

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 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 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:

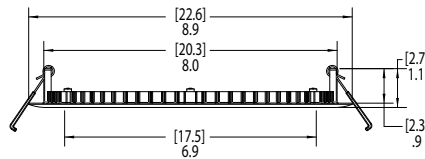
www.acuitybrands.com/support/customer-support/terms-and-conditions

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.

Catalog Number
Notes
Type

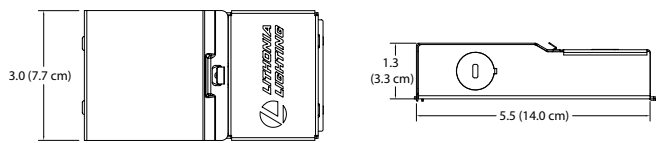
Wafer™ LED Recessed Downlight

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 30K40K50K 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 30K40K50K 3000K/20.5W/1690L 4000K/20.5W/1850L 5000K/20.5W/1820L	MVOLT Multi-Volt (120-277V)	90CRI 90CRI	MW Matte white

Accessories: Order as separate catalog number.

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

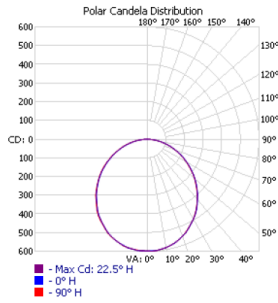


Notes
1 Total system delivered lumens.

WF8 MVOLT SWITCHABLE WHITE 8" LED Wafer™ Module

PHOTOMETRICS

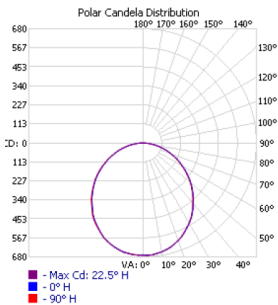
WF8 LED 27K30K35K MVOLT 90CRI, 2700K LED's, input watts: 20.66, delivered lumens: 1658, lm/w=80.2, test no. ISF 36826P113



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD																								
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	1.00	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			
2	.99	.90	.84	.78	.96	.88	.82	.71	.85	.80	.75	.82	.77	.73	.79	.75	.72	.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			
4	.82	.70	.62	.55	.80	.69	.61	.52	.67	.59	.54	.64	.58	.53	.62	.57	.52	.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			
6	.70	.57	.48	.41	.68	.56	.47	.40	.54	.46	.41	.52	.45	.40	.51	.45	.40	.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			
8	.60	.47	.38	.33	.59	.46	.38	.32	.45	.38	.32	.44	.37	.32	.42	.36	.32	.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			
10	.53	.40	.32	.27	.52	.39	.32	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24	.24	.24	.24			

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	% LUMINAIRE
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%

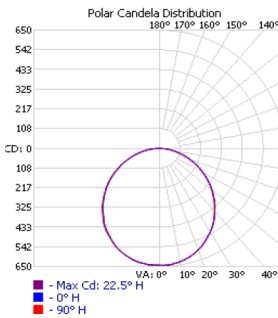
WF8 LED 27K30K35K MVOLT 90CRI, 3000K LED's, input watts: 19.83, delivered lumens: 1856, lm/w=93.5, test no. ISF 36826P114



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD																								
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	1.00	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			
2	.99	.90	.84	.78	.96	.88	.82	.71	.85	.80	.75	.82	.77	.73	.79	.75	.72	.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			
4	.82	.70	.62	.55	.80	.69	.61	.52	.67	.59	.54	.64	.58	.53	.62	.57	.52	.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			
6	.70	.57	.48	.41	.68	.56	.47	.40	.54	.46	.41	.52	.45	.40	.51	.45	.40	.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			
8	.60	.47	.38	.33	.59	.46	.38	.32	.45	.38	.32	.44	.37	.32	.42	.36	.32	.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			
10	.53	.40	.32	.27	.52	.39	.32	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24	.24	.24	.24			

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	% LUMINAIRE
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



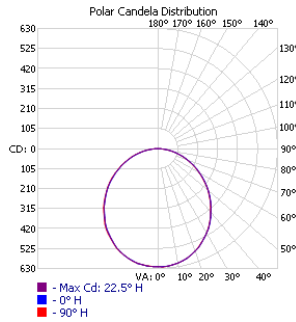
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD																								
EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%																								
RCC %:	80				70				50				30				10				0			
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	50	30	20	0			
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00	1.00	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			
2	.99	.90	.84	.78	.96	.88	.82	.71	.85	.80	.75	.82	.77	.73	.79	.75	.72	.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			
4	.82	.70	.62	.55	.80	.69	.61	.52	.67	.59	.54	.64	.58	.53	.62	.57	.52	.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			
6	.70	.57	.48	.41	.68	.56	.47	.40	.54	.46	.41	.52	.45	.40	.51	.45	.40	.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			
8	.60	.47	.38	.33	.59	.46	.38	.32	.45	.38	.32	.44	.37	.32	.42	.36	.32	.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			
10	.53	.40	.32	.27	.52	.39	.32	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24	.24	.24	.24			

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	% LUMINAIRE
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

PHOTOMETRICS

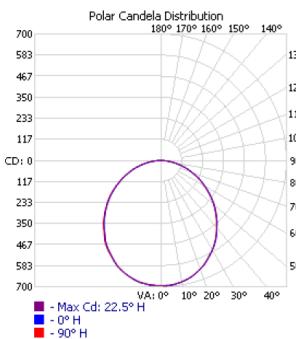
WF8 LED 30K/40K/50K MVOLT 90CRI, 3000K LED's, input watts: 20.41, delivered lumens: 1718, lm/w=84.2, test no. ISF 36826P116



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD																		
EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%																		
RCC %:	80				70				50		30		10					
RW %:	70	50	30	0	70	50	30	0	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	478.5	27.8%
0-40	777.3	45.2%
0-60	1351.5	78.7%
60-90	366.7	21.3%
70-100	161.2	9.4%
90-120	0	0%
0-90	1718.2	100%
90-180	0	0%
0-180	1718.3	100%

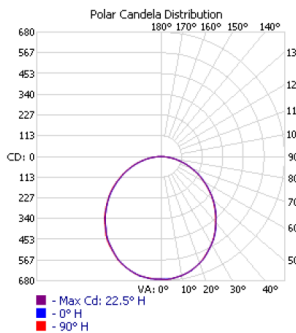
WF8 LED 30K/40K/50K MVOLT 90CRI, 4000K LED's, input watts: 19.64, delivered lumens: 1923, lm/w=97.9, test no. ISF 36826P117



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD																		
EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%																		
RCC %:	80				70				50		30		10					
RW %:	70	50	30	0	70	50	30	0	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	535.4	27.8%
0-40	869.8	45.2%
0-60	1512.3	78.7%
60-90	410.4	21.3%
70-100	180.4	9.4%
90-120	0	0%
0-90	1922.6	100%
90-180	0	0%
0-180	1922.7	100%

WF8 LED 30K/40K/50K MVOLT 90CRI, 5000K LED's, input watts: 20.61, delivered lumens: 1861, lm/w=90.3, test no. ISF 36826P118



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD																		
EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%																		
RCC %:	80				70				50		30		10					
RW %:	70	50	30	0	70	50	30	0	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	518.2	27.8%
0-40	841.9	45.2%
0-60	1463.7	78.7%
60-90	397.2	21.3%
70-100	174.6	9.4%
90-120	0	0%
0-90	1860.9	100%
90-180	0	0%
0-180	1860.9	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

WF8 LED 30K40K50K MVOLT			
Color Temperature	3000K	4000K	5000K
Lumens	1690	1850	1820
CRI	90	90	90
Rated wattage	20.5	20.5	20.5
Lu/Watts	82	90	89
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	
Watts	20.5
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 82 lumens per watt	
4000K cool white blanc froid	
1850 lumens 90 lumens per watt	
5000K daylight lumière du jour	
1820 lumens 89 lumens per watt	
Watts	20.5
Color Accuracy (CRI)	90
Précision des couleurs (CRI)	