

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 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.

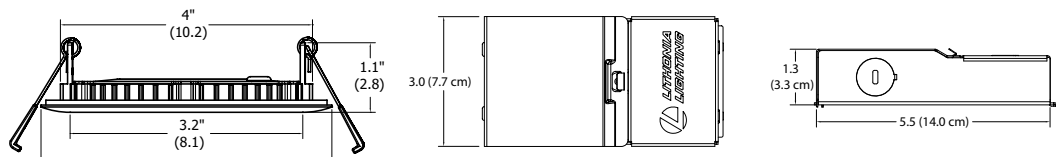
ELECTRICAL — Multi-volt (120-277V, 50/60Hz) proprietary remote LED driver/splice box, with two (2) additional low-voltage wires for 0-10v dimming, down to 10% (depending on dimmer model and application). High efficient driver with power factor > 0.9. Ambient operating temperature: -40°F (-40°C) to +104°F (+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

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



All dimensions are inches (centimeters) unless otherwise indicated.

Wafer™ LED Recessed Downlight WF4 MVOLT 4" LED SWITCHABLE WHITE COLOR TEMPERATURE

IC/Non-IC
New Construction/Remodel



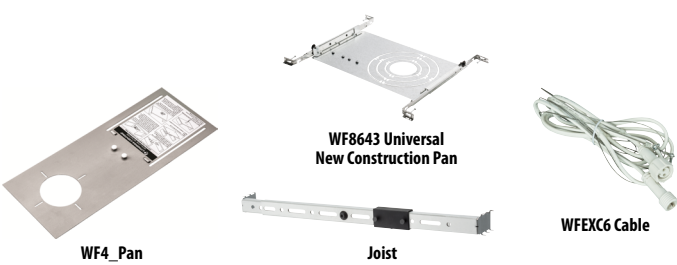
ORDERING INFORMATION

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

Example: WF4 LED 30K40K50K MVOLT 90CRI MW

WF4 Series	Lamp	CCT/CRI/W/Lumens ¹	Voltage	CRI	Finish
WF4 4" Wafer™ LED downlight	LED LED	27K30K35K 2700K/10.5W/730L 3000K/10.5W/800L 3500K/10.5W/780L 30K40K50K 3000K/10.5W/750L 4000K/10.5W/810L 5000K/10.5W/790L	MVOLT Multi-Volt (120-277V)	90CRI 90CRI	MW Matte white

Accessories: Order as separate catalog number.	
WF4 PAN R12	4" 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
WF4GR MW JZ	4" round oversized trim ring

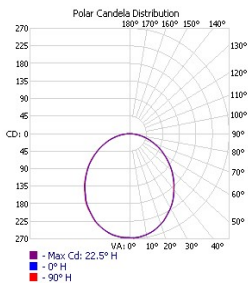


Notes
1 Total system delivered lumens.

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

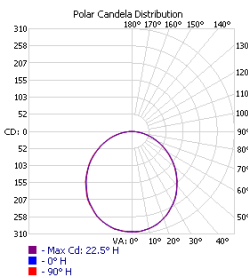
EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%

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	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	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		
2	.99	.90	.84	.78	.96	.88	.82	.71	.85	.80	.75	.82	.77	.73	.79	.75	.72	.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		
4	.82	.70	.62	.55	.80	.69	.61	.52	.67	.59	.54	.64	.58	.53	.62	.57	.52	.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		
6	.70	.57	.48	.41	.68	.56	.47	.40	.54	.46	.41	.52	.45	.40	.51	.45	.40	.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		
8	.60	.47	.38	.33	.59	.46	.38	.32	.45	.38	.32	.44	.37	.32	.42	.36	.32	.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		
10	.53	.40	.32	.27	.52	.39	.32	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24	.24	.24	.24	.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

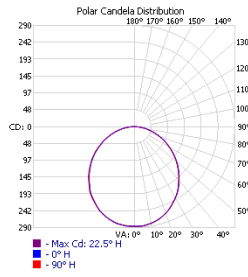
EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%

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	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	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		
2	.99	.90	.84	.78	.96	.88	.82	.71	.85	.80	.75	.82	.77	.73	.79	.75	.72	.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		
4	.82	.70	.62	.55	.80	.69	.61	.52	.67	.59	.54	.64	.58	.53	.62	.57	.52	.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		
6	.70	.57	.48	.41	.68	.56	.47	.40	.54	.46	.41	.52	.45	.40	.51	.45	.40	.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		
8	.60	.47	.38	.33	.59	.46	.38	.32	.45	.38	.32	.44	.37	.32	.42	.36	.32	.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		
10	.53	.40	.32	.27	.52	.39	.32	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24	.24	.24	.24	.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

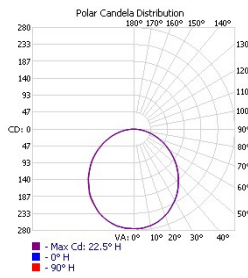
EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%

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	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	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		
2	.99	.90	.84	.78	.96	.88	.82	.71	.85	.80	.75	.82	.77	.73	.79	.75	.72	.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		
4	.82	.70	.62	.55	.80	.69	.61	.52	.67	.59	.54	.64	.58	.53	.62	.57	.52	.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		
6	.70	.57	.48	.41	.68	.56	.47	.40	.54	.46	.41	.52	.45	.40	.51	.45	.40	.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		
8	.60	.47	.38	.33	.59	.46	.38	.32	.45	.38	.32	.44	.37	.32	.42	.36	.32	.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		
10	.53	.40	.32	.27	.52	.39	.32	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24	.24	.24	.24	.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 LED 30K40K50K MVOLT 90CRI,3000K LEDs,input watts: 10.55, delivered lumens:762, LM/W=72.2,test no. ISF 36826P104



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	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		
2	.99	.90	.84	.78	.96	.88	.82	.71	.85	.80	.75	.82	.77	.73	.79	.75	.72	.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		
4	.82	.70	.62	.55	.80	.69	.61	.52	.67	.59	.54	.64	.58	.53	.62	.57	.52	.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		
6	.70	.57	.48	.41	.68	.56	.47	.40	.54	.46	.41	.52	.45	.40	.51	.45	.40	.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		
8	.60	.47	.38	.33	.59	.46	.38	.32	.45	.38	.32	.44	.37	.32	.42	.36	.32	.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		
10	.53	.40	.32	.27	.52	.39	.32	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24	.24	.24	.24	.24		

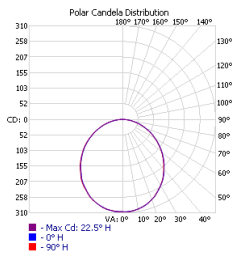
ZONAL LUMEN SUMMARY

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

PHOTOMETRICS

WF4 LED 30K40K50K MVOLT 90CRI,4000K LEDs,input watts: 10.55, delivered lumens:850, LM/W=80.6,test no. ISF 36826P105



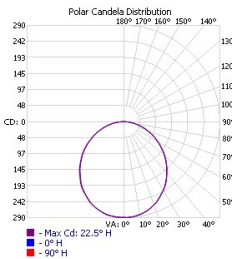
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%

ZONAL LUMEN SUMMARY

RCC %:	80				70				50				30				10				0				ZONE	LUMENS	% LUMINAIRE
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	50	30	20	0	0-30					
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	0-30	236.7	27.8%						
1	1.09	1.04	.99	.96	1.06	1.01	.98	.84	.97	.94	.91	.93	.91	.88	.90	.88	.86	.83	0-40	384.6	45.2%						
2	.99	.90	.84	.78	.96	.88	.82	.71	.85	.80	.75	.82	.77	.73	.79	.75	.72	.69	0-60	668.6	78.7%						
3	.90	.79	.71	.65	.88	.78	.70	.60	.75	.68	.63	.72	.66	.62	.69	.65	.61	.59	60-90	181.4	21.3%						
4	.82	.70	.62	.55	.80	.69	.61	.52	.67	.59	.54	.64	.58	.53	.62	.57	.52	.50	70-100	79.8	9.4%						
5	.76	.63	.54	.47	.74	.62	.53	.45	.60	.52	.46	.58	.51	.46	.56	.50	.45	.43	90-120	0	0%						
6	.70	.57	.48	.41	.68	.56	.47	.40	.54	.46	.41	.52	.45	.40	.51	.45	.40	.38	0-90	850	100%						
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									

WF4 LED 30K40K50K MVOLT 90CRI,5000K LEDs,input watts: 10.13, delivered lumens:801, LM/W=79,test no. ISF 36826P106



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%

ZONAL LUMEN SUMMARY

RCC %:	80				70				50				30				10				0				ZONE	LUMENS	% LUMINAIRE
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	50	30	20	0	0-30					
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	0-30	223.2	27.8%						
1	1.09	1.04	.99	.96	1.06	1.01	.98	.84	.97	.94	.91	.93	.91	.88	.90	.88	.86	.83	0-40	362.6	45.2%						
2	.99	.90	.84	.78	.96	.88	.82	.71	.85	.80	.75	.82	.77	.73	.79	.75	.72	.69	0-60	630.4	78.7%						
3	.90	.79	.71	.65	.88	.78	.70	.60	.75	.68	.63	.72	.66	.62	.69	.65	.61	.59	60-90	171.1	21.3%						
4	.82	.70	.62	.55	.80	.69	.61	.52	.67	.59	.54	.64	.58	.53	.62	.57	.52	.50	70-100	75.2	9.4%						
5	.76	.63	.54	.47	.74	.62	.53	.45	.60	.52	.46	.58	.51	.46	.56	.50	.45	.43	90-120	0	0%						
6	.70	.57	.48	.41	.68	.56	.47	.40	.54	.46	.41	.52	.45	.40	.51	.45	.40	.38	0-90	801.4	100%						
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									

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

WF4 LED 30K40K50K MVOLT			
Color Temperature	3000K	4000K	5000K
Lumens	750	810	790
CRI	90	90	90
Rated wattage	10.6	10.6	10.1
Lu/Watts	70.8	76.4	78.2
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)	
2700K soft white blanc doux	
730 lumens 70 lumens per watt	
3000K warm white blanc chaud	
800 lumens 76 lumens per watt	
3500K neutral white blanc neutre	
780 lumens 74 lumens per watt	
Watts	10.5
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)	
3000K warm white blanc chaud	
750 lumens 71 lumens per watt	
4000K cool white blanc froid	
810 lumens 77 lumens per watt	
5000K daylight lumière du jour	
790 lumens 75 lumens per watt	
Watts	10.5
Color Accuracy (CRI) Précision des couleurs (CRI)	90