JUNO

# Juno Wafer™ LED Downlight Series

4", 6" & 8" LED Ultra-Thin Wafer Switchable Downlight

5CCT Switchable White Downlight

## WF4/WF6/WF8 SWW5 Series





Brushed Nickel



Oil Rubbed Bronze



Matte Black

| |
|---|
| Project: |
| Fixture Type: |
| Location: |
| Contact/Phone: |

## Product Features

The 4",6"& 8" round smooth with 5CCT Switchable White technology provide high-quality light output and efficiency featuring a switch for easy color temperature adjustment to choose between 2700K, 3000K, 3500K, 4000K, or 5000K - while eliminating the need for recessed housings.

- Round smooth lens trim designed to distribute precise even illumination for general purpose areas
- Canless - no can required; equals easy to install and less labor
- 5 selectable color temperatures to choose with a switch ranging from warm (2700K) to daylight (5000K) allowing customization for endless applications

## Applications

- Residential and light commercial applications including multi-family, hospitality, assisted living, dormitories and other multi-level construction
- Shallow slim profile allows for easy remodel or new construction insulated and drop ceiling installations
- Wet rated and airtight: perfect for showers, bathrooms, and outdoor soffits

## Performance

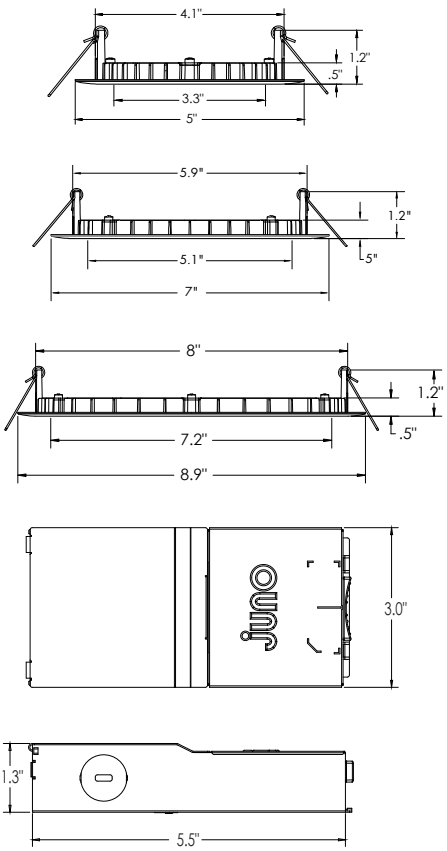
| | |
|---|---|
| Delivered Lumens | 700L (WF4), 950L (WF6) and 1640L (WF8) Nominal at 3000K |
| LED Color Temperature | Switchable White (27K, 30K, 35K, 40K, 50K) Default set at 3000K |
| CRI | 90+ |
| Voltage | Dedicated 120V |
| Dimming | Dimmable to 10% with triac (120v) dimmers |

For a list of compatible dimmers see JUNO-WAFERS-DIM

## Specifications

| | WF4 | WF6 | WF8 |
|---|---|---|---|
| Aperture: | 3.3" | 5.1" | 7.2" |
| Hole Cutout Size: | 4.25" | 6.25" | 8.25" |
| Overlap Trim: | 5" | 7" | 8.9" |
| Height: | 1.2" | 1.2" | 1.2" |

## Dimensions



JUNO®

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## 4", 6" & 8" LED Ultra-Thin Wafer Switchable Downlight
## 5CCT Switchable White Downlight



## ORDERING INFORMATION

**Downlight**

**Example:** WF4 SWW5 90CRI MW M6

| Series | | Trim Style | | Color Temperature | | Rendering Index | | Finish | |
|---|---|---|---|---|---|---|---|---|---|
| **WF4** | 4" Wafer-Thin LED Downlight | **(BLANK)** | Round | **SWW5** | Switchable White (2700K, 3000K, 3500K, 4000K, 5000K) | **90CRI** | 90+ CRI | **MW** | Matte White |
| **WF6** | 6" Wafer-Thin LED Downlight | | | | | | | **MB** | Matte Black |
| **WF8**[1] | 8" Wafer-Thin LED Downlight | | | | | | | **BN** | Brushed Nickel |
| | | | | | | | | **ORB** | Oil Rubbed Bronze |

1. WF8 only offered in a Matte White finish.

**Accessories: Order as separate catalog number.**

| Series | |
|---|---|
| **WF8643 PAN** | Universal New Construction Pan |
| **WF4 PAN R12** | 4" New construction pan, retail pack of 12 |
| **WF4GR MW JZ** | 4" Wafer Goof Ring 4.2" ID x 6.2" OD |
| **WF6 PAN R12** | 6" New construction pan, retail pack of 12 |
| **WF6GR MW JZ** | 6" Wafer Goof Ring 6" ID x 8" OD |
| **WF8GR MW JZ** | 8" Wafer Goof Ring 8.1" ID x 10.1 OD |
| **WFJB U** | Remodel Joist Bar |
| **WFEXC6 SW3PIN FT4** | 3-Pin 6ft Cable |
| **WFEXC10 SW3PIN FT4** | 3-Pin 10ft Cable |
| **WFEXC20 SW3PIN FT4** | 3-Pin 20ft Cable |

*Goof rings are made of 22 gauge steel and painted white.



WF8643 UNIVERSAL
New Construction Pan



WF4 PAN
4" New Construction Pan



Remodel Joist Bar



WFEXC_
3-Pin Extension
Cable



WF6 PAN
6" New Construction Pan

## PERFORMANCE DATA

| | WF4 SWW5 | WF6 SWW5 | WF8 SWW5 |
|---|---|---|---|
| Input Voltage | 120V | 120V | 120V |
| Input Power Typical | 9W (+/-5%) | 13W (+/-5%) | 19W (+/-5%) |
| Frequency | 60 Hz | 60Hz | 60Hz |
| EMI/RFI | FCC Title 47, Part 15 Class B (consumer) | FCC Title 47, Part 15 Class B (consumer) | FCC Title 47, Part 15 Class B (consumer) |
| Minimum Starting Temp | -40°F (-40°C) | -40°F (-40°C) | -40°F (-40°C) |

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C.

**LIGHTING PERFORMANCE DATA**
**DONNÉES DE PERFORMANCE DE L'ÉCLAIRAGE**

| Light Appearance (CCT) Aspect de la lumière (CCT) | |
|---|---|
| **2700K** soft white \| blanc doux | |
| 668 lumens \| 76 lumens per watt | |
| **3000K** warm white \| blanc chaud | |
| 705 lumens \| 80 lumens per watt | |
| **3500K** neutral white \| blanc neutre | |
| 727 lumens \| 83 lumens per watt | |
| **4000K** cool white \| blanc froid | |
| 742 lumens \| 84 lumens per watt | |
| **5000K** daylight \| lumière du jour | |
| 742 lumens \| 84 lumens per watt | |
| Watts | 9 |
| Color Accuracy (CRI) Précision des couleurs (CRI) | 90 |

**LIGHTING PERFORMANCE DATA**
**DONNÉES DE PERFORMANCE DE L'ÉCLAIRAGE**

| Light Appearance (CCT) Aspect de la lumière (CCT) | |
|---|---|
| **2700K** soft white \| blanc doux | |
| 900 lumens \| 75 lumens per watt | |
| **3000K** warm white \| blanc chaud | |
| 950 lumens \| 79 lumens per watt | |
| **3500K** neutral white \| blanc neutre | |
| 980 lumens \| 82 lumens per watt | |
| **4000K** cool white \| blanc froid | |
| 1000 lumens \| 83 lumens per watt | |
| **5000K** daylight \| lumière du jour | |
| 1000 lumens \| 83 lumens per watt | |
| Watts | 12 |
| Color Accuracy (CRI) Précision des couleurs (CRI) | 90 |

**LIGHTING PERFORMANCE DATA**
**DONNÉES SUR LE RENDEMENT DE L'ÉCLAIRAGE**

| Light Appearance (CCT) Aspect de la lumière (CCT) | |
|---|---|
| **2700K** soft white \| blanc doux | |
| 1615 lumens \| 85 lumens per watt | |
| **3000K** warm white \| blanc chaud | |
| 1640 lumens \| 86 lumens per watt | |
| **3500K** neutral white \| blanc neutre | |
| 1670 lumens \| 88 lumens per watt | |
| **4000K** cool white \| blanc froid | |
| 1690 lumens \| 89 lumens per watt | |
| **5000K** daylight \| blanc neutre | |
| 1700 lumens \| 89 lumens per watt | |
| Watts | 19 |
| Color Accuracy (CRI) Précision des couleurs (CRI) | 90 |

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# Juno Wafer™ LED Downlight Series

4", 6" & 8" LED Ultra-Thin Wafer Switchable Downlight

5CCT Switchable White Downlight



## Specifications

### Housing

Polycarbonate injection molded outer frame, with steel back plate. Non-conductive dead-front trim design suitable for a wide range of applications and codes requiring a non-conductive lens • FT4 3-pin plenum rated cable connector to connect from module to remote driver box • Steel spring clip for easy installation. 4", 6" or 8" cut out template is provided to ensure a correct sized hole is cut into ceiling for proper installation of the trim. Size of hole should not exceed 4-1/4" for the WF4, 6-1/4" for the WF6 and 8-1/4" for the WF8 • Can be installed from 3/8" to 1 ½" ceiling thickness • Can be removed from below the ceiling for service or replacement.

### LED Light Engine

Switchable white color temperature from 2700K, 3000K, 3500K, 4000K, 5000K • 90 CRI minimum • Color accuracy within 4 step McAdams Ellipse at the end CCT (2700K and 5000K), within 6 step McAdams Ellipse in the middle CCT (3000K, 3500K, and 4000K) • Dimming 100% to 10% with most standard incandescent dimers (see list of approved dimmers).

### Driver

Connect directly to 120V Class-2 (CAN ICES-005 (B) / NMB-005 (B)) LED driver • 120V 60 Hz constant current driver provides noise free operation • IC rated driver with convenience of a switch to choose between 5 selectable color temperature options ranging from 2700K (warm white), 3000K, 3500K, 4000K, or 5000K (daylight) • The isolated driver integrated inside steel remote box with four 7/8" knockouts with slots for pryout. Suitable for pulling wires with the 12 cubic-inch wiring compartment to accommodate up to (6) 14 gauge insulated conductor or (4) 12 gauge insulated conductors, making the Wafer LED Downlights much easier to wire in 2in/2out (plus ground) daisy-chain applications and contractor friendly • 2" plenum space required for the installation of the WF6 and WF8 driver boxes; 3"plenum space required for the installation of the WF4 driver box • Suitable for installation in t-grid and drop ceiling applications with universal new construction pan.

### Optical System

Edge-lit LED technology uses light guided plate to distribute light • Polycarbonate lens provides even illumination throughout the space • Efficient system that can produce over 700 lumens while using 9W (WF4), 950 lumens while using 13W (WF6) and 1640 lumens while using 19W (WF8) • Replaces 65W incandescent (WF4), 75W incandescent (WF6) and 100W incandescent (WF8).

### Life

Rated for 50,000 hours at 70% lumen maintenance.

### Labels

CSA certified to US and Canadian safety standards • ENERGY STAR® certified product • Suitable for wet location, covered ceiling • Air-Loc certified in accordance with ASTM E283-2004 • NOM Certified • Can be used to comply with California Title 24 Part 6 High Efficacy LED light Source Requirements • U.S. Patent No. 10,681,784.

### Testing

All reports are based on published industry procedures; field performance may differ from laboratory performance.

### Warranty

3-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

**Note**: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

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# Juno Wafer™ LED Downlight Series

4", 6" & 8" LED Ultra-Thin Wafer Switchable Downlight

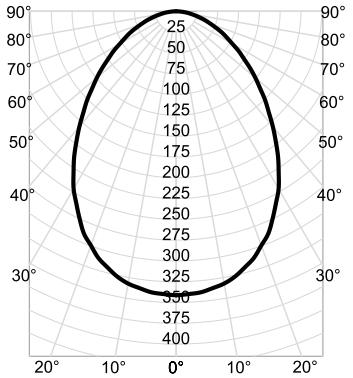
5CCT Switchable White Downlight



## PHOTOMETRICS

**Distribution Curve** | **Distribution Data** | **Output Data** | **Coefficient of Utilization** | **Illuminance Data at 30″ Above Floor for a Single Luminaire**

**WF4 SWW5 90CRI 2700K** Input Watts: 8.9, Delivered Lumens: 670, LPW: 75.3, S/MH: 1.09, Test No: ISF 202630P1




**CP Summary**

| 0° | |
|---|---|
| 0° | 341 |
| 5° | 339 |
| 15° | 319 |
| 25° | 275 |
| 35° | 214 |
| 45° | 151 |
| 55° | 99 |
| 65° | 61 |
| 75° | 31 |
| 85° | 8 |
| 90° | 0 |

**Zonal Lumen Summary**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0° - 30° | 243 | 36% |
| 0° - 40° | 369 | 55% |
| 0° - 60° | 568 | 85% |
| 0° - 90° | 670 | 100% |
| 90° - 180° | 0 | 0% |
| 0° - 180° | 670 | 100% |

**Coefficients of Utilization**

| pf pc pw | 80% 50% | 80% 30% | 80% 10% | 70% 50% | 70% 30% | 70% 10% | 50% 50% | 50% 30% | 50% 10% |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 |
| 1 | 106 | 102 | 98 | 104 | 100 | 97 | 99 | 96 | 94 |
| 2 | 94 | 88 | 82 | 92 | 86 | 81 | 88 | 84 | 80 |
| 3 | 84 | 76 | 70 | 82 | 75 | 70 | 79 | 73 | 68 |
| 4 | 75 | 67 | 61 | 74 | 66 | 60 | 71 | 65 | 60 |
| 5 | 68 | 60 | 53 | 67 | 59 | 53 | 65 | 58 | 53 |
| 6 | 62 | 53 | 47 | 61 | 53 | 47 | 59 | 52 | 47 |
| 7 | 57 | 48 | 43 | 56 | 48 | 42 | 54 | 47 | 42 |
| 8 | 52 | 44 | 39 | 51 | 44 | 38 | 50 | 43 | 38 |
| 9 | 48 | 40 | 35 | 48 | 40 | 35 | 46 | 40 | 35 |
| 10 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 37 | 32 |

**Cone of Light**

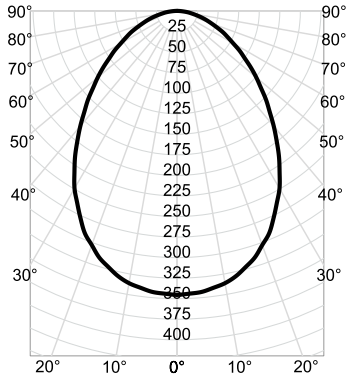
| Mounting Height | Initial FC Center Beam | Beam Diameter |
|---|---|---|
| 6.0 | 9.5 | 10.7 |
| 8.0 | 5.3 | 14.2 |
| 10.0 | 3.4 | 17.8 |
| 12.0 | 2.4 | 21.3 |
| 14.0 | 1.7 | 24.9 |

Beam Angle: 83.2°
Field Angle: 147.3°

**Luminance (cd/sq.m)**

| Average Luminance | |
|---|---|
| 0° | 42,950 |
| 45° | 26,951 |
| 55° | 21,820 |
| 65° | 18,172 |
| 75° | 14,836 |
| 85° | 11,422 |

**WF4 SWW5 90CRI 3000K** Input Watts: 8.9, Delivered Lumens: 678, LPW: 76.2, S/MH: 1.09, Test No: ISF 202630P2




**CP Summary**

| 0° | |
|---|---|
| 0° | 345 |
| 5° | 343 |
| 15° | 322 |
| 25° | 278 |
| 35° | 216 |
| 45° | 153 |
| 55° | 101 |
| 65° | 62 |
| 75° | 31 |
| 85° | 8 |
| 90° | 0 |

**Zonal Lumen Summary**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0° - 30° | 246 | 36% |
| 0° - 40° | 374 | 55% |
| 0° - 60° | 575 | 85% |
| 0° - 90° | 678 | 100% |
| 90° - 180° | 0 | 0% |
| 0° - 180° | 678 | 100% |

**Coefficients of Utilization**

| pf pc pw | 80% 50% | 80% 30% | 80% 10% | 70% 50% | 70% 30% | 70% 10% | 50% 50% | 50% 30% | 50% 10% |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 |
| 1 | 106 | 102 | 98 | 104 | 100 | 97 | 99 | 96 | 94 |
| 2 | 94 | 88 | 82 | 92 | 86 | 81 | 88 | 84 | 80 |
| 3 | 84 | 76 | 70 | 82 | 75 | 70 | 79 | 73 | 68 |
| 4 | 75 | 67 | 61 | 74 | 66 | 60 | 71 | 65 | 60 |
| 5 | 68 | 60 | 53 | 67 | 59 | 53 | 65 | 58 | 53 |
| 6 | 62 | 53 | 47 | 61 | 53 | 47 | 59 | 52 | 47 |
| 7 | 57 | 48 | 43 | 56 | 48 | 42 | 54 | 47 | 42 |
| 8 | 52 | 44 | 39 | 51 | 44 | 38 | 50 | 43 | 38 |
| 9 | 48 | 40 | 35 | 48 | 40 | 35 | 46 | 40 | 35 |
| 10 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 37 | 32 |

**Cone of Light**

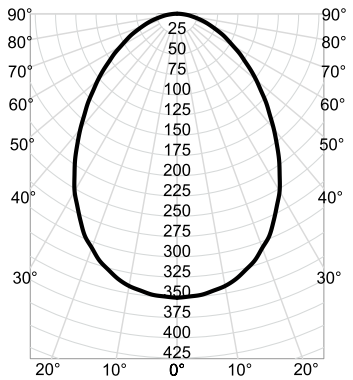
| Mounting Height | Initial FC Center Beam | Beam Diameter |
|---|---|---|
| 6.0 | 9.6 | 10.7 |
| 8.0 | 5.4 | 14.2 |
| 10.0 | 3.5 | 17.8 |
| 12.0 | 2.4 | 21.3 |
| 14.0 | 1.8 | 24.9 |

Beam Angle: 83.2°
Field Angle: 147.3°

**Luminance (cd/sq.m)**

| Average Luminance | |
|---|---|
| 0° | 43,464 |
| 45° | 27,273 |
| 55° | 22,081 |
| 65° | 18,389 |
| 75° | 15,014 |
| 85° | 11,559 |

**WF4 SWW5 90CRI 3500K** Input Watts: 8.9, Delivered Lumens: 688, LPW: 77.3, S/MH: 1.09, Test No: ISF 202630P3




**CP Summary**

| 0° | |
|---|---|
| 0° | 350 |
| 5° | 348 |
| 15° | 327 |
| 25° | 282 |
| 35° | 219 |
| 45° | 156 |
| 55° | 102 |
| 65° | 63 |
| 75° | 31 |
| 85° | 8 |
| 90° | 0 |

**Zonal Lumen Summary**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0° - 30° | 249 | 36% |
| 0° - 40° | 379 | 55% |
| 0° - 60° | 583 | 85% |
| 0° - 90° | 688 | 100% |
| 90° - 180° | 0 | 0% |
| 0° - 180° | 688 | 100% |

**Coefficients of Utilization**

| pf pc pw | 80% 50% | 80% 30% | 80% 10% | 70% 50% | 70% 30% | 70% 10% | 50% 50% | 50% 30% | 50% 10% |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 |
| 1 | 106 | 102 | 98 | 104 | 100 | 97 | 99 | 96 | 94 |
| 2 | 94 | 88 | 82 | 92 | 86 | 81 | 88 | 84 | 80 |
| 3 | 84 | 76 | 70 | 82 | 75 | 70 | 79 | 73 | 68 |
| 4 | 75 | 67 | 61 | 74 | 66 | 60 | 71 | 65 | 60 |
| 5 | 68 | 60 | 53 | 67 | 59 | 53 | 65 | 58 | 53 |
| 6 | 62 | 53 | 47 | 61 | 53 | 47 | 59 | 52 | 47 |
| 7 | 57 | 48 | 43 | 56 | 48 | 42 | 54 | 47 | 42 |
| 8 | 52 | 44 | 39 | 51 | 44 | 38 | 50 | 43 | 38 |
| 9 | 48 | 40 | 35 | 48 | 40 | 35 | 46 | 40 | 35 |
| 10 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 37 | 32 |

**Cone of Light**

| Mounting Height | Initial FC Center Beam | Beam Diameter |
|---|---|---|
| 6.0 | 9.7 | 10.7 |
| 8.0 | 5.5 | 14.2 |
| 10.0 | 3.5 | 17.8 |
| 12.0 | 2.4 | 21.3 |
| 14.0 | 1.8 | 24.9 |

Beam Angle: 83.2°
Field Angle: 147.3°

**Luminance (cd/sq.m)**

| Average Luminance | |
|---|---|
| 0° | 44,106 |
| 45° | 27,676 |
| 55° | 22,407 |
| 65° | 18,661 |
| 75° | 15,235 |
| 85° | 11,730 |


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4", 6" & 8" LED Ultra-Thin Wafer Switchable Downlight

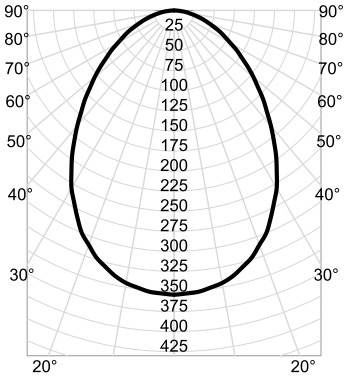
5CCT Switchable White Downlight



## PHOTOMETRICS

**Distribution Curve** | **Distribution Data** | **Output Data** | **Coefficient of Utilization** | **Illuminance Data at 30" Above Floor for a Single Luminaire**

**WF4 SWW5 90CRI 4000K** Input Watts: 8.9, Delivered Lumens: 695, LPW: 78.1, S/MH: 1.09, Test No: ISF 202630P4




**CP Summary**

| 0° | |
|---|---|
| 0° | 354 |
| 5° | 352 |
| 15° | 331 |
| 25° | 285 |
| 35° | 222 |
| 45° | 157 |
| 55° | 103 |
| 65° | 63 |
| 75° | 32 |
| 85° | 8 |
| 90° | 0 |

**Zonal Lumen Summary**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0° - 30° | 252 | 36% |
| 0° - 40° | 383 | 55% |
| 0° - 60° | 589 | 85% |
| 0° - 90° | 695 | 100% |
| 90° - 180° | 0 | 0% |
| 0° - 180° | 695 | 100% |

**Coefficients of Utilization**

| ρf | 20% | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ρc | 80% | | | 70% | | | 50% | | | |
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | |
| 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 | |
| 1 | 106 | 102 | 98 | 104 | 100 | 97 | 99 | 96 | 94 | |
| 2 | 94 | 88 | 82 | 92 | 86 | 81 | 88 | 84 | 80 | |
| 3 | 84 | 76 | 70 | 82 | 75 | 70 | 79 | 73 | 68 | |
| 4 | 75 | 67 | 61 | 74 | 66 | 60 | 71 | 65 | 60 | |
| 5 | 68 | 60 | 53 | 67 | 59 | 53 | 65 | 58 | 53 | |
| 6 | 62 | 53 | 47 | 61 | 53 | 47 | 59 | 52 | 47 | |
| 7 | 57 | 48 | 43 | 56 | 48 | 42 | 54 | 47 | 42 | |
| 8 | 52 | 44 | 39 | 51 | 44 | 38 | 50 | 43 | 38 | |
| 9 | 48 | 40 | 35 | 48 | 40 | 35 | 46 | 40 | 35 | |
| 10 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 37 | 32 | |

**Cone of Light**

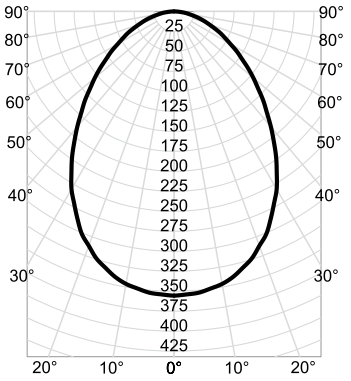
| Mounting Height | Initial FC Center Beam | Beam Diameter |
|---|---|---|
| 6.0 | 9.8 | 10.7 |
| 8.0 | 5.5 | 14.2 |
| 10.0 | 3.5 | 17.8 |
| 12.0 | 2.5 | 21.3 |
| 14.0 | 1.8 | 24.9 |

Beam Angle: 83.2°
Field Angle: 147.3°

**Luminance (cd/sq.m)**

| Average Luminance | |
|---|---|
| 0° | 44,555 |
| 45° | 27,958 |
| 55° | 22,635 |
| 65° | 18,851 |
| 75° | 15,391 |
| 85° | 11,849 |

**WF4 SWW5 90CRI 5000K** Input Watts: 8.9, Delivered Lumens: 698, LPW: 78.4, S/MH: 1.09, Test No: ISF 202630P5




**CP Summary**

| 0° | |
|---|---|
| 0° | 356 |
| 5° | 353 |
| 15° | 332 |
| 25° | 286 |
| 35° | 223 |
| 45° | 158 |
| 55° | 104 |
| 65° | 64 |
| 75° | 32 |
| 85° | 8 |
| 90° | 0 |

**Zonal Lumen Summary**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0° - 30° | 253 | 36% |
| 0° - 40° | 385 | 55% |
| 0° - 60° | 592 | 85% |
| 0° - 90° | 698 | 100% |
| 90° - 180° | 0 | 0% |
| 0° - 180° | 698 | 100% |

**Coefficients of Utilization**

| ρf | 20% | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ρc | 80% | | | 70% | | | 50% | | | |
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | |
| 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 | |
| 1 | 106 | 102 | 98 | 104 | 100 | 97 | 99 | 96 | 94 | |
| 2 | 94 | 88 | 82 | 92 | 86 | 81 | 88 | 84 | 80 | |
| 3 | 84 | 76 | 70 | 82 | 75 | 70 | 79 | 73 | 68 | |
| 4 | 75 | 67 | 61 | 74 | 66 | 60 | 71 | 65 | 60 | |
| 5 | 68 | 60 | 53 | 67 | 59 | 53 | 65 | 58 | 53 | |
| 6 | 62 | 53 | 47 | 61 | 53 | 47 | 59 | 52 | 47 | |
| 7 | 57 | 48 | 43 | 56 | 48 | 42 | 54 | 47 | 42 | |
| 8 | 52 | 44 | 39 | 51 | 44 | 38 | 50 | 43 | 38 | |
| 9 | 48 | 40 | 35 | 48 | 40 | 35 | 46 | 40 | 35 | |
| 10 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 37 | 32 | |

**Cone of Light**

| Mounting Height | Initial FC Center Beam | Beam Diameter |
|---|---|---|
| 6.0 | 9.9 | 10.7 |
| 8.0 | 5.6 | 14.2 |
| 10.0 | 3.6 | 17.8 |
| 12.0 | 2.5 | 21.3 |
| 14.0 | 1.8 | 24.9 |

Beam Angle: 83.2°
Field Angle: 147.3°

**Luminance (cd/sq.m)**

| Average Luminance | |
|---|---|
| 0° | 44,748 |
| 45° | 28,079 |
| 55° | 22,733 |
| 65° | 18,933 |
| 75° | 15,457 |
| 85° | 11,901 |

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JUNO

# Juno Wafer™ LED Downlight Series

4", 6" & 8" LED Ultra-Thin Wafer Switchable Downlight

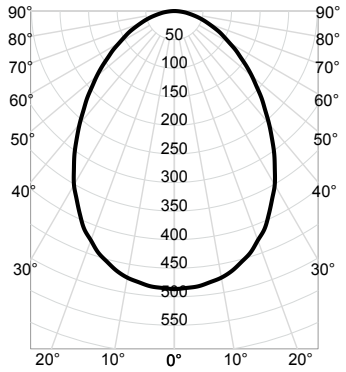
5CCT Switchable White Downlight



## PHOTOMETRICS

**Distribution Curve** | **Distribution Data** | **Output Data** | **Coefficient of Utilization** | **Illuminance Data at 30″ Above Floor for a Single Luminaire**

**WF6 SWW5 90CRI 2700K** Input Watts: 12, Delivered Lumens: 955, LPW: 72.9, S/MH: 1.09, Test No: ISF 202630P6




**CP Summary**

| 0° | |
|---|---|
| 0° | 487 |
| 5° | 483 |
| 15° | 454 |
| 25° | 392 |
| 35° | 305 |
| 45° | 216 |
| 55° | 142 |
| 65° | 87 |
| 75° | 44 |
| 85° | 11 |
| 90° | 0 |

**Zonal Lumen Summary**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0° - 30° | 346 | 36% |
| 0° - 40° | 527 | 55% |
| 0° - 60° | 810 | 85% |
| 0° - 90° | 955 | 100% |
| 90° - 180° | 0 | 0% |
| 0° - 180° | 955 | 100% |

**Coefficients of Utilization**

| ρf / ρc | 80% | | | 20% | | | 50% | | |
|---|---|---|---|---|---|---|---|---|---|
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% |
| 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 |
| 1 | 106 | 102 | 98 | 104 | 100 | 97 | 99 | 96 | 94 |
| 2 | 94 | 88 | 82 | 92 | 86 | 81 | 88 | 84 | 80 |
| 3 | 84 | 76 | 70 | 82 | 75 | 70 | 79 | 73 | 68 |
| 4 | 75 | 67 | 61 | 74 | 66 | 60 | 71 | 65 | 60 |
| 5 | 68 | 60 | 53 | 67 | 59 | 53 | 65 | 58 | 53 |
| 6 | 62 | 53 | 47 | 61 | 53 | 47 | 59 | 52 | 47 |
| 7 | 57 | 48 | 43 | 56 | 48 | 42 | 54 | 47 | 42 |
| 8 | 52 | 44 | 39 | 51 | 44 | 38 | 50 | 43 | 38 |
| 9 | 48 | 40 | 35 | 48 | 40 | 35 | 46 | 40 | 35 |
| 10 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 37 | 32 |

**Cone of Light**

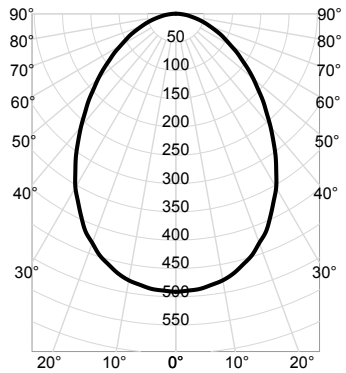
| Mounting Height | Initial FC Center Beam | Beam Diameter |
|---|---|---|
| 6.0 | 13.5 | 10.7 |
| 8.0 | 7.6 | 14.2 |
| 10.0 | 4.9 | 17.8 |
| 12.0 | 3.4 | 21.3 |
| 14.0 | 2.5 | 24.9 |

Beam Angle: 83.2°
Field Angle: 147.3°

**Luminance (cd/sq.m)**

| Average Luminance | |
|---|---|
| 0° | 61,247 |
| 45° | 38,433 |
| 55° | 31,115 |
| 65° | 25,913 |
| 75° | 21,157 |
| 85° | 16,288 |

**WF6 SWW5 90CRI 3000K** Input Watts: 12, Delivered Lumens: 964, LPW: 73.6, S/MH: 1.09, Test No: ISF 202630P7




**CP Summary**

| 0° | |
|---|---|
| 0° | 491 |
| 5° | 488 |
| 15° | 459 |
| 25° | 395 |
| 35° | 307 |
| 45° | 218 |
| 55° | 143 |
| 65° | 88 |
| 75° | 44 |
| 85° | 11 |
| 90° | 0 |

**Zonal Lumen Summary**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0° - 30° | 350 | 36% |
| 0° - 40° | 531 | 55% |
| 0° - 60° | 817 | 85% |
| 0° - 90° | 964 | 100% |
| 90° - 180° | 0 | 0% |
| 0° - 180° | 964 | 100% |

**Coefficients of Utilization**

| ρf / ρc | 80% | | | 20% | | | 50% | | |
|---|---|---|---|---|---|---|---|---|---|
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% |
| 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 |
| 1 | 106 | 102 | 98 | 104 | 100 | 97 | 99 | 96 | 94 |
| 2 | 94 | 88 | 82 | 92 | 86 | 81 | 88 | 84 | 80 |
| 3 | 84 | 76 | 70 | 82 | 75 | 70 | 79 | 73 | 68 |
| 4 | 75 | 67 | 61 | 74 | 66 | 60 | 71 | 65 | 60 |
| 5 | 68 | 60 | 53 | 67 | 59 | 53 | 65 | 58 | 53 |
| 6 | 62 | 53 | 47 | 61 | 53 | 47 | 59 | 52 | 47 |
| 7 | 57 | 48 | 43 | 56 | 48 | 42 | 54 | 47 | 42 |
| 8 | 52 | 44 | 39 | 51 | 44 | 38 | 50 | 43 | 38 |
| 9 | 48 | 40 | 35 | 48 | 40 | 35 | 46 | 40 | 35 |
| 10 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 37 | 32 |

**Cone of Light**

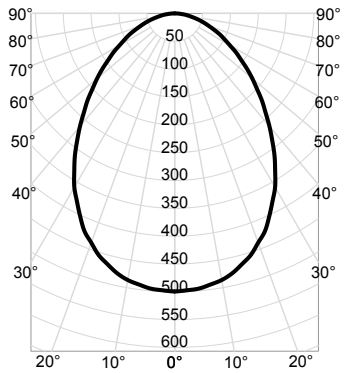
| Mounting Height | Initial FC Center Beam | Beam Diameter |
|---|---|---|
| 6.0 | 13.6 | 10.7 |
| 8.0 | 7.7 | 14.2 |
| 10.0 | 4.9 | 17.8 |
| 12.0 | 3.4 | 21.3 |
| 14.0 | 2.5 | 24.9 |

Beam Angle: 83.2°
Field Angle: 147.3°

**Luminance (cd/sq.m)**

| Average Luminance | |
|---|---|
| 0° | 61,825 |
| 45° | 38,795 |
| 55° | 31,409 |
| 65° | 26,158 |
| 75° | 21,356 |
| 85° | 16,442 |

**WF6 SWW5 90CRI 3500K** Input Watts: 12, Delivered Lumens: 980, LPW: 74.8, S/MH: 1.09, Test No: ISF 202630P8




**CP Summary**

| 0° | |
|---|---|
| 0° | 499 |
| 5° | 496 |
| 15° | 466 |
| 25° | 402 |
| 35° | 313 |
| 45° | 222 |
| 55° | 146 |
| 65° | 89 |
| 75° | 45 |
| 85° | 12 |
| 90° | 0 |

**Zonal Lumen Summary**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0° - 30° | 355 | 36% |
| 0° - 40° | 540 | 55% |
| 0° - 60° | 831 | 85% |
| 0° - 90° | 980 | 100% |
| 90° - 180° | 0 | 0% |
| 0° - 180° | 980 | 100% |

**Coefficients of Utilization**

| ρf / ρc | 80% | | | 20% | | | 50% | | |
|---|---|---|---|---|---|---|---|---|---|
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% |
| 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 |
| 1 | 106 | 102 | 98 | 104 | 100 | 97 | 99 | 96 | 94 |
| 2 | 94 | 88 | 82 | 92 | 86 | 81 | 88 | 84 | 80 |
| 3 | 84 | 76 | 70 | 82 | 75 | 70 | 79 | 73 | 68 |
| 4 | 75 | 67 | 61 | 74 | 66 | 60 | 71 | 65 | 60 |
| 5 | 68 | 60 | 53 | 67 | 59 | 53 | 65 | 58 | 53 |
| 6 | 62 | 53 | 47 | 61 | 53 | 47 | 59 | 52 | 47 |
| 7 | 57 | 48 | 43 | 56 | 48 | 42 | 54 | 47 | 42 |
| 8 | 52 | 44 | 39 | 51 | 44 | 38 | 50 | 43 | 38 |
| 9 | 48 | 40 | 35 | 48 | 40 | 35 | 46 | 40 | 35 |
| 10 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 37 | 32 |

**Cone of Light**

| Mounting Height | Initial FC Center Beam | Beam Diameter |
|---|---|---|
| 6.0 | 13.9 | 10.7 |
| 8.0 | 7.8 | 14.2 |
| 10.0 | 5.0 | 17.8 |
| 12.0 | 3.5 | 21.3 |
| 14.0 | 2.5 | 24.9 |

Beam Angle: 83.2°
Field Angle: 147.3°

**Luminance (cd/sq.m)**

| Average Luminance | |
|---|---|
| 0° | 62,852 |
| 45° | 39,440 |
| 55° | 31,930 |
| 65° | 26,592 |
| 75° | 21,711 |
| 85° | 16,715 |


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# Juno Wafer™ LED Downlight Series

4", 6" & 8" LED Ultra-Thin Wafer Switchable Downlight

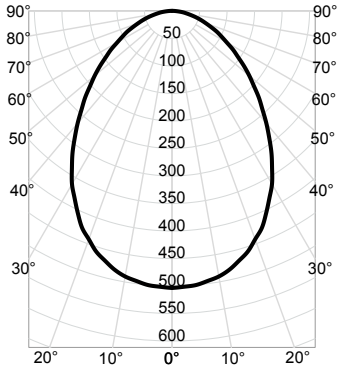
5CCT Switchable White Downlight



## PHOTOMETRICS

**Distribution Curve** | **Distribution Data** | **Output Data** | **Coefficient of Utilization** | **Illuminance Data at 30" Above Floor for a Single Luminaire**

**WF6 SWW5 90CRI 4000K** Input Watts: 12, Delivered Lumens: 988, LPW: 75.4, S/MH: 1.09, Test No: ISF 202630P9




**CP Summary**

| 0° | |
|---|---|
| 0° | 504 |
| 5° | 500 |
| 15° | 470 |
| 25° | 405 |
| 35° | 315 |
| 45° | 223 |
| 55° | 147 |
| 65° | 90 |
| 75° | 45 |
| 85° | 12 |
| 90° | 0 |

**Zonal Lumen Summary**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0° - 30° | 358 | 36% |
| 0° - 40° | 545 | 55% |
| 0° - 60° | 838 | 85% |
| 0° - 90° | 988 | 100% |
| 90° - 180° | 0 | 0% |
| 0° - 180° | 988 | 100% |

**Coefficients of Utilization**

| ρf | 80% | | | 20% | | | 50% | | |
|---|---|---|---|---|---|---|---|---|---|
| ρc | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% |
| ρw | | | | | | | | | |
| 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 |
| 1 | 106 | 102 | 98 | 104 | 100 | 97 | 99 | 96 | 94 |
| 2 | 94 | 88 | 82 | 92 | 86 | 81 | 88 | 84 | 80 |
| 3 | 84 | 76 | 70 | 82 | 75 | 70 | 79 | 73 | 68 |
| 4 | 75 | 67 | 61 | 74 | 66 | 60 | 71 | 65 | 60 |
| 5 | 68 | 60 | 53 | 67 | 59 | 53 | 65 | 58 | 53 |
| 6 | 62 | 53 | 47 | 61 | 53 | 47 | 59 | 52 | 47 |
| 7 | 57 | 48 | 43 | 56 | 48 | 42 | 54 | 47 | 42 |
| 8 | 52 | 44 | 39 | 51 | 44 | 38 | 50 | 43 | 38 |
| 9 | 48 | 40 | 35 | 48 | 40 | 35 | 46 | 40 | 35 |
| 10 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 37 | 32 |

**Cone of Light**

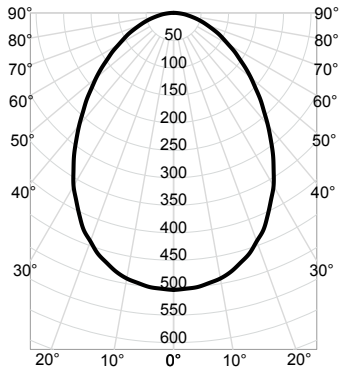
| Mounting Height | Initial FC Center Beam | Beam Diameter |
|---|---|---|
| 6.0 | 14.0 | 10.7 |
| 8.0 | 7.9 | 14.2 |
| 10.0 | 5.0 | 17.8 |
| 12.0 | 3.5 | 21.3 |
| 14.0 | 2.6 | 24.9 |

Beam Angle: 83.2°
Field Angle: 147.3°

**Luminance (cd/sq.m)**

| Average Luminance | |
|---|---|
| 0° | 63,366 |
| 45° | 39,762 |
| 55° | 32,191 |
| 65° | 26,810 |
| 75° | 21,888 |
| 85° | 16,852 |

**WF6 SWW5 90CRI 5000K** Input Watts: 12, Delivered Lumens: 989, LPW: 75.5, S/MH: 1.09, Test No: ISF 202630P10




**CP Summary**

| 0° | |
|---|---|
| 0° | 504 |
| 5° | 501 |
| 15° | 471 |
| 25° | 406 |
| 35° | 315 |
| 45° | 224 |
| 55° | 147 |
| 65° | 90 |
| 75° | 45 |
| 85° | 12 |
| 90° | 0 |

**Zonal Lumen Summary**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0° - 30° | 359 | 36% |
| 0° - 40° | 545 | 55% |
| 0° - 60° | 838 | 85% |
| 0° - 90° | 989 | 100% |
| 90° - 180° | 0 | 0% |
| 0° - 180° | 989 | 100% |

**Coefficients of Utilization**

| ρf | 80% | | | 20% | | | 50% | | |
|---|---|---|---|---|---|---|---|---|---|
| ρc | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% |
| ρw | | | | | | | | | |
| 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 |
| 1 | 106 | 102 | 98 | 104 | 100 | 97 | 99 | 96 | 94 |
| 2 | 94 | 88 | 82 | 92 | 86 | 81 | 88 | 84 | 80 |
| 3 | 84 | 76 | 70 | 82 | 75 | 70 | 79 | 73 | 68 |
| 4 | 75 | 67 | 61 | 74 | 66 | 60 | 71 | 65 | 60 |
| 5 | 68 | 60 | 53 | 67 | 59 | 53 | 65 | 58 | 53 |
| 6 | 62 | 53 | 47 | 61 | 53 | 47 | 59 | 52 | 47 |
| 7 | 57 | 48 | 43 | 56 | 48 | 42 | 54 | 47 | 42 |
| 8 | 52 | 44 | 39 | 51 | 44 | 38 | 50 | 43 | 38 |
| 9 | 48 | 40 | 35 | 48 | 40 | 35 | 46 | 40 | 35 |
| 10 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 37 | 32 |

**Cone of Light**

| Mounting Height | Initial FC Center Beam | Beam Diameter |
|---|---|---|
| 6.0 | 14.0 | 10.7 |
| 8.0 | 7.9 | 14.2 |
| 10.0 | 5.0 | 17.8 |
| 12.0 | 3.5 | 21.3 |
| 14.0 | 2.6 | 24.9 |

Beam Angle: 83.2°
Field Angle: 147.3°

**Luminance (cd/sq.m)**

| Average Luminance | |
|---|---|
| 0° | 63,430 |
| 45° | 39,802 |
| 55° | 32,224 |
| 65° | 26,837 |
| 75° | 21,911 |
| 85° | 16,869 |

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JUNO

# Juno Wafer™ LED Downlight Series

4", 6" & 8" LED Ultra-Thin Wafer Switchable Downlight

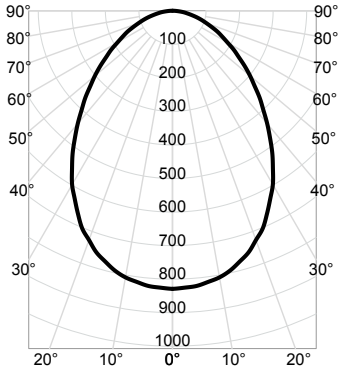
5CCT Switchable White Downlight



## PHOTOMETRICS

**Distribution Curve** | **Distribution Data** | **Output Data** | **Coefficient of Utilization** | **Illuminance Data at 30" Above Floor for a Single Luminaire**

**WF8 SWW5 90CRI 2700K** Input Watts: 19.7, Delivered Lumens: 1627, LPW: 82.6, S/MH: 1.09, Test No: ISF 202630P11




**CP Summary**

| 0° | |
|---|---|
| 0° | 829 |
| 5° | 823 |
| 15° | 774 |
| 25° | 667 |
| 35° | 519 |
| 45° | 368 |
| 55° | 242 |
| 65° | 148 |
| 75° | 74 |
| 85° | 19 |
| 90° | 0 |

**Zonal Lumen Summary**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0° - 30° | 590 | 36% |
| 0° - 40° | 897 | 55% |
| 0° - 60° | 1,379 | 85% |
| 0° - 90° | 1,627 | 100% |
| 90° - 180° | 0 | 0% |
| 0° - 180° | 1,627 | 100% |

**Coefficients of Utilization**

| ρf | ρc | 80% | | | 20% | | | 50% | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% |
| | 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 |
| | 1 | 106 | 102 | 98 | 104 | 100 | 97 | 99 | 96 | 94 |
| | 2 | 94 | 88 | 82 | 92 | 86 | 81 | 88 | 84 | 80 |
| | 3 | 84 | 76 | 70 | 82 | 75 | 70 | 79 | 73 | 68 |
| | 4 | 75 | 67 | 61 | 74 | 66 | 60 | 71 | 65 | 60 |
| | 5 | 68 | 60 | 53 | 67 | 59 | 53 | 65 | 58 | 53 |
| | 6 | 62 | 53 | 47 | 61 | 53 | 47 | 59 | 52 | 47 |
| | 7 | 57 | 48 | 43 | 56 | 48 | 42 | 54 | 47 | 42 |
| | 8 | 52 | 44 | 39 | 51 | 44 | 38 | 50 | 43 | 38 |
| | 9 | 48 | 40 | 35 | 48 | 40 | 35 | 46 | 40 | 35 |
| | 10 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 37 | 32 |

**Cone of Light**

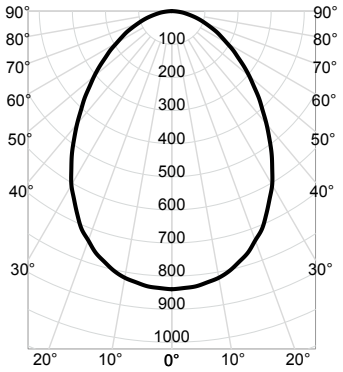
| Mounting Height | Initial FC Center Beam | Beam Diameter |
|---|---|---|
| 6.0 | 23.0 | 10.7 |
| 8.0 | 13.0 | 14.2 |
| 10.0 | 8.3 | 17.8 |
| 12.0 | 5.8 | 21.3 |
| 14.0 | 4.2 | 24.9 |

Beam Angle: 83.2°
Field Angle: 147.3°

**Luminance (cd/sq.m)**

| | Average Luminance |
|---|---|
| 0° | 104,326 |
| 45° | 65,464 |
| 55° | 53,000 |
| 65° | 44,140 |
| 75° | 36,037 |
| 85° | 27,745 |

**WF8 SWW5 90CRI 3000K** Input Watts: 19.7, Delivered Lumens: 1648, LPW: 83.7, S/MH: 1.09, Test No: ISF 202630P12




**CP Summary**

| 0° | |
|---|---|
| 0° | 840 |
| 5° | 834 |
| 15° | 784 |
| 25° | 676 |
| 35° | 525 |
| 45° | 373 |
| 55° | 245 |
| 65° | 150 |
| 75° | 75 |
| 85° | 19 |
| 90° | 0 |

**Zonal Lumen Summary**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0° - 30° | 598 | 36% |
| 0° - 40° | 908 | 55% |
| 0° - 60° | 1,397 | 85% |
| 0° - 90° | 1,648 | 100% |
| 90° - 180° | 0 | 0% |
| 0° - 180° | 1,648 | 100% |

**Coefficients of Utilization**

| ρf | ρc | 80% | | | 20% | | | 50% | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% |
| | 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 |
| | 1 | 106 | 102 | 98 | 104 | 100 | 97 | 99 | 96 | 94 |
| | 2 | 94 | 88 | 82 | 92 | 86 | 81 | 88 | 84 | 80 |
| | 3 | 84 | 76 | 70 | 82 | 75 | 70 | 79 | 73 | 68 |
| | 4 | 75 | 67 | 61 | 74 | 66 | 60 | 71 | 65 | 60 |
| | 5 | 68 | 60 | 53 | 67 | 59 | 53 | 65 | 58 | 53 |
| | 6 | 62 | 53 | 47 | 61 | 53 | 47 | 59 | 52 | 47 |
| | 7 | 57 | 48 | 43 | 56 | 48 | 42 | 54 | 47 | 42 |
| | 8 | 52 | 44 | 39 | 51 | 44 | 38 | 50 | 43 | 38 |
| | 9 | 48 | 40 | 35 | 48 | 40 | 35 | 46 | 40 | 35 |
| | 10 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 37 | 32 |

**Cone of Light**

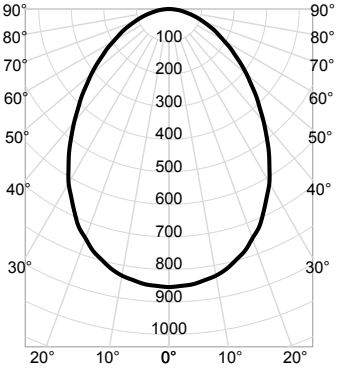
| Mounting Height | Initial FC Center Beam | Beam Diameter |
|---|---|---|
| 6.0 | 23.3 | 10.7 |
| 8.0 | 13.1 | 14.2 |
| 10.0 | 8.4 | 17.8 |
| 12.0 | 5.8 | 21.3 |
| 14.0 | 4.3 | 24.9 |

Beam Angle: 83.2°
Field Angle: 147.3°

**Luminance (cd/sq.m)**

| | Average Luminance |
|---|---|
| 0° | 105,674 |
| 45° | 66,310 |
| 55° | 53,685 |
| 65° | 44,710 |
| 75° | 36,503 |
| 85° | 28,104 |

**WF8 SWW5 90CRI 3500K** Input Watts: 19.7, Delivered Lumens: 1677, LPW: 85.1, S/MH: 1.09, Test No: ISF 202630P13




**CP Summary**

| 0° | |
|---|---|
| 0° | 854 |
| 5° | 849 |
| 15° | 798 |
| 25° | 688 |
| 35° | 535 |
| 45° | 379 |
| 55° | 249 |
| 65° | 153 |
| 75° | 76 |
| 85° | 20 |
| 90° | 0 |

**Zonal Lumen Summary**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0° - 30° | 608 | 36% |
| 0° - 40° | 924 | 55% |
| 0° - 60° | 1,422 | 85% |
| 0° - 90° | 1,677 | 100% |
| 90° - 180° | 0 | 0% |
| 0° - 180° | 1,677 | 100% |

**Coefficients of Utilization**

| ρf | ρc | 80% | | | 20% | | | 50% | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% |
| | 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 |
| | 1 | 106 | 102 | 98 | 104 | 100 | 97 | 99 | 96 | 94 |
| | 2 | 94 | 88 | 82 | 92 | 86 | 81 | 88 | 84 | 80 |
| | 3 | 84 | 76 | 70 | 82 | 75 | 70 | 79 | 73 | 68 |
| | 4 | 75 | 67 | 61 | 74 | 66 | 60 | 71 | 65 | 60 |
| | 5 | 68 | 60 | 53 | 67 | 59 | 53 | 65 | 58 | 53 |
| | 6 | 62 | 53 | 47 | 61 | 53 | 47 | 59 | 52 | 47 |
| | 7 | 57 | 48 | 43 | 56 | 48 | 42 | 54 | 47 | 42 |
| | 8 | 52 | 44 | 39 | 51 | 44 | 38 | 50 | 43 | 38 |
| | 9 | 48 | 40 | 35 | 48 | 40 | 35 | 46 | 40 | 35 |
| | 10 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 37 | 32 |

**Cone of Light**

| Mounting Height | Initial FC Center Beam | Beam Diameter |
|---|---|---|
| 6.0 | 23.7 | 10.7 |
| 8.0 | 13.4 | 14.2 |
| 10.0 | 8.5 | 17.8 |
| 12.0 | 5.9 | 21.3 |
| 14.0 | 4.4 | 24.9 |

Beam Angle: 83.2°
Field Angle: 147.3°

**Luminance (cd/sq.m)**

| | Average Luminance |
|---|---|
| 0° | 107,536 |
| 45° | 67,478 |
| 55° | 54,631 |
| 65° | 45,498 |
| 75° | 37,146 |
| 85° | 28,599 |


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JUNO

# Juno Wafer™ LED Downlight Series

4", 6" & 8" LED Ultra-Thin Wafer Switchable Downlight

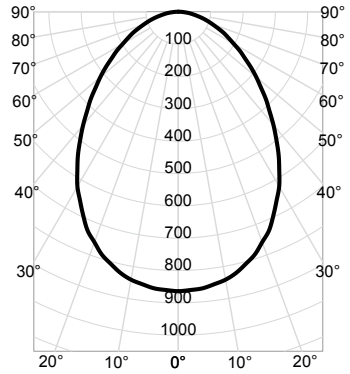
5CCT Switchable White Downlight



## PHOTOMETRICS

**Distribution Curve** | **Distribution Data** | **Output Data** | **Coefficient of Utilization** | **Illuminance Data at 30″ Above Floor for a Single Luminaire**

**WF8 SWW5 90CRI 4000K** Input Watts: 19.7, Delivered Lumens: 1696, LPW: 86.1, S/MH: 1.09, Test No: ISF 202630P14




**CP Summary**

| 0° | |
|---|---|
| 0° | 864 |
| 5° | 858 |
| 15° | 807 |
| 25° | 695 |
| 35° | 541 |
| 45° | 383 |
| 55° | 252 |
| 65° | 155 |
| 75° | 77 |
| 85° | 20 |
| 90° | 0 |

**Zonal Lumen Summary**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0° - 30° | 615 | 36% |
| 0° - 40° | 935 | 55% |
| 0° - 60° | 1,438 | 85% |
| 0° - 90° | 1,696 | 100% |
| 90° - 180° | 0 | 0% |
| 0° - 180° | 1,696 | 100% |

**Coefficients of Utilization**

| ρf | ρc | 80% | | | 20% | | | 50% | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% |
| 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 |
| 1 | 106 | 102 | 98 | 104 | 100 | 97 | 99 | 96 | 94 |
| 2 | 94 | 88 | 82 | 92 | 86 | 81 | 88 | 84 | 80 |
| 3 | 84 | 76 | 70 | 82 | 75 | 70 | 79 | 73 | 68 |
| 4 | 75 | 67 | 61 | 74 | 66 | 60 | 71 | 65 | 60 |
| 5 | 68 | 60 | 53 | 67 | 59 | 53 | 65 | 58 | 53 |
| 6 | 62 | 53 | 47 | 61 | 53 | 47 | 59 | 52 | 47 |
| 7 | 57 | 48 | 43 | 56 | 48 | 42 | 54 | 47 | 42 |
| 8 | 52 | 44 | 39 | 51 | 44 | 38 | 50 | 43 | 38 |
| 9 | 48 | 40 | 35 | 48 | 40 | 35 | 46 | 40 | 35 |
| 10 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 37 | 32 |

**Cone of Light**

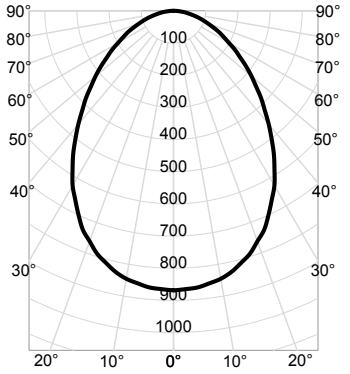
| Mounting Height | Initial FC Center Beam | Beam Diameter |
|---|---|---|
| 6.0 | 24.0 | 10.7 |
| 8.0 | 13.5 | 14.2 |
| 10.0 | 8.6 | 17.8 |
| 12.0 | 6.0 | 21.3 |
| 14.0 | 4.4 | 24.9 |

Beam Angle: 83.2°
Field Angle: 147.3°

**Luminance (cd/sq.m)**

| | Average Luminance |
|---|---|
| 0° | 108,755 |
| 45° | 68,244 |
| 55° | 55,250 |
| 65° | 46,014 |
| 75° | 37,567 |
| 85° | 28,923 |

**WF8 SWW5 90CRI 5000K** Input Watts: 19.7, Delivered Lumens: 1705, LPW: 86.5, S/MH: 1.09, Test No: ISF 202630P15




**CP Summary**

| 0° | |
|---|---|
| 0° | 869 |
| 5° | 863 |
| 15° | 811 |
| 25° | 699 |
| 35° | 544 |
| 45° | 385 |
| 55° | 253 |
| 65° | 155 |
| 75° | 78 |
| 85° | 20 |
| 90° | 0 |

**Zonal Lumen Summary**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0° - 30° | 618 | 36% |
| 0° - 40° | 940 | 55% |
| 0° - 60° | 1,445 | 85% |
| 0° - 90° | 1,705 | 100% |
| 90° - 180° | 0 | 0% |
| 0° - 180° | 1,705 | 100% |

**Coefficients of Utilization**

| ρf | ρc | 80% | | | 20% | | | 50% | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% |
| 0 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 |
| 1 | 106 | 102 | 98 | 104 | 100 | 97 | 99 | 96 | 94 |
| 2 | 94 | 88 | 82 | 92 | 86 | 81 | 88 | 84 | 80 |
| 3 | 84 | 76 | 70 | 82 | 75 | 70 | 79 | 73 | 68 |
| 4 | 75 | 67 | 61 | 74 | 66 | 60 | 71 | 65 | 60 |
| 5 | 68 | 60 | 53 | 67 | 59 | 53 | 65 | 58 | 53 |
| 6 | 62 | 53 | 47 | 61 | 53 | 47 | 59 | 52 | 47 |
| 7 | 57 | 48 | 43 | 56 | 48 | 42 | 54 | 47 | 42 |
| 8 | 52 | 44 | 39 | 51 | 44 | 38 | 50 | 43 | 38 |
| 9 | 48 | 40 | 35 | 48 | 40 | 35 | 46 | 40 | 35 |
| 10 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 37 | 32 |

**Cone of Light**

| Mounting Height | Initial FC Center Beam | Beam Diameter |
|---|---|---|
| 6.0 | 24.1 | 10.7 |
| 8.0 | 13.6 | 14.2 |
| 10.0 | 8.7 | 17.8 |
| 12.0 | 6.0 | 21.3 |
| 14.0 | 4.4 | 24.9 |

Beam Angle: 83.2°
Field Angle: 147.3°

**Luminance (cd/sq.m)**

| | Average Luminance |
|---|---|
| 0° | 109,333 |
| 45° | 68,606 |
| 55° | 55,544 |
| 65° | 46,258 |
| 75° | 37,767 |
| 85° | 29,077 |

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