | 15° / 25° / 40° / 60° |
| CRI | >90 |
| TM-30-18 Data | Refer to charts on page 5 |
| Photometry Data | Refer to charts on page 5 |

LED Driver

| | |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approved Drivers | F-Drive RX Output Card - Fade to Warm 8 Model Number: FD-RX-OC-FTW-8 |
| Luminaire Input Type | RJ45 in and thru connector Minimum required conductor gauge 23 AWG / 0.25 mm ² |
| Maximum Navis 50 FTW per Approved Driver | FD-RX-OC-FTW-8 : eight (8) Navis 50 FTW FD-SBOX-R expands this to three (3) Luminaires per channel (controlled together) (max 24 Luminaires) |
| Refresh Rate | 1500 Hz |
| Dimming | Smooth dimming to 0% intensity |
| Control | Control via F-Drive RX |
| Configuration | Yes, via ETC Concert |
| Complete Driver Data | https://www.etcconnect.com/Products/Power-Controls/LED-Drivers/F-Drive/Features.aspx |

Electrical

| | |
|-----------------------------|-------------------------------------------|
| Luminaire Operating Current | 700 mA |
| Wattage (Typical) | 8.4 W per Navis 50 Fade to Warm luminaire |
| Voltage Range | 12 VDC constant current |

Thermal

| | |
|------------------------|--------------------------------------|
| Ambient Operating Temp | 0°C to 40°C (32°F to 104°F) |
| Fan (Controllable) | Fanless, convection cooled luminaire |
| BTUs/Hour | 28.66 |

Physical

| | |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Materials | Die-cast aluminum and cold-rolled steel |
| Color Options | Luminaire available in Black. Trim plates available in white, black, primed, and custom. Please contact ETC regarding custom colors. |
| Mounting Options | -Retro fit mounting in ceilings of 0.5 mm to 32 mm -New install ceiling bracket (optional accessory) -Surface Cylinder mounting (optional accessory) -Pendant mounting (optional accessory) |
| IP Rating | IP-20, suitable for damp locations |
| IC Rated | No |
| Vibration Testing | TBD |
| Salt Fog Testing | TBD |
| Weight | Product weight: 0.23 kg (0.50 lb) Shipping weight: 0.68 kg (1.50 lb) |
| Included Accessories | Trim plate (when selected) |
| Maximum Fixture Rotation | Infinite during fixture positioning |
| Maximum Fixture Tilt | 30° (15° max with curve trim plate) |
| Lockable Tilt/Rotate | Yes - via torx #8 screw on room side of luminaire |

Warranty

| | |
|--------------|----------|
| Full Fixture | 5 years |
| LED Array | 10 years |

Regulatory & Compliance

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regulatory Standards | UL 2108/CSA C22.2 No. 250.2, Low Voltage Lighting System UL 1598/UL1598A Recess Luminaires, Marine grade Plenum Rated to UL 2043/CAN/ULC S142 Meets requirements for Emergency Lighting and Power Equipment when paired with a UL924 driver. CE Compliant IEC EN 60598-1 Luminaires IEC EN 60598-2-2 Recessed luminaires IEC EN 60598-2-22 Emergency Lighting Certified by Lloyd's Registry |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

OPTICAL ACCESSORIES



CLEAR



FROSTED



HEX LOUVER



LINEAR



SOLITE

| Model | Optical Accessories |
|-------------------|----------------------|
| ARCNA-050-SO-CL1 | Clear Lens |
| ARCNA-050-SO-FL1 | Frosted Lens |
| ARCNA-050-SO-LS1 | Linear Spread |
| ARCNA-050-SO-SG1 | Solite Glass |
| ARCNA-050-OA-HL1B | Hex Louver Black |
| ARCNA-050-OA-FRB | Finishing Ring Black |
| ARCNA-050-OA-FRW | Finishing Ring White |

Note: Up to two optical accessories can be used simultaneously.

TRIM PLATE ADDITIONAL ACCESSORIES



STANDARD

WALL WASH

CURVE

PINHOLE

OFF-SET SLOT

| Model | Trim Plate | Color |
|--------------|--------------------------------------------------------------------------------|--------------------------------------|
| ARCNA-050-OA | S - Standard WW - Wall Wash C - Curve P - Pinhole O - Off-set Slot | B - Black W - White P - Primed |
| ARCNA-050-OA | | |

Note: Each luminaire comes with a trim ring as specified in the model number. Model numbers listed here are for extra or spare trim rings only.

PHOTOMETRY

Lumen Table

| COLOR TEMP | LENS TYPE | DELIVERED LUMENS | MAX CANDELA | CRI | TM-30-18 RF | TM-30-18 RG |
|------------|-----------|------------------|-------------|-----|-------------|-------------|
| 2700 K | 40° | 517 | 889 | >90 | >91 | 97 |
| 3000 K | 40° | 565 | 971 | >90 | >90 | 97 |
| 3500 K | 40° | 568 | 977 | >90 | >91 | 100 |
| 4000 K | 40° | 576 | 1027 | >90 | >91 | 98 |
| 5000 K | 40° | 622 | 1070 | >90 | >91 | 101 |
| 3000 K FTW | 40° | 480 | 826 | >90 | >92 | 102 |

Note: The above table is reported using a Navis 50 with 40° lens, standard trim plate, and no secondary optics.

IES light files are available for all beam angles of ArcSystem Navis at etconnect.com.

Full photometry and color information for the ArcSystem Navis family is available in the ArcSystem Navis Photometry and Color Info Guide.

DRIVER COMPATIBILITY

| Fixture Type | Compatible Drivers | Luminaires per Driver | Model Number |
|--------------------------|------------------------------------------------|------------------------------------------------------------|---------------|
| Navis 50 Fixed White | F-Drive RX Output Card - Constant Current 8 | 8 from two cable runs, expandable to 24 with F-Drive S-Box | FD-RX-OC-CC8 |
| Navis 50 Fade to Warm | F-Drive RX Fade To Warm 8 Output Card | 8 from two cable runs, expandable to 24 with F-Drive S-Box | FD-RX-OC-FTW8 |

PHYSICAL

Navis 50 Dimensions

| Model | Height | | Width | | Depth | |
|--------------------|--------|------|-------|-----|-------|-----|
| | mm | in | mm | in | mm | in |
| Navis 50 White/FTW | 71 | 2.78 | 100 | 3.9 | 100 | 3.9 |
| Navis 50 FTW | 71 | 2.78 | 100 | 3.9 | 100 | 3.9 |

Recommended hole cut-out: 90 mm / (3.54 in)

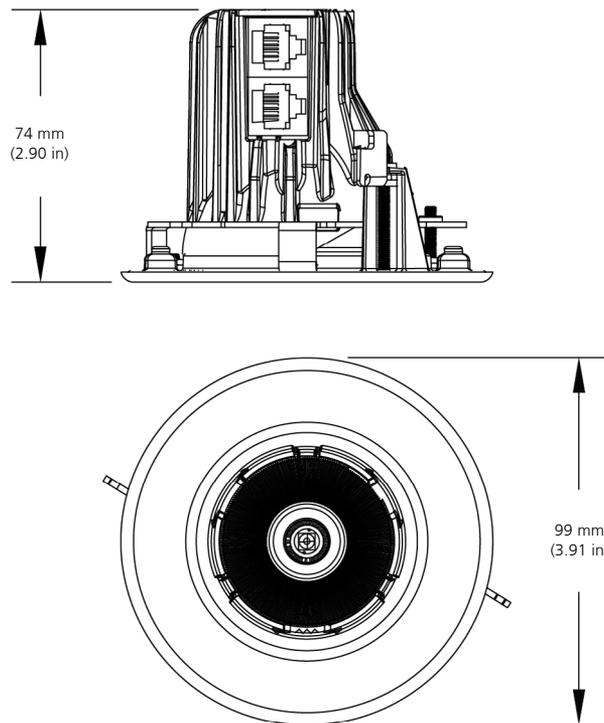
All versions of Navis 50 not IC rated and require 75 mm (3 in) clearance between luminaire and insulation.

Navis 50 Weights

| Model | Weight [†] | | Shipping Weight | |
|----------------------|---------------------|-----|-----------------|-----|
| | kg | lb | kg | lb |
| Navis 50 Fixed White | 0.23 | 0.5 | 0.68 | 1.5 |
| Navis 50 FTW | 0.23 | 0.5 | 0.68 | 1.5 |

[†]When fitted with standard trim ring and primary optic only

Navis 50 Recessed Luminaire



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