



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



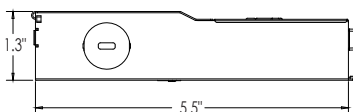
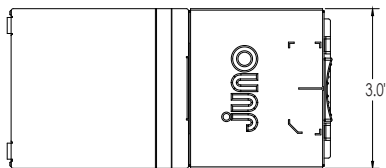
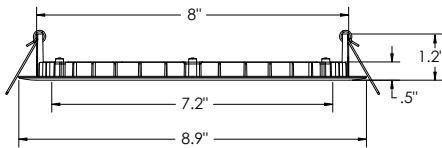
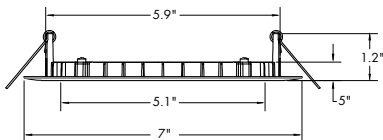
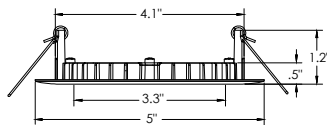
Oil Rubbed Bronze



Matte Black



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% with triac (120v)

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
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 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



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

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

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)	
2700K soft white blanc doux	
665 lumens 74 lumens per watt	
3000K warm white blanc chaud	
670 lumens 74 lumens per watt	
3500K neutral white blanc neutre	
680 lumens 76 lumens per watt	
4000K cool white blanc froid	
685 lumens 76 lumens per watt	
5000K daylight blanc neutre	
690 lumens 76 lumens per watt	
Watts	9
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	
955 lumens 73 lumens per watt	
3000K warm white blanc chaud	
970 lumens 74 lumens per watt	
3500K neutral white blanc neutre	
990 lumens 76 lumens per watt	
4000K cool white blanc froid	
1000 lumens 76 lumens per watt	
5000K daylight blanc neutre	
1005 lumens 77 lumens per watt	
Watts	13
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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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 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 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, 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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PHOTOMETRICS

Distribution Curve

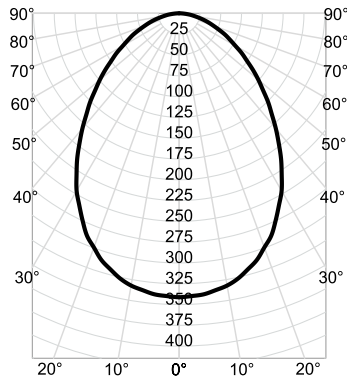
Distribution Data

Output Data

Coefficient of Utilization

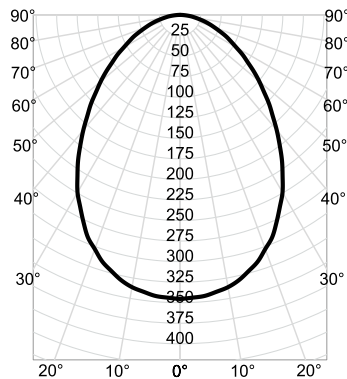
Illuminance Data at 30" Above Floor for a Single Luminaire

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



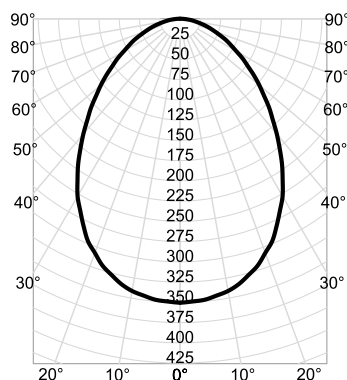
CP Summary		Zonal Lumen Summary				Coefficients of Utilization												Cone of Light			Luminance (cd/sq.m)	
						pf				20%				50%				Mounting Height	Initial FC Center Beam	Beam Diameter		
						pc	80%			70%			30%			Average Luminance						
0°		Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%								
0°	341	0° - 30°	243	36%	0	119	119	119	116	116	116	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	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	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	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	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	Beam Angle: 83.2° Field Angle: 147.3°				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								

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)	
						pf				20%				50%				Mounting Height	Initial FC Center Beam	Beam Diameter		
						pc	80%			70%			30%			Average Luminance						
0°		Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%								
0°	345	0° - 30°	246	36%	0	119	119	119	116	116	116	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	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	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	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	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	Beam Angle: 83.2° Field Angle: 147.3°				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								

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)		
						pf					20%				50%				Mounting Height	Initial FC Center Beam	Beam Diameter		
0°		Zone	Lumens	% Fixture	pc	50%	30%	10%	50%	30%	10%	50%	30%	10%			Average Luminance						
0°	350	0° - 30°	249	36%	0	119	119	119	116	116	116	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	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	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	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	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	Beam Angle: 83.2° Field Angle: 147.3°			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					



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5CCT Switchable White Downlight



PHOTOMETRICS

Distribution Curve

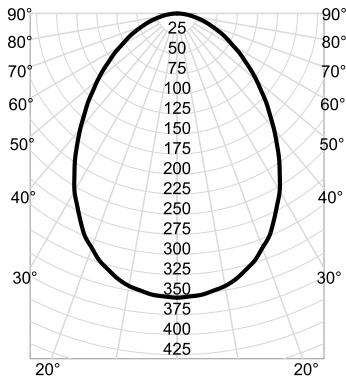
Distribution Data

Output Data

Coefficient of Utilization

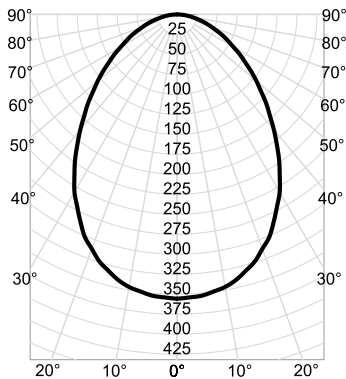
Illuminance Data at 30" Above Floor for a Single Luminaire

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)	
						pf									Mounting Height	Initial FC	Beam Diameter			
0°		Zone	Lumens	% Fixture	pw	50%	80%	10%	50%	30%	10%	50%	30%	10%		Center Beam		Average Luminance		
0°	354	0° - 30°	252	36%	0	119	119	119	116	116	116	111	111	111	6.0	9.8	10.7	0°	44,555	
5°	352	0° - 40°	383	55%	1	106	102	98	104	100	97	99	96	94	8.0	5.5	14.2	45°	27,958	
15°	331	0° - 60°	589	85%	2	94	88	82	92	86	81	88	84	80	10.0	3.5	17.8	55°	22,635	
25°	285	0° - 90°	695	100%	3	84	76	70	82	75	70	79	73	68	12.0	2.5	21.3	65°	18,851	
35°	222	90° - 180°	0	0%	4	75	67	61	74	66	60	71	65	60	14.0	1.8	24.9	75°	15,391	
45°	157	0° - 180°	695	100%	5	68	60	53	67	59	53	65	58	53	Beam Angle: 83.2° Field Angle: 147.3°				85°	11,849
55°	103				6	62	53	47	61	53	47	59	52	47						
65°	63				7	57	48	43	56	48	42	54	47	42						
75°	32				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						

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)	
						pf									Mounting Height	Initial FC	Beam Diameter			
0°		Zone	Lumens	% Fixture	pc	80%	10%	20%	70%	10%	50%	30%	10%		Center Beam			Average Luminance		
0°	356	0° - 30°	253	36%	0	119	119	119	116	116	116	111	111	111	6.0	9.9	10.7	0°	44,748	
5°	353	0° - 40°	385	55%	1	106	102	98	104	100	97	99	96	94	8.0	5.6	14.2	45°	28,079	
15°	332	0° - 60°	592	85%	2	94	88	82	92	86	81	88	84	80	10.0	3.6	17.8	55°	22,733	
25°	286	0° - 90°	698	100%	3	84	76	70	82	75	70	79	73	68	12.0	2.5	21.3	65°	18,933	
35°	223	90° - 180°	0	0%	4	75	67	61	74	66	60	71	65	60	14.0	1.8	24.9	75°	15,457	
45°	158	0° - 180°	698	100%	5	68	60	53	67	59	53	65	58	53	Beam Angle: 83.2° Field Angle: 147.3°				85°	11,901
55°	104				6	62	53	47	61	53	47	59	52	47						
65°	64				7	57	48	43	56	48	42	54	47	42						
75°	32				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						



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5CCT Switchable White Downlight



PHOTOMETRICS

Distribution Curve

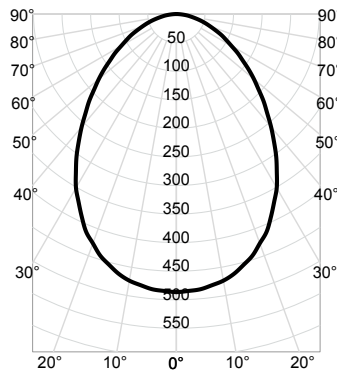
Distribution Data

Output Data

Coefficient of Utilization

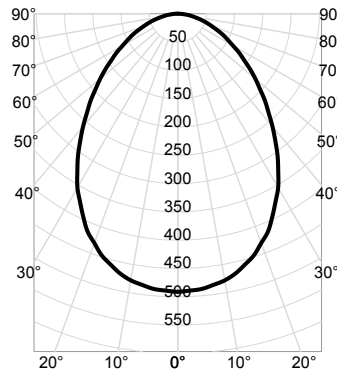
Illuminance Data at 30" Above
Floor for a Single Luminaire

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



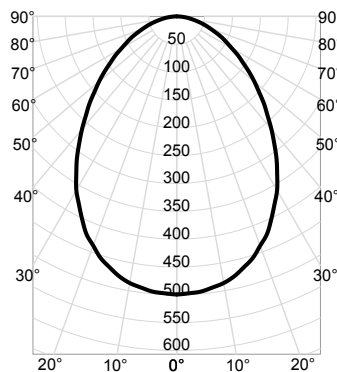
CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
						pf					20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance		
0°		Zone	Lumens	% Fixture	pc	50%	30%	10%	50%	30%	10%	50%	30%	10%						
0°	487	0° - 30°	346	36%	0	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	Beam Angle: 83.2° Field Angle: 147.3°			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						

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)	
						pf					20%						Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
0°		Zone	Lumens	% Fixture	pc	50%	30%	10%	50%	30%	10%	50%	30%	10%						
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	Beam Angle: 83.2° Field Angle: 147.3°					
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						

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)	
						pf					20%						Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
0°		Zone	Lumens	% Fixture	pc	50%	30%	10%	50%	30%	10%	50%	30%	10%						
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	Beam Angle: 83.2° Field Angle: 147.3°			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						



Juno Wafer™ LED Downlight Series

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



PHOTOMETRICS

Distribution Curve

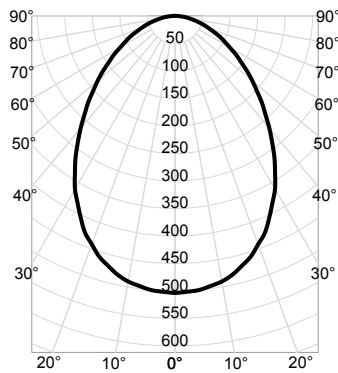
Distribution Data

Output Data

Coefficient of Utilization

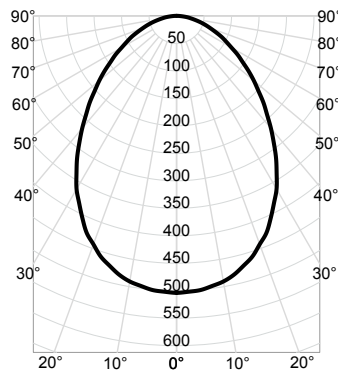
Illuminance Data at 30" Above
Floor for a Single Luminaire

WF6 SWW5 90CRI 4000K Input Watts: 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)	
					pf		80%		20%		50%		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°	504	0° - 30°	358	36%	0	119	119	119	116	116	116	111	111	111	6.0	14.0	10.7	0°
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	Beam Angle: 83.2° Field Angle: 147.3°			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					

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)	
					pf		80%		20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter				
	pc																		
	0°	Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%				Average Luminance	
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	Beam Angle: 83.2° Field Angle: 147.3°				
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					



Juno Wafer™ LED Downlight Series

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



PHOTOMETRICS

Distribution Curve

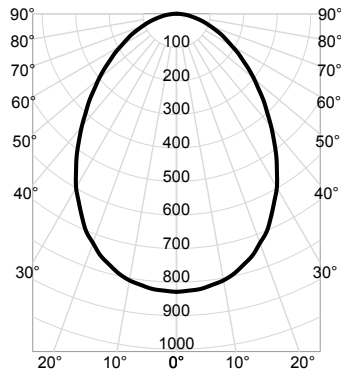
Distribution Data

Output Data

Coefficient of Utilization

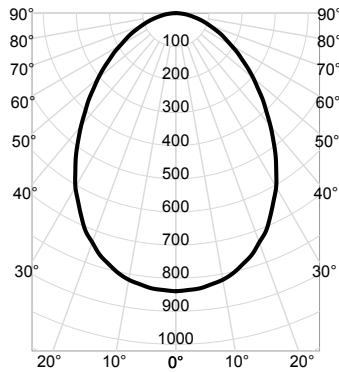
Illuminance Data at 30" Above
Floor for a Single Luminaire

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



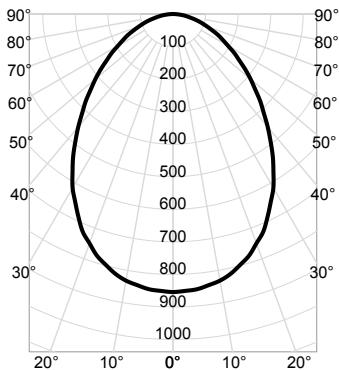
CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
						pf					20%				Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance		
						pc	80%		70%		50%									
0°	Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%							
0°	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					20%								Mounting Height	Initial FC Center Beam	Beam Diameter		
						pc	80%				70%				50%							Average Luminance	
	0°	Zone	Lumens	% Fixture	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					85°	28,599	
55°	249					6	62	53	47	61	53	47	59	52	47		Beam Angle: 83.2°					
65°	153					7	57	48	43	56	48	42	54	47	42		Field Angle: 147.3°					
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 Switchable Downlight
5CCT Switchable White Downlight



PHOTOMETRICS

Distribution Curve

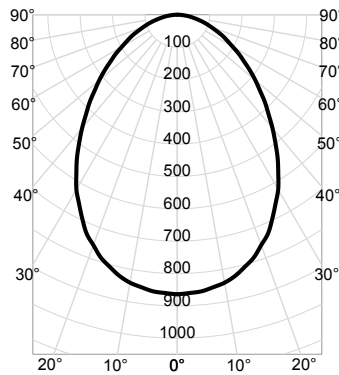
Distribution Data

Output Data

Coefficient of Utilization

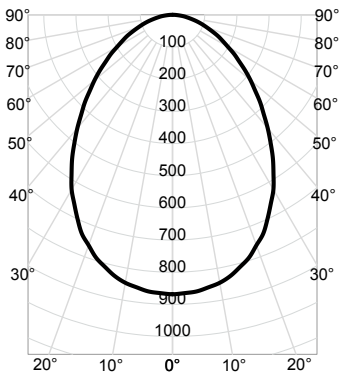
Illuminance Data at 30" Above
Floor for a Single Luminaire

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



CP Summary	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°	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° Field Angle: 147.3°						
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)	
						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%	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° Field Angle: 147.3°							
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								



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



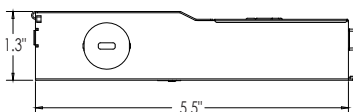
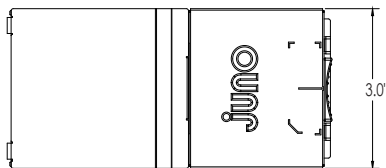
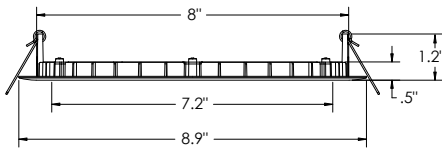
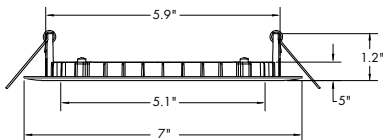
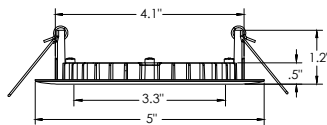
Oil Rubbed Bronze



Matte Black



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% with triac (120v)

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"



Juno Wafer™ LED Downlight Series

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 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



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

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

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)	
2700K soft white blanc doux	
665 lumens 74 lumens per watt	
3000K warm white blanc chaud	
670 lumens 74 lumens per watt	
3500K neutral white blanc neutre	
680 lumens 76 lumens per watt	
4000K cool white blanc froid	
685 lumens 76 lumens per watt	
5000K daylight blanc neutre	
690 lumens 76 lumens per watt	
Watts	9
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	
955 lumens 73 lumens per watt	
3000K warm white blanc chaud	
970 lumens 74 lumens per watt	
3500K neutral white blanc neutre	
990 lumens 76 lumens per watt	
4000K cool white blanc froid	
1000 lumens 76 lumens per watt	
5000K daylight blanc neutre	
1005 lumens 77 lumens per watt	
Watts	13
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



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 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 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 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, 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.



Juno Wafer™ LED Downlight Series

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



PHOTOMETRICS

Distribution Curve

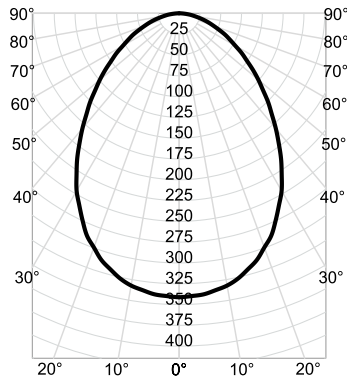
Distribution Data

Output Data

Coefficient of Utilization

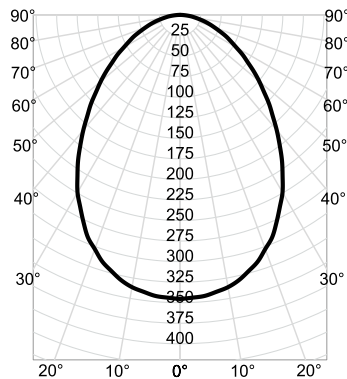
Illuminance Data at 30" Above Floor for a Single Luminaire

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



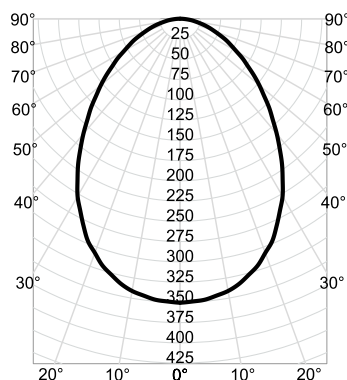
CP Summary		Zonal Lumen Summary				Coefficients of Utilization												Cone of Light			Luminance (cd/sq.m)		
						pf				20%				50%				Mounting Height	Initial FC Center Beam	Beam Diameter			
						pc				80%				70%							Average Luminance		
0°		Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%						
0°	341	0° - 30°	243	36%	0	119	119	119	116	116	116	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				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				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				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				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							85°	11,422	
55°	99				6	62	53	47	61	53	47	59	52	47				Beam Angle: 83.2° Field Angle: 147.3°					
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									

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)	
						pf				20%				50%				Mounting Height	Initial FC Center Beam	Beam Diameter		
						pc	80%	30%	10%	50%	30%	10%	50%	30%	10%	Average Luminance						
0°	345	Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%					
0°	345	0° - 30°	246	36%	0	119	119	119	116	116	116	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	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	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	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	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	Beam Angle: 83.2° Field Angle: 147.3°			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								

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)		
						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°	350	0° - 30°	249	36%	0	119	119	119	116	116	116	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	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	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	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	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	Beam Angle: 83.2° Field Angle: 147.3°				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							



Juno Wafer™ LED Downlight Series

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



PHOTOMETRICS

Distribution Curve

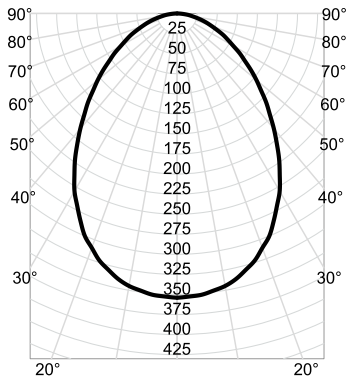
Distribution Data

Output Data

Coefficient of Utilization

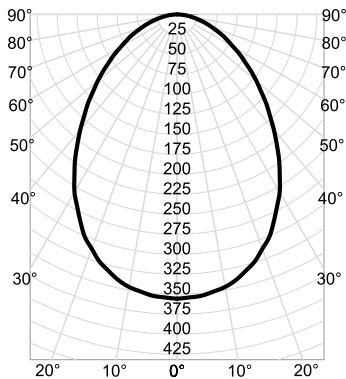
Illuminance Data at 30" Above Floor for a Single Luminaire

WF4 SWW5 90CRI 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)	
						pf									Mounting Height	Initial FC	Beam Diameter			
0°		Zone	Lumens	% Fixture	pw	50%	80%	10%	50%	30%	10%	50%	30%	10%		Center Beam		Average Luminance		
0°	354	0° - 30°	252	36%	0	119	119	119	116	116	116	111	111	111	6.0	9.8	10.7	0°	44,555	
5°	352	0° - 40°	383	55%	1	106	102	98	104	100	97	99	96	94	8.0	5.5	14.2	45°	27,958	
15°	331	0° - 60°	589	85%	2	94	88	82	92	86	81	88	84	80	10.0	3.5	17.8	55°	22,635	
25°	285	0° - 90°	695	100%	3	84	76	70	82	75	70	79	73	68	12.0	2.5	21.3	65°	18,851	
35°	222	90° - 180°	0	0%	4	75	67	61	74	66	60	71	65	60	14.0	1.8	24.9	75°	15,391	
45°	157	0° - 180°	695	100%	5	68	60	53	67	59	53	65	58	53	Beam Angle: 83.2° Field Angle: 147.3°				85°	11,849
55°	103				6	62	53	47	61	53	47	59	52	47						
65°	63				7	57	48	43	56	48	42	54	47	42						
75°	32				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						

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)	
						pf									Mounting Height	Initial FC	Beam Diameter			
0°		Zone	Lumens	% Fixture	pc	pw	50%	80%	10%	50%	30%	10%	50%	30%	10%	Center Beam		Average Luminance		
0°	356	0° - 30°	253	36%	0	119	119	119	116	116	116	111	111	111	6.0	9.9	10.7	0°	44,748	
5°	353	0° - 40°	385	55%	1	106	102	98	104	100	97	99	96	94	8.0	5.6	14.2	45°	28,079	
15°	332	0° - 60°	592	85%	2	94	88	82	92	86	81	88	84	80	10.0	3.6	17.8	55°	22,733	
25°	286	0° - 90°	698	100%	3	84	76	70	82	75	70	79	73	68	12.0	2.5	21.3	65°	18,933	
35°	223	90° - 180°	0	0%	4	75	67	61	74	66	60	71	65	60	14.0	1.8	24.9	75°	15,457	
45°	158	0° - 180°	698	100%	5	68	60	53	67	59	53	65	58	53	Beam Angle: 83.2° Field Angle: 147.3°				85°	11,901
55°	104				6	62	53	47	61	53	47	59	52	47						
65°	64				7	57	48	43	56	48	42	54	47	42						
75°	32				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						



Juno Wafer™ LED Downlight Series

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



PHOTOMETRICS

Distribution Curve

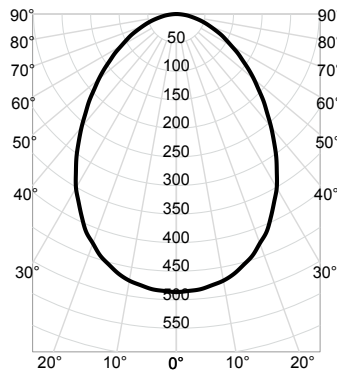
Distribution Data

Output Data

Coefficient of Utilization

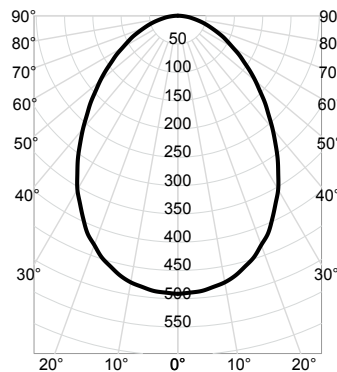
Illuminance Data at 30" Above
Floor for a Single Luminaire

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



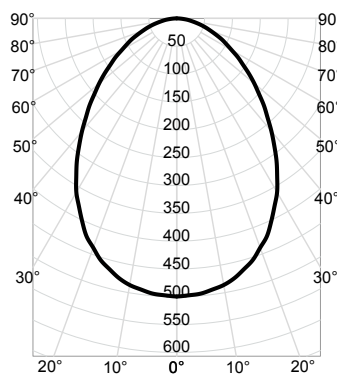
CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
						pf					20%						Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
						pc	80%		70%		50%									
0°		Zone	Lumens	% Fixture		pw	50%	30%	10%	50%	30%	10%	50%	30%	10%					
0°	487	0° - 30°	346	36%		0	119	119	119	116	116	111	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	Beam Angle: 83.2° Field Angle: 147.3°				
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					

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)	
						pf					20%						Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
0°		Zone	Lumens	% Fixture	pc	50%	30%	10%	50%	30%	10%	50%	30%	10%						
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	Beam Angle: 83.2° Field Angle: 147.3°					
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						

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)	
						pf											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°	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	Beam Angle: 83.2° Field Angle: 147.3°			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						



Juno Wafer™ LED Downlight Series

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



PHOTOMETRICS

Distribution Curve

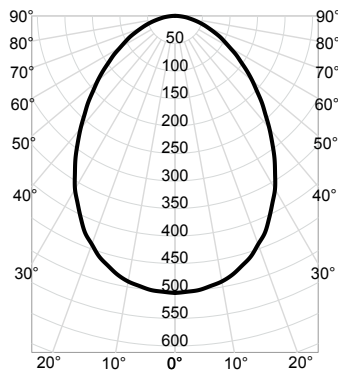
Distribution Data

Output Data

Coefficient of Utilization

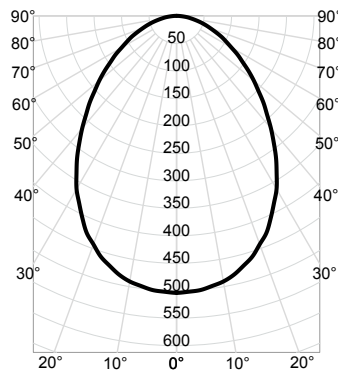
Illuminance Data at 30" Above
Floor for a Single Luminaire

WF6 SWW5 90CRI 4000K Input Watts: 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)	
					pf		80%		20%		50%		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°	504	0° - 30°	358	36%	0	119	119	119	116	116	116	111	111	111	6.0	14.0	10.7	0°
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	Beam Angle: 83.2° Field Angle: 147.3°			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					

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)	
					pf		80%		20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter				
	pc																		
	0°	Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%				Average Luminance	
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	Beam Angle: 83.2° Field Angle: 147.3°				
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					



Juno Wafer™ LED Downlight Series

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



PHOTOMETRICS

Distribution Curve

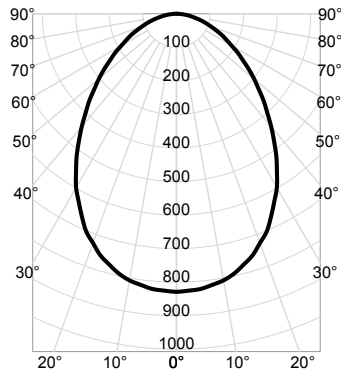
Distribution Data

Output Data

Coefficient of Utilization

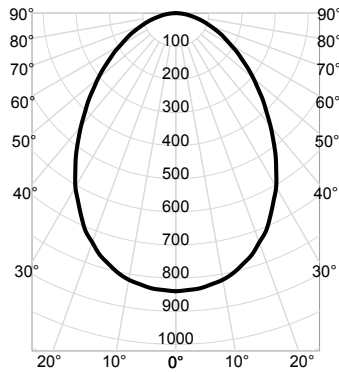
Illuminance Data at 30" Above
Floor for a Single Luminaire

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



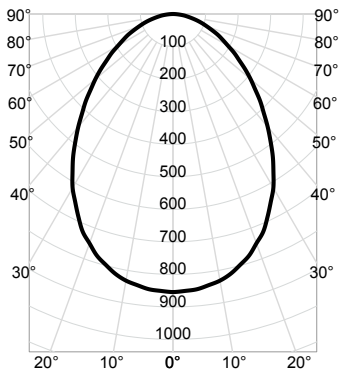
CP Summary		Zonal Lumen Summary				Coefficients of Utilization												Cone of Light			Luminance (cd/sq.m)	
						pf					20%				Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance				
						pc	80%				70%											
0°	Zone	Lumens	% Fixture		pw	50%	30%	10%	50%	30%	10%	50%	30%	10%								
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					20%								Mounting Height	Initial FC Center Beam	Beam Diameter		
						pc	80%				70%				50%							Average Luminance	
0°		Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%				0°	105,674	
0°	840	0° - 30°	598	36%	0	119	119	119	116	116	116	111	111	111	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	94	94	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	80	80	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	68	68	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	60	60	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	53	53	53				85°	28,104	
55°	245				6	62	53	47	61	53	47	59	52	47	47	47	47						
65°	150				7	57	48	43	56	48	42	54	47	42	42	42	42						
75°	75				8	52	44	39	51	44	38	50	43	38	38	38	38						
85°	19				9	48	40	35	48	40	35	46	40	35	35	35	35						
90°	0				10	45	37	32	44	37	32	43	37	32	32	32	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%	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

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



PHOTOMETRICS

Distribution Curve

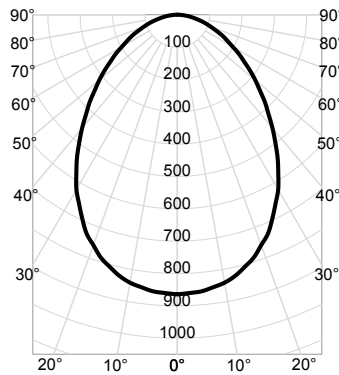
Distribution Data

Output Data

Coefficient of Utilization

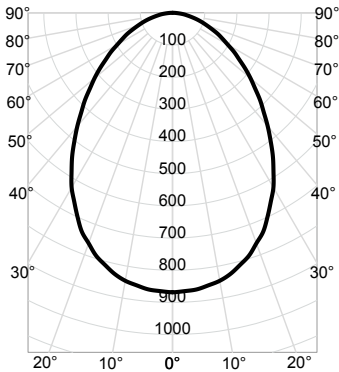
Illuminance Data at 30" Above
Floor for a Single Luminaire

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



CP Summary	Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
					pf		80%		20%		70%		50%		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°	864	0° - 30°	615	36%	0	119	119	119	116	116	116	111	111	111	6.0	24.0	10.7	0°
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	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)	
					pf		80%		20%		70%		50%		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°	869	0° - 30°	618	36%	0	119	119	119	116	116	116	111	111	111	6.0	24.1	10.7	0°
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° Field Angle: 147.3°				
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					