

Catalog Number
Notes
Type

## FEATURES & SPECIFICATIONS

**INTENDED USE** — The 4" Wafer™ LED Downlight with switchable white technology 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 remodel or new construction installation from below the ceiling. The LED module maintains at least 70% light output for 50,000 hours. The Wafer is ideal for use in light commercial, multi-family, assisted living, dormitories, hospitals, and hospitality.

**CONSTRUCTION** — Aluminum die cast outer frame. Durable, powder coat paint to prevent rust. FT4 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 choose either 2700K, 3000K, and 3500K using the switch. 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. Three "quick connect" push-in terminals included.

**INSTALLATION** — Ideal for shallow ceiling plenum; no housing required. Steel spring clip for easy installation. 6" cut out template provided to ensure correct size hole is cut into ceiling for proper installation of the trim. Size of hole should not exceed 6 1/4 inches for this product. Suitable for installation in t-grid and drop ceiling applications with the WF8643 Pan. 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** — Multi-volt (120-277V, 50/60Hz) proprietary remote LED driver/splice box, with two (2) additional low-voltage wires for 0-10v dimming, down to 10% (depending on dimmer model and application). High efficient driver with power factor > 0.9. Ambient operating temperature: -40°F (-40°C) to +104°F (+40°C).

**LISTINGS** — CSA certified to Canadian and US Safety Standards. Air Tight certified in accordance with ASTM E283-2004. Wet Location Listed. NOM Certified. Can be used to comply with California Title 24 Part 6 High Efficacy LED light Source Requirements.

**WARRANTY** — 5-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](http://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.

Wafer™ LED Recessed Downlight

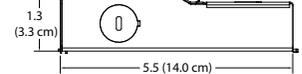
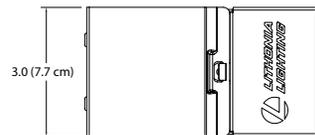
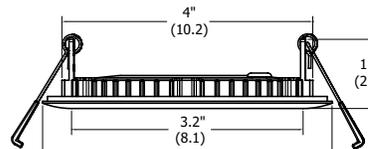
# WF4 MVOLT 4" LED SWITCHABLE WHITE COLOR TEMPERATURE

IC/Non-IC  
New Construction/Remodel



### Specifications

Aperture:	3.2 (8.1)
Ceiling opening:	4.2 (10.7)
Overlap trim:	4.7 (12.0)
Height:	1.1 (2.8)



All dimensions are in inches (centimeters) unless otherwise indicated.

### ORDERING INFORMATION

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

**Example:** WF4 LED 27K30K35K MVOLT 90CRI MW

Series	Lamp	CCT/CRI/W/Lumens <sup>1</sup>	Voltage	CRI	Finish
<b>WF4</b> 4" Wafer™ LED downlight	<b>LED</b> LED	<b>27K30K35K</b> 2700K/10.5W/730L 3000K/10.5W/800L 3500K/10.5W/780L	<b>MVOLT</b> Multi-Volt (120-277V)	<b>90CRI</b> 90CRI	<b>MW</b> Matte white

### Accessories: Order as separate catalog number.

WF4 PAN R12	4" new construction pan, retail pack of 12
WF8643 Pan	Universal new construction pan
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
WF4GR MW JZ	4" round oversized trim ring



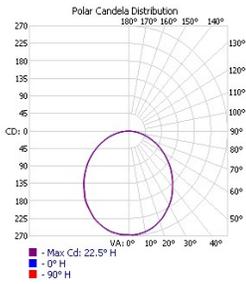
### Notes

1 Total system delivered lumens.

# WF4 MVOLT SWITCHABLE WHITE 4" LED Wafer Module

## PHOTOMETRICS

**WF4 LED 27K30K35K MVOLT 90CRI 2700K LEDs**,input watts:10.68, delivered lumens:741, LM/W=69.4,test no. ISF 36826P101



### COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

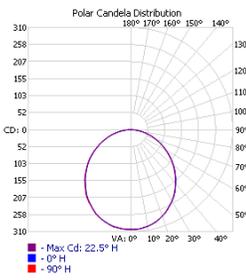
EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%

RCC %:	80				70				50				30				10				0			
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00						
1	1.09	1.04	.99	.96	1.06	1.01	.98	.84	.97	.94	.91	.93	.91	.88	.90	.88	.86	.83						
2	.99	.90	.84	.78	.96	.88	.82	.71	.85	.80	.75	.82	.77	.73	.79	.75	.72	.69						
3	.90	.79	.71	.65	.88	.78	.70	.60	.75	.68	.63	.72	.66	.62	.69	.65	.61	.59						
4	.82	.70	.62	.55	.80	.69	.61	.52	.67	.59	.54	.64	.58	.53	.62	.57	.52	.50						
5	.76	.63	.54	.47	.74	.62	.53	.45	.60	.52	.46	.58	.51	.46	.56	.50	.45	.43						
6	.70	.57	.48	.41	.68	.56	.47	.40	.54	.46	.41	.52	.45	.40	.51	.45	.40	.38						
7	.65	.51	.43	.36	.63	.51	.42	.35	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34						
8	.60	.47	.38	.33	.59	.46	.38	.32	.45	.38	.32	.44	.37	.32	.42	.36	.32	.30						
9	.57	.43	.35	.29	.55	.43	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27						
10	.53	.40	.32	.27	.52	.39	.32	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24						

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0-30	206.3	27.8%
0-40	335.1	45.2%
0-60	582.6	78.7%
60-90	158.1	21.3%
70-100	69.5	9.4%
90-120	0	0%
0-90	740.7	100%

**WF4 LED 27K30K35K MVOLT 90CRI 3000K LEDs**,input watts:10.12, delivered lumens:840, LM/W=83,test no. ISF 36826P102



### COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

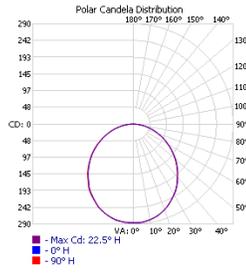
EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%

RCC %:	80				70				50				30				10				0			
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00						
1	1.09	1.04	.99	.96	1.06	1.01	.98	.84	.97	.94	.91	.93	.91	.88	.90	.88	.86	.83						
2	.99	.90	.84	.78	.96	.88	.82	.71	.85	.80	.75	.82	.77	.73	.79	.75	.72	.69						
3	.90	.79	.71	.65	.88	.78	.70	.60	.75	.68	.63	.72	.66	.62	.69	.65	.61	.59						
4	.82	.70	.62	.55	.80	.69	.61	.52	.67	.59	.54	.64	.58	.53	.62	.57	.52	.50						
5	.76	.63	.54	.47	.74	.62	.53	.45	.60	.52	.46	.58	.51	.46	.56	.50	.45	.43						
6	.70	.57	.48	.41	.68	.56	.47	.40	.54	.46	.41	.52	.45	.40	.51	.45	.40	.38						
7	.65	.51	.43	.36	.63	.51	.42	.35	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34						
8	.60	.47	.38	.33	.59	.46	.38	.32	.45	.38	.32	.44	.37	.32	.42	.36	.32	.30						
9	.57	.43	.35	.29	.55	.43	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27						
10	.53	.40	.32	.27	.52	.39	.32	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24						

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0-30	233.9	27.8%
0-40	380	45.2%
0-60	660.6	78.7%
60-90	179.3	21.3%
70-100	78.8	9.4%
90-120	0	0%
0-90	839.9	100%

**WF4 LED 27K30K35K MVOLT 90CRI 3500K LEDs**,input watts:10.12, delivered lumens:840, LM/W=83,test no. ISF 36826P103



### COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%

RCC %:	80				70				50				30				10				0			
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00						
1	1.09	1.04	.99	.96	1.06	1.01	.98	.84	.97	.94	.91	.93	.91	.88	.90	.88	.86	.83						
2	.99	.90	.84	.78	.96	.88	.82	.71	.85	.80	.75	.82	.77	.73	.79	.75	.72	.69						
3	.90	.79	.71	.65	.88	.78	.70	.60	.75	.68	.63	.72	.66	.62	.69	.65	.61	.59						
4	.82	.70	.62	.55	.80	.69	.61	.52	.67	.59	.54	.64	.58	.53	.62	.57	.52	.50						
5	.76	.63	.54	.47	.74	.62	.53	.45	.60	.52	.46	.58	.51	.46	.56	.50	.45	.43						
6	.70	.57	.48	.41	.68	.56	.47	.40	.54	.46	.41	.52	.45	.40	.51	.45	.40	.38						
7	.65	.51	.43	.36	.63	.51	.42	.35	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34						
8	.60	.47	.38	.33	.59	.46	.38	.32	.45	.38	.32	.44	.37	.32	.42	.36	.32	.30						
9	.57	.43	.35	.29	.55	.43	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27						
10	.53	.40	.32	.27	.52	.39	.32	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24						

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0-30	220.9	27.8%
0-40	358.9	45.2%
0-60	624	78.7%
60-90	169.3	21.3%
70-100	74.4	9.4%
90-120	0	0%
0-90	793.3	100%

# WF4 MVOLT SWITCHABLE WHITE 4" LED Wafer Module

## ENERGY DATA

WF4 LED 27K30K35K MVOLT			
Color Temperature	2700K	3000K	3500K
Lumens	730	800	780
CRI	90	90	90
Rated wattage	10.7	10.1	10.4
Lu/Watts	68.2	79.2	75.0
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	120 - 277V	120 - 277V	120 - 277V
Min. power factor	0.97	0.97	0.97
Input frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input power	120 - 277V	120 - 277V	120 - 277V
Input current	0.04A	0.04A	0.04A

## LIGHTING PERFORMANCE DATA

LIGHTING PERFORMANCE DATA DONNÉES SUR LE RENDEMENT DE L'ÉCLAIRAGE	
Light Appearance (CCT) Aspect de la lumière (CCT)	
<b>2700K</b> soft white   blanc doux	
730 lumens   70 lumens per watt	
<b>3000K</b> warm white   blanc chaud	
800 lumens   76 lumens per watt	
<b>3500K</b> neutral white   blanc neutre	
780 lumens   74 lumens per watt	
Watts	<b>10.5</b>
Color Accuracy (CRI) Précision des couleurs (CRI)	<b>90</b>