

Catalog Number
Notes
Type

FEATURES & SPECIFICATIONS

INTENDED USE — The 8" Wafer™ LED Downlight with Switchable White provides high-quality light output and efficiency featuring a switch for easy color temperature adjustment - while eliminating the need for recessed housings. The innovative, slim design allows for easy retrofit, remodel or new construction installation from below the ceiling. The Wafer LED downlight is wet location listed – making it ideal for use in a breadth of outdoor residential, hospitality, commercial and multifamily applications.

CONSTRUCTION — Aluminum die cast outer frame. Durable, powder coat paint to prevent rust. FT6 plenum rated cable connector to connect from module to remote driver box. IC rated driver with convenience and value of two remote selectable color temperature options, each with a setting choice to chose either 2700K, 3000K, and 3500K or 3000K, 4000K, and 5000K using the switch. 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.

INSTALLATION — Ideal for shallow ceiling plenum; no housing required. Steel spring clip for easy installation. 8" cut out template is provided to ensure the correct size hole is cut into ceiling for proper installation of the trim. Size of hole should not exceed 8 1/4 inches for this product. Suitable for installation in t-grid and drop ceiling applications. 2" plenum space required for installation of the remote driver box.

OPTICS — Edge-lit LED technology uses light guided plate to distribute light. Polycarbonate lens provides even illumination throughout the space.

ELECTRICAL — Connect directly to 120V power supply via provided UL recognized driver. High efficient driver with power factor > 0.9. Ambient operating temperature: -40°F (-40°C) to +104°F (+40°C). Dimming down to 10% with most standard incandescent dimers (see list of approved dimmers). Replaces 100W incandescent.

LISTINGS — CSA certified to US and Canadian safety standards. ENERGY STAR® certified product. Wet location listed. Air Tight certified in accordance with ASTM E283-2004. Can be used to comply with California Title 24 Part 6 High Efficacy LED light Source Requirements.

WARRANTY — 5-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

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.

Wafer™ LED Recessed Downlight

WF8

8" LED Switchable White Color Temperature

IC/Non-IC
New Construction/Remodel



Matte black



Satin Nickel



Specifications

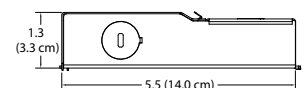
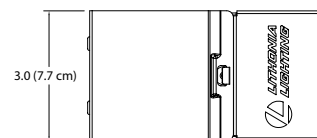
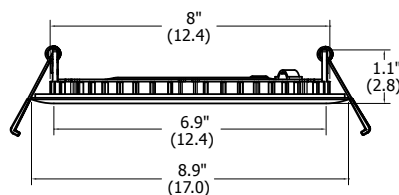
Aperture: 6.9"

Ceiling opening: 8"

Over lamp trim: 8.9"

Height: 1.1"

All dimensions are inches (centimeters) unless otherwise indicated.



ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold)**.

Example: WF8 LED 30K40K50KT 90CRI MW

WF8				
Series	Lamp	CCT/W/Lumens	CRI	Finish
WF8 8" wafer-thin LED downlight	LED LED	27K30K35K 2700K/20W/1630L 3000K/20W/1800L 3500K/20W/1740L	90CRI 90CRI	MW Matte white
		30K40K50K 3000K/20W/1690L 4000K/20W/1850L 5000K/20W/1820L		MB Matte black SN Satin nickel

Accessories: Order as separate catalog number.

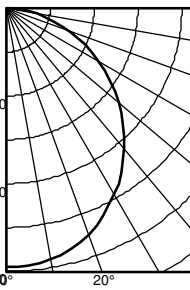
WF8643 Pan U Universal new construction pan
WFJB U Remodel joist bar



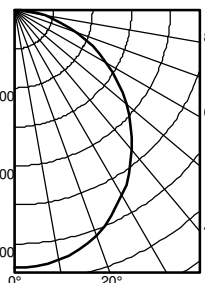
WF8643 Universal New Construction Pan

WF8 Switchable White 8" LED Wafer Module

PHOTOMETRICS

Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance Data at 30" Above Floor for a Single Luminaire											
	Ave Lumens		Zone Lumens % Lamp	pf	80%			20%			50%				
				pc	50%	30%	10%	50%	30%	10%	50%	30%	10%	50% beam - 63.5°	10% beam - 108.5°
	0	590	0° - 30° 456.2 27.8	0	119	119	119	116	116	116	111	111	111		
	5	590	0° - 40° 741.1 45.2	1	104	99	96	101	98	94	97	94	91		
	15	568	0° - 60° 1288.4 78.7	2	90	84	78	88	82	77	85	80	75		
	25	521	0° - 90° 1638.0 100.0	3	79	71	65	78	70	64	75	68	63		
	35	457	90° - 120° 0.0 0.0	4	70	62	55	69	61	54	67	59	54		
	45	376	90° - 130° 0.0 0.0	5	63	54	47	62	53	47	60	52	46		
	55	289	90° - 150° 0.0 0.0	6	57	48	41	56	47	41	54	46	41		
	65	198	90° - 180° 0.0 0.0	7	51	43	36	51	42	36	49	42	36		
	75	111	0° - 180° 1638.0 *100.0	8	47	38	33	46	38	32	45	38	32		
85	32	*Efficiency	9	43	35	29	43	35	29	41	34	29			
90	0		10	40	32	27	39	32	27	38	31	26			
Initial FC															
Mounting Center															
Height		Beam		Diameter		FC		Diameter		FC					
8.0		19.5		6.8		9.8		15.3		1.9					
10.0		10.5		9.3		5.2		20.8		1.0					
12.0		6.5		11.7		3.3		26.4		0.7					
14.0		4.5		14.2		2.2		31.9		0.4					
16.0		3.2		16.7		1.6		37.5		0.3					

WF8 LED 27K30K35K _ 3000K LED's, input watts: 19, delivered lumens: 1834, LM/W=96, test no. 36826P44

	Ave Lumens		Zone Lumens % Lamp		pf		80%			20%			50%										
					pc		50% 30% 10%			70%			50% 30% 10%										
					pw																		
	0	661		0° - 30°	510.8	27.8	0	119	119	119	116	116	116	111	111	111							
	5	661	63	0° - 40°	829.7	45.2	1	104	99	96	101	98	94	97	94	91							
	15	636	179	0° - 60°	1442.6	78.7	2	90	84	78	88	82	77	85	80	75							
	25	584	269	0° - 90°	1834.0	100.0	3	79	71	65	78	70	64	75	68	63							
	35	511	319	90° - 120°	0.0	0.0	4	70	62	55	69	61	54	67	59	54							
	45	420	324	90° - 130°	0.0	0.0	5	63	54	47	62	53	47	60	52	46							
	55	324	289	90° - 150°	0.0	0.0	6	57	48	41	56	47	41	54	46	41							
	65	222	219	90° - 180°	0.0	0.0	7	51	43	36	51	42	36	49	42	36							
75	125	132	0° - 180°	1834.0	*100.0	8	47	38	33	46	38	32	45	38	32								
85	36	40	*Efficiency			9	43	35	29	43	35	29	41	34	29								
90	0					10	40	32	27	39	32	27	38	31	26								
																		50% beam - 63.5°		10% beam - 108.5°			
																		Initial FC					
																		Mounting Height	Center Beam	Diameter	FC	Diameter	FC
																		8.0	21.9	6.8	10.9	15.3	2.2
																		10.0	11.8	9.3	5.9	20.8	1.2
																		12.0	7.3	11.7	3.7	26.4	0.7
																		14.0	5.0	14.2	2.5	31.9	0.5
																		16.0	3.6	16.7	1.8	37.5	0.4

WF8 LED 27K30K35K _ 3500K LED's, input watts 21, delivered lumens: 1761, LM/W=83, test no. 36826P45

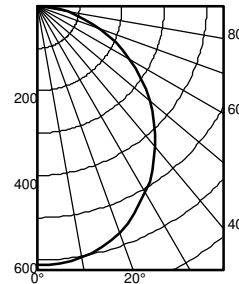
	Ave Lumens		Zone Lumens % Lamp		pf	80%			20%			50%												
					pc	50% 30% 10%			70%			50%												
					pw	50% 30% 10%			50%			50%												
	0	635		0° - 30°	490.4	27.8	0	119	119	119	116	116	116	111	111	111								
	5	634	60	0° - 40°	796.7	45.2	1	104	99	96	101	98	94	97	94	91								
	15	610	172	0° - 60°	1385.1	78.7	2	90	84	78	88	82	77	85	80	75								
	25	560	258	0° - 90°	1761.0	100.0	3	79	71	65	78	70	64	75	68	63								
	35	491	306	90° - 120°	0.0	0.0	4	70	62	55	69	61	54	67	59	54								
	45	404	311	90° - 130°	0.0	0.0	5	63	54	47	62	53	47	60	52	46								
	55	311	277	90° - 150°	0.0	0.0	6	57	48	41	56	47	41	54	46	41								
65	213	211	90° - 180°	0.0	0.0	7	51	43	36	51	42	36	49	42	36									
75	120	127	0° - 180°	1761.0	*100.0	8	47	38	33	46	38	32	45	38	32									
85	34	39	*Efficiency			9	43	35	29	43	35	29	41	34	29									
90	0					10	40	32	27	39	32	27	38	31	26									
																			Initial FC		50% beam - 63.5°		10% beam - 108.5°	
Mounting Height		Center Beam		Diameter		FC		Diameter		FC														
8.0		21.0		6.8		10.5		15.3		2.1														
10.0		11.3		9.3		5.6		20.8		1.1														
12.0		7.0		11.7		3.5		26.4		0.7														
14.0		4.8		14.2		2.4		31.9		0.5														
16.0		3.5		16.7		1.7		37.5		0.3														

WF8 Switchable White 8" LED Wafer Module

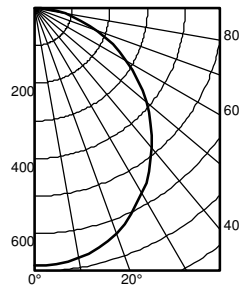
PHOTOMETRICS

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

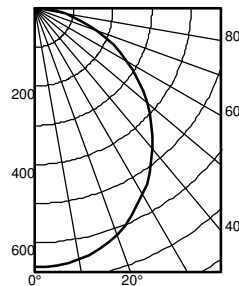
WF8 LED 30K40K50K_3000K LED's, input watts: 20, delivered lumens: 1698, LM/W=85, test no. ISF 36826P46

	Ave Lumens	Zone Lumens % Lamp	pf pc pw	80%			20%			50%			50% beam - 63.5°		10% beam - 108.5°	
				50%	30%	10%	50%	30%	10%	50%	30%	10%				
				50%	30%	10%	50%	30%	10%	50%	30%	10%				
	0	612	0° - 30°	472.9	27.8	0	119	119	119	116	116	116	111	111	111	
	5	612	0° - 40°	768.2	45.2	1	104	99	96	101	98	94	97	94	91	
	15	589	0° - 60°	1335.6	78.7	2	90	84	78	88	82	77	85	80	75	
	25	540	0° - 90°	1698.0	100.0	3	79	71	65	78	70	64	75	68	63	
	35	473	90° - 120°	0.0	0.0	4	70	62	55	69	61	54	67	59	54	
	45	389	90° - 130°	0.0	0.0	5	63	54	47	62	53	47	60	52	46	
	55	300	90° - 150°	0.0	0.0	6	57	48	41	56	47	41	54	46	41	
	65	206	90° - 180°	0.0	0.0	7	51	43	36	51	42	36	49	42	36	
	75	115	0° - 180°	1698.0	*100.0	8	47	38	33	46	38	32	45	38	32	
	85	33	*Efficiency			9	43	35	29	43	35	29	41	34	29	
	90	0				10	40	32	27	39	32	27	38	31	26	
Initial FC																
Mounting Center																
Height	Beam	Diameter	FC	Diameter	FC											
8.0	20.2	6.8	10.1	15.3	2.0											
10.0	10.9	9.3	5.4	20.8	1.1											
12.0	6.8	11.7	3.4	26.4	0.7											
14.0	4.6	14.2	2.3	31.9	0.5											
16.0	3.4	16.7	1.7	37.5	0.3											

WF8 LED 30K40K50K_4000K LED's, input watts: 19.64, delivered lumens: 1900, LM/W=97, test no. ISF 36826P47

	Ave Lumens	Zone Lumens % Lamp	pf pc pw	80%			20%			50%			50% beam - 63.5°		10% beam - 108.5°	
				50%	30%	10%	50%	30%	10%	50%	30%	10%				
				50%	30%	10%	50%	30%	10%	50%	30%	10%				
	0	685	0° - 30°	529.2	27.8	0	119	119	119	116	116	116	111	111	111	
	5	684	0° - 40°	859.6	45.2	1	104	99	96	101	98	94	97	94	91	
	15	659	0° - 60°	1494.5	78.7	2	90	84	78	88	82	77	85	80	75	
	25	605	0° - 90°	1900.0	100.0	3	79	71	65	78	70	64	75	68	63	
	35	530	90° - 120°	0.0	0.0	4	70	62	55	69	61	54	67	59	54	
	45	436	90° - 130°	0.0	0.0	5	63	54	47	62	53	47	60	52	46	
	55	335	90° - 150°	0.0	0.0	6	57	48	41	56	47	41	54	46	41	
	65	230	90° - 180°	0.0	0.0	7	51	43	36	51	42	36	49	42	36	
	75	129	0° - 180°	1900.0	*100.0	8	47	38	33	46	38	32	45	38	32	
	85	37	*Efficiency			9	43	35	29	43	35	29	41	34	29	
	90	0				10	40	32	27	39	32	27	38	31	26	
Initial FC																
Mounting Center																
Height	Beam	Diameter	FC	Diameter	FC											
8.0	22.6	6.8	11.3	15.3	2.3											
10.0	12.2	9.3	6.1	20.8	1.2											
12.0	7.6	11.7	3.8	26.4	0.8											
14.0	5.2	14.2	2.6	31.9	0.5											
16.0	3.8	16.7	1.9	37.5	0.4											

WF8 LED 30K40K50K_5000K LED's, input watts 21, delivered lumens: 1839, LM/W=88, test no. ISF 36826P48

	Ave Lumens	Zone Lumens % Lamp	pf pc pw	80%			20%			50%			50% beam - 63.5°		10% beam - 108.5°	
				50%	30%	10%	50%	30%	10%	50%	30%	10%				
				50%	30%	10%	50%	30%	10%	50%	30%	10%				
	0	663	0° - 30°	512.2	27.8	0	119	119	119	116	116	116	111	111	111	
	5	662	0° - 40°	832.0	45.2	1	104	99	96	101	98	94	97	94	91	
	15	637	0° - 60°	1446.5	78.7	2	90	84	78	88	82	77	85	80	75	
	25	585	0° - 90°	1839.0	100.0	3	79	71	65	78	70	64	75	68	63	
	35	513	90° - 120°	0.0	0.0	4	70	62	55	69	61	54	67	59	54	
	45	422	90° - 130°	0.0	0.0	5	63	54	47	62	53	47	60	52	46	
	55	324	90° - 150°	0.0	0.0	6	57	48	41	56	47	41	54	46	41	
	65	223	90° - 180°	0.0	0.0	7	51	43	36	51	42	36	49	42	36	
	75	125	0° - 180°	1839.0	*100.0	8	47	38	33	46	38	32	45	38	32	
	85	36	*Efficiency			9	43	35	29	43	35	29	41	34	29	
	90	0				10	40	32	27	39	32	27	38	31	26	
Initial FC																
Mounting Center																
Height	Beam	Diameter	FC	Diameter	FC											
8.0	21.9	6.8	11.0	15.3	2.2											
10.0	11.8	9.3	5.9	20.8	1.2											
12.0	7.3	11.7	3.7	26.4	0.7											
14.0	5.0	14.2	2.5	31.9	0.5											
16.0	3.6	16.7	1.8	37.5	0.4											

WF8 Switchable White 8" LED Wafer Module

WF8 LED 27K30K35K			
Color Temperature	2700K	3000K	3500K
Lumens	1630	1800	1740
CRI	90	90	90
Rated wattage	20.7	19.8	20.8
Lu/Watts	78.7	90.9	83.7
Min. starting temp	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A Standards	Class A Standards	Class A Standards
Input voltage	120V	120V	120V
Min. power factor	0.98	0.98	0.98
Input frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input power	120V	120V	120V
Input current	0.17A	0.17A	0.17A

WF8 LED 30K40K50K			
Color Temperature	3000K	4000K	5000K
Lumens	1690	1850	1820
CRI	90	90	90
Rated wattage	20.4	19.6	20.6
Lu/Watts	82.8	94.4	88.3
Min. starting temp	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A Standards	Class A Standards	Class A Standards
Input voltage	120V	120V	120V
Min. power factor	0.98	0.98	0.98
Input frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input power	120V	120V	120V
Input current	0.17A	0.17A	0.17A

LIGHTING PERFORMANCE DATA



LIGHTING PERFORMANCE DATA DONNÉES SUR LE RENDEMENT DE L'ÉCLAIRAGE

Light Appearance (CCT)
Aspect de la lumière (CCT)

2700K soft white | blanc doux

1630 lumens | 82 lumens per watt

3000K warm white | blanc chaud

1800 lumens | 90 lumens per watt

3500K neutral white | blanc neutre

1740 lumens | 87 lumens per watt

Watts 20

Color Accuracy (CRI) 90

Précision des couleurs (CRI)



LIGHTING PERFORMANCE DATA DONNÉES SUR LE RENDEMENT DE L'ÉCLAIRAGE

Light Appearance (CCT)
Aspect de la lumière (CCT)

3000K warm white | blanc chaud

1690 lumens | 85 lumens per watt

4000K cool white | blanc froid

1850 lumens | 93 lumens per watt

5000K daylight | lumière du jour

1820 lumens | 91 lumens per watt

Watts 20

Color Accuracy (CRI) 90

Précision des couleurs (CRI)