LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

FEATURES & SPECIFICATIONS

INTENDED USE — The 6" Wafer™ LED square recessed downlight with remote driver box combines high quality light output and efficiency while eliminating the 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 housing. The LED module maintains at least 70% light output for 36,000 hours. These Wafer™ LED 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. 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.

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. Color temperature LEDs.

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). 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). 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.

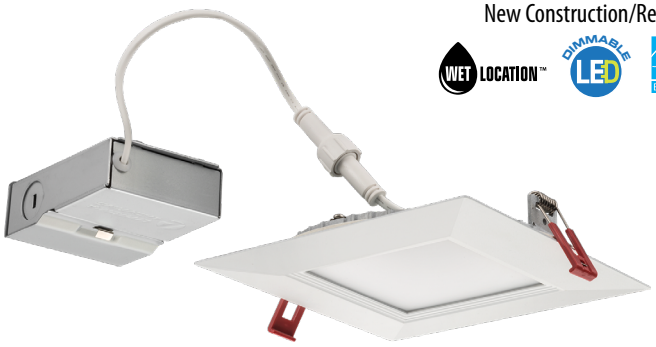
WARRANTY — 5-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

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

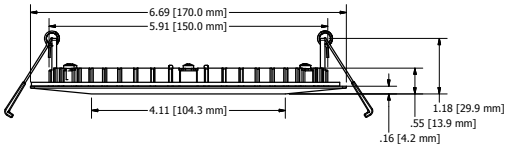
WF6 Square MVOLT 6" LED Module

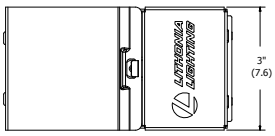
IC/Non-IC
New Construction/Remodel

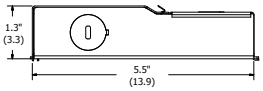


Specifications

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

Example: WF6 SQ B LED 30K MVOLT MW

	LED			
Series	**Lamp**	**CCT/CRI/W/Lumens[1]**	**Voltage**	**Finish**
WF6 SQ B 6" wafer-thin square LED downlight, baffle trim **WF6 SQ S** 6" wafer-thin square LED downlight, smooth trim	**LED** LED	**27K** 2700K/80CRI/13.9W/860L **30K** 3000K/80CRI/13.4W/880L **35K** 3500K/80CRI/13.2W/900L **40K** 4000K/80CRI/13.9W/920L	**MVOLT** Multi-Volt (120V-277V)	**MW** Matte White

Notes
1 Total system delivered lumens.

Accessories: *Order as separate catalog number.*

WF8643 PAN U	Universal New Construction Pan
WFJB U	Remodel joist bar
WFEXC6 U	6' FT4 cable
WFEXC10 U	10' FT4 cable
WFEXC20 U	20' FT4 cable


WF8643

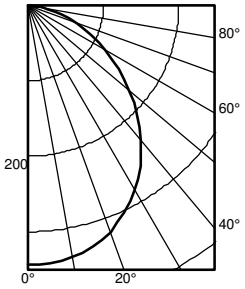

Remodel Joist Bar


Extension Cable

PHOTOMETRICS

Distribution Curve | **Distribution Data** | **Output Data** | **Coefficient of Utilization** | **Illuminance Data at 30" Above Floor for a Single Luminaire**

WF6 SQ S LED 27K, 2700K LEDs, input watts: 13.62, delivered lumens: 870, LM/W=63.8, test no. ISF 33169P1



	Ave	Lumens
0	344	
5	344	33
15	331	93
25	303	139
35	260	162
45	205	158
55	147	132
65	93	92
75	46	49
85	10	12
90	0	

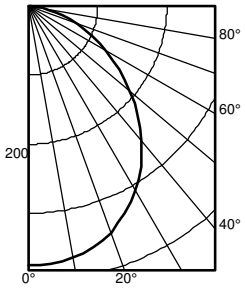
Zone	Lumens	% Lamp
0° - 30°	265.2	30.5
0° - 40°	427.1	49.1
0° - 60°	716.6	82.4
0° - 90°	870.1	100.0
90° - 120°	0.0	0.0
90° - 130°	0.0	0.0
90° - 150°	0.0	0.0
90° - 180°	0.0	0.0
0° - 180°	870.1	*100.0

*Efficiency

pf	80%			70%			50%		
pc									
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	105	101	97	103	99	96	98	95	93
2	92	86	80	90	84	79	87	82	77
3	81	73	67	80	72	67	77	71	65
4	72	64	57	71	63	57	69	62	56
5	65	56	50	64	56	50	62	55	49
6	59	50	44	58	50	44	56	49	43
7	53	45	39	53	44	39	51	44	38
8	49	40	35	48	40	35	47	40	34
9	45	37	31	44	37	31	43	36	31
10	41	34	29	41	33	28	40	33	28

		50% beam - 62.8°		10% beam - 106.0°	
Mounting Height	Inital FC 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 S LED 30K, 3000K LEDs, input watts: 13.86, delivered lumens: 950, LM/W=68.5, test no. ISF 33169P2



	Ave	Lumens
0	376	
5	376	36
15	361	102
25	331	152
35	283	177
45	224	172
55	161	144
65	102	101
75	50	54
85	11	13
90	0	

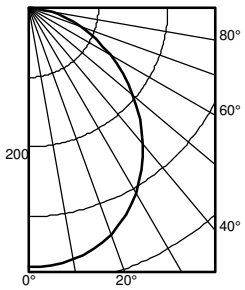
Zone	Lumens	% Lamp
0° - 30°	289.5	30.5
0° - 40°	466.3	49.1
0° - 60°	782.4	82.4
0° - 90°	950.0	100.0
90° - 120°	0.0	0.0
90° - 130°	0.0	0.0
90° - 150°	0.0	0.0
90° - 180°	0.0	0.0
0° - 180°	950.0	*100.0

*Efficiency

pf	80%			70%			50%		
pc									
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	105	101	97	103	99	96	98	95	93
2	92	86	80	90	84	79	87	82	77
3	81	73	67	80	72	67	77	71	65
4	72	64	57	71	63	57	69	62	56
5	65	56	50	64	56	50	62	55	49
6	59	50	44	58	50	44	56	49	43
7	53	45	39	53	44	39	51	44	38
8	49	40	35	48	40	35	47	40	34
9	45	37	31	44	37	31	43	36	31
10	41	34	29	41	33	28	40	33	28

		50% beam - 62.8°		10% beam - 106.1°	
Mounting Height	Inital FC Center Beam	Diameter	FC	Diameter	FC
8.0	12.4	6.7	6.2	14.6	1.2
10.0	6.7	9.2	3.3	19.9	0.7
12.0	4.2	11.6	2.1	25.2	0.4
14.0	2.8	14.0	1.4	30.6	0.3
16.0	2.1	16.5	1.0	35.9	0.2

WF6 SQ S LED 35K, 3500K LEDs, input watts: 13.2, delivered lumens: 966, LM/W=73, test no. ISF 35158P2



	Ave	Lumens
0	373	
5	372	35
15	359	101
25	328	151
35	283	177
45	226	174
55	165	147
65	107	106
75	56	60
85	13	16
90	0	

Zone	Lumens	% Lamp
0° - 30°	287.6	29.8
0° - 40°	464.3	48.0
0° - 60°	785.4	81.3
0° - 90°	966.4	100.0
90° - 120°	0.0	0.0
90° - 130°	0.0	0.0
90° - 150°	0.0	0.0
90° - 180°	0.0	0.0
0° - 180°	966.4	*100.0

*Efficiency

pf	80%			70%			50%		
pc									
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	105	100	97	102	99	95	98	95	92
2	92	85	79	90	84	78	86	81	77
3	81	73	66	79	72	66	76	70	65
4	72	63	57	71	62	56	68	61	56
5	64	56	49	63	55	49	61	54	48
6	58	49	43	57	49	43	55	48	42
7	53	44	38	52	44	38	50	43	38
8	48	40	34	48	40	34	46	39	34
9	44	36	31	44	36	31	43	36	31
10	41	33	28	40	33	28	39	33	28

		50% beam - 63.0°		10% beam - 106.6°	
Mounting Height	Inital FC Center Beam	Diameter	FC	Diameter	FC
8.0	12.3	6.7	6.2	14.8	1.2
10.0	6.6	9.2	3.3	20.1	0.7
12.0	4.1	11.6	2.1	25.5	0.4
14.0	2.8	14.1	1.4	30.9	0.3
16.0	2.0	16.5	1.0	36.2	0.2

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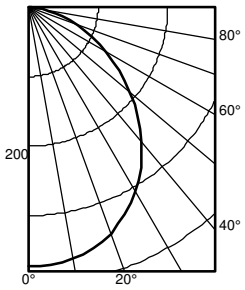
PHOTOMETRICS

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
0	374	
5	373	35
15	359	101
25	329	151
35	282	176
45	222	171
55	160	143
65	101	100
75	50	54
85	11	13
90	0	

Zone	Lumens	% Lamp
0° - 30°	287.7	30.5
0° - 40°	463.5	49.1
0° - 60°	777.6	82.4
0° - 90°	944.2	100.0
90° - 120°	0.0	0.0
90° - 130°	0.0	0.0
90° - 150°	0.0	0.0
90° - 180°	0.0	0.0
0° - 180°	944.2	*100.0

*Efficiency

pf	80%			70%			50%		
pc									
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	105	101	97	103	99	96	98	95	93
2	92	86	80	90	84	79	87	82	77
3	81	73	67	80	72	67	77	71	65
4	72	64	57	71	63	57	69	62	56
5	65	56	50	64	56	50	62	55	49
6	59	50	44	58	50	44	56	49	43
7	53	45	39	53	44	39	51	44	38
8	49	40	35	48	40	35	47	40	34
9	45	37	31	44	37	31	43	36	31
10	41	34	29	41	33	28	40	33	28

		50% beam - 62.8°		10% beam - 106.1°	
Mounting Height	Inital FC Center Beam	Diameter	FC	Diameter	FC
8.0	12.3	6.7	6.2	14.6	1.2
10.0	6.6	9.2	3.3	19.9	0.7
12.0	4.1	11.6	2.1	25.2	0.4
14.0	2.8	14.0	1.4	30.6	0.3
16.0	2.0	16.5	1.0	35.9	0.2

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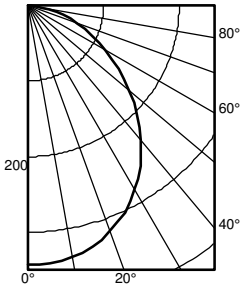
PHOTOMETRICS

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
0	343	
5	342	33
15	330	93
25	302	139
35	259	161
45	204	157
55	147	131
65	93	93
75	48	51
85	11	13
90	0	

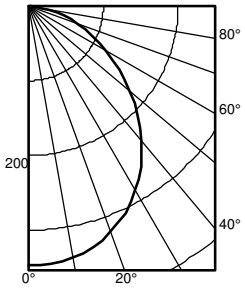
Zone	Lumens	% Lamp
0° - 30°	264.3	30.3
0° - 40°	425.8	48.9
0° - 60°	714.0	82.0
0° - 90°	871.3	100.0
90° - 120°	0.0	0.0
90° - 130°	0.0	0.0
90° - 150°	0.0	0.0
90° - 180°	0.0	0.0
0° - 180°	871.3	*100.0

*Efficiency

pf	20%								
pc	80%			70%			50%		
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	105	101	97	102	99	95	98	95	92
2	92	85	80	90	84	79	86	81	77
3	81	73	67	80	72	66	77	70	65
4	72	64	57	71	63	57	68	62	56
5	65	56	50	64	55	49	62	54	49
6	59	50	44	58	49	43	56	48	43
7	53	45	39	52	44	38	51	44	38
8	49	40	35	48	40	34	47	39	34
9	45	37	31	44	36	31	43	36	31
10	41	34	28	41	33	28	40	33	28

		50% beam - 62.8°		10% beam - 106.0°	
Mounting Height	Inital FC 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
0	347	
5	346	33
15	333	94
25	306	140
35	262	163
45	206	159
55	149	133
65	94	94
75	49	52
85	11	13
90	0	

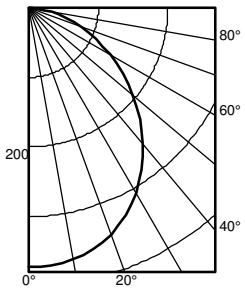
Zone	Lumens	% Lamp
0° - 30°	267.4	30.3
0° - 40°	430.7	48.9
0° - 60°	722.3	82.0
0° - 90°	881.4	100.0
90° - 120°	0.0	0.0
90° - 130°	0.0	0.0
90° - 150°	0.0	0.0
90° - 180°	0.0	0.0
0° - 180°	881.4	*100.0

*Efficiency

pf	20%								
pc	80%			70%			50%		
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	105	101	97	102	99	95	98	95	92
2	92	85	80	90	84	79	86	81	77
3	81	73	67	80	72	66	77	70	65
4	72	64	57	71	63	57	68	62	56
5	65	56	50	64	55	49	62	54	49
6	59	50	44	58	49	43	56	48	43
7	53	45	39	52	44	38	51	44	38
8	49	40	35	48	40	34	47	39	34
9	45	37	31	44	36	31	43	36	31
10	41	34	28	41	33	28	40	33	28

		50% beam - 62.8°		10% beam - 106.0°	
Mounting Height	Inital FC Center Beam	Diameter	FC	Diameter	FC
8.0	11.5	6.7	5.7	14.6	1.2
10.0	6.2	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	1.0	35.8	0.2

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



	Ave	Lumens
0	373	
5	372	35
15	359	101
25	328	151
35	283	177
45	226	174
55	165	147
65	107	106
75	56	60
85	13	16
90	0	

Zone	Lumens	% Lamp
0° - 30°	287.6	29.8
0° - 40°	464.3	48.0
0° - 60°	785.4	81.3
0° - 90°	966.4	100.0
90° - 120°	0.0	0.0
90° - 130°	0.0	0.0
90° - 150°	0.0	0.0
90° - 180°	0.0	0.0
0° - 180°	966.4	*100.0

*Efficiency

pf	20%								
pc	80%			70%			50%		
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	105	100	97	102	99	95	98	95	92
2	92	85	79	90	84	78	86	81	77
3	81	73	66	79	72	66	76	70	65
4	72	63	57	71	62	56	68	61	56
5	64	56	49	63	55	49	61	54	48
6	58	49	43	57	49	43	55	48	42
7	53	44	38	52	44	38	50	43	38
8	48	40	34	48	40	34	46	39	34
9	44	36	31	44	36	31	43	36	31
10	41	33	28	40	33	28	39	33	28

		50% beam - 63.0°		10% beam - 106.6°	
Mounting Height	Inital FC Center Beam	Diameter	FC	Diameter	FC
8.0	12.3	6.7	6.2	14.8	1.2
10.0	6.6	9.2	3.3	20.1	0.7
12.0	4.1	11.6	2.1	25.5	0.4
14.0	2.8	14.1	1.4	30.9	0.3
16.0	2.0	16.5	1.0	36.2	0.2

DOWNLIGHTING: One Lithonia Way, Conyers, GA 30012 Phone: 800-315-4935 Fax: 770-860-3129 www.lithonia.com

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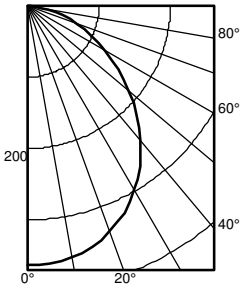
PHOTOMETRICS

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
0	364	
5	363	34
15	349	99
25	320	147
35	274	171
45	216	167
55	156	139
65	99	98
75	51	54
85	12	14
90	0	

Zone	Lumens	% Lamp
0° - 30°	280.2	30.3
0° - 40°	451.4	48.9
0° - 60°	757.0	82.0
0° - 90°	923.7	100.0
90° - 120°	0.0	0.0
90° - 130°	0.0	0.0
90° - 150°	0.0	0.0
90° - 180°	0.0	0.0
0° - 180°	923.7	*100.0

*Efficiency

pf	80%			70%			50%		
pc									
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	105	101	97	102	99	95	98	95	92
2	92	85	80	90	84	79	86	81	77
3	81	73	67	80	72	66	77	70	65
4	72	64	57	71	63	57	68	62	56
5	65	56	50	64	55	49	62	54	49
6	59	50	44	58	49	43	56	48	43
7	53	45	39	52	44	38	51	44	38
8	49	40	35	48	40	34	47	39	34
9	45	37	31	44	36	31	43	36	31
10	41	34	28	41	33	28	40	33	28

		50% beam - 62.8°		10% beam - 106.1°	
Mounting Height	Inital FC Center Beam	Diameter	FC	Diameter	FC
8.0	12.0	6.7	6.0	14.6	1.2
10.0	6.5	9.2	3.2	19.9	0.6
12.0	4.0	11.6	2.0	25.2	0.4
14.0	2.8	14.0	1.4	30.6	0.3
16.0	2.0	16.5	1.0	35.9	0.2

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ENERGY DATA & DIMMING CAPABILITY

6" SQUARE ENERGY DATA				
Lumens	860	880	900	920
Color Temperature	2700K	3000K	3500K	4000K
CRI	80	80	80	80
Lu/Watts	61.9	65.6	68.2	66.1
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-277V			
Min. power factor	0.99			
Input frequency	50/60HZ			
Rated wattage	13.9W	13.4W	13.2W	13.9W
Input power	13.9W	13.4W	13.2W	13.9W
Input current	0.11A	0.11A	0.11A	0.11A

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