

## FEATURES & SPECIFICATIONS

**INTENDED USE** — The 6" 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. 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 or 3000K, 4000K, and 5000K 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 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. ENERGY STAR® certified product. 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. Complete warranty terms located at:

[www.acuitybrands.com/support/customer-support/terms-and-conditions](http://www.acuitybrands.com/support/customer-support/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

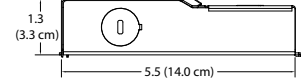
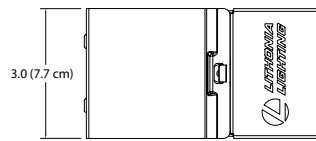
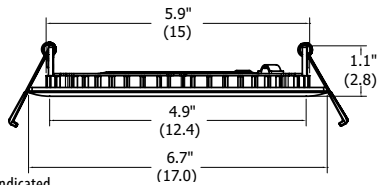
Aperture: 4.9 (12.4)

Ceiling opening: 6 (15.2)

Overlap trim: 6.7 (17)

Height: 1.1 (2.8)

All dimensions are inches (centimeters) unless otherwise indicated.



Wafer™ LED Recessed Downlight

# WF6 MVOLT 6" 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:** WF6 LED 30K40K50K MVOLT 90CRI MW

WF6 Series	Lamp	CCT/CRI/W/Lumens <sup>1</sup>	Voltage	CRI	Finish
WF6 6" Wafer™ LED downlight	LED LED	<b>27K30K35K</b> 2700K/14W/1070L 3000K/14W/1150L 3500K/14W/1110L  <b>30K40K50K</b> 3000K/14W/1090L 4000K/14W/1190L 5000K/14W/1120L	<b>MVOLT</b> Multi-Volt (120-277V)	<b>90CRI</b> 90CRI	<b>MW</b> Matte white

### Accessories: Order as separate catalog number.

WF6 PAN R12	6" new construction pan, retail pack of 12
WF8643 Pan U	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
WF6GR MW JZ	6" round oversized trim ring

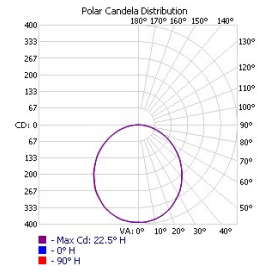


**Notes**  
1 Total system delivered lumens.

# WF6 MVOLT SWITCHABLE WHITE 6" LED Wafer™ Module

## PHOTOMETRICS

WF6 LED 27K30K35K MVOLT 90CRI, 2700K LED's, input watts: 14.14, delivered lumens: 1087, lm/w=76.9, test no. ISF 36826P107



### COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

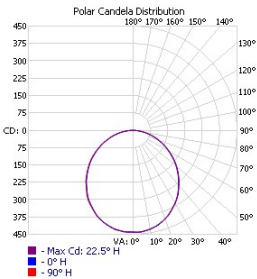
EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%

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	0	0	0	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	1.00	1.00	1.00	1.00	1.00	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	.83	.83	.83	.83	.83	.83
2	.99	.90	.84	.78	.96	.88	.82	.71	.85	.80	.75	.82	.77	.73	.79	.75	.72	.69	.69	.69	.69	.69	.69	.69
3	.90	.79	.71	.65	.88	.78	.70	.60	.75	.68	.63	.72	.66	.62	.69	.65	.61	.59	.59	.59	.59	.59	.59	.59
4	.82	.70	.62	.55	.80	.69	.61	.52	.67	.59	.54	.64	.58	.53	.62	.57	.52	.50	.50	.50	.50	.50	.50	.50
5	.76	.63	.54	.47	.74	.62	.53	.45	.60	.52	.46	.58	.51	.46	.56	.50	.45	.43	.43	.43	.43	.43	.43	.43
6	.70	.57	.48	.41	.68	.56	.47	.40	.54	.46	.41	.52	.45	.40	.51	.45	.40	.38	.38	.38	.38	.38	.38	.38
7	.65	.51	.43	.36	.63	.51	.42	.35	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34	.34	.34	.34	.34	.34	.34
8	.60	.47	.38	.33	.59	.46	.38	.32	.45	.38	.32	.44	.37	.32	.42	.36	.32	.30	.30	.30	.30	.30	.30	.30
9	.57	.43	.35	.29	.55	.43	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27	.27	.27	.27	.27	.27	.27
10	.53	.40	.32	.27	.52	.39	.32	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24	.24	.24	.24	.24	.24	.24

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0-30	302.7	27.8%
0-40	491.7	45.2%
0-60	854.8	78.7%
60-90	232	21.3%
70-100	102	9.4%
90-120	0	0%
0-90	1086.8	100%
90-180	0	0%
0-180	1086.8	100%

WF6 LED 27K30K35K MVOLT 90CRI, 3000K LED's, input watts: 13.35, delivered lumens: 1221, lm/w=94.5, test no. ISF 36826P108



### COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

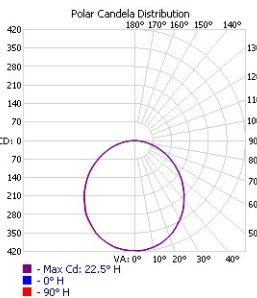
EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%

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	0	0	0	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	1.00	1.00	1.00	1.00	1.00	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	.83	.83	.83	.83	.83	.83
2	.99	.90	.84	.78	.96	.88	.82	.71	.85	.80	.75	.82	.77	.73	.79	.75	.72	.69	.69	.69	.69	.69	.69	.69
3	.90	.79	.71	.65	.88	.78	.70	.60	.75	.68	.63	.72	.66	.62	.69	.65	.61	.59	.59	.59	.59	.59	.59	.59
4	.82	.70	.62	.55	.80	.69	.61	.52	.67	.59	.54	.64	.58	.53	.62	.57	.52	.50	.50	.50	.50	.50	.50	.50
5	.76	.63	.54	.47	.74	.62	.53	.45	.60	.52	.46	.58	.51	.46	.56	.50	.45	.43	.43	.43	.43	.43	.43	.43
6	.70	.57	.48	.41	.68	.56	.47	.40	.54	.46	.41	.52	.45	.40	.51	.45	.40	.38	.38	.38	.38	.38	.38	.38
7	.65	.51	.43	.36	.63	.51	.42	.35	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34	.34	.34	.34	.34	.34	.34
8	.60	.47	.38	.33	.59	.46	.38	.32	.45	.38	.32	.44	.37	.32	.42	.36	.32	.30	.30	.30	.30	.30	.30	.30
9	.57	.43	.35	.29	.55	.43	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27	.27	.27	.27	.27	.27	.27
10	.53	.40	.32	.27	.52	.39	.32	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24	.24	.24	.24	.24	.24	.24

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0-30	340.1	27.8%
0-40	552.6	45.2%
0-60	960.7	78.7%
60-90	260.7	21.3%
70-100	114.6	9.4%
90-120	0	0%
0-90	1221.4	100%
90-180	0	0%
0-180	1221.4	100%

WF6 LED 27K30K35K MVOLT 90CRI, 3500K LED's, input watts: 13.9, delivered lumens: 1155, lm/w=83, test no. ISF 36826P109



### 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	0	0	0	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	1.00	1.00	1.00	1.00	1.00	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	.83	.83	.83	.83	.83	.83
2	.99	.90	.84	.78	.96	.88	.82	.71	.85	.80	.75	.82	.77	.73	.79	.75	.72	.69	.69	.69	.69	.69	.69	.69
3	.90	.79	.71	.65	.88	.78	.70	.60	.75	.68	.63	.72	.66	.62	.69	.65	.61	.59	.59	.59	.59	.59	.59	.59
4	.82	.70	.62	.55	.80	.69	.61	.52	.67	.59	.54	.64	.58	.53	.62	.57	.52	.50	.50	.50	.50	.50	.50	.50
5	.76	.63	.54	.47	.74	.62	.53	.45	.60	.52	.46	.58	.51	.46	.56	.50	.45	.43	.43	.43	.43	.43	.43	.43
6	.70	.57	.48	.41	.68	.56	.47	.40	.54	.46	.41	.52	.45	.40	.51	.45	.40	.38	.38	.38	.38	.38	.38	.38
7	.65	.51	.43	.36	.63	.51	.42	.35	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34	.34	.34	.34	.34	.34	.34
8	.60	.47	.38	.33	.59	.46	.38	.32	.45	.38	.32	.44	.37	.32	.42	.36	.32	.30	.30	.30	.30	.30	.30	.30
9	.57	.43	.35	.29	.55	.43	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27	.27	.27	.27	.27	.27	.27
10	.53	.40	.32	.27	.52	.39	.32	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24	.24	.24	.24	.24	.24	.24

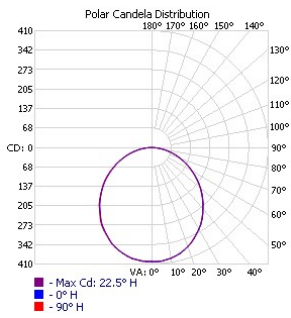
### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0-30	321.5	27.8%
0-40	522.3	45.2%
0-60	908.2	78.7%
60-90	246.4	21.3%
70-100	108.3	9.4%
90-120	0	0%
0-90	1154.6	100%
90-180	0	0%
0-180	1154.6	100%

# WF6 MVOLT SWITCHABLE WHITE 6" LED Wafer™ Module

## PHOTOMETRICS

**WF6 LED 30K40K50K MVOLT 90CRI, 3000K LED's**, input watts: 13.83, delivered lumens: 1112, lm/w=80.4, test no. ISF 36826P110



### COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

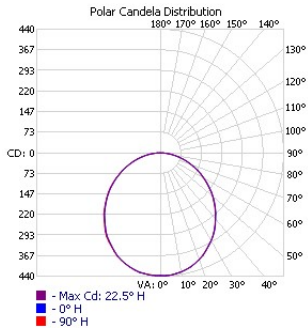
EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%

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	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	309.7	27.8%
0-40	503.1	45.2%
0-60	874.7	78.7%
60-90	237.4	21.3%
70-100	104.3	9.4%
90-120	0	0%
0-90	1112.1	100%
90-180	0	0%
0-180	1112.1	100%

**WF6 LED 30K40K50K MVOLT 90CRI, 3500K LED's**, input watts: 13.43, delivered lumens: 1213, lm/w=90.3, test no. ISF 36826P111



### COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

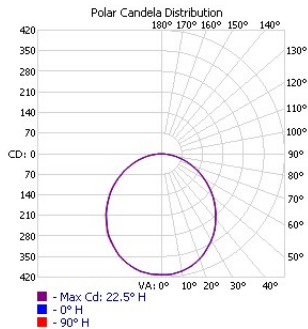
EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%

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	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	337.9	27.8%
0-40	548.9	45.2%
0-60	954.3	78.7%
60-90	259	21.3%
70-100	113.8	9.4%
90-120	0	0%
0-90	1213.3	100%
90-180	0	0%
0-180	1213.3	100%

**WF6 LED 30K40K50K MVOLT 90CRI, 5000K LED's**, input watts: 13.86, delivered lumens: 1140, lm/w=82.3, test no. ISF 36826P112



### 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	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	317.6	27.8%
0-40	515.9	45.2%
0-60	897	78.7%
60-90	243.4	21.3%
70-100	107	9.4%
90-120	0	0%
0-90	1140.4	100%
90-180	0	0%
0-180	1140.4	100%

# WF6 MVOLT SWITCHABLE WHITE 6" LED Wafer™ Module

## ENERGY DATA

WF6 LED 27K30K35K MVOLT			
Color Temperature	2700K	3000K	3500K
Lumens	1070	1150	1110
CRI	90	90	90
Rated wattage	14.1	13.4	13.9
Lu/Watts	75.9	85.8	79.9
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

WF6 LED 30K40K50K MVOLT			
Color Temperature	3000K	4000K	5000K
Lumens	1090	1190	1120
CRI	90	90	90
Rated wattage	13.8	13.4	13.9
Lu/Watts	79.0	88.8	80.6
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)	
<b>2700K</b> soft white   blanc doux	
1070 lumens   76 lumens per watt	
<b>3000K</b> warm white   blanc chaud	
1150 lumens   82 lumens per watt	
<b>3500K</b> neutral white   blanc neutre	
1110 lumens   79 lumens per watt	
Watts	<b>14</b>
Color Accuracy (CRI)	<b>90</b>
Précision des couleurs (CRI)	

LIGHTING PERFORMANCE DATA DONNÉES SUR LE RENDEMENT DE L'ÉCLAIRAGE	
Light Appearance (CCT) Aspect de la lumière (CCT)	
<b>3000K</b> warm white   blanc chaud	
1090 lumens   78 lumens per watt	
<b>4000K</b> cool white   blanc froid	
1190 lumens   85 lumens per watt	
<b>5000K</b> daylight   lumière du jour	
1120 lumens   80 lumens per watt	
Watts	<b>14</b>
Color Accuracy (CRI)	<b>90</b>
Précision des couleurs (CRI)	