



# Juno Wafer™ LED Downlight Series

## 4", 6" & 8" LED Ultra-Thin Wafer

### 5CCT Switchable White Downlight

**WF4/WF6/W8 SWW5 Series**



Brushed Nickel



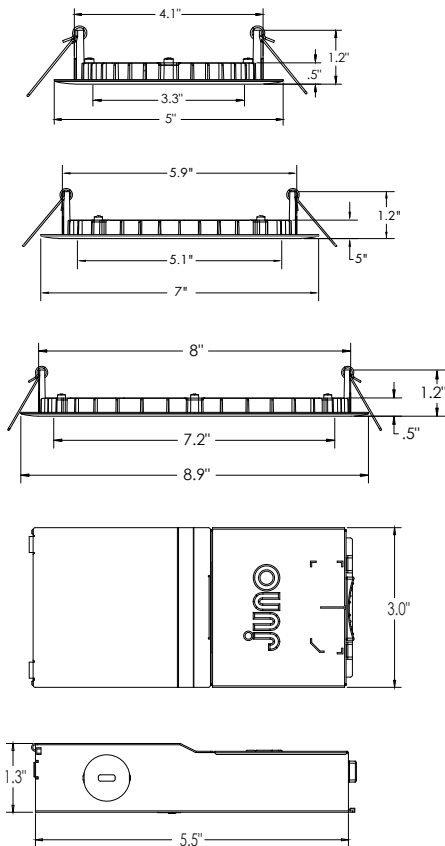
Oil Rubbed Bronze



Matte Black



**Dimensions**



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	670L (WF4), 970L (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% only with triac dimmers.

For a list of compatible dimmers see [JUNO-WAFERS-DIM](#)

**Specifications**

	WF4	WF6	WF8
Aperture:	3.3"	5.1"	7.2"
Ceiling Opening:	4.25"	6.25"	8.25"
Overlap Trim:	5"	7"	8.9"
Height:	1.2"	1.2"	1.2"



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### ORDERING INFORMATION

**Downlight**

Example: WF4 SWW5 90CRI MW M6

Series	Trim Style	Color Temperature	Rendering Index		Finish
			90CRI	90+ CRI	
<b>WF4</b>	4" Wafer-Thin LED Downlight	<b>SWW5</b> Switchable White (2700K, 3000K, 3500K, 4000K, 5000K)	<b>90CRI</b>	90+ CRI	<b>MW</b> Matte White
<b>WF6</b>	6" Wafer-Thin LED Downlight				<b>MB</b> Matte Black
<b>WF8'</b>	8" Wafer-Thin LED Downlight				<b>BN</b> Brushed Nickel
					<b>ORB</b> Oil Rubbed Bronze

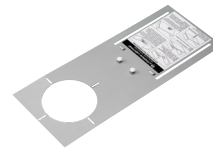
1. WF8 only offered in a Matte White finish.

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

Series	Description
<b>WF8643 PAN U</b>	Universal New Construction Pan
<b>WF4 PAN R12</b>	4" New construction pan, retail pack of 12
<b>WF4GR MW JZ</b>	4" Goof Ring
<b>WF6 PAN R12</b>	6" New construction pan, retail pack of 12
<b>WF6GR MW JZ</b>	6" Goof Ring
<b>WF8GR MW JZ</b>	8" Goof Ring
<b>WFJB U</b>	Remodel Joist Bar
<b>WFEXC6 SW3PIN FT4</b>	3-Pin 6ft Cable
<b>WFEXC10 SW3PIN FT4</b>	3-Pin 10ft Cable
<b>WFEXC20 SW3PIN FT4</b>	3-Pin 20ft Cable



WF8643 UNIVERSAL New Construction Pan



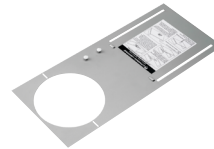
WF4 PAN 4" New Construction Pan



Remodel Joist Bar



WFEXCx 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 SUR LE RENDEMENT DE L'ÉCLAIRAGE	
Light Appearance (CCT) Aspect de la lumière (CCT)	
<b>2700K</b> soft white   blanc doux	665 lumens   74 lumens per watt
<b>3000K</b> warm white   blanc chaud	670 lumens   74 lumens per watt
<b>3500K</b> neutral white   blanc neutre	680 lumens   76 lumens per watt
<b>4000K</b> cool white   blanc froid	685 lumens   76 lumens per watt
<b>5000K</b> daylight   blanc neutre	690 lumens   76 lumens per watt
Watts	<b>9</b>
Color Accuracy (CRI) Précision des couleurs (CRI)	<b>90</b>

LIGHTING PERFORMANCE DATA DONNÉES SUR LE RENDEMENT DE L'ÉCLAIRAGE	
Light Appearance (CCT) Aspect de la lumière (CCT)	
<b>2700K</b> soft white   blanc doux	955 lumens   73 lumens per watt
<b>3000K</b> warm white   blanc chaud	970 lumens   74 lumens per watt
<b>3500K</b> neutral white   blanc neutre	990 lumens   76 lumens per watt
<b>4000K</b> cool white   blanc froid	1000 lumens   76 lumens per watt
<b>5000K</b> daylight   blanc neutre	1005 lumens   77 lumens per watt
Watts	<b>13</b>
Color Accuracy (CRI) Précision des couleurs (CRI)	<b>90</b>

LIGHTING PERFORMANCE DATA DONNÉES SUR LE RENDEMENT DE L'ÉCLAIRAGE	
Light Appearance (CCT) Aspect de la lumière (CCT)	
<b>2700K</b> soft white   blanc doux	1615 lumens   85 lumens per watt
<b>3000K</b> warm white   blanc chaud	1640 lumens   86 lumens per watt
<b>3500K</b> neutral white   blanc neutre	1670 lumens   88 lumens per watt
<b>4000K</b> cool white   blanc froid	1690 lumens   89 lumens per watt
<b>5000K</b> daylight   blanc neutre	1700 lumens   89 lumens per watt
Watts	<b>19</b>
Color Accuracy (CRI) Précision des couleurs (CRI)	<b>90</b>



# Juno Wafer™ LED Downlight Series

## 4", 6" & 8" LED Ultra-Thin Wafer 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 1/2" 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 installation of the remote 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 670 lumens while using 9W (WF4), 970 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 • 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. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

Specifications subject to change without notice.



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#### PHOTOMETRICS

Distribution Curve

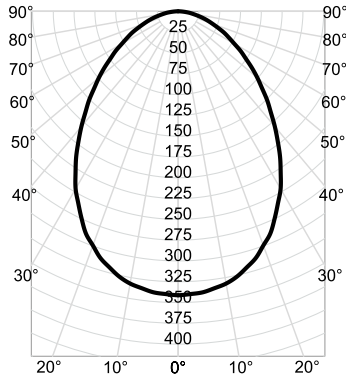
Distribution Data

Output Data

Coefficient of Utilization

Illuminance Data at 30° Above Floor for a Single Luminaire

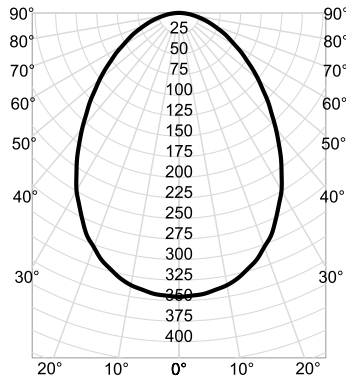
**WF4 SWW5 90CRI 2700K** Input Watts: 8.9, Delivered Lumens: 670, LPW: 75.3, S/MH: 1.09, Test No: ISF 202630P1



CP Summary				Zonal Lumen Summary				Coefficients of Utilization									Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf pc pw	50%	80%	30%	10%	50%	70%	30%	10%	50%	30%	10%	Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance		
0°	341	0° - 30°	243	36%	0	119	119	119	116	116	116	111	111	111	111	6.0	9.5	10.7	0°	42,950	
5°	339	0° - 40°	369	55%	1	106	102	98	104	100	97	99	96	94	94	8.0	5.3	14.2	45°	26,951	
15°	319	0° - 60°	568	85%	2	94	88	82	92	86	81	88	84	80	80	10.0	3.4	17.8	55°	21,820	
25°	275	0° - 90°	670	100%	3	84	76	70	82	75	70	79	73	68	68	12.0	2.4	21.3	65°	18,172	
35°	214	90° - 180°	0	0%	4	75	67	61	74	66	60	71	65	60	60	14.0	1.7	24.9	75°	14,836	
45°	151	0° - 180°	670	100%	5	68	60	53	67	59	53	65	58	53	53				85°	11,422	
55°	99				6	62	53	47	61	53	47	59	52	47							
65°	61				7	57	48	43	56	48	42	54	47	42							
75°	31				8	52	44	39	51	44	38	50	43	38							
85°	8				9	48	40	35	48	40	35	46	40	35							
90°	0				10	45	37	32	44	37	32	43	37	32							

Beam Angle: 83.2°  
Field Angle: 147.3°

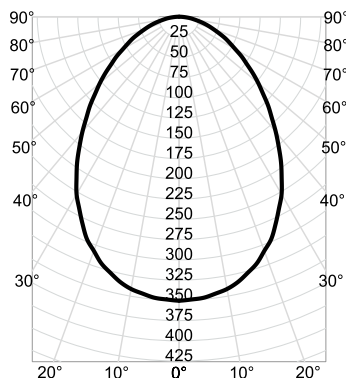
**WF4 SWW5 90CRI 3000K** Input Watts: 8.9, Delivered Lumens: 678, LPW: 76.2, S/MH: 1.09, Test No: ISF 202630P2



CP Summary				Zonal Lumen Summary				Coefficients of Utilization									Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf pc pw	50%	80%	30%	10%	50%	70%	30%	10%	50%	30%	10%	Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance		
0°	345	0° - 30°	246	36%	0	119	119	119	116	116	116	111	111	111	111	6.0	9.6	10.7	0°	43,464	
5°	343	0° - 40°	374	55%	1	106	102	98	104	100	97	99	96	94	94	8.0	5.4	14.2	45°	27,273	
15°	322	0° - 60°	575	85%	2	94	88	82	92	86	81	88	84	80	80	10.0	3.5	17.8	55°	22,081	
25°	278	0° - 90°	678	100%	3	84	76	70	82	75	70	79	73	68	68	12.0	2.4	21.3	65°	18,389	
35°	216	90° - 180°	0	0%	4	75	67	61	74	66	60	71	65	60	60	14.0	1.8	24.9	75°	15,014	
45°	153	0° - 180°	678	100%	5	68	60	53	67	59	53	65	58	53	53				85°	11,559	
55°	101				6	62	53	47	61	53	47	59	52	47							
65°	62				7	57	48	43	56	48	42	54	47	42							
75°	31				8	52	44	39	51	44	38	50	43	38							
85°	8				9	48	40	35	48	40	35	46	40	35							
90°	0				10	45	37	32	44	37	32	43	37	32							

Beam Angle: 83.2°  
Field Angle: 147.3°

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



CP Summary				Zonal Lumen Summary				Coefficients of Utilization									Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf pc pw	50%	80%	30%	10%	50%	70%	30%	10%	50%	30%	10%	Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance		
0°	350	0° - 30°	249	36%	0	119	119	119	116	116	116	111	111	111	111	6.0	9.7	10.7	0°	44,106	
5°	348	0° - 40°	379	55%	1	106	102	98	104	100	97	99	96	94	94	8.0	5.5	14.2	45°	27,676	
15°	327	0° - 60°	583	85%	2	94	88	82	92	86	81	88	84	80	80	10.0	3.5	17.8	55°	22,407	
25°	282	0° - 90°	688	100%	3	84	76	70	82	75	70	79	73	68	68	12.0	2.4	21.3	65°	18,661	
35°	219	90° - 180°	0	0%	4	75	67	61	74	66	60	71	65	60	60	14.0	1.8	24.9	75°	15,235	
45°	156	0° - 180°	688	100%	5	68	60	53	67	59	53	65	58	53	53				85°	11,730	
55°	102				6	62	53	47	61	53	47	59	52	47							
65°	63				7	57	48	43	56	48	42	54	47	42							
75°	31				8	52	44	39	51	44	38	50	43	38							
85°	8				9	48	40	35	48	40	35	46	40	35							
90°	0				10	45	37	32	44	37	32	43	37	32							

Beam Angle: 83.2°  
Field Angle: 147.3°



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## 4", 6" & 8" LED Ultra-Thin Wafer

### 5CCT Switchable White Downlight



#### PHOTOMETRICS

Distribution Curve

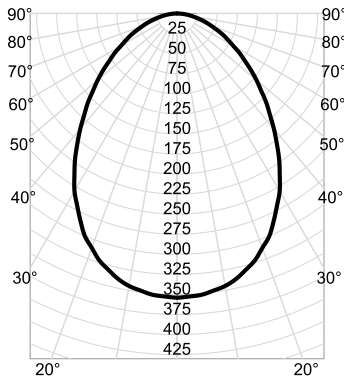
Distribution Data

Output Data

Coefficient of Utilization

Illuminance Data at 30" Above Floor for a Single Luminaire

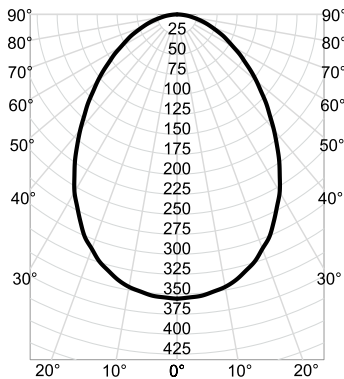
**WF4 SWW5 90CRI 4000K** Input Watts: 8.9, Delivered Lumens: 695, LPW: 78.1, S/MH: 1.09, Test No: ISF 202630P4



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf pc	80%		20%		70%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance				
				pw	50%	30%	10%	50%	30%	10%	50%	30%					0°	45°	85°	
0°	0° - 30°	252	36%	0	119	119	119	116	116	116	111	111	6.0	9.8	10.7	0°	44,555			
5°	0° - 40°	383	55%	1	106	102	98	104	100	97	99	96	8.0	5.5	14.2	45°	27,958			
15°	0° - 60°	589	85%	2	94	88	82	92	86	81	88	84	10.0	3.5	17.8	55°	22,635			
25°	0° - 90°	695	100%	3	84	76	70	82	75	70	79	73	12.0	2.5	21.3	65°	18,851			
35°	90° - 180°	0	0%	4	75	67	61	74	66	60	71	65	14.0	1.8	24.9	75°	15,391			
45°	0° - 180°	695	100%	5	68	60	53	67	59	53	65	58				85°	11,849			
55°		103		6	62	53	47	61	53	47	59	52								
65°		63		7	57	48	43	56	48	42	54	47								
75°		32		8	52	44	39	51	44	38	50	43								
85°		8		9	48	40	35	48	40	35	46	40								
90°		0		10	45	37	32	44	37	32	43	37								

Beam Angle: 83.2°  
Field Angle: 147.3°

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



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf pc	80%		20%		70%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance				
				pw	50%	30%	10%	50%	30%	10%	50%	30%					0°	45°	85°	
0°	0° - 30°	253	36%	0	119	119	119	116	116	116	111	111	6.0	9.9	10.7	0°	44,748			
5°	0° - 40°	385	55%	1	106	102	98	104	100	97	99	96	8.0	5.6	14.2	45°	28,079			
15°	0° - 60°	592	85%	2	94	88	82	92	86	81	88	84	10.0	3.6	17.8	55°	22,733			
25°	0° - 90°	698	100%	3	84	76	70	82	75	70	79	73	12.0	2.5	21.3	65°	18,933			
35°	90° - 180°	0	0%	4	75	67	61	74	66	60	71	65	14.0	1.8	24.9	75°	15,457			
45°	0° - 180°	698	100%	5	68	60	53	67	59	53	65	58				85°	11,901			
55°		104		6	62	53	47	61	53	47	59	52								
65°		64		7	57	48	43	56	48	42	54	47								
75°		32		8	52	44	39	51	44	38	50	43								
85°		8		9	48	40	35	48	40	35	46	40								
90°		0		10	45	37	32	44	37	32	43	37								

Beam Angle: 83.2°  
Field Angle: 147.3°



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### 5CCT Switchable White Downlight



### PHOTOMETRICS

Distribution Curve

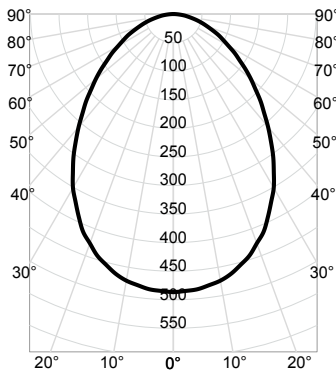
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Coefficient of Utilization

Illuminance Data at 30" Above Floor for a Single Luminaire

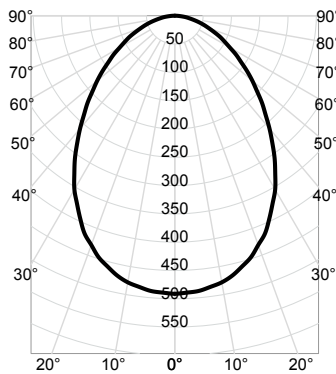
**WF6 SWW5 90CRI 2700K** Input Watts: 13.1, Delivered Lumens: 955, LPW: 72.9, S/MH: 1.09, Test No: ISF 202630P6



CP Summary	Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)		
					0°	Zone	Lumens	% Fixture	pf	80%			20%			50%	Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
										pc	50%	30%	10%	50%	30%					
0°	487	0° - 30°	346	36%	0	119	119	119	116	116	116	111	111	111	6.0	13.5	10.7	0°	61,247	
5°	483	0° - 40°	527	55%	1	106	102	98	104	100	97	99	96	94	8.0	7.6	14.2	45°	38,433	
15°	454	0° - 60°	810	85%	2	94	88	82	92	86	81	88	84	80	10.0	4.9	17.8	55°	31,115	
25°	392	0° - 90°	955	100%	3	84	76	70	82	75	70	79	73	68	12.0	3.4	21.3	65°	25,913	
35°	305	90° - 180°	0	0%	4	75	67	61	74	66	60	71	65	60	14.0	2.5	24.9	75°	21,157	
45°	216	0° - 180°	955	100%	5	68	60	53	67	59	53	65	58	53				85°	16,288	
55°	142				6	62	53	47	61	53	47	59	52	47						
65°	87				7	57	48	43	56	48	42	54	47	42						
75°	44				8	52	44	39	51	44	38	50	43	38						
85°	11				9	48	40	35	48	40	35	46	40	35						
90°	0				10	45	37	32	44	37	32	43	37	32						

Beam Angle: 83.2°  
Field Angle: 147.3°

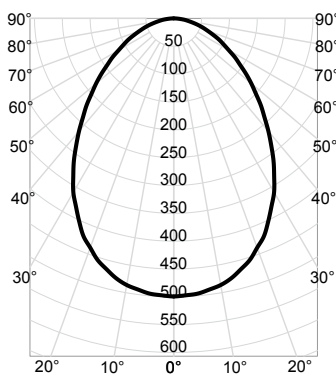
**WF6 SWW5 90CRI 3000K** Input Watts: 13.1, Delivered Lumens: 964, LPW: 73.6, S/MH: 1.09, Test No: ISF 202630P7



CP Summary	Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)		
					0°	Zone	Lumens	% Fixture	pf	80%			20%			50%	Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
										pc	50%	30%	10%	50%	30%					
0°	491	0° - 30°	350	36%	0	119	119	119	116	116	116	111	111	111	6.0	13.6	10.7	0°	61,825	
5°	488	0° - 40°	531	55%	1	106	102	98	104	100	97	99	96	94	8.0	7.7	14.2	45°	38,795	
15°	459	0° - 60°	817	85%	2	94	88	82	92	86	81	88	84	80	10.0	4.9	17.8	55°	31,409	
25°	395	0° - 90°	964	100%	3	84	76	70	82	75	70	79	73	68	12.0	3.4	21.3	65°	26,158	
35°	307	90° - 180°	0	0%	4	75	67	61	74	66	60	71	65	60	14.0	2.5	24.9	75°	21,356	
45°	218	0° - 180°	964	100%	5	68	60	53	67	59	53	65	58	53				85°	16,442	
55°	143				6	62	53	47	61	53	47	59	52	47						
65°	88				7	57	48	43	56	48	42	54	47	42						
75°	44				8	52	44	39	51	44	38	50	43	38						
85°	11				9	48	40	35	48	40	35	46	40	35						
90°	0				10	45	37	32	44	37	32	43	37	32						

Beam Angle: 83.2°  
Field Angle: 147.3°

**WF6 SWW5 90CRI 3500K** Input Watts: 13.1, Delivered Lumens: 980, LPW: 74.8, S/MH: 1.09, Test No: ISF 202630P8



CP Summary	Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)		
					0°	Zone	Lumens	% Fixture	pf	80%			20%			50%	Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
										pc	50%	30%	10%	50%	30%					
0°	499	0° - 30°	355	36%	0	119	119	119	116	116	116	111	111	111	6.0	13.9	10.7	0°	62,852	
5°	496	0° - 40°	540	55%	1	106	102	98	104	100	97	99	96	94	8.0	7.8	14.2	45°	39,440	
15°	466	0° - 60°	831	85%	2	94	88	82	92	86	81	88	84	80	10.0	5.0	17.8	55°	31,930	
25°	402	0° - 90°	980	100%	3	84	76	70	82	75	70	79	73	68	12.0	3.5	21.3	65°	26,592	
35°	313	90° - 180°	0	0%	4	75	67	61	74	66	60	71	65	60	14.0	2.5	24.9	75°	21,711	
45°	222	0° - 180°	980	100%	5	68	60	53	67	59	53	65	58	53				85°	16,715	
55°	146				6	62	53	47	61	53	47	59	52	47						
65°	89				7	57	48	43	56	48	42	54	47	42						
75°	45				8	52	44	39	51	44	38	50	43	38						
85°	12				9	48	40	35	48	40	35	46	40	35						
90°	0				10	45	37	32	44	37	32	43	37	32						

Beam Angle: 83.2°  
Field Angle: 147.3°



# Juno Wafer™ LED Downlight Series

## 4", 6" & 8" LED Ultra-Thin Wafer

### 5CCT Switchable White Downlight



#### PHOTOMETRICS

Distribution Curve

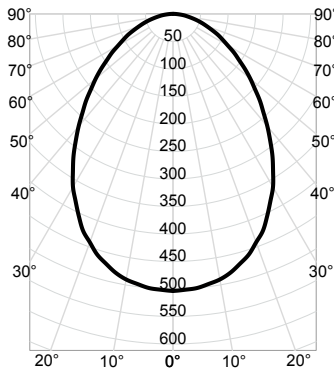
Distribution Data

Output Data

Coefficient of Utilization

Illuminance Data at 30" Above Floor for a Single Luminaire

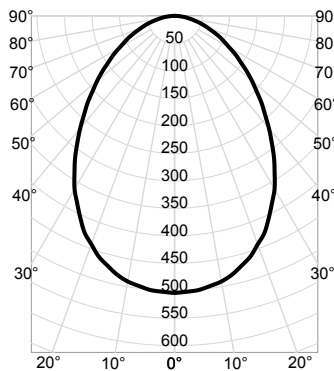
**WF6 SWW5 90CRI 4000K** Input Watts: 13.1, Delivered Lumens: 988, LPW: 75.4, S/MH: 1.09, Test No: ISF 202630P9



CP Summary	Zonal Lumen Summary		Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)		
			0°	Zone	Lumens	% Fixture	80%		20%		70%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
							pw	50%	30%	10%	50%	30%	10%	50%				
0°	504	0° - 30°	358	36%	0	119	119	119	116	116	116	111	111	111	6.0	14.0	10.7	0° 63,366
5°	500	0° - 40°	545	55%	1	106	102	98	104	100	97	99	96	94	8.0	7.9	14.2	45° 39,762
15°	470	0° - 60°	838	85%	2	94	88	82	92	86	81	88	84	80	10.0	5.0	17.8	55° 32,191
25°	405	0° - 90°	988	100%	3	84	76	70	82	75	70	79	73	68	12.0	3.5	21.3	65° 26,810
35°	315	90° - 180°	0	0%	4	75	67	61	74	66	60	71	65	60	14.0	2.6	24.9	75° 21,888
45°	223	0° - 180°	988	100%	5	68	60	53	67	59	53	65	58	53				85° 16,852
55°	147				6	62	53	47	61	53	47	59	52	47				
65°	90				7	57	48	43	56	48	42	54	47	42				
75°	45				8	52	44	39	51	44	38	50	43	38				
85°	12				9	48	40	35	48	40	35	46	40	35				
90°	0				10	45	37	32	44	37	32	43	37	32				

Beam Angle: 83.2°  
Field Angle: 147.3°

**WF6 SWW5 90CRI 5000K** Input Watts: 13.1, Delivered Lumens: 989, LPW: 75.5, S/MH: 1.09, Test No: ISF 202630P10



CP Summary	Zonal Lumen Summary		Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)		
			0°	Zone	Lumens	% Fixture	80%		20%		70%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
							pw	50%	30%	10%	50%	30%	10%	50%				
0°	504	0° - 30°	359	36%	0	119	119	119	116	116	116	111	111	111	6.0	14.0	10.7	0° 63,430
5°	501	0° - 40°	545	55%	1	106	102	98	104	100	97	99	96	94	8.0	7.9	14.2	45° 39,802
15°	471	0° - 60°	838	85%	2	94	88	82	92	86	81	88	84	80	10.0	5.0	17.8	55° 32,224
25°	406	0° - 90°	989	100%	3	84	76	70	82	75	70	79	73	68	12.0	3.5	21.3	65° 26,837
35°	315	90° - 180°	0	0%	4	75	67	61	74	66	60	71	65	60	14.0	2.6	24.9	75° 21,911
45°	224	0° - 180°	989	100%	5	68	60	53	67	59	53	65	58	53				85° 16,869
55°	147				6	62	53	47	61	53	47	59	52	47				
65°	90				7	57	48	43	56	48	42	54	47	42				
75°	45				8	52	44	39	51	44	38	50	43	38				
85°	12				9	48	40	35	48	40	35	46	40	35				
90°	0				10	45	37	32	44	37	32	43	37	32				

Beam Angle: 83.2°  
Field Angle: 147.3°



# Juno Wafer™ LED Downlight Series

## 4", 6" & 8" LED Ultra-Thin Wafer

### 5CCT Switchable White Downlight



### PHOTOMETRICS

Distribution Curve

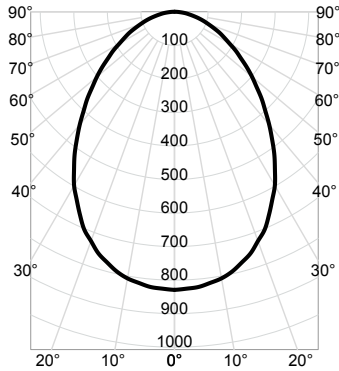
Distribution Data

Output Data

Coefficient of Utilization

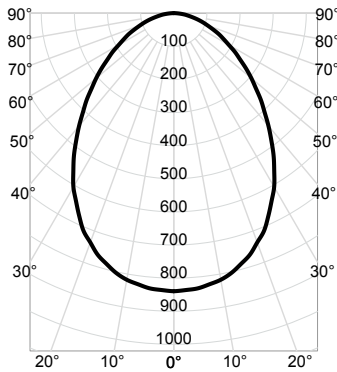
Illuminance Data at 30" Above Floor for a Single Luminaire

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



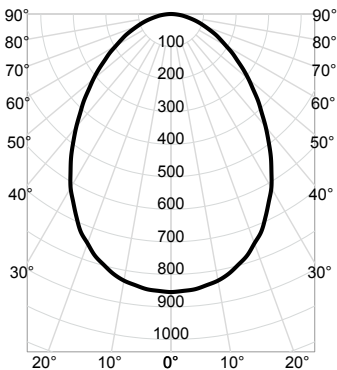
CP Summary	Zonal Lumen Summary				Coefficients of Utilization												Cone of Light			Luminance (cd/sq.m)	
	0°	Zone	Lumens	% Fixture	pf	80%				20%				Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance				
						pc	50%	30%	10%	50%	30%	10%	50%					30%	10%		
0°	829	0° - 30°	590	36%	0	119	119	119	116	116	116	111	111	111	6.0	23.0	10.7	0°	104,326		
5°	823	0° - 40°	897	55%	1	106	102	98	104	100	97	99	96	94	8.0	13.0	14.2	45°	65,464		
15°	774	0° - 60°	1,379	85%	2	94	88	82	92	86	81	88	84	80	10.0	8.3	17.8	55°	53,000		
25°	667	0° - 90°	1,627	100%	3	84	76	70	82	75	70	79	73	68	12.0	5.8	21.3	65°	44,140		
35°	519	90° - 180°	0	0%	4	75	67	61	74	66	60	71	65	60	14.0	4.2	24.9	75°	36,037		
45°	368	0° - 180°	1,627	100%	5	68	60	53	67	59	53	65	58	53	Beam Angle: 83.2°			85°	27,745		
55°	242				6	62	53	47	61	53	47	59	52	47	Field Angle: 147.3°						
65°	148				7	57	48	43	56	48	42	54	47	42							
75°	74				8	52	44	39	51	44	38	50	43	38							
85°	19				9	48	40	35	48	40	35	46	40	35							
90°	0				10	45	37	32	44	37	32	43	37	32							

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



CP Summary	Zonal Lumen Summary				Coefficients of Utilization												Cone of Light			Luminance (cd/sq.m)	
	0°	Zone	Lumens	% Fixture	pf	80%				20%				Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance				
						pc	50%	30%	10%	50%	30%	10%	50%					30%	10%		
0°	840	0° - 30°	598	36%	0	119	119	119	116	116	116	111	111	111	6.0	23.3	10.7	0°	105,674		
5°	834	0° - 40°	908	55%	1	106	102	98	104	100	97	99	96	94	8.0	13.1	14.2	45°	66,310		
15°	784	0° - 60°	1,397	85%	2	94	88	82	92	86	81	88	84	80	10.0	8.4	17.8	55°	53,685		
25°	676	0° - 90°	1,648	100%	3	84	76	70	82	75	70	79	73	68	12.0	5.8	21.3	65°	44,710		
35°	525	90° - 180°	0	0%	4	75	67	61	74	66	60	71	65	60	14.0	4.3	24.9	75°	36,503		
45°	373	0° - 180°	1,648	100%	5	68	60	53	67	59	53	65	58	53	Beam Angle: 83.2°			85°	28,104		
55°	245				6	62	53	47	61	53	47	59	52	47	Field Angle: 147.3°						
65°	150				7	57	48	43	56	48	42	54	47	42							
75°	75				8	52	44	39	51	44	38	50	43	38							
85°	19				9	48	40	35	48	40	35	46	40	35							
90°	0				10	45	37	32	44	37	32	43	37	32							

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



CP Summary	Zonal Lumen Summary				Coefficients of Utilization												Cone of Light			Luminance (cd/sq.m)	
	0°	Zone	Lumens	% Fixture	pf	80%				20%				Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance				
						pc	50%	30%	10%	50%	30%	10%	50%					30%	10%		
0°	854	0° - 30°	608	36%	0	119	119	119	116	116	116	111	111	111	6.0	23.7	10.7	0°	107,536		
5°	849	0° - 40°	924	55%	1	106	102	98	104	100	97	99	96	94	8.0	13.4	14.2	45°	67,478		
15°	798	0° - 60°	1,422	85%	2	94	88	82	92	86	81	88	84	80	10.0	8.5	17.8	55°	54,631		
25°	688	0° - 90°	1,677	100%	3	84	76	70	82	75	70	79	73	68	12.0	5.9	21.3	65°	45,498		
35°	535	90° - 180°	0	0%	4	75	67	61	74	66	60	71	65	60	14.0	4.4	24.9	75°	37,146		
45°	379	0° - 180°	1,677	100%	5	68	60	53	67	59	53	65	58	53	Beam Angle: 83.2°			85°	28,599		
55°	249				6	62	53	47	61	53	47	59	52	47	Field Angle: 147.3°						
65°	153				7	57	48	43	56	48	42	54	47	42							
75°	76				8	52	44	39	51	44	38	50	43	38							
85°	20				9	48	40	35	48	40	35	46	40	35							
90°	0				10	45	37	32	44	37	32	43	37	32							





# Juno Wafer™ LED Downlight Series

## 4", 6" & 8" LED Ultra-Thin Wafer

### 5CCT Switchable White Downlight



### PHOTOMETRICS

Distribution Curve

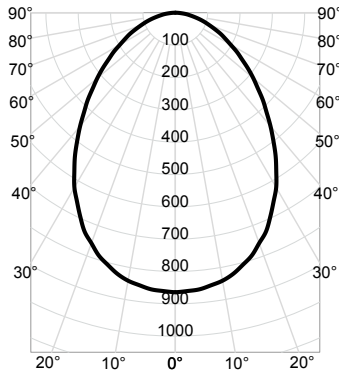
Distribution Data

Output Data

Coefficient of Utilization

Illuminance Data at 30" Above Floor for a Single Luminaire

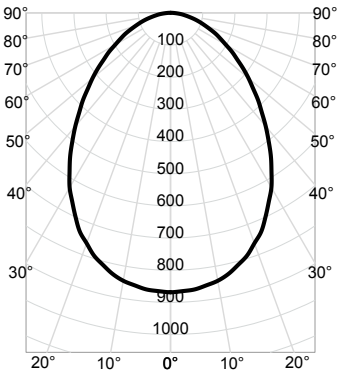
**WF8 SWW5 90CRI 4000K** Input Watts: 19.7, Delivered Lumens: 1696, LPW: 86.1, S/MH: 1.09, Test No: ISF 202630P14



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance			
0°	0° - 30°	615	36%	0	119	119	119	116	116	116	111	111	111	6.0	24.0	10.7	0°	108,755		
5°	0° - 40°	935	55%	1	106	102	98	104	100	97	99	96	94	8.0	13.5	14.2	45°	68,244		
15°	0° - 60°	1,438	85%	2	94	88	82	92	86	81	88	84	80	10.0	8.6	17.8	55°	55,250		
25°	0° - 90°	1,696	100%	3	84	76	70	82	75	70	79	73	68	12.0	6.0	21.3	65°	46,014		
35°	90° - 180°	0	0%	4	75	67	61	74	66	60	71	65	60	14.0	4.4	24.9	75°	37,567		
45°	0° - 180°	1,696	100%	5	68	60	53	67	59	53	65	58	53				85°	28,923		
55°		252		6	62	53	47	61	53	47	59	52	47							
65°		155		7	57	48	43	56	48	42	54	47	42							
75°		77		8	52	44	39	51	44	38	50	43	38							
85°		20		9	48	40	35	48	40	35	46	40	35							
90°		0		10	45	37	32	44	37	32	43	37	32							

Beam Angle: 83.2°  
Field Angle: 147.3°

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



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance			
0°	0° - 30°	618	36%	0	119	119	119	116	116	116	111	111	111	6.0	24.1	10.7	0°	109,333		
5°	0° - 40°	940	55%	1	106	102	98	104	100	97	99	96	94	8.0	13.6	14.2	45°	68,606		
15°	0° - 60°	1,445	85%	2	94	88	82	92	86	81	88	84	80	10.0	8.7	17.8	55°	55,544		
25°	0° - 90°	1,705	100%	3	84	76	70	82	75	70	79	73	68	12.0	6.0	21.3	65°	46,258		
35°	90° - 180°	0	0%	4	75	67	61	74	66	60	71	65	60	14.0	4.4	24.9	75°	37,767		
45°	0° - 180°	1,705	100%	5	68	60	53	67	59	53	65	58	53				85°	29,077		
55°		253		6	62	53	47	61	53	47	59	52	47							
65°		155		7	57	48	43	56	48	42	54	47	42							
75°		78		8	52	44	39	51	44	38	50	43	38							
85°		20		9	48	40	35	48	40	35	46	40	35							
90°		0		10	45	37	32	44	37	32	43	37	32							

Beam Angle: 83.2°  
Field Angle: 147.3°