

Catalog Number
Notes
Type

FEATURES & SPECIFICATIONS

INTENDED USE — The 4" 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 — 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. 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. 4" 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 4 1/4 inches for this product. Suitable for installation in t-grid and drop ceiling applications. 3" 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 10.3W, 60 lumens per watt. Replaces 50W incandescent.

LISTINGS — CSA certified to US and Canadian safety standards. ENERGY STAR® certified. 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

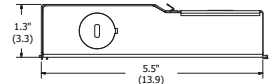
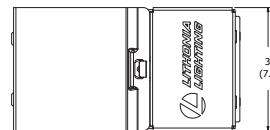
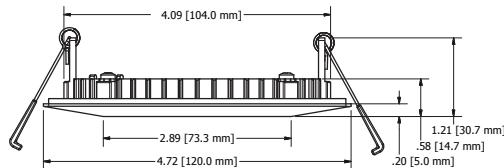
Note: Actual performance may differ as a result of end-user environment and application.

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

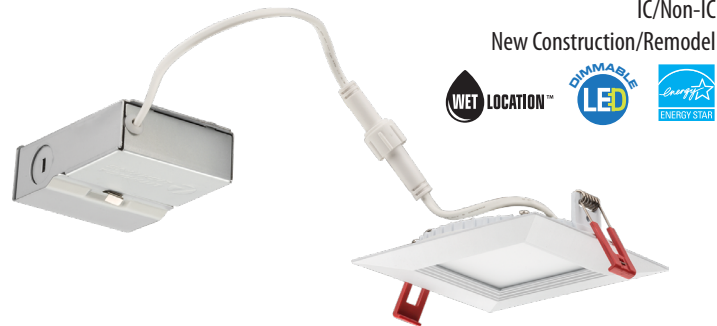
Specifications subject to change without notice.

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.



Matte black



Brushed nickel



Oil-rubbed bronze

ORDERING INFORMATION

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

Example: WF4 SQ B LED 30K MW

Series		LED	CCT/CRI/W/Lumens ¹		Finish	
		Lamp				
WF4 SQ B	4" wafer-thin square LED downlight, baffle trim	LED LED	27K	2700K/80CRI/10.4W/610L	MW	Matte White
WF4 SQ S	4" wafer-thin square LED downlight, smooth trim		30K	3000K/80CRI/10.3W/620L	MB	Matte Black
			35K²	3500K/80CRI/10.2W/630L	BN	Brushed Nickel
			40K	4000K/80CRI/10.28W/650L	ORB	Oil-Rubbed Bronze
			50K²	5000K/80CRI/10.2W/670L		

Accessories: Order as separate catalog number.

WF4 PAN R12	4" 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



WF4 Pan



Remodel Joist Bar



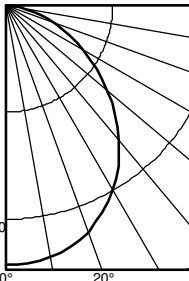
Extension Cable

Notes

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

WF4 SQ 4" LED Wafer Module

PHOTOMETRICS

Distribution Curve	Distribution Data		Output Data		Coefficient of Utilization			Illuminance Data at 30" Above Floor for a Single Luminaire												
WF4 SQ S LED 27K, 2700K LEDs, input watts: 10.66, delivered lumens: 614, LM/W=57.9, test no. ISF 33169P4																				
	Ave	Lumens	Zone	Lumens	% Lamp	pf	80%			70%			50%			50% beam - 62.8°		10% beam - 106.0°		
						pc	50%	30%	10%	50%	30%	10%	50%	30%	10%					
	0	243	0° - 30°	187.2	30.5	0	119	119	119	116	116	116	111	111	111	Initial FC				
	5	243	23	0° - 40°	301.5	49.1	1	105	101	97	103	99	96	98	95	93	Mounting	Center		
	15	233	66	0° - 60°	505.9	82.4	2	92	86	80	90	84	79	87	82	77	Height	Beam	Diameter	FC
	25	214	98	0° - 90°	614.3	100.0	3	81	73	67	80	72	67	77	71	65			Diameter	FC
	35	183	114	90° - 120°	0.0	0.0	4	72	64	57	71	63	57	69	62	56	8.0	8.0	6.7	4.0
	45	145	111	90° - 130°	0.0	0.0	5	65	56	50	64	56	50	62	55	49	10.0	4.3	9.2	2.2
	55	104	93	90° - 150°	0.0	0.0	6	59	50	44	58	50	44	56	49	43	12.0	2.7	11.6	1.3
	65	66	65	90° - 180°	0.0	0.0	7	53	45	39	53	44	39	51	44	38	14.0	1.8	14.0	0.9
	75	33	35	0° - 180°	614.3	*100.0	8	49	40	35	48	40	35	47	40	34	16.0	1.3	16.5	0.7
	85	7	8	*Efficiency			9	45	37	31	44	37	31	43	36	31				
	90	0					10	41	34	29	41	33	28	40	33	28				

WF4 SQ S LED 30K, 3000K LEDs, input watts: 10.23, delivered lumens: 659, LM/W=64.4, test no. ISF 33169P5

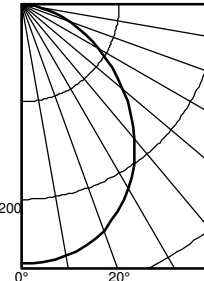
	Ave	Lumens	Zone	Lumens	% Lamp	pf	80%			70%			50%			50% beam - 62.8°		10% beam - 106.0°	
						pc	50%	30%	10%	50%	30%	10%	50%	30%	10%				
	0	261	0° - 30°	201.0	30.5	0	119	119	119	116	116	116	111	111	111	Initial FC			
	5	261	0° - 40°	323.7	49.1	1	105	101	97	103	99	96	98	95	93	Mounting	Center		
	15	251	0° - 60°	543.2	82.4	2	92	86	80	90	84	79	87	82	77	Height	Beam	Diameter	FC
	25	229	0° - 90°	659.6	100.0	3	81	73	67	80	72	67	77	71	65			Diameter	FC
	35	197	90° - 120°	0.0	0.0	4	72	64	57	71	63	57	69	62	56	8.0	8.6	6.7	4.3
	45	155	90° - 130°	0.0	0.0	5	65	56	50	64	56	50	62	55	49	10.0	4.6	9.2	2.3
	55	112	90° - 150°	0.0	0.0	6	59	50	44	58	50	44	56	49	43	12.0	2.9	11.6	1.4
	65	71	90° - 180°	0.0	0.0	7	53	45	39	53	44	39	51	44	38	14.0	2.0	14.0	1.0
	75	35	0° - 180°	659.6	*100.0	8	49	40	35	48	40	35	47	40	34	16.0	1.4	16.5	0.7
	85	8	*Efficiency			9	45	37	31	44	37	31	43	36	31				
	90	0				10	41	34	29	41	33	28	40	33	28				

WF4 SQ S LED 35K, 3500K LEDs, input watts: 10.1, delivered lumens: 670, LM/W=66, test no. ISF 35409

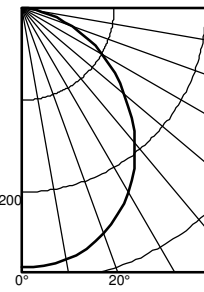
	Ave Lumens		Zone	Lumens	% Lamp	pf	80%			70%			50%			50% beam - 62.5°		10% beam - 106.3°	
						pc	50%	30%	10%	50%	30%	10%	50%	30%	10%				
	0	264	0° - 30°	202.6	30.3	0	119	119	119	116	116	116	111	111	111	Initial FC			
	5	263	0° - 40°	326.2	48.8	1	105	101	97	103	99	96	98	95	93	Mounting	Center		
	15	253	0° - 60°	549.5	82.2	2	92	85	80	90	84	79	87	82	77	Height	Beam		
	25	231	0° - 90°	668.9	100.0	3	81	73	67	80	72	67	77	70	65			Diameter	FC
	35	198	90° - 120°	0.0	0.0	4	72	64	57	71	63	57	68	62	56	8.0	8.7	6.7	4.4
	45	157	90° - 130°	0.0	0.0	5	65	56	50	64	55	49	62	54	49	10.0	4.7	9.1	2.3
	55	115	90° - 150°	0.0	0.0	6	59	50	44	58	49	43	56	48	43	12.0	2.9	11.5	1.5
	65	73	90° - 180°	0.0	0.0	7	53	45	39	52	44	38	51	44	38	14.0	2.0	14.0	1.0
	75	36	0° - 180°	668.9	*100.0	8	49	40	35	48	40	34	47	39	34	16.0	1.4	16.4	0.7
	85	6		*Efficiency		9	45	37	31	44	36	31	43	36	31				
	90	0				10	41	34	28	41	33	28	40	33	28				

WF4 SQ 4" LED Wafer Module

PHOTOMETRICS

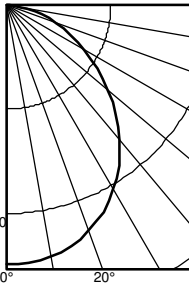
Distribution Curve	Distribution Data		Output Data		Coefficient of Utilization					Illuminance Data at 30" Above Floor for a Single Luminaire										
WF4 SQ S LED 40K, 4000K LEDs, input watts: 10.4, delivered lumens: 672, LM/W=64.6, test no. ISF 33169P6																				
	Ave Lumens		Zone	Lumens	% Lamp	pf pc pw	80%			20% 70%			50%			50% beam - 62.8°		10% beam - 106.0°		
	0	266	0° - 30°	205.0	30.5	0	119	119	119	116	116	116	111	111	111					
	5	266	0° - 40°	330.1	49.1	1	105	101	97	103	99	96	98	95	93					
	15	256	0° - 60°	553.9	82.4	2	92	86	80	90	84	79	87	82	77					
	25	234	0° - 90°	672.6	100.0	3	81	73	67	80	72	67	77	71	65					
	35	201	90° - 120°	0.0	0.0	4	72	64	57	71	63	57	69	62	56					
	45	158	90° - 130°	0.0	0.0	5	65	56	50	64	56	50	62	55	49					
	55	114	90° - 150°	0.0	0.0	6	59	50	44	58	50	44	56	49	43					
	65	72	90° - 180°	0.0	0.0	7	53	45	39	53	44	39	51	44	38					
	75	36	0° - 180°	672.6	*100.0	8	49	40	35	48	40	35	47	40	34					
	85	8	*Efficiency				9	45	37	31	44	37	31	43	36	31				
	90	0					10	41	34	29	41	33	28	40	33	28				
													Initial FC							
													Mounting Height	Center Beam	Diameter	FC	Diameter	FC		
													8.0	8.8	6.7	4.4	14.6	0.9		
													10.0	4.7	9.2	2.4	19.9	0.5		
													12.0	2.9	11.6	1.5	25.2	0.3		
													14.0	2.0	14.0	1.0	30.5	0.2		
													16.0	1.5	16.5	0.7	35.8	0.1		

WF4 SQ S LED 50K, 5000K LEDs, input watts: 10.3, delivered lumens: 718, LM/W=70, test no. ISF 35162P2

	Ave Lumens		Zone	Lumens	% Lamp	pf pc pw	80%			20% 70%			50%			50% beam - 62.8°		10% beam - 106.5°							
							50%	30%	10%	50%	30%	10%	50%	30%	10%										
	0	282	0° - 30°	217.1	30.2	0	119	119	119	116	116	116	111	111	111										
	5	281	0° - 40°	349.9	48.6	1	105	101	97	103	99	96	98	95	93										
	15	271	0° - 60°	590.3	82.0	2	92	85	80	90	84	79	87	82	77										
	25	248	0° - 90°	719.6	100.0	3	81	73	67	80	72	66	77	70	65										
	35	213	90° - 120°	0.0	0.0	4	72	64	57	71	63	57	68	61	56										
	45	169	90° - 130°	0.0	0.0	5	65	56	50	64	55	49	62	54	49										
	55	124	90° - 150°	0.0	0.0	6	58	50	43	58	49	43	56	48	43										
	65	79	90° - 180°	0.0	0.0	7	53	45	39	52	44	38	51	43	38										
	75	40	0° - 180°	719.6	*100.0	8	49	40	35	48	40	34	47	39	34										
	85	6		*Efficiency		9	45	37	31	44	36	31	43	36	31										
90	0				10	41	33	28	41	33	28	40	33	28											
																		Initial FC							
																		Mounting Height	Center Beam	Diameter	FC	Diameter	FC		
																		8.0	9.3	6.7	4.7	14.7	0.9		
																		10.0	5.0	9.2	2.5	20.1	0.5		
																		12.0	3.1	11.6	1.6	25.4	0.3		
																		14.0	2.1	14.0	1.1	30.8	0.2		
																		16.0	1.5	16.5	0.8	36.1	0.2		

WF4 SQ 4" LED Wafer Module

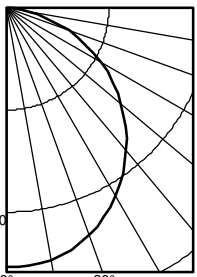
PHOTOMETRICS

Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance Data at 30" Above Floor for a Single Luminaire																	
	WF4 SQ B LED 27K, 2700K LEDs, input watts: 10.38, delivered lumens: 631, LM/W=60.7, test no. ISF 33186P4																				
						pf															
						pc															
						pw															
						80%			20%			50%			50% beam - 62.8°			10% beam - 106.0°			
						50%	30%	10%	50%	30%	10%	50%	30%	10%							
	Ave	Lumens	Zone	Lumens	% Lamp	0	119	119	119	116	116	116	111	111	111						
	0	249	0° - 30°	191.7	30.3	1	105	101	97	102	99	95	98	95	92						
	5	248	0° - 40°	308.8	48.9	2	92	85	80	90	84	79	86	81	77						
	15	239	0° - 60°	517.8	82.0	3	81	73	67	80	72	66	77	70	65						
	25	219	0° - 90°	631.8	100.0	4	72	64	57	71	63	57	68	62	56						
	35	188	90° - 120°	0.0	0.0	5	65	56	50	64	55	49	62	54	49						
45	148	90° - 130°	0.0	0.0	6	59	50	44	58	49	43	56	48	43							
55	107	90° - 150°	0.0	0.0	7	53	45	39	52	44	38	51	44	38							
65	67	90° - 180°	0.0	0.0	8	49	40	35	48	40	34	47	39	34							
75	35	0° - 180°	631.8	*100.0	9	45	37	31	44	36	31	43	36	31							
85	8	*Efficiency			10	41	34	28	41	33	28	40	33	28							
90	0																				

WF4 SQ B LED 30K, 3000K LEDs, input watts: 10.36, delivered lumens: 633, LM/W=61.1, test no. ISF 33186P5

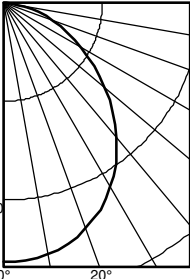
	Ave Lumens		Zone	Lumens	% Lamp	pf pc pw	80%			20% 70%			50%			50% beam - 62.8°		10% beam - 106.0°	
	0	250	0° - 30°	192.1	30.3	0	119	119	119	116	116	116	111	111	111	Initial FC			
	5	249	0° - 40°	309.5	48.9	1	105	101	97	102	99	95	98	95	92	Mounting	Center		
	15	240	0° - 60°	519.0	82.0	2	92	85	80	90	84	79	86	81	77	Height	Beam	Diameter	FC
	25	220	0° - 90°	633.3	100.0	3	81	73	67	80	72	66	77	70	65	8.0	8.2	6.7	4.1
	35	188	90° - 120°	0.0	0.0	4	72	64	57	71	63	57	68	62	56	10.0	4.4	9.2	2.2
	45	148	90° - 130°	0.0	0.0	5	65	56	50	64	55	49	62	54	49	12.0	2.8	11.6	1.4
	55	107	90° - 150°	0.0	0.0	6	59	50	44	58	49	43	56	48	43	14.0	1.9	14.0	0.9
	65	68	90° - 180°	0.0	0.0	7	53	45	39	52	44	38	51	44	38	16.0	1.4	16.5	0.7
	75	35	0° - 180°	633.3	*100.0	8	49	40	35	48	40	34	47	39	34				
	85	8	*Efficiency			9	45	37	31	44	36	31	43	36	31				
	90	0				10	41	34	28	41	33	28	40	33	28				

WF4 SQ B LED 35K, 3500K LEDs, input watts: 10, delivered lumens: 700, LM/W=70, test no. ISF 35163

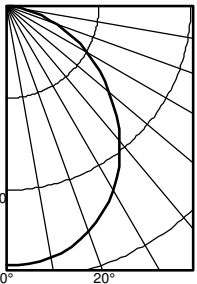
	Ave	Lumens	Zone	Lumens	% Lamp	pf	80%			20%			50%			50% beam - 63.9°		10% beam - 109.0°	
	0	254	0° - 30°	197.1	28.2	0	119	119	119	116	116	116	111	111	111	Initial FC			
	5	254	0° - 40°	321.3	45.9	1	104	100	97	102	98	95	98	95	92	Mounting	Center	Diameter	FC
	15	245	0° - 60°	561.8	80.3	2	91	84	79	89	83	78	86	81	76				
	25	226	0° - 90°	699.6	100.0	3	80	72	66	79	71	65	76	69	64	Height	Beam	Diameter	FC
	35	199	90° - 120°	0.0	0.0	4	71	62	56	70	62	55	67	60	55				
	45	165	90° - 130°	0.0	0.0	5	64	55	48	62	54	48	60	53	47	8.0	8.4	6.9	4.2
	55	127	90° - 150°	0.0	0.0	6	57	48	42	56	48	42	54	47	41	10.0	4.5	9.4	2.3
	65	86	90° - 180°	0.0	0.0	7	52	43	37	51	43	37	50	42	37	12.0	2.8	11.9	1.4
	75	42	0° - 180°	699.6	*100.0	8	47	39	33	47	39	33	45	38	33	14.0	1.9	14.4	1.0
	85	6	8	*Efficiency		9	43	35	30	43	35	30	42	35	29	16.0	1.4	16.8	0.7
	90	0				10	40	32	27	40	32	27	39	32	27				

WF4 SQ 4" LED Wafer Module

PHOTOMETRICS

Distribution Curve	Distribution Data		Output Data			Coefficient of Utilization			Illuminance Data at 30" Above Floor for a Single Luminaire														
WF4 SQ B LED 40K, 4000K LEDs, input watts: 10.28, delivered lumens: 667, LM/W=64.88, test no. ISF 33186P6																							
	Ave	Lumens	Zone	Lumens	% Lamp	pf	80%			20%			50%										
						pc	50%	30%	10%	50%	30%	10%	50%	30%	10%								
	0	263	0° - 30°	202.4	30.3	0	119	119	119	116	116	116	111	111	111								
	5	262	25	0° - 40°	326.1	48.9	1	105	101	97	102	99	95	98	95	92							
	15	252	71	0° - 60°	546.8	82.0	2	92	85	80	90	84	79	86	81	77							
	25	231	106	0° - 90°	667.2	100.0	3	81	73	67	80	72	66	77	70	65							
	35	198	124	90° - 120°	0.0	0.0	4	72	64	57	71	63	57	68	62	56							
	45	156	120	90° - 130°	0.0	0.0	5	65	56	50	64	55	49	62	54	49							
	55	113	100	90° - 150°	0.0	0.0	6	59	50	44	58	49	43	56	48	43							
	65	71	71	90° - 180°	0.0	0.0	7	53	45	39	52	44	38	51	44	38							
	75	37	39	0° - 180°	667.2	*100.0	8	49	40	35	48	40	34	47	39	34							
	85	9	10	*Efficiency			9	45	37	31	44	36	31	43	36	31							
90	0					10	41	34	28	41	33	28	40	33	28								
														50% beam - 62.8°						10% beam - 106.0°			
														Initial FC									
														Mounting	Center								
														Height	Beam	Diameter	FC	Diameter	FC				
														8.0	8.7	6.7	4.3	14.6	0.9				
														10.0	4.7	9.2	2.3	19.9	0.5				
														12.0	2.9	11.6	1.5	25.2	0.3				
														14.0	2.0	14.0	1.0	30.5	0.2				
														16.0	1.4	16.5	0.7	35.8	0.1				

WF4 SQ B LED 50K, 5000K LEDs, input watts: 10.3, delivered lumens: 720, LM/W=70, test no. ISF 35162

	Ave	Lumens	Zone	Lumens	% Lamp	pt pc pw	80%			20%			50%													
	0	282	0° - 30°	217.1	30.2	0	119	119	119	116	116	116	111	111	111											
	5	281	0° - 40°	349.9	48.6	1	105	101	97	103	99	96	98	95	93											
	15	271	0° - 60°	590.3	82.0	2	92	85	80	90	84	79	87	82	77											
	25	248	0° - 90°	719.6	100.0	3	81	73	67	80	72	66	77	70	65											
	35	213	90° - 120°	0.0	0.0	4	72	64	57	71	63	57	68	61	56											
	45	169	90° - 130°	0.0	0.0	5	65	56	50	64	55	49	62	54	49											
	55	124	90° - 150°	0.0	0.0	6	58	50	43	58	49	43	56	48	43											
	65	79	90° - 180°	0.0	0.0	7	53	45	39	52	44	38	51	43	38											
	75	40	0° - 180°	719.6	*100.0	8	49	40	35	48	40	34	47	39	34											
	85	6	9	*Efficiency		9	45	37	31	44	36	31	43	36	31											
	90	0				10	41	33	28	41	33	28	40	33	28											
															50% beam - 62.8°		10% beam - 106.5°									
															Initial FC											
															Mounting	Center	Diameter	FC	Diameter	FC						
															Height	Beam										
															8.0	9.3	6.7	4.7	14.7	0.9						
															10.0	5.0	9.2	2.5	20.1	0.5						
															12.0	3.1	11.6	1.6	25.4	0.3						
															14.0	2.1	14.0	1.1	30.8	0.2						
															16.0	1.5	16.5	0.8	36.1	0.2						

ENERGY DATA & DIMMER COMPATIBILITY

4" SMOOTH ENERGY DATA					
Color Temperature	2700K	3000K	3500K	4000K	5000K
Lumens	610	620	630	650	670
CRI	>80				
Lumens/Watt	57.01	60.19	61.76	62.5	65.69
Min. starting temperature	-40°C (-40°F)				
EMI/RFI	FCC Title 47 CFR, Part 15, Class B				
Sound Rating	A Standards				
Input voltage	120V				
Min. power factor	0.99				
Input frequency	50/60HZ				
Rated wattage	10.7	10.3	10.2	10.4	10.2
Input power	10.7	10.3	10.2	10.4	10.2
Input current	.08A				

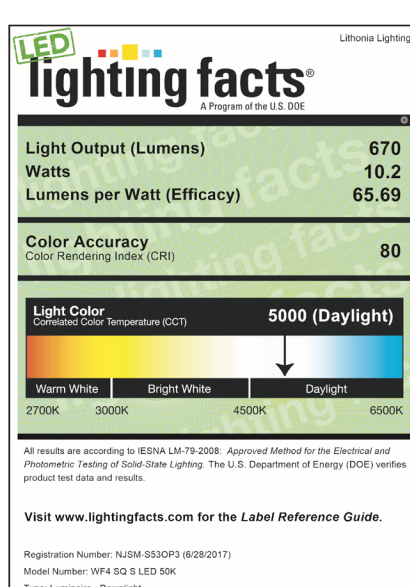
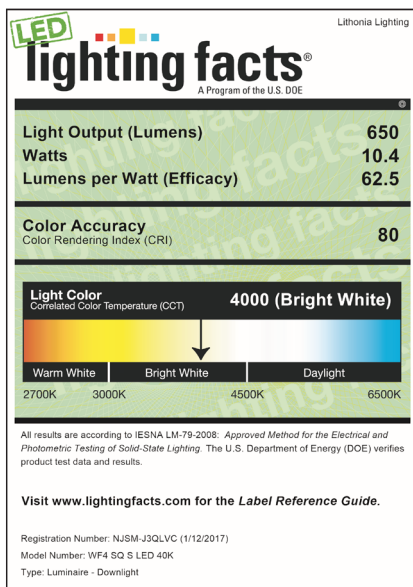
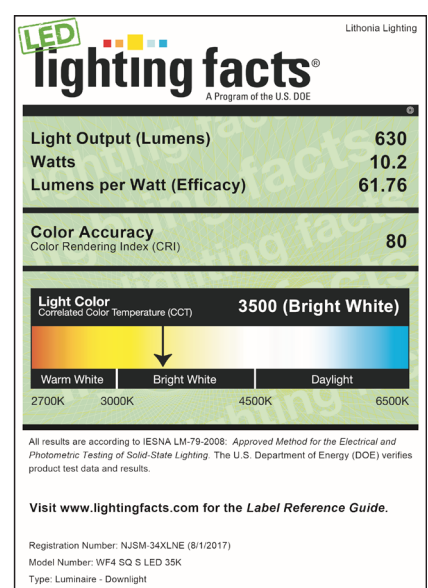
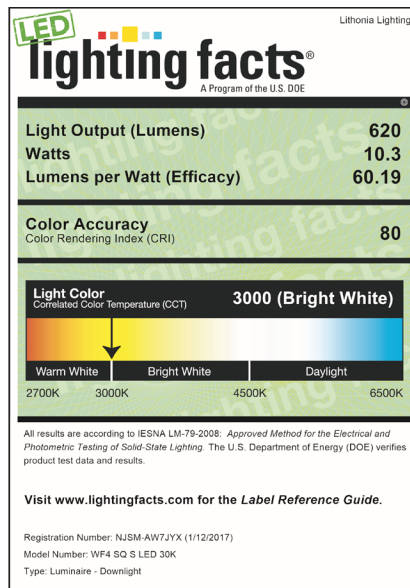
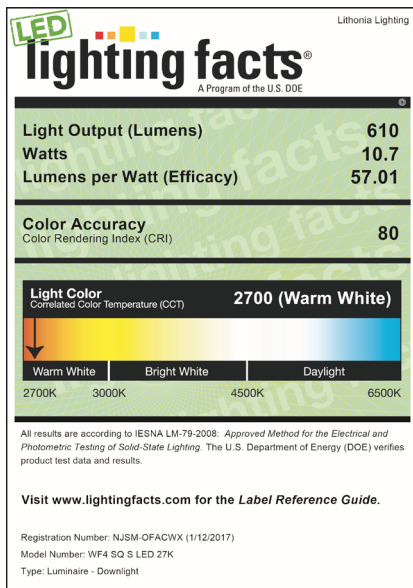
4" BAFFLE ENERGY DATA					
Color Temperature	2700K	3000K	3500K	4000K	5000K
Lumens	610	620	630	650	670
CRI	>80				
Lumens/Watt	58.65	59.85	61.76	63.23	65.69
Min. starting temperature	-40°C (-40°F)				
EMI/RFI	FCC Title 47 CFR, Part 15, Class B				
Sound Rating	A Standards				
Input voltage	120V				
Min. power factor	0.99				
Input frequency	50/60HZ				
Rated wattage	10.4	10.36	10.2	10.28	10.2
Input power	10.4	10.36	10.2	10.28	10.2
Input current	.08A				

COMPATIBLE DIMMERS				
Insteon	Leviton	Lutron	Sensorswitch	Synergy/Leviton
2477D	6633-PA	CTCL-153P-WH	nSP5 PCD 2W	ISD 600 I 120/IP106
	IPL06-LED/INC mode	DV-603P-LA	nSP5 PCD ELV 120	ISD 400 ELV 120/IPE04
	6615-P	CT-603PR-WH		
		DVELV-300P		
		NTELV-300P		
		NLV600		
		300P-SELV		
		DV-600P		
		AYCL-153P-WH		
		Caseta PD-6WCL*		

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

WF4 SQ 4" LED Wafer Module

LIGHTING FACTS



LIGHTING FACTS

