

Juno®

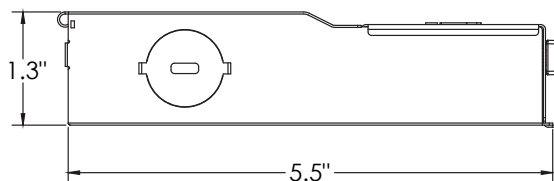
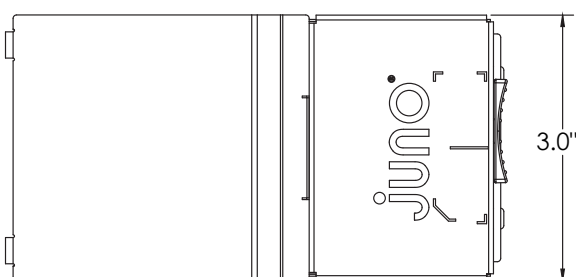
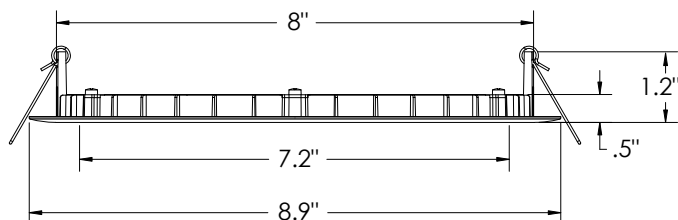
Juno Wafer™ LED Downlight Series

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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1640 Lumen



ORDERING INFORMATION

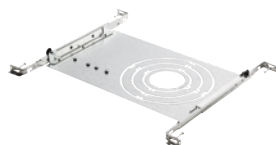
Downlight

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.

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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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 1/4 inches for this product. 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 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/CustomerResources/Terms_and_conditions.aspx

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PHOTOMETRICS

Distribution Curve

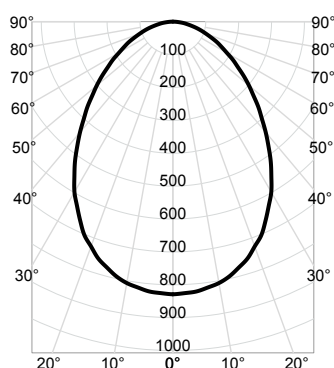
Distribution Data

Output Data

Coefficient of Utilization

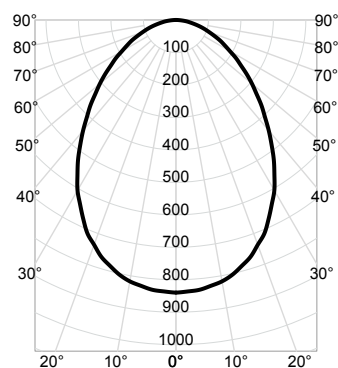
Illuminance Data at 30" Above
Floor for a Single Luminaire

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



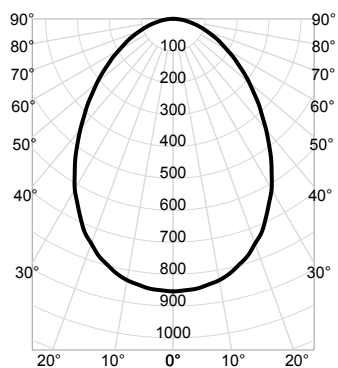
CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
						pf	80%				20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance		
0°	Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%							
0°	829	0° - 30°	590	36%	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° Field Angle: 147.3°				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						

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)			
						pf	80%				20%				50%				Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
0°		Zone	Lumens	% Fixture	pc	pw	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° Field Angle: 147.3°			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								

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)	
						pf					20%						Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
						pc	80%		70%		50%									
0°		Zone	Lumens	% Fixture	pw	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° Field Angle: 147.3°				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						



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1640 Lumen



PHOTOMETRICS

Distribution Curve

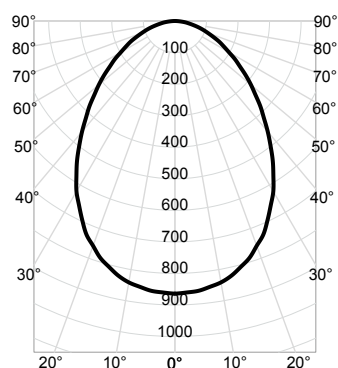
Distribution Data

Output Data

Coefficient of Utilization

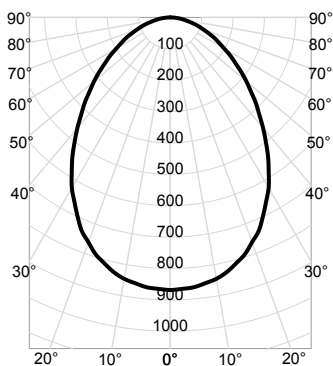
Illuminance Data at 30" Above
Floor for a Single Luminaire

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)		
						pf					20%						Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance	
						pc	80%				70%		50%								
	0°	Zone	Lumens	% Fixture	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	94	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	11	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	11	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	11	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	11	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	11	Beam Angle: 83.2° Field Angle: 147.3°				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							

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	80%				20%				Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance		
					pc														
					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	Beam Angle: 83.2° Field Angle: 147.3°			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					



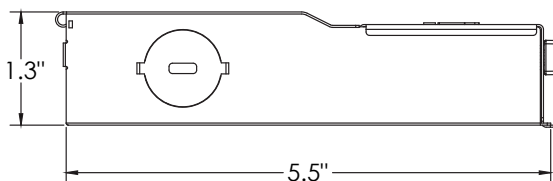
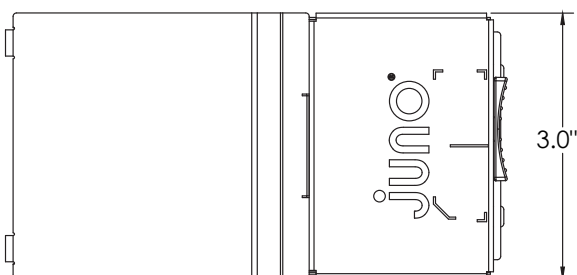
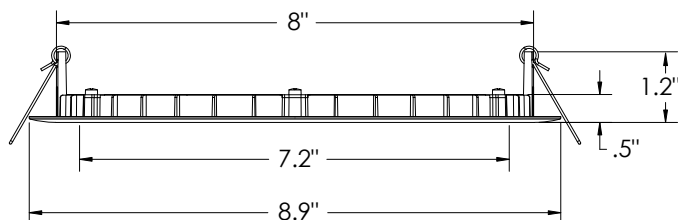
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1640 Lumen

WF8 SWW5 Series



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- 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
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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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Ceiling opening:	8.25"
Overlap trim:	8.9"
Height:	1.2"



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1640 Lumen



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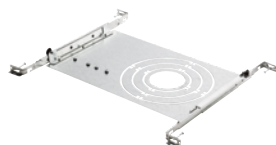
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WF8643 UNIVERSAL
New Construction Pan



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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1700 lumens 89 lumens per watt

Watts	19
Color Accuracy (CRI) Précision des couleurs (CRI)	90



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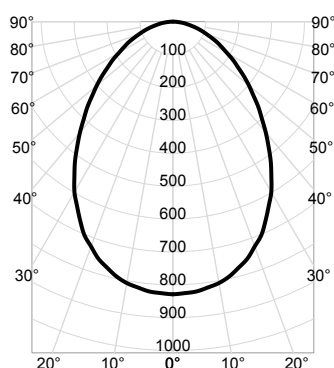
Distribution Data

Output Data

Coefficient of Utilization

Illuminance Data at 30" Above
Floor for a Single Luminaire

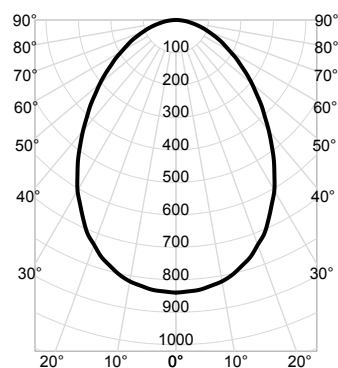
WF8 SWW5 90CRI _ 2700K Input Watts: 19.7, Delivered Lumens: 1627, LPW: 82.6, S/MH: 1.09, Test No: ISF 202630P11



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)		
						pf					20%						Mounting Height	Initial FC	Beam Diameter		
0°		Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%		Center Beam		Average Luminance			
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° Field Angle: 147.3°					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°

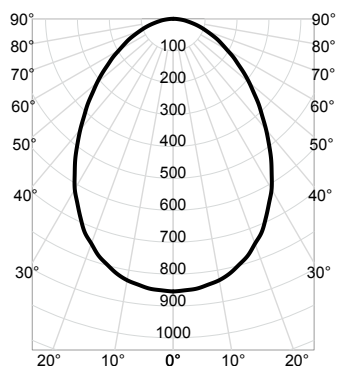
WF8 SWW5 90CRI _ 3000K Input Watts: 19.7, Delivered Lumens: 1648, LPW: 83.7, S/MH: 1.09, Test No: ISF 202630P12



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
																Mounting Height	Initial FC Center Beam	Beam Diameter		
0°	Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%				Average Luminance			
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° Field Angle: 147.3°				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)		
						pf					20%						Mounting Height	Initial FC Center Beam	Beam Diameter		Average Luminance
						pc	80%				70%		50%								
	0°	Zone	Lumens	% Fixture	pw	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° Field Angle: 147.3°			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

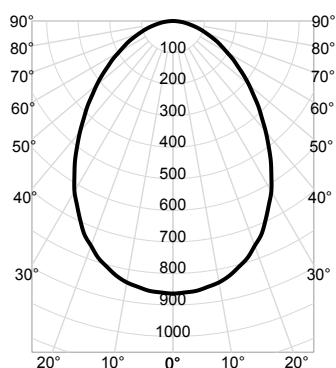
Distribution Data

Output Data

Coefficient of Utilization

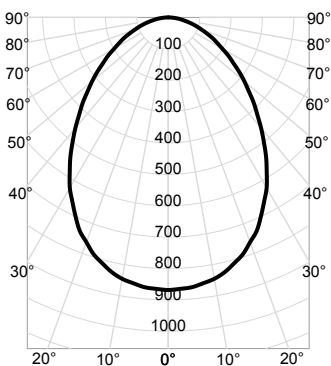
Illuminance Data at 30" Above
Floor for a Single Luminaire

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)		
						pf					20%						Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance	
						pc	80%				70%		50%								
	0°	Zone	Lumens	% Fixture	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	94	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	11	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	11	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	11	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	11	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	11				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	80%				20%				Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance		
					pc														
					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	Beam Angle: 83.2° Field Angle: 147.3°			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					