

Catalog Number
Notes
Type

## FEATURES & SPECIFICATIONS

**INTENDED USE** — The 8" Wafer™ Square LED Downlight with Switchable White 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 retrofit, remodel or new construction installation from below the ceiling. The Wafer LED downlight is wet location listed – making it ideal for use in a breadth of outdoor residential, hospitality, commercial and multifamily applications.

**CONSTRUCTION** — Aluminum die cast square frame. Durable, powder coat paint to prevent rust. Square fixture with integral edge-lit LED's. Steel spring clip for easy installation. 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 chose either 2700K, 3000K, and 3500K or 3000K, 4000K, and 5000K using the switch. 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.

**INSTALLATION** — Ideal for shallow ceiling plenum; no housing required. Steel spring clip for easy installation. 8" cut out template is provided to ensure the correct size hole cut into ceiling for proper installation of the trim. Size of hole should not exceed 8 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** — Edge-lit LED technology uses light guided plate to distribute light. Polycarbonate lens provides even illumination throughout the space.

**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% with most standard incandescent dimmers (see list of approved dimmers). Replaces 100W incandescent.

**LISTINGS** — CSA certified to US and Canadian safety standards. ENERGY STAR® certified product. Wet location listed. Air Tight certified in accordance with ASTM E283-2004. 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/CustomResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomResources/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

# WF8 Square 8" LED Switchable White Color Temperature

IC/Non-IC  
New Construction/Remodel



Matte black



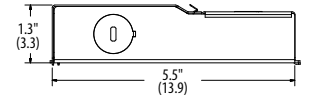
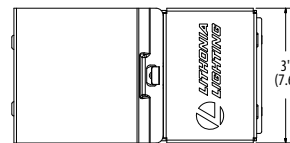
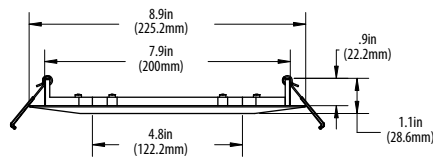
Satin nickel



### Specifications

Aperture:	4.8"
Ceiling Opening:	8"
Overlap trim:	8.9"
Height:	1.1"

All dimensions are in inches (centimeters) unless otherwise indicated.



### ORDERING INFORMATION

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

**Example:** WF8 SQ B LED 30K40K50K 90CRI SN

WF8 Series	Trim Style	Lamp	Lamp	CCT/W/Lumens	CRI	Finish
WF8 8" wafer-thin LED downlight	<b>SQ</b> Square	<b>B</b> Baffle <b>S</b> Smooth	<b>LED</b> LED	<b>27K30K35K</b> 2700K/21W/1580L 3000K/20.3W/1720L 3500K/21.2W/1680L <b>30K40K50K</b> 3000K/20.7W/1590L 4000K/19.9W/1780L 5000K/20.7W/1720L	<b>90CRI</b> 90CRI	<b>MW</b> Matte white <b>MB</b> Matte black <b>SN</b> Satin nickel

**Accessories:** Order as separate catalog number.

WF8643 PAN U	Universal new construction pan
WFJB U	Remodel joist bar



WF8643 Universal New Construction Pan



Remodel Joist Bar

### Notes

1 Total system delivered lumens.

# WF8 SQ Switchable White 8" LED Wafer Module

## PHOTOMETRICS

Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance Data at 30" Above Floor for a Single Luminaire					
<b>WF8 SQ B LED 27K30K35K _ 2700K LED's, input watts 21, delivered lumens: 1588, LM/W=76, Test No. ISF 36826P55</b>									
	Ave Lumens	Zone Lumens % Lamp	pf pc pw	80% 50% 30% 10%	20% 50% 30% 10%	50% 50% 30% 10%	50% beam - 63.3°	10% beam - 108.0°	
	0 527	0° - 30° 406.4 28.5	0 119 119 119	116 116 116	111 111 111				
	5 525 50	0° - 40° 659.5 46.2	1 104 100 96	102 98 94	98 94 91				
	15 507 143	0° - 60° 1138.8 79.8	2 91 84 78	89 83 78	85 80 76				
	25 464 214	0° - 90° 1426.2 100.0	3 80 72 65	78 71 65	75 69 64				
	35 405 253	90° - 180° 0.0 0.0	4 71 62 56	70 61 55	67 60 54				
	45 332 256	0° - 180° 1426.2 *100.0	5 63 55 48	62 54 48	60 53 47				
	55 250 223	*Efficiency	6 57 48 42	56 48 42	54 47 41				
	65 167 165		7 52 43 37	51 43 37	50 42 37				
	75 89 94		8 47 39 33	47 39 33	45 38 33				
	85 24 28		9 44 35 30	43 35 30	42 35 30				
90 3		10 40 32 27	40 32 27	39 32 27					
					Mounting Height	Initial Center Beam Diameter FC	Diameter FC		
					8.0	17.4	6.8 8.7	15.1 1.7	
					10.0	9.4	9.2 4.7	20.6 0.9	
					12.0	5.8	11.7 2.9	26.1 0.6	
					14.0	4.0	14.2 2.0	31.6 0.4	
					16.0	2.9	16.6 1.4	37.1 0.3	

<b>WF8 SQ B LED 27K30K35K _ 3000K LED's, input watts: 20, delivered lumens: 1771, LM/W=89, test no. ISF 36826P56</b>									
	Ave Lumens	Zone Lumens % Lamp	pf pc pw	80% 50% 30% 10%	20% 50% 30% 10%	50% 50% 30% 10%	50% beam - 63.3°	10% beam - 108.0°	
	0 543	0° - 30° 418.8 28.5	0 119 119 119	116 116 116	111 111 111				
	5 541 51	0° - 40° 679.5 46.2	1 104 100 96	102 98 94	98 94 91				
	15 522 147	0° - 60° 1173.5 79.8	2 91 84 78	89 83 78	85 80 76				
	25 478 220	0° - 90° 1469.6 100.0	3 80 72 65	78 71 65	75 69 64				
	35 417 261	90° - 180° 0.0 0.0	4 71 62 56	70 61 55	67 60 54				
	45 342 264	0° - 180° 1469.6 *100.0	5 63 55 48	62 54 48	60 53 47				
	55 258 230	*Efficiency	6 57 48 42	56 48 42	54 47 41				
	65 172 170		7 52 43 37	51 43 37	50 42 37				
	75 92 97		8 47 39 33	47 39 33	45 38 33				
	85 25 29		9 44 35 30	43 35 30	42 35 30				
90 3		10 40 32 27	40 32 27	39 32 27					
					Mounting Height	Initial Center Beam Diameter FC	Diameter FC		
					8.0	17.9	6.8 9.0	15.1 1.8	
					10.0	9.6	9.2 4.8	20.6 1.0	
					12.0	6.0	11.7 3.0	26.1 0.6	
					14.0	4.1	14.2 2.1	31.6 0.4	
					16.0	3.0	16.6 1.5	37.1 0.3	

<b>WF8 SQ B LED 27K30K35K _ 3500K LED's, input watts: 21, delivered lumens: 1689, LM/W=80, test no. ISF 36826P57</b>									
	Ave Lumens	Zone Lumens % Lamp	pf pc pw	80% 50% 30% 10%	20% 50% 30% 10%	50% 50% 30% 10%	50% beam - 63.3°	10% beam - 108.0°	
	0 569	0° - 30° 439.1 28.5	0 119 119 119	116 116 116	111 111 111				
	5 568 54	0° - 40° 712.5 46.2	1 104 100 96	102 98 94	98 94 91				
	15 548 154	0° - 60° 1230.5 79.8	2 91 84 78	89 83 78	85 80 76				
	25 501 231	0° - 90° 1541.0 100.0	3 80 72 65	78 71 65	75 69 64				
	35 437 273	90° - 180° 0.0 0.0	4 71 62 56	70 61 55	67 60 54				
	45 359 276	0° - 180° 1541.0 *100.0	5 63 55 48	62 54 48	60 53 47				
	55 270 241	*Efficiency	6 57 48 42	56 48 42	54 47 41				
	65 181 179		7 52 43 37	51 43 37	50 42 37				
	75 96 102		8 47 39 33	47 39 33	45 38 33				
	85 26 30		9 44 35 30	43 35 30	42 35 30				
90 3		10 40 32 27	40 32 27	39 32 27					
					Mounting Height	Initial Center Beam Diameter FC	Diameter FC		
					8.0	18.8	6.8 9.4	15.1 1.9	
					10.0	10.1	9.2 5.1	20.6 1.0	
					12.0	6.3	11.7 3.2	26.1 0.6	
					14.0	4.3	14.2 2.2	31.6 0.4	
					16.0	3.1	16.6 1.6	37.1 0.3	

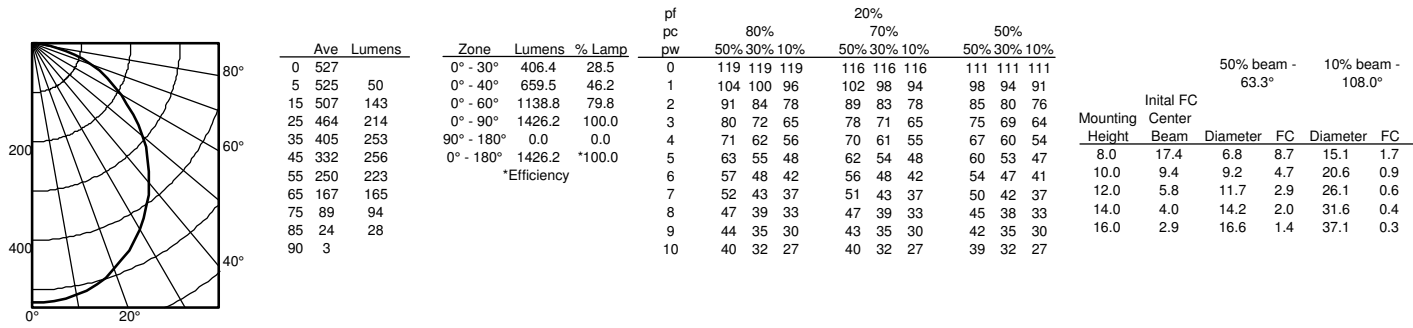
<b>WF8 SQ B LED 30K40K50K _ 3000K LED's, input watts: 20, delivered lumens 1597, LM/W=80, test no. ISF 36826P58</b>									
	Ave Lumens	Zone Lumens % Lamp	pf pc pw	80% 50% 30% 10%	20% 50% 30% 10%	50% 50% 30% 10%	50% beam - 63.3°	10% beam - 108.0°	
	0 544	0° - 30° 420.1 28.5	0 119 119 119	116 116 116	111 111 111				
	5 543 52	0° - 40° 681.8 46.2	1 104 100 96	102 98 94	98 94 91				
	15 524 148	0° - 60° 1177.3 79.8	2 91 84 78	89 83 78	85 80 76				
	25 480 221	0° - 90° 1474.4 100.0	3 80 72 65	78 71 65	75 69 64				
	35 419 262	90° - 180° 0.0 0.0	4 71 62 56	70 61 55	67 60 54				
	45 343 265	0° - 180° 1474.4 *100.0	5 63 55 48	62 54 48	60 53 47				
	55 259 231	*Efficiency	6 57 48 42	56 48 42	54 47 41				
	65 173 171		7 52 43 37	51 43 37	50 42 37				
	75 92 97		8 47 39 33	47 39 33	45 38 33				
	85 25 29		9 44 35 30	43 35 30	42 35 30				
90 3		10 40 32 27	40 32 27	39 32 27					
					Mounting Height	Initial Center Beam Diameter FC	Diameter FC		
					8.0	18.0	6.8 9.0	15.1 1.8	
					10.0	9.7	9.2 4.8	20.6 1.0	
					12.0	6.0	11.7 3.0	26.1 0.6	
					14.0	4.1	14.2 2.1	31.6 0.4	
					16.0	3.0	16.6 1.5	37.1 0.3	

# WF8 SQ Switchable White 8" LED Wafer Module

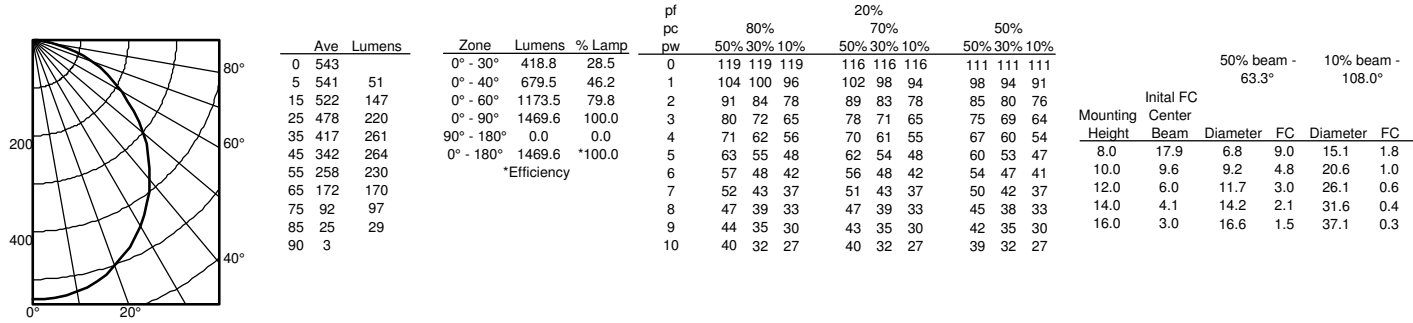
## PHOTOMETRICS

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

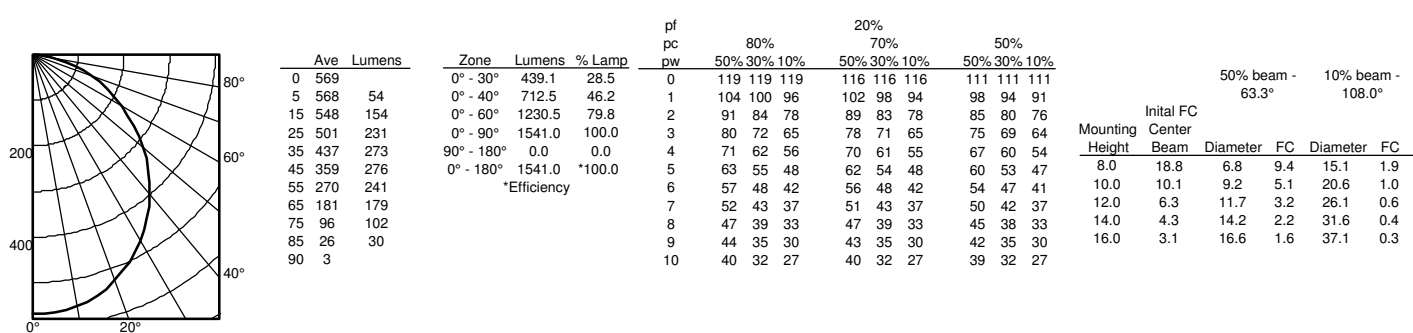
**WF8 SQ B LED 30K40K50K \_4000K LED's**, input watts 20, delivered lumens: 1797, LM/W=90, test no. ISF 36826P59



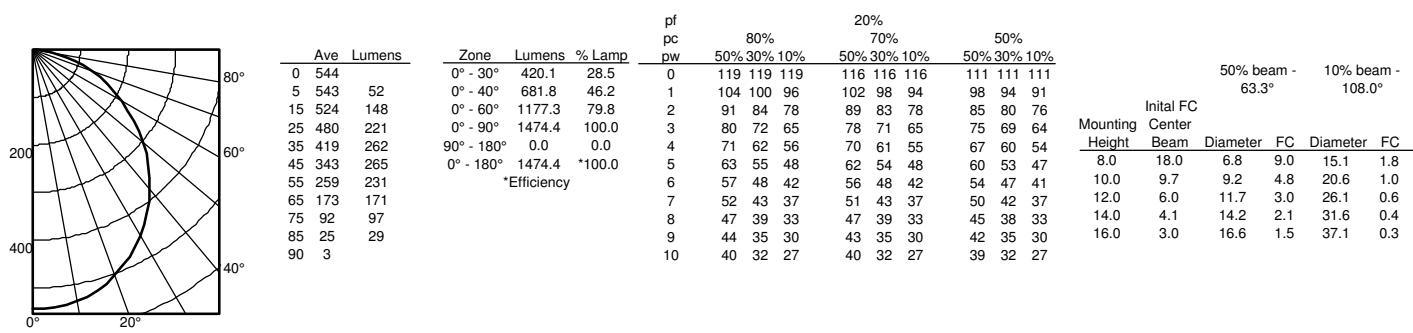
**WF8 SQ B LED 30K40K50K \_5000K LED's**, input watts: 21, delivered lumens: 1729, LM/W=82, test no. ISF 36826P60



**WF8 SQ S LED 27K30K35K \_2700K LED's**, input watts: 21, delivered lumens: 1588, LM/W=76, test no. ISF 36826P49



**WF8 SQ S LED 27K30K35K \_3000K LED's**, input watts: 20, delivered lumens: 1771, LM/W=86, test no. ISF 36826P50

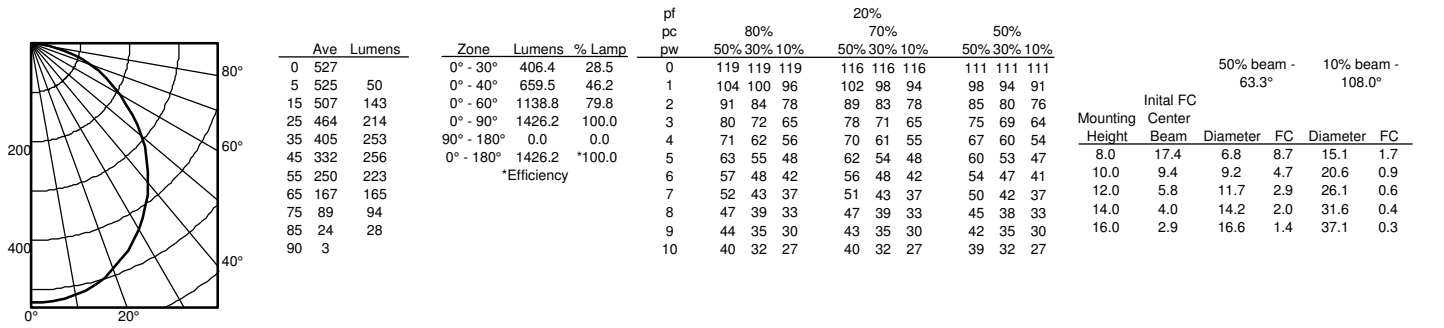


# WF8 SQ Switchable White 8" LED Wafer Module

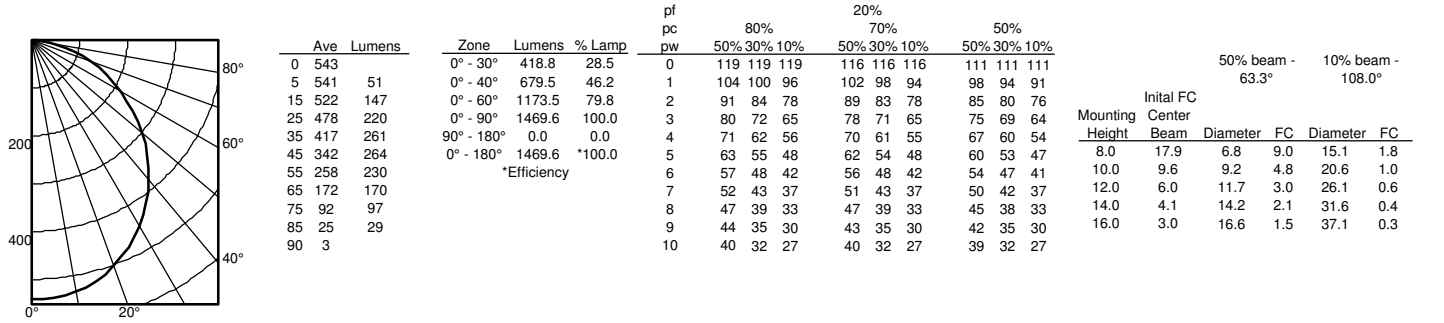
## PHOTOMETRICS

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

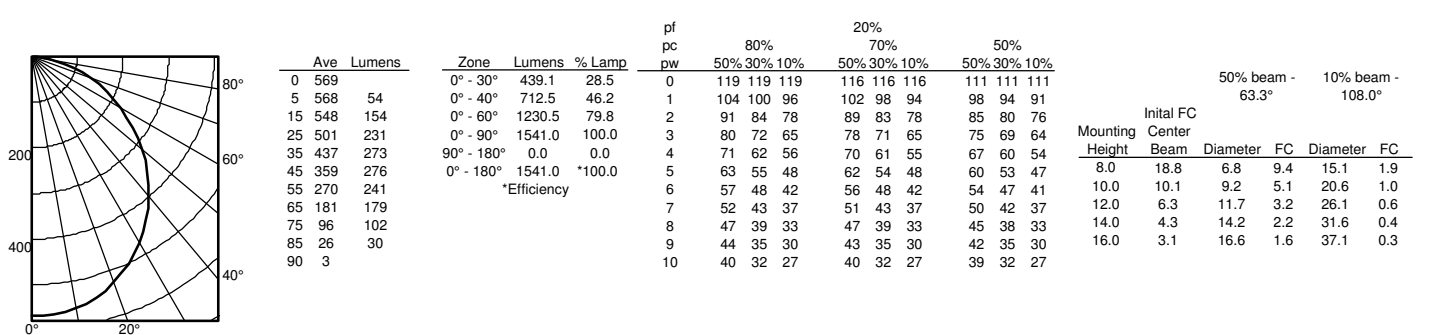
**WF8 SQ S LED 27K30K35K \_3500K LED's**, input watts 21, delivered lumens: 1689, LM/W=80, test no. ISF 36826P51



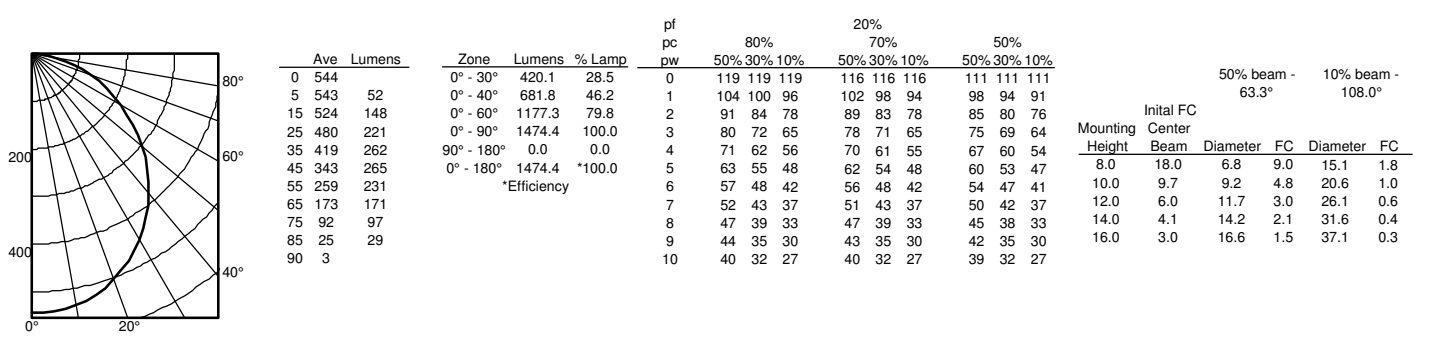
**WF8 SQ B LED 30K40K50K \_3000K LED's**, input watts: 21, delivered lumens: 1597, LM/W=76, test no. ISF 36826P52



**WF8 SQ S LED 30K40K50K \_4000K LED's**, input watts: 20, delivered lumens: 1797, LM/W=90, test no. ISF 36826P53



**WF8 SQ S LED 30K40K50K \_5000K LED's**, input watts: 21, delivered lumens: 1729, LM/W=82, test no. ISF 36826P54



# WF8 SQ Switchable White 8" LED Wafer Module

WF8 SQ S (OR B) LED 27K30K35K			
Color Temperature	2700K	3000K	3500K
Lumens	1580	1720	1680
CRI	90	90	90
Rated wattage	21	20.3	21.2
Lu/Watts	75.2	84.7	79.2
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	120V	120V	120V
Min. power factor	0.98	0.98	0.98
Input frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input power	120V	120V	120V
Input current	0.11A	0.11A	0.11A

WF8 SQ S (OR B) LED 30K40K50K			
Color Temperature	3000K	4000K	5000K
Lumens	1590	1780	1720
CRI	90	90	90
Rated wattage	20.7	19.9	20.8
Lu/Watts	76.8	89.4	82.7
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	120V	120V	120V
Min. power factor	0.98	0.98	0.98
Input frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input power	120V	120V	120V
Input current	0.11A	0.11A	0.11A

## 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

1580 lumens | 79 lumens per watt

3000K warm white | blanc chaud

1720 lumens | 86 lumens per watt

3500K neutral white | blanc neutre

1680 lumens | 84 lumens per watt

Watts 20

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

1590 lumens | 80 lumens per watt

4000K cool white | blanc froid

1780 lumens | 89 lumens per watt

5000K daylight | lumière du jour

1720 lumens | 86 lumens per watt

Watts 20

Color Accuracy (CRI) 90

Précision des couleurs (CRI)