

Catalog Number
Notes
Type

FEATURES & SPECIFICATIONS

INTENDED USE — The 6" Wafer-Thin LED square recessed downlight with remote driver box combines high quality light output and efficiency while eliminating the pot light housing for competitive affordability. This innovative wafer-slim Type IC design allows easy installation for new construction or remodel from below the ceiling without the requirement of a pot light housing. The LED module maintains at least 70% light output for 36,000 hours. These LED Wafer downlights are intended for closets, attics, hallways, bathrooms, kitchens, basements, soffits, entry ways, porches, garages, stairwells, corridors, nursing/retirement homes, condos, elevators, apartments, and any other small areas.

CONSTRUCTION — Ideal for shallow ceiling plenum since a pot light housing is NOT required. IC rated driver and fixture - approved for direct contact with insulation. Aluminum die cast outer frame. Durable, powder coat paint to prevent rust. Square fixture with integral edge-lit LED's. Steel spring clip for easy installation. Plenum rated cable connector to connect from module to remote driver box. 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 (8) 14 gauge insulated conductors, or (6) 12 gauge insulated conductors; making the Wafer LED Downlights much easier to wire in 2in/2out (plus ground) daisy-chain applications and contractor friendly.

PATENT PENDING.

INSTALLATION — Ideal for shallow ceiling plenum; no housing required. Steel spring clip for easy installation. 6" cut out template is provided to ensure a 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. 2" plenum space required for installation of the remote driver box.

OPTICS — Wafer-Thin downlight edge-lit LED technology uses light guided plate to distribute light. Polycarbonate lens provides even illumination throughout the space. Utilized 2700K, 3000K, 3500K, 4000K, and 5000K color temperature LEDs.

ELECTRICAL — Connect directly to 120V power supply via provided UL recognized driver. High efficient driver with power factor > 0.9. Ambient operating temperature: -40°F (-40°C) to +104°F (+40°C). Dimming down to 10% (See page 4 for recommended dimmers). Standard input wattage is 13W, 65 lumens per watt. Replaces 75W incandescent.

LISTINGS — CSA certified to US and Canadian safety standards. ENERGY STAR® certified product. Wet location. Air Tight certified in accordance with ASTM E283-2004. NOM Certified.

WARRANTY — 5-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

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

WF6 Square 6" LED Module

IC/Non-IC
New Construction/Remodel



Matte black



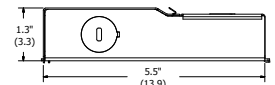
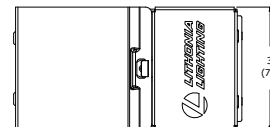
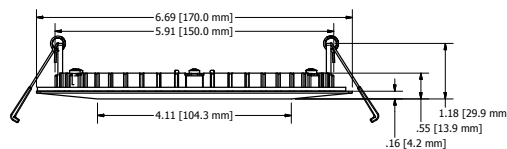
Brushed nickel



Oil-rubbed bronze

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.

ORDERING INFORMATION

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

Example: WF6 SQ B LED 30K MW

Series	LED	CCT/CRI/W/Lumens ¹	Finish
WF6 SQ B 6" wafer-thin square LED downlight, baffle trim	LED LED	27K 2700K/80CRI/13.9W/860L	MW Matte White
WF6 SQ S 6" wafer-thin square LED downlight, smooth trim		30K 3000K/80CRI/13.4W/880L	MB Matte Black
		35K² 3500K/80CRI/13.2W/900L	BN Brushed Nickel
		40K 4000K/80CRI/13.9W/920L	ORB Oil-Rubbed Bronze
		50K² 5000K/80CRI/14W/980L	

Accessories: Order as separate catalog number.

WF6 PAN R12	6" new construction pan, retail pack of 12
WFJB U	Remodel joist bar
WFEXC6 U	6' FT4 cable
WFEXC10 U	10' FT4 cable
WFEXC20 U	20' FT4 cable



WF6 Pan



Remodel Joist Bar



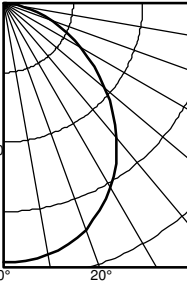
Extension Cable

Notes

- Total system delivered lumens.
- Only stocked in Matte White finish, enter non-stock order for other color finishes.

WF6 SQ 6" LED Wafer Module

PHOTOMETRICS

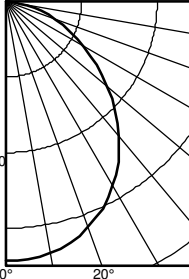
Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization									Illuminance Data at 30" Above Floor for a Single Luminaire																																
WF6 SQ S LED 40K, 4000K LEDs, input watts: 13.7, delivered lumens: 944, LM/W=68.9, test no. ISF 33169P3																																												
	Ave Lumens		Zone	Lumens	% Lamp	pf	80%			20%			50%			50% beam - 62.8°		10% beam - 106.1°																										
						pc	50%	30%	10%	50%	30%	10%	50%	30%	10%																													
	0	374	0° - 30°	287.7	30.5	0	119	119	119	116	116	116	111	111	111																													
	5	373	35	0° - 40°	463.5	49.1	1	105	101	97	103	99	96	98	95	93																												
	15	359	101	0° - 60°	777.6	82.4	2	92	86	80	90	84	79	87	82	77																												
	25	329	151	0° - 90°	944.2	100.0	3	81	73	67	80	72	67	77	71	65																												
	35	282	176	90° - 120°	0.0	0.0	4	72	64	57	71	63	57	69	62	56																												
	45	222	171	90° - 130°	0.0	0.0	5	65	56	50	64	56	50	62	55	49																												
	55	160	143	90° - 150°	0.0	0.0	6	59	50	44	58	50	44	56	49	43																												
	65	101	100	90° - 180°	0.0	0.0	7	53	45	39	53	44	39	51	44	38																												
	75	50	54	0° - 180°	944.2	*100.0	8	49	40	35	48	40	35	47	40	34																												
	85	11	13			*Efficiency	9	45	37	31	44	37	31	43	36	31																												
90	0					10	41	34	29	41	33	28	40	33	28																													
<table><tr><td rowspan="5">Mounting Height</td><td colspan="2">Initial FC</td><td rowspan="5">Diameter</td><td rowspan="5">FC</td><td rowspan="5">Diameter</td><td rowspan="5">FC</td></tr><tr><td>Beam</td><td>Center</td></tr><tr><td>8.0</td><td>12.3</td></tr><tr><td>10.0</td><td>6.6</td></tr><tr><td>12.0</td><td>4.1</td></tr><tr><td>14.0</td><td>2.8</td><td>14.0</td><td>1.4</td><td>30.6</td><td>0.3</td></tr><tr><td>16.0</td><td>2.0</td><td>16.5</td><td>1.0</td><td>35.9</td><td>0.2</td></tr></table>																		Mounting Height	Initial FC		Diameter	FC	Diameter	FC	Beam	Center	8.0	12.3	10.0	6.6	12.0	4.1	14.0	2.8	14.0	1.4	30.6	0.3	16.0	2.0	16.5	1.0	35.9	0.2
Mounting Height	Initial FC		Diameter	FC	Diameter	FC																																						
	Beam	Center																																										
	8.0	12.3																																										
	10.0	6.6																																										
	12.0	4.1																																										
14.0	2.8	14.0	1.4	30.6	0.3																																							
16.0	2.0	16.5	1.0	35.9	0.2																																							

WF6 SQ S LED 50K, 5000K LEDs, input watts: 14, delivered lumens: 1131, LM/W=80, test no. ISF 35157P1

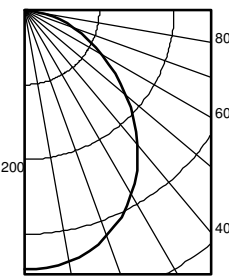
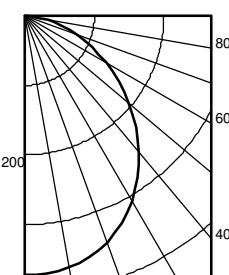
	Ave Lumens		Zone Lumens % Lamp		pf pc pw	80%			20% 70%			50%			50% beam - 63.3°		10% beam - 106.9°																																					
	0	434	0° - 30°	335.9		29.7	0	119	119	119	116	116	116	111	111	111																																						
	5	433	41	0° - 40°		543.1	48.0	1	105	101	97	102	99	95	98	95	92																																					
	15	418	118	0° - 60°		921.5	81.4	2	92	85	79	90	84	79	86	81	77																																					
	25	384	177	0° - 90°		1131.7	100.0	3	81	73	67	79	72	66	76	70	65																																					
	35	332	207	90° - 120°		0.0	0.0	4	72	63	57	71	63	56	68	61	56																																					
	45	266	205	90° - 130°		0.0	0.0	5	64	56	49	63	55	49	61	54	48																																					
	55	195	174	90° - 150°		0.0	0.0	6	58	49	43	57	49	43	55	48	42																																					
	65	126	125	90° - 180°		0.0	0.0	7	53	44	38	52	44	38	50	43	38																																					
	75	65	69	0° - 180°		1131.7	*100.0	8	48	40	34	48	40	34	46	39	34																																					
	85	14	17	*Efficiency		9	44	36	31	44	36	31	43	36	31																																							
	90	0					10	41	33	28	40	33	28	39	33	28																																						
Initial FC <table><tr><th>Mounting Height</th><th>Center Beam</th><th>Diameter</th><th>FC</th><th>Diameter</th><th>FC</th></tr><tr><td>8.0</td><td>14.3</td><td>6.8</td><td>7.2</td><td>14.9</td><td>1.4</td></tr><tr><td>10.0</td><td>7.7</td><td>9.2</td><td>3.9</td><td>20.3</td><td>0.8</td></tr><tr><td>12.0</td><td>4.8</td><td>11.7</td><td>2.4</td><td>25.7</td><td>0.5</td></tr><tr><td>14.0</td><td>3.3</td><td>14.2</td><td>1.6</td><td>31.1</td><td>0.3</td></tr><tr><td>16.0</td><td>2.4</td><td>16.6</td><td>1.2</td><td>36.5</td><td>0.2</td></tr></table>																		Mounting Height	Center Beam	Diameter	FC	Diameter	FC	8.0	14.3	6.8	7.2	14.9	1.4	10.0	7.7	9.2	3.9	20.3	0.8	12.0	4.8	11.7	2.4	25.7	0.5	14.0	3.3	14.2	1.6	31.1	0.3	16.0	2.4	16.6	1.2	36.5	0.2	
Mounting Height	Center Beam	Diameter	FC	Diameter		FC																																																
8.0	14.3	6.8	7.2	14.9		1.4																																																
10.0	7.7	9.2	3.9	20.3		0.8																																																
12.0	4.8	11.7	2.4	25.7		0.5																																																
14.0	3.3	14.2	1.6	31.1		0.3																																																
16.0	2.4	16.6	1.2	36.5	0.2																																																	

WF6 SQ 6" LED Wafer Module

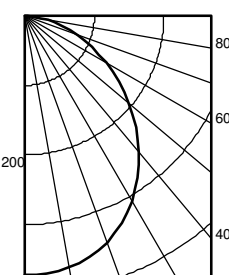
PHOTOMETRICS

Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance Data at 30" Above Floor for a Single Luminaire													
WF6 SQ B LED 27K, 2700K LEDs, input watts: 14.3, delivered lumens: 895, LM/W=62.5, test no. ISF 33186																	
	Ave Lumens		Zone Lumens % Lamp	pf	80%			20%			50%						
				pc				70%									
				pw	50%	30%	10%	50%	30%	10%	50%	30%	10%				
	0	343	0° - 30° 264.3 30.3	0	119	119	119	116	116	116	111	111	111	50% beam - 62.8°			
	5	342 33	0° - 40° 425.8 48.9	1	105	101	97	102	99	95	98	95	92	10% beam - 106.0°			
	15	330 93	0° - 60° 714.0 82.0	2	92	85	80	90	84	79	86	81	77				
	25	302 139	0° - 90° 871.3 100.0	3	81	73	67	80	72	66	77	70	65				
	35	259 161	90° - 120° 0.0 0.0	4	72	64	57	71	63	57	68	62	56				
	45	204 157	90° - 130° 0.0 0.0	5	65	56	50	64	55	49	62	54	49				
	55	147 131	90° - 150° 0.0 0.0	6	59	50	44	58	49	43	56	48	43				
65	93 93	90° - 180° 0.0 0.0	7	53	45	39	52	44	38	51	44	38					
75	48 51	0° - 180° 871.3 *100.0	8	49	40	35	48	40	34	47	39	34					
85	11 13	*Efficiency	9	45	37	31	44	36	31	43	36	31					
90	0		10	41	34	28	41	33	28	40	33	28					
				Initial FC		Mounting Height		Center Beam		Diameter		FC		Diameter		FC	
				8.0 11.4		6.7 5.7		14.6 1.1									
				10.0 6.1		9.2 3.1		19.9 0.6									
				12.0 3.8		11.6 1.9		25.2 0.4									
				14.0 2.6		14.0 1.3		30.5 0.3									
				16.0 1.9		16.5 0.9		35.8 0.2									

WF6 SQ B LED 30K, 3000K LEDs, input watts: 13.42, delivered lumens: 881, LM/W=65.6, test no. ISF 33186P2

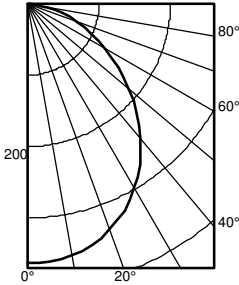
	Ave Lumens		Zone Lumens % Lamp	pf	80%			20%			50%				
				pc											
				pw	50%	30%	10%	50%	30%	10%	50%	30%	10%		
	0 347		0° - 30° 267.4 30.3	0	119	119	119	116	116	116	111	111	111		
	5 346		0° - 40° 430.7 48.9	1	105	101	97	102	99	95	98	95	92		
	15 333		0° - 60° 722.3 82.0	2	92	85	80	90	84	79	86	81	77		
	25 306		0° - 90° 881.4 100.0	3	81	73	67	80	72	66	77	70	65		
	35 262		90° - 120° 0.0 0.0	4	72	64	57	71	63	57	68	62	56		
	45 206		90° - 130° 0.0 0.0	5	65	56	50	64	55	49	62	54	49		
	55 149		90° - 150° 0.0 0.0	6	59	50	44	58	49	43	56	48	43		
	65 94		90° - 180° 0.0 0.0	7	53	45	39	52	44	38	51	44	38		
	75 49		0° - 180° 881.4 *100.0	8	49	40	35	48	40	34	47	39	34		
	85 11		*Efficiency	9	45	37	31	44	36	31	43	36	31		
	90 0			10	41	34	28	41	33	28	40	33	28		

WF6 SQ B LED 35K, 3500K LEDs, input watts: 13.2, delivered lumens: 966, LM/W=73, test no. ISF 35158

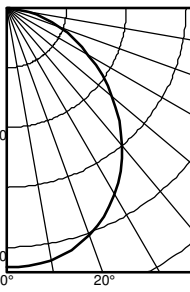
	Ave Lumens		Zone Lumens % Lamp	pf	80%			20%			50%				
				pc											
				pw	50%	30%	10%	50%	30%	10%	50%	30%	10%		
	0 373		0° - 30° 287.6 29.8	0	119	119	119	116	116	116	111	111	111		
	5 372		0° - 40° 464.3 48.0	1	105	100	97	102	99	95	98	95	92		
	15 359		0° - 60° 785.4 81.3	2	92	85	79	90	84	78	86	81	77		
	25 328		0° - 90° 966.4 100.0	3	81	73	66	79	72	66	76	70	65		
	35 283		90° - 120° 0.0 0.0	4	72	63	57	71	62	56	68	61	56		
	45 226		90° - 130° 0.0 0.0	5	64	56	49	63	55	49	61	54	48		
	55 165		90° - 150° 0.0 0.0	6	58	49	43	57	49	43	55	48	42		
	65 107		90° - 180° 0.0 0.0	7	53	44	38	52	44	38	50	43	38		
	75 56		0° - 180° 966.4 *100.0	8	48	40	34	48	40	34	46	39	34		
	85 13		*Efficiency	9	44	36	31	44	36	31	43	36	31		
	90 0			10	41	33	28	40	33	28	39	33	28		

WF6 SQ 6" LED Wafer Module

PHOTOMETRICS

Distribution Curve	Distribution Data		Output Data			Coefficient of Utilization			Illuminance Data at 30" Above Floor for a Single Luminaire										
WF6 SQ B LED 40K, 4000K LEDs, input watts: 13.9, delivered lumens: 923, LM/W=66.4, test no. ISF 33186P3																			
	Ave	Lumens	Zone	Lumens	% Lamp	pf	80%			20%			50%			50% beam - 62.8°		10% beam - 106.1°	
						pc	50%	30%	10%	50%	30%	10%	50%	30%	10%				
	0	364	0° - 30°	280.2	30.3	0	119	119	119	116	116	116	111	111	111	Initial FC			
	5	363	0° - 40°	451.4	48.9	1	105	101	97	102	99	95	98	95	92	Center			
	15	349	0° - 60°	757.0	82.0	2	92	85	80	90	84	79	86	81	77	Mounting			
	25	320	0° - 90°	923.7	100.0	3	81	73	67	80	72	66	77	70	65	Height			
	35	274	90° - 120°	0.0	0.0	4	72	64	57	71	63	57	68	62	56	Beam			
	45	216	90° - 130°	0.0	0.0	5	65	56	50	64	55	49	62	54	49	Diameter			
	55	156	90° - 150°	0.0	0.0	6	59	50	44	58	49	43	56	48	43	FC			
	65	99	90° - 180°	0.0	0.0	7	53	45	39	52	44	38	51	44	38	Diameter			
	75	51	0° - 180°	923.7	*100.0	8	49	40	35	48	40	34	47	39	34	FC			
	85	12	*Efficiency			9	45	37	31	44	36	31	43	36	31	Diameter			
	90	0				10	41	34	28	41	33	28	40	33	28	FC			

WF6 SQ B LED 50K, 5000K LEDs, input watts: 14, delivered lumens: 1131, LM/W=80, test no. ISF 35157P2

	Ave Lumens		Zone	Lumens	% Lamp	pf	80%			20%			50%			50% beam - 63.3°		10% beam - 106.9°	
						pc	50%	30%	10%	50%	30%	10%	50%	30%	10%				
	0	434	0° - 30°	335.9	29.7	0	119	119	119	116	116	116	111	111	111	Initial FC			
	5	433	0° - 40°	543.1	48.0	1	105	101	97	102	99	95	98	95	92	Center Beam			
	15	418	0° - 60°	921.5	81.4	2	92	85	79	90	84	79	86	81	77	Mounting Height			
	25	384	0° - 90°	1131.7	100.0	3	81	73	67	79	72	66	76	70	65	Diameter			
	35	332	90° - 120°	0.0	0.0	4	72	63	57	71	63	56	68	61	56	FC			
	45	266	90° - 130°	0.0	0.0	5	64	56	49	63	55	49	61	54	48	Diameter			
	55	195	90° - 150°	0.0	0.0	6	58	49	43	57	49	43	55	48	42	FC			
	65	126	90° - 180°	0.0	0.0	7	53	44	38	52	44	38	50	43	38	Diameter			
	75	65	0° - 180°	1131.7	*100.0	8	48	40	34	48	40	34	46	39	34	FC			
	85	14	*Efficiency			9	44	36	31	44	36	31	43	36	31	Diameter			
	90	0				10	41	33	28	40	33	28	39	33	28	FC			

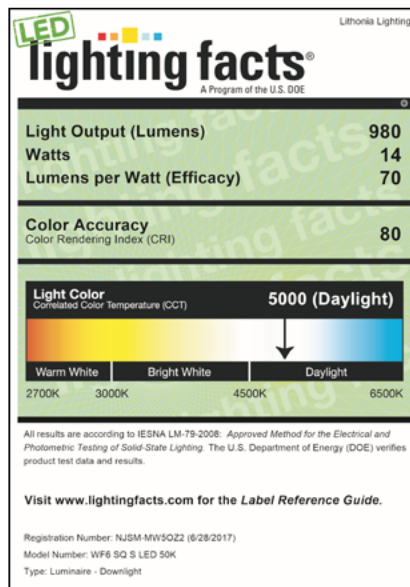
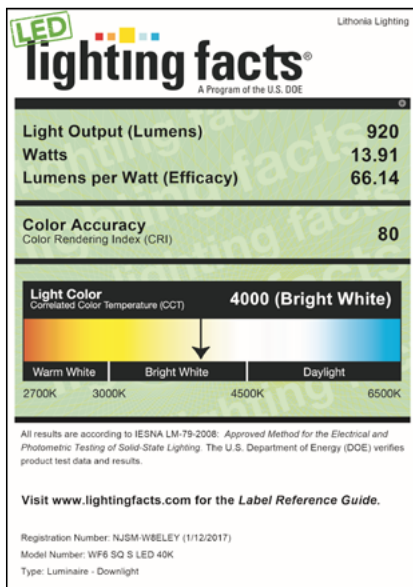
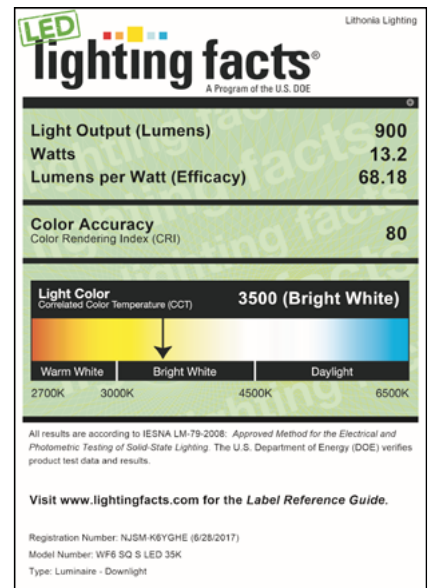
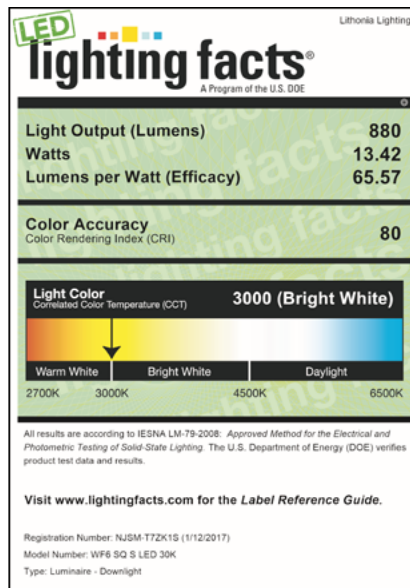
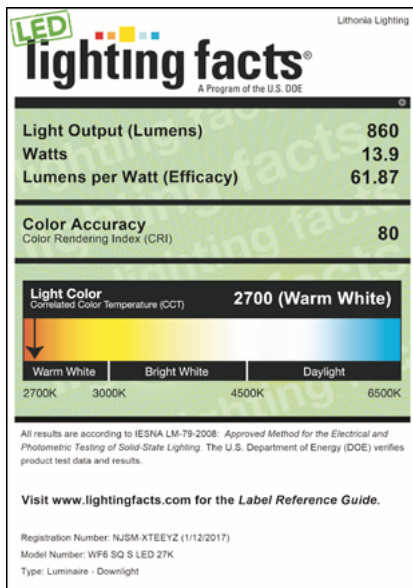
ENERGY DATA & DIMMING CAPABILITY

6" SQUARE ENERGY DATA					
Lumens	860	880	900	920	980
Color Temperature	2700K	3000K	3500K	4000K	5000K
CRI	80	80	80	80	80
Lu/Watts	61.9	65.6	68.2	66.1	70
Min. starting temp	-40°C (-40°F)				
EMI/RFI	FCC Title 47 CFR, Part 15, Class B				
Sound rating	Class A Standards				
Input voltage	120V				
Min. power factor	0.99				
Input frequency	50/60HZ				
Rated wattage	13.9W	13.4W	13.2W	13.9W	14W
Input power	13.9W	13.4W	13.2W	13.9W	14W
Input current	0.11A	0.11A	0.11A	0.11A	0.12A

COMPATIBLE DIMMERS			
Leviton	Lutron	Sensorswitch	Synergy/Leviton
6633-PA	DV-603P-LA	nSP5 PCD 2W	ISD 600 I 120/IP106
IPL06-LED/INC mode	CT-603PR-WH	nSP5 PCD ELV 120	ISD 400 ELV 120/IPE04
6615-P	DVELV-300P		
	NTELV-300P		
	NLV600		
	300P-SELV		
	DV-600P		
	Caseta PD-6WCL*		

* Requires Lutron Smart Bridge L-BDG2-WH (sold separately)

LIGHTING FACTS



LIGHTING FACTS

