

# JUNO®

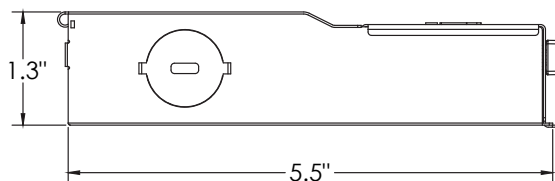
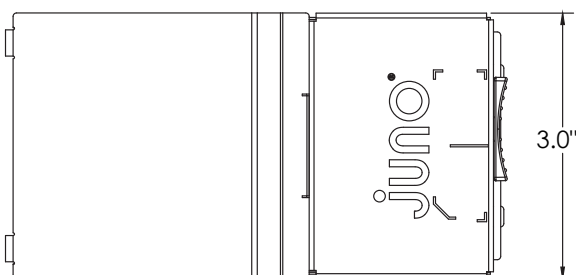
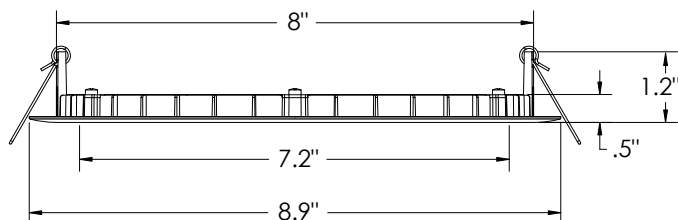
## Juno Wafer™ LED Downlight Series

8" LED Ultra-Thin Wafer Switchable Downlight  
1640 Lumen

### WF8 SWW5 Series



### Dimensions



Project:
Fixture Type:
Location:
Contact/Phone:

### Product Features

The 8" round smooth with 5CCT Switchable White technology provides 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, hotels, 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	1640L 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

Aperture:	7.2"
Ceiling opening:	8.25"
Overlap trim:	8.9"
Height:	1.2"



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## ORDERING INFORMATION

### Downlight

Example: WF8 SWW5 90CRI MW M6

Series	Trim Style	Color Temperature	Rendering Index	Finish
WF8 8" Wafer-Thin LED Downlight	(BLANK) Round	SWW5 Switchable White (2700K, 3000K, 3500K, 4000K, 5000K)	90CRI 90+ CRI	MW Matte White

### Accessories: Order as separate catalog number.

Series	
WF8643 PAN U	Universal New Construction Pan
WF8GR MW JZ	8" Goof Ring
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



WF8643 UNIVERSAL  
New Construction Pan



Remodel Joist Bar



WFEXC6  
Cable

## PERFORMANCE DATA

	WF8 SWW5
Input Voltage	120V
Input Power Typical	19W (+/-5%)
Frequency	60 Hz
EMI/RFI	FCC Title 47, Part 15 Class B (consumer)
Minimum Starting Temp	-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)	
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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## 8" LED Ultra-Thin Wafer Switchable Downlight

### 1640 Lumen



## 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. 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 8 ¼ inches for this product. 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 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 1640 lumens while using 19W • Replaces 100W incandescent.

### 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/CustomResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomResources/Terms_and_conditions.aspx)

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Distribution Curve

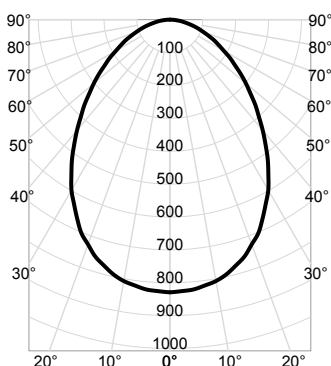
Distribution Data

Output Data

Coefficient of Utilization

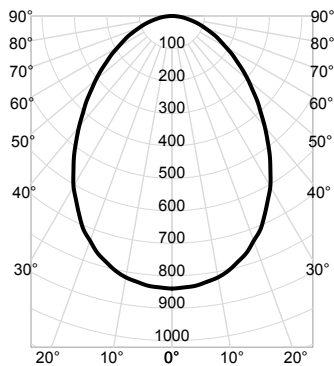
Illuminance Data at 30" Above Floor for a Single Luminaire

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



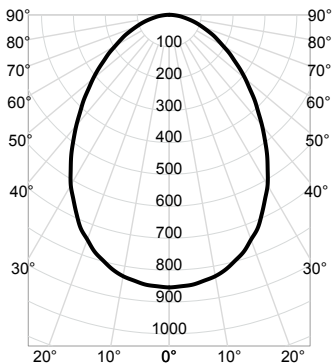
CP Summary				Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf	80%		20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance								
				pc	50%	30%	10%	50%	30%	10%				0°	45°							
0°	829	0° - 30°	590	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														Field Angle: 147.3°							
65°	148																					
75°	74																					
85°	19																					
90°	0																					

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%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance								
				pc	50%	30%	10%	50%	30%	10%				0°	45°							
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														Field Angle: 147.3°							
65°	150																					
75°	75																					
85°	19																					
90°	0																					

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%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance								
				pc	50%	30%	10%	50%	30%	10%				0°	45°							
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														Field Angle: 147.3°							
65°	153																					
75°	76																					
85°	20																					
90°	0																					



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## 8" LED Ultra-Thin Wafer Switchable Downlight

1640 Lumen



### PHOTOMETRICS

Distribution Curve

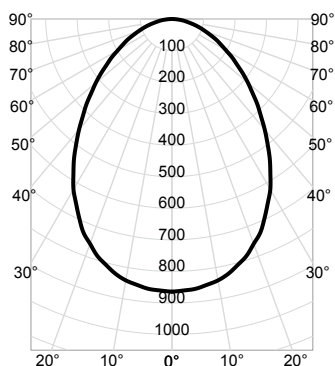
Distribution Data

Output Data

Coefficient of Utilization

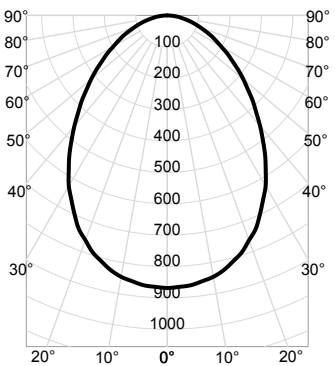
Illuminance Data at 30" Above Floor for a Single Luminaire

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	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%	10%							
0°	864	0° - 30°	615	36%	0	119	119	119	116	116	116	111	111	111	6.0	24.0	10.7	0°	108,755	
5°	858	0° - 40°	935	55%	1	106	102	98	104	100	97	99	96	94	8.0	13.5	14.2	45°	68,244	
15°	807	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°	695	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°	541	90° - 180°	0	0%	4	75	67	61	74	66	60	71	65	60	14.0	4.4	24.9	75°	37,567	
45°	383	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	Beam Angle: 83.2°					
65°	155				7	57	48	43	56	48	42	54	47	42	Field Angle: 147.3°					
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						

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	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%	10%							
0°	869	0° - 30°	618	36%	0	119	119	119	116	116	116	111	111	111	6.0	24.1	10.7	0°	109,333	
5°	863	0° - 40°	940	55%	1	106	102	98	104	100	97	99	96	94	8.0	13.6	14.2	45°	68,606	
15°	811	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°	699	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°	544	90° - 180°	0	0%	4	75	67	61	74	66	60	71	65	60	14.0	4.4	24.9	75°	37,767	
45°	385	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	Beam Angle: 83.2°					
65°	155				7	57	48	43	56	48	42	54	47	42	Field Angle: 147.3°					
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						

# JUNO®

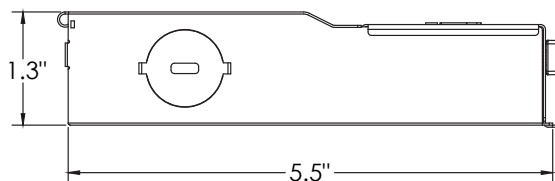
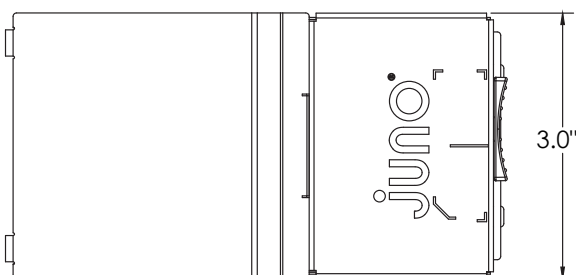
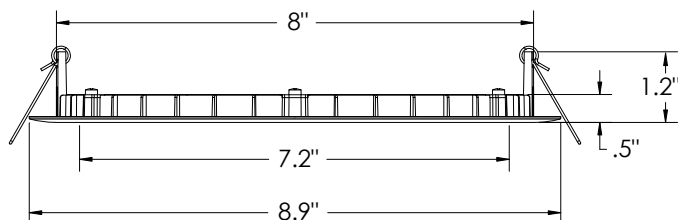
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8" LED Ultra-Thin Wafer Switchable Downlight  
1640 Lumen

### WF8 SWW5 Series



### Dimensions



Project:
Fixture Type:
Location:
Contact/Phone:

### Product Features

The 8" round smooth with 5CCT Switchable White technology provides 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
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### Applications

- Residential and light commercial applications including multi-family, hotels, assisted living, dormitories and other multi-level construction
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- Wet rated and airtight: perfect for showers, bathrooms, and outdoor soffits

### Performance

Delivered Lumens	1640L 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

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1640 Lumen



## ORDERING INFORMATION

### Downlight

Example: WF8 SWW5 90CRI MW M6

Series	Trim Style	Color Temperature	Rendering Index	Finish
WF8 8" Wafer-Thin LED Downlight	(BLANK) Round	SWW5 Switchable White (2700K, 3000K, 3500K, 4000K, 5000K)	90CRI 90+ CRI	MW Matte White

### Accessories: Order as separate catalog number.

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WF8643 PAN U	Universal New Construction Pan
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WF8643 UNIVERSAL  
New Construction Pan



Remodel Joist Bar



WFEXC6  
Cable

## PERFORMANCE DATA

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

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Watts	19
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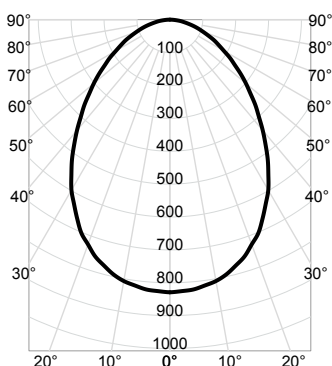
Distribution Data

Output Data

Coefficient of Utilization

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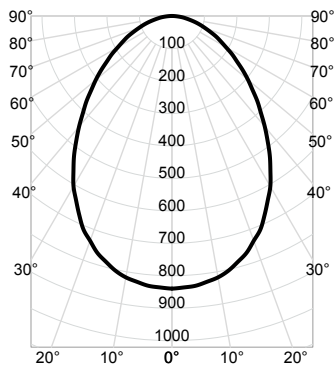
WF8 SWW5 90CRI \_ 2700K Input Watts: 19.7, Delivered Lumens: 1627, LPW: 82.6, S/MH: 1.09, Test No: ISF 202630P11



CP Summary				Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf	80%			20%			50%				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				85°	27,745			
55°	242				6	62	53	47	61	53	47	59	52	47								
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								

Beam Angle: 83.2°  
Field Angle: 147.3°

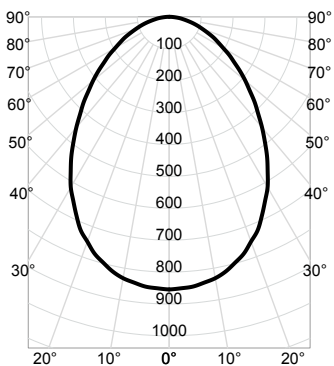
WF8 SWW5 90CRI \_ 3000K Input Watts: 19.7, Delivered Lumens: 1648, LPW: 83.7, S/MH: 1.09, Test No: ISF 202630P12



CP Summary				Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf	80%			20%			50%				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				85°	28,104			
55°	245				6	62	53	47	61	53	47	59	52	47								
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								

Beam Angle: 83.2°  
Field Angle: 147.3°

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%			50%				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				85°	28,599			
55°	249				6	62	53	47	61	53	47	59	52	47								
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								

Beam Angle: 83.2°  
Field Angle: 147.3°



# Juno Wafer™ LED Downlight Series

## 8" LED Ultra-Thin Wafer Switchable Downlight

### 1640 Lumen



### PHOTOMETRICS

Distribution Curve

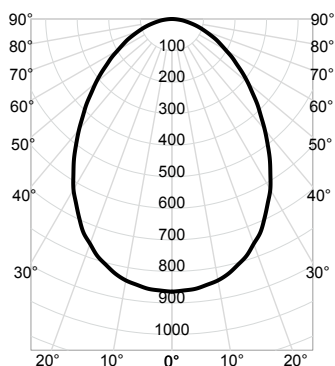
Distribution Data

Output Data

Coefficient of Utilization

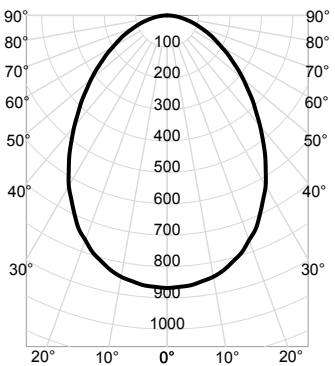
Illuminance Data at 30" Above Floor for a Single Luminaire

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	pf	pc	80%		20%		70%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance			
				50%	30%	10%	50%	30%	10%	50%	30%	10%	0°				45°	85°		
0°	864	0° - 30°	615	36%	0	119	119	119	116	116	116	111	111	111	6.0	24.0	10.7	0°	108,755	
5°	858	0° - 40°	935	55%	1	106	102	98	104	100	97	99	96	94	8.0	13.5	14.2	45°	68,244	
15°	807	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°	695	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°	541	90° - 180°	0	0%	4	75	67	61	74	66	60	71	65	60	14.0	4.4	24.9	75°	37,567	
45°	383	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	Beam Angle: 83.2°					
65°	155				7	57	48	43	56	48	42	54	47	42	Field Angle: 147.3°					
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						

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	pf	pc	80%		20%		70%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance			
				50%	30%	10%	50%	30%	10%	50%	30%	10%	0°				45°	85°		
0°	869	0° - 30°	618	36%	0	119	119	119	116	116	116	111	111	111	6.0	24.1	10.7	0°	109,333	
5°	863	0° - 40°	940	55%	1	106	102	98	104	100	97	99	96	94	8.0	13.6	14.2	45°	68,606	
15°	811	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°	699	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°	544	90° - 180°	0	0%	4	75	67	61	74	66	60	71	65	60	14.0	4.4	24.9	75°	37,767	
45°	385	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	Beam Angle: 83.2°					
65°	155				7	57	48	43	56	48	42	54	47	42	Field Angle: 147.3°					
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						