

FEATURES & SPECIFICATIONS

INTENDED USE — The 8" 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. 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 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 sized 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 Class-2 (CAN ICES-005 (B) / NMB-005 (B)) 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

Note: Actual performance may differ as a result of end-user environment and application.

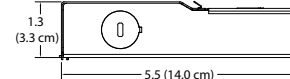
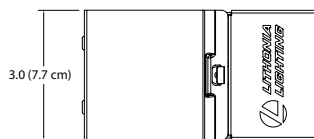
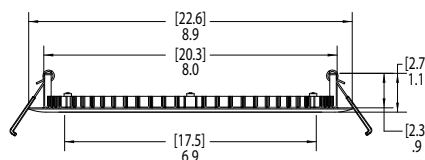
All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

Specifications

Aperture:	6.9 (17.5)
Ceiling opening:	8 (20.4)
Overlap trim:	8.9 (22.5)
Height:	1.1 (2.7)

All dimensions are inches (centimeters) unless otherwise indicated.



Wafer™ LED Recessed Downlight

WF8 MVOLT 8" LED SWITCHABLE WHITE COLOR TEMPERATURE

IC/Non-IC
New Construction/Remodel



ORDERING INFORMATION

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

Example: WF8 LED 27K30K35K MVOLT 90CRI MW

WF8					
Series	Lamp	CCT/CRI/W/Lumens ¹	Voltage	CRI	Finish
WF8 8" Wafer™ LED downlight	LED LED	27K30K35K 2700K/20.5W/1630L 3000K/20.5W/1800L 3500K/20.5W/1740L	MVOLT Multi-Volt (120-277V)	90CRI 90CRI	MW Matte white

Accessories: Order as separate catalog number.

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



WF8643 Universal
New Construction Pan



Joist



WFEXC6 Cable

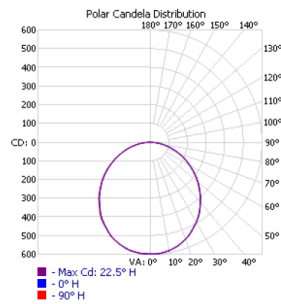
Notes

1 Total system delivered lumens.

WF8 MVOLT SWITCHABLE WHITE 8" LED Wafer™ Module

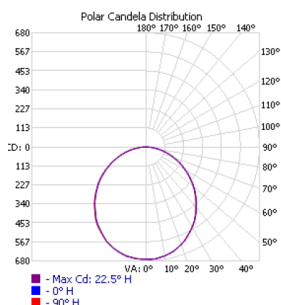
PHOTOMETRICS

WF8 LED 27K30K35K MVOLT 90CRI, 2700K LED's, input watts: 20.66, delivered lumens: 1658, lm/w=80.2, test no. ISF 36826P113



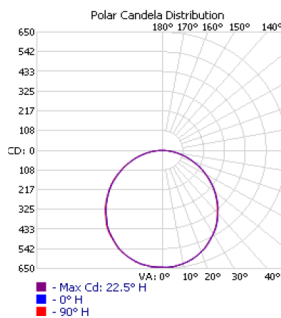
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD													ZONAL LUMEN SUMMARY		
EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%															
RCC %:	80				70				50						
RW %:	70	50	30	0	70	50	30	0	50	30	20	0			
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.00
1	1.09	1.04	.99	.96	1.06	1.01	.98	.84	.97	.94	.91	.88	.90	.88	.86
2	.99	.90	.84	.78	.96	.88	.82	.71	.85	.80	.75	.69	.79	.75	.72
3	.90	.79	.71	.65	.88	.78	.70	.60	.75	.68	.63	.58	.69	.65	.61
4	.82	.70	.62	.55	.80	.69	.61	.52	.67	.59	.54	.49	.62	.57	.52
5	.76	.63	.54	.47	.74	.62	.53	.45	.60	.52	.46	.41	.56	.50	.45
6	.70	.57	.48	.41	.68	.56	.47	.40	.54	.46	.41	.36	.51	.45	.40
7	.65	.51	.43	.36	.63	.51	.42	.35	.49	.42	.36	.31	.46	.40	.36
8	.60	.47	.38	.33	.59	.46	.38	.32	.45	.38	.32	.27	.42	.36	.32
9	.57	.43	.35	.29	.55	.43	.35	.29	.41	.34	.29	.24	.39	.33	.29
10	.53	.40	.32	.27	.52	.39	.32	.26	.38	.31	.26	.21	.36	.30	.26
													0-30	461.6	27.8%
													0-40	749.9	45.2%
													0-60	1303.7	78.7%
													60-90	353.8	21.3%
													70-100	155.5	9.4%
													90-120	0	0%
													0-90	1657.5	100%
													90-180	0	0%
													0-180	1657.5	100%

WF8 LED 27K30K35K MVOLT 90CRI, 3000K LED's, input watts: 19.83, delivered lumens: 1856, lm/w=93.5, test no. ISF 36826P114



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD													ZONAL LUMEN SUMMARY		
EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%															
RCC %:	80				70				50						
RW %:	70	50	30	0	70	50	30	0	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	1.00
1	1.09	1.04	.99	.96	1.06	1.01	.98	.84	.97	.94	.91	.88	.90	.88	.86
2	.99	.90	.84	.78	.96	.88	.82	.71	.85	.80	.75	.69	.79	.75	.72
3	.90	.79	.71	.65	.88	.78	.70	.60	.75	.68	.63	.58	.69	.65	.61
4	.82	.70	.62	.55	.80	.69	.61	.52	.67	.59	.54	.49	.62	.57	.52
5	.76	.63	.54	.47	.74	.62	.53	.45	.60	.52	.46	.41	.56	.50	.45
6	.70	.57	.48	.41	.68	.56	.47	.40	.54	.46	.41	.36	.51	.45	.40
7	.65	.51	.43	.36	.63	.51	.42	.35	.49	.42	.36	.31	.46	.40	.36
8	.60	.47	.38	.33	.59	.46	.38	.32	.45	.38	.32	.27	.42	.36	.32
9	.57	.43	.35	.29	.55	.43	.35	.29	.41	.34	.29	.24	.39	.33	.29
10	.53	.40	.32	.27	.52	.39	.32	.26	.38	.31	.26	.21	.36	.30	.26
													0-30	516.8	27.8%
													0-40	839.6	45.2%
													0-60	1459.8	78.7%
													60-90	396.1	21.3%
													70-100	174.1	9.4%
													90-120	0	0%
													0-90	1855.9	100%
													90-180	0	0%
													0-180	1855.9	100%

WF8 LED 27K30K35K MVOLT 90CRI, 3500K LED's, input watts: 20.82, delivered lumens: 1782, lm/w=85.6, test no. ISF 36826P115



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD													ZONAL LUMEN SUMMARY		
EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%															
RCC %:	80				70				50						
RW %:	70	50	30	0	70	50	30	0	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	1.00
1	1.09	1.04	.99	.96	1.06	1.01	.98	.84	.97	.94	.91	.88	.90	.88	.86
2	.99	.90	.84	.78	.96	.88	.82	.71	.85	.80	.75	.69	.79	.75	.72
3	.90	.79	.71	.65	.88	.78	.70	.60	.75	.68	.63	.58	.69	.65	.61
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5	.76	.63	.54	.47	.74	.62	.53	.45	.60	.52	.46	.41	.56	.50	.45
6	.70	.57	.48	.41	.68	.56	.47	.40	.54	.46	.41	.36	.51	.45	.40
7	.65	.51	.43	.36	.63	.51	.42	.35	.49	.42	.36	.31	.46	.40	.36
8	.60	.47	.38	.33	.59	.46	.38	.32	.45	.38	.32	.27	.42	.36	.32
9	.57	.43	.35	.29	.55	.43	.35	.29	.41	.34	.29	.24	.39	.33	.29
10	.53	.40	.32	.27	.52	.39	.32	.26	.38	.31	.26	.21	.36	.30	.26
													0-30	496.3	27.8%
													0-40	806.2	45.2%
													0-60	1401.6	78.7%
													60-90	380.3	21.3%
													70-100	167.2	9.4%
													90-120	0	0%
													0-90	1782	100%
													90-180	0	0%
													0-180	1782	100%

WF8 MVOLT SWITCHABLE WHITE 8" LED Wafer™ Module

ENERGY DATA

WF8 LED 27K30K35K MVOLT			
Color Temperature	2700K	3000K	3500K
Lumens	1630	1800	1740
CRI	90	90	90
Rated wattage	20.5	20.5	20.5
Lu/Watts	80	88	85
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	0.98	0.98	0.98
Input frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input power	120 - 277V	120 - 277V	120 - 277V
Input current	0.05A	0.05A	0.05A

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 | 80 lumens per watt

3000K warm white | blanc chaud

1800 lumens | 88 lumens per watt

3500K neutral white | blanc neutre

1740 lumens | 85 lumens per watt

Watts20.5

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