

Catalog Number
Notes
Type

FEATURES & SPECIFICATIONS

INTENDED USE — The 4" Wafer™ LED Square 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 outer frame. Durable, powder coat paint to prevent rust. FT4 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. 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.

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 — 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 dimers (see list of approved dimmers). Replaces 65W 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. 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/warranty/terms-and-conditions

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

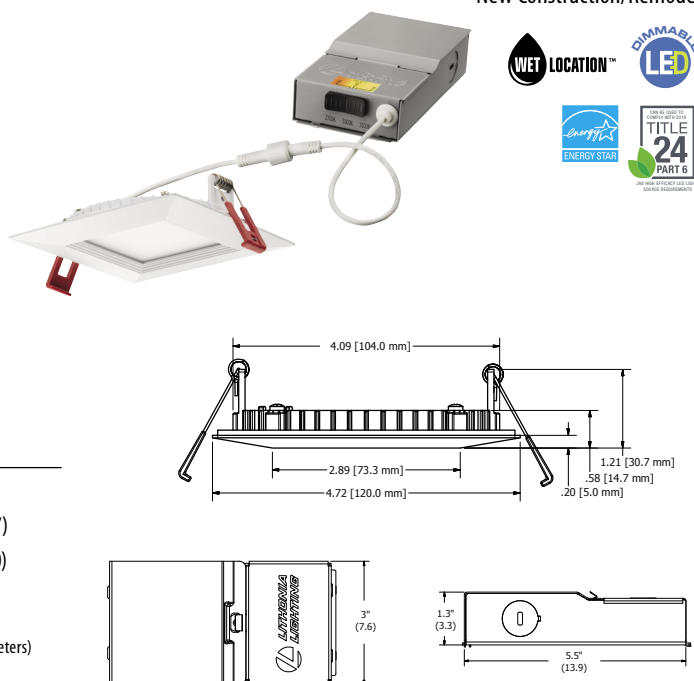
All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

Specifications

Aperture:	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.



ORDERING INFORMATION

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

Example: WF4 SQ B LED 30K40K50K 90CRI MW

WF4					LED							
Series			Trim Style		Lamp		CCT/W/Lumens ¹		CRI		Finish	
WF4	4" wafer-thin LED downlight	SQ	B	Baffle	LED	LED	27K30K35K	2700K/9.3W/540L	90CRI	90CRI	MW	Matte White
			S	Smooth				3000K/9.2W/600L			MB	Matte Black
								3500K/9.5W/570L			BN	Brushed Nickel
								3000K/9.2W/560L			ORB	Oil Rubbed Bronze
								4000K/9W/620L				
							5000K/9.3W/600L					

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.

WF4 SQ Switchable White 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 27K30K35K, 2700K LEDs, input watts: 9, delivered lumens: 547, LM/W=60, test no. ISF 36826P19																					
			pf	80%			20%			50%											
			pc	50% 30% 10%			50% 30% 10%			50% 30% 10%											
			pw																		
	Ave	Lumens	Zone	Lumens	% Lamp	0	119	119	119	116	116	116	111	111	111						
	0	197	0° - 30°	152.3	27.8	1	104	99	96	101	98	94	97	94	91						
	5	197	0° - 40°	247.4	45.2	2	90	84	78	88	82	77	85	80	75						
	15	190	0° - 60°	430.1	78.7	3	79	71	65	78	70	64	75	68	63						
	25	174	0° - 90°	546.8	100.0	4	70	62	55	69	61	54	67	59	54						
	35	152	90° - 120°	0.0	0.0	5	63	54	47	62	53	47	60	52	46						
	45	125	90° - 130°	0.0	0.0	6	57	48	41	56	47	41	54	46	41						
	55	96	90° - 150°	0.0	0.0	7	51	43	36	51	42	36	49	42	36						
65	66	90° - 180°	0.0	0.0	8	47	38	33	46	38	32	45	38	32							
75	37	0° - 180°	546.8	*100.0	9	43	35	29	43	35	29	41	34	29							
85	11				10	40	32	27	39	32	27	38	31	26							
90	0																				
				*Efficiency																	
										50% beam - 63.5° 10% beam - 108.5°											
										Initial FC											
										Mounting Height		Center Beam		Diameter		FC		Diameter		FC	
										8.0		6.5		6.8		3.3		15.3		0.7	
										10.0		3.5		9.3		1.8		20.8		0.3	
										12.0		2.2		11.7		1.1		26.4		0.2	
										14.0		1.5		14.2		0.7		31.9		0.1	
										16.0		1.1		16.7		0.5		37.5		0.1	

WF4 SQ S LED 27K30K35K, 3000K LEDs, input watts: 9, delivered lumens: 610, LM/W=68, test no. ISF 36826P20

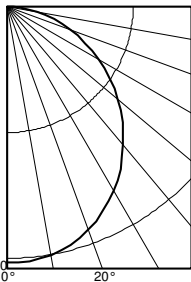
	<u>Ave Lumens</u>		<u>Zone Lumens % Lamp</u>		<u>pf</u> <u>pc</u> <u>pw</u>	<u>80%</u>			<u>20%</u>			<u>50%</u>			<u>Mounting Height</u>	<u>Initial FC Center Beam</u>	<u>50% beam - 63.5°</u>	<u>10% beam - 108.5°</u>		
	0	220	0° - 30°	169.9		27.8	0	119	119	119	116	116	116	111					111	111
	5	220	0° - 40°	276.0		45.2	1	104	99	96	101	98	94	97					94	91
	15	211	0° - 60°	479.8		78.7	2	90	84	78	88	82	77	85					80	75
	25	194	0° - 90°	610.0		100.0	3	79	71	65	78	70	64	75					68	63
	35	170	90° - 120°	0.0		0.0	4	70	62	55	69	61	54	67					59	54
	45	140	90° - 130°	0.0		0.0	5	63	54	47	62	53	47	60					52	46
	55	108	90° - 150°	0.0		0.0	6	57	48	41	56	47	41	54					46	41
	65	74	90° - 180°	0.0		0.0	7	51	43	36	51	42	36	49					42	36
	75	41	0° - 180°	610.0		*100.0	8	47	38	33	46	38	32	45					38	32
	85	12	<u>*Efficiency</u>			9	43	35	29	43	35	29	41	34					29	
	90	0					10	40	32	27	39	32	27	38					31	26

WF4 SQ S LED 27K30K35K, 3500K LEDs, input watts: 9, delivered lumens: 581, LM/W=65, test no. ISF 36826P21

	<table><tr><th>Ave</th><th>Lumens</th></tr><tr><td>0</td><td>209</td></tr><tr><td>5</td><td>209</td></tr><tr><td>15</td><td>201</td></tr><tr><td>25</td><td>185</td></tr><tr><td>35</td><td>162</td></tr><tr><td>45</td><td>133</td></tr><tr><td>55</td><td>103</td></tr><tr><td>65</td><td>70</td></tr><tr><td>75</td><td>39</td></tr><tr><td>85</td><td>11</td></tr><tr><td>90</td><td>0</td></tr></table>		Ave	Lumens	0	209	5	209	15	201	25	185	35	162	45	133	55	103	65	70	75	39	85	11	90	0	<table><tr><th>Zone</th><th>Lumens</th><th>% Lamp</th></tr><tr><td>0° - 30°</td><td>161.8</td><td>27.8</td></tr><tr><td>0° - 40°</td><td>262.9</td><td>45.2</td></tr><tr><td>0° - 60°</td><td>457.1</td><td>78.7</td></tr><tr><td>0° - 90°</td><td>581.1</td><td>100.0</td></tr><tr><td>90° - 120°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 130°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 150°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 180°</td><td>0.0</td><td>0.0</td></tr><tr><td>0° - 180°</td><td>581.1</td><td>*100.0</td></tr><tr><td colspan="3">*Efficiency</td></tr></table>		Zone	Lumens	% Lamp	0° - 30°	161.8	27.8	0° - 40°	262.9	45.2	0° - 60°	457.1	78.7	0° - 90°	581.1	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°	581.1	*100.0	*Efficiency			<table><tr><th>pf</th><th colspan="3">80%</th><th colspan="3">20%</th><th colspan="3">50%</th></tr><tr><th>pc</th><th>50%</th><th>30%</th><th>10%</th><th>50%</th><th>30%</th><th>10%</th><th>50%</th><th>30%</th><th>10%</th></tr><tr><th>pw</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><td>0</td><td>119</td><td>119</td><td>119</td><td>116</td><td>116</td><td>116</td><td>111</td><td>111</td><td>111</td></tr><tr><td>1</td><td>104</td><td>99</td><td>96</td><td>101</td><td>98</td><td>94</td><td>97</td><td>94</td><td>91</td></tr><tr><td>2</td><td>90</td><td>84</td><td>78</td><td>88</td><td>82</td><td>77</td><td>85</td><td>80</td><td>75</td></tr><tr><td>3</td><td>79</td><td>71</td><td>65</td><td>78</td><td>70</td><td>64</td><td>75</td><td>68</td><td>63</td></tr><tr><td>4</td><td>70</td><td>62</td><td>55</td><td>69</td><td>61</td><td>54</td><td>67</td><td>59</td><td>54</td></tr><tr><td>5</td><td>63</td><td>54</td><td>47</td><td>62</td><td>53</td><td>47</td><td>60</td><td>52</td><td>46</td></tr><tr><td>6</td><td>57</td><td>48</td><td>41</td><td>56</td><td>47</td><td>41</td><td>54</td><td>46</td><td>41</td></tr><tr><td>7</td><td>51</td><td>43</td><td>36</td><td>51</td><td>42</td><td>36</td><td>49</td><td>42</td><td>36</td></tr><tr><td>8</td><td>47</td><td>38</td><td>33</td><td>46</td><td>38</td><td>32</td><td>45</td><td>38</td><td>32</td></tr><tr><td>9</td><td>43</td><td>35</td><td>29</td><td>43</td><td>35</td><td>29</td><td>41</td><td>34</td><td>29</td></tr><tr><td>10</td><td>40</td><td>32</td><td>27</td><td>39</td><td>32</td><td>27</td><td>38</td><td>31</td><td>26</td></tr></table>		pf	80%			20%			50%			pc	50%	30%	10%	50%	30%	10%	50%	30%	10%	pw										0	119	119	119	116	116	116	111	111	111	1	104	99	96	101	98	94	97	94	91	2	90	84	78	88	82	77	85	80	75	3	79	71	65	78	70	64	75	68	63	4	70	62	55	69	61	54	67	59	54	5	63	54	47	62	53	47	60	52	46	6	57	48	41	56	47	41	54	46	41	7	51	43	36	51	42	36	49	42	36	8	47	38	33	46	38	32	45	38	32	9	43	35	29	43	35	29	41	34	29	10	40	32	27	39	32	27	38	31	26	<table><tr><th colspan="2">Mounting Height</th><th colspan="2">Initial FC Center Beam</th><th colspan="2">50% beam - 63.5°</th><th colspan="2">10% beam - 108.5°</th></tr><tr><th></th><th></th><th>Diameter</th><th>FC</th><th>Diameter</th><th>FC</th><th>Diameter</th><th>FC</th></tr><tr><td>8.0</td><td>6.9</td><td>6.8</td><td>3.5</td><td>15.3</td><td>0.7</td><td></td><td></td></tr><tr><td>10.0</td><td>3.7</td><td>9.3</td><td>1.9</td><td>20.8</td><td>0.4</td><td></td><td></td></tr><tr><td>12.0</td><td>2.3</td><td>11.7</td><td>1.2</td><td>26.4</td><td>0.2</td><td></td><td></td></tr><tr><td>14.0</td><td>1.6</td><td>14.2</td><td>0.8</td><td>31.9</td><td>0.2</td><td></td><td></td></tr><tr><td>16.0</td><td>1.1</td><td>16.7</td><td>0.6</td><td>37.5</td><td>0.1</td><td></td><td></td></tr></table>						Mounting Height		Initial FC Center Beam		50% beam - 63.5°		10% beam - 108.5°				Diameter	FC	Diameter	FC	Diameter	FC	8.0	6.9	6.8	3.5	15.3	0.7			10.0	3.7	9.3	1.9	20.8	0.4			12.0	2.3	11.7	1.2	26.4	0.2			14.0	1.6	14.2	0.8	31.9	0.2			16.0	1.1	16.7	0.6	37.5	0.1		
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WF4 SQ Switchable White 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 30K40K50K, 3000K LEDs, input watts: 9, delivered lumens: 564, LM/W=63, test no. ISF 36826P22																			
				pf	80%			20%			50%								
		Ave	Lumens	Zone	Lumens	% Lamp	pc	50%	30%	10%	50%	30%	10%	50%	30%	10%			
		0	204	0° - 30°	157.2	27.8	0	119	119	119	116	116	116	111	111	111			
		5	203	0° - 40°	255.4	45.2	1	104	99	96	101	98	94	97	94	91	50% beam - 63.5° 10% beam - 108.5°		
		15	196	0° - 60°	444.1	78.7	2	90	84	78	88	82	77	85	80	75	Initial FC		
		25	180	0° - 90°	564.6	100.0	3	79	71	65	78	70	64	75	68	63	Mounting Height		
		35	157	90° - 120°	0.0	0.0	4	70	62	55	69	61	54	67	59	54	Center Beam		
		45	129	90° - 130°	0.0	0.0	5	63	54	47	62	53	47	60	52	46	Diameter		
		55	100	90° - 150°	0.0	0.0	6	57	48	41	56	47	41	54	46	41	FC		
		65	68	90° - 180°	0.0	0.0	7	51	43	36	51	42	36	49	42	36	Diameter		
		75	38	0° - 180°	564.6	*100.0	8	47	38	33	46	38	32	45	38	32	FC		
		85	11	*Efficiency				9	43	35	29	43	35	29	41	34	29		
	90	0					10	40	32	27	39	32	27	38	31	26			

WF4 SQ S LED 30K40K50K, 4000K LEDs, input watts: 9, delivered lumens: 632, LM/W=70, test no. ISF 36826P23

Ave	Lumens	Zone	Lumens	% Lamp
0	228	0° - 30°	176.0	27.8
5	228	0° - 40°	285.9	45.2
15	219	0° - 60°	497.1	78.7
25	201	0° - 90°	632.0	100.0
35	176	90° - 120°	0.0	0.0
45	145	90° - 130°	0.0	0.0
55	112	90° - 150°	0.0	0.0
65	77	90° - 180°	0.0	0.0
75	43	0° - 180°	632.0	*100.0
85	12			
90	0			

pf	80%			20%			50%		
pc	50%	30%	10%	50%	30%	10%	50%	30%	10%
pw									
0	119	119	119	116	116	116	111	111	111
1	104	99	96	101	98	94	97	94	91
2	90	84	78	88	82	77	85	80	75
3	79	71	65	78	70	64	75	68	63
4	70	62	55	69	61	54	67	59	54
5	63	54	47	62	53	47	60	52	46
6	57	48	41	56	47	41	54	46	41
7	51	43	36	51	42	36	49	42	36
8	47	38	33	46	38	32	45	38	32
9	43	35	29	43	35	29	41	34	29
10	40	32	27	39	32	27	38	31	26

50% beam - 63.5°

10% beam - 108.5°

Mounting Height	Initial FC Center Beam	Diameter	FC	Diameter	FC
8.0	7.5	6.8	3.8	15.3	0.8
10.0	4.1	9.3	2.0	20.8	0.4
12.0	2.5	11.7	1.3	26.4	0.3
14.0	1.7	14.2	0.9	31.9	0.2
16.0	1.3	16.7	0.6	37.5	0.1

WF4 SQ S LED 30K40K50K, 5000K LEDs, input watts: 9, delivered lumens: 606, LM/W=67, test no. ISF 36826P24

	<table><tr><th>Ave</th><th>Lumens</th></tr><tr><td>0</td><td>219</td></tr><tr><td>5</td><td>218</td></tr><tr><td>15</td><td>210</td></tr><tr><td>25</td><td>193</td></tr><tr><td>35</td><td>169</td></tr><tr><td>45</td><td>139</td></tr><tr><td>55</td><td>107</td></tr><tr><td>65</td><td>73</td></tr><tr><td>75</td><td>41</td></tr><tr><td>85</td><td>12</td></tr><tr><td>90</td><td>0</td></tr></table>		Ave	Lumens	0	219	5	218	15	210	25	193	35	169	45	139	55	107	65	73	75	41	85	12	90	0	<table><tr><th>Zone</th><th>Lumens</th><th>% Lamp</th></tr><tr><td>0° - 30°</td><td>168.9</td><td>27.8</td></tr><tr><td>0° - 40°</td><td>274.3</td><td>45.2</td></tr><tr><td>0° - 60°</td><td>476.9</td><td>78.7</td></tr><tr><td>0° - 90°</td><td>606.3</td><td>100.0</td></tr><tr><td>90° - 120°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 130°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 150°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 180°</td><td>0.0</td><td>0.0</td></tr><tr><td>0° - 180°</td><td>606.3</td><td>*100.0</td></tr></table>		Zone	Lumens	% Lamp	0° - 30°	168.9	27.8	0° - 40°	274.3	45.2	0° - 60°	476.9	78.7	0° - 90°	606.3	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°	606.3	*100.0	<table><tr><th>pf</th><th colspan="3">80%</th><th colspan="3">20%</th><th colspan="3">50%</th></tr><tr><th>pc</th><th>50%</th><th>30%</th><th>10%</th><th>50%</th><th>30%</th><th>10%</th><th>50%</th><th>30%</th><th>10%</th></tr><tr><th>pw</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><td>0</td><td>119</td><td>119</td><td>119</td><td>116</td><td>116</td><td>116</td><td>111</td><td>111</td><td>111</td></tr><tr><td>1</td><td>104</td><td>99</td><td>96</td><td>101</td><td>98</td><td>94</td><td>97</td><td>94</td><td>91</td></tr><tr><td>2</td><td>90</td><td>84</td><td>78</td><td>88</td><td>82</td><td>77</td><td>85</td><td>80</td><td>75</td></tr><tr><td>3</td><td>79</td><td>71</td><td>65</td><td>78</td><td>70</td><td>64</td><td>75</td><td>68</td><td>63</td></tr><tr><td>4</td><td>70</td><td>62</td><td>55</td><td>69</td><td>61</td><td>54</td><td>67</td><td>59</td><td>54</td></tr><tr><td>5</td><td>63</td><td>54</td><td>47</td><td>62</td><td>53</td><td>47</td><td>60</td><td>52</td><td>46</td></tr><tr><td>6</td><td>57</td><td>48</td><td>41</td><td>56</td><td>47</td><td>41</td><td>54</td><td>46</td><td>41</td></tr><tr><td>7</td><td>51</td><td>43</td><td>36</td><td>51</td><td>42</td><td>36</td><td>49</td><td>42</td><td>36</td></tr><tr><td>8</td><td>47</td><td>38</td><td>33</td><td>46</td><td>38</td><td>32</td><td>45</td><td>38</td><td>32</td></tr><tr><td>9</td><td>43</td><td>35</td><td>29</td><td>43</td><td>35</td><td>29</td><td>41</td><td>34</td><td>29</td></tr><tr><td>10</td><td>40</td><td>32</td><td>27</td><td>39</td><td>32</td><td>27</td><td>38</td><td>31</td><td>26</td></tr></table>		pf	80%			20%			50%			pc	50%	30%	10%	50%	30%	10%	50%	30%	10%	pw										0	119	119	119	116	116	116	111	111	111	1	104	99	96	101	98	94	97	94	91	2	90	84	78	88	82	77	85	80	75	3	79	71	65	78	70	64	75	68	63	4	70	62	55	69	61	54	67	59	54	5	63	54	47	62	53	47	60	52	46	6	57	48	41	56	47	41	54	46	41	7	51	43	36	51	42	36	49	42	36	8	47	38	33	46	38	32	45	38	32	9	43	35	29	43	35	29	41	34	29	10	40	32	27	39	32	27	38	31	26	<table><tr><th colspan="2">Initial FC</th><th colspan="2">50% beam - 63.5°</th><th colspan="2">10% beam - 108.5°</th></tr><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>7.2</td><td>6.8</td><td>3.6</td><td>15.3</td><td>0.7</td></tr><tr><td>10.0</td><td>3.9</td><td>9.3</td><td>1.9</td><td>20.8</td><td>0.4</td></tr><tr><td>12.0</td><td>2.4</td><td>11.7</td><td>1.2</td><td>26.4</td><td>0.2</td></tr><tr><td>14.0</td><td>1.7</td><td>14.2</td><td>0.8</td><td>31.9</td><td>0.2</td></tr><tr><td>16.0</td><td>1.2</td><td>16.7</td><td>0.6</td><td>37.5</td><td>0.1</td></tr></table>				Initial FC		50% beam - 63.5°		10% beam - 108.5°		Mounting Height	Center Beam	Diameter	FC	Diameter	FC	8.0	7.2	6.8	3.6	15.3	0.7	10.0	3.9	9.3	1.9	20.8	0.4	12.0	2.4	11.7	1.2	26.4	0.2	14.0	1.7	14.2	0.8	31.9	0.2	16.0	1.2	16.7	0.6	37.5	0.1
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WF4 SQ Switchable White 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 27K30K35K, 2700K LEDs, 9, delivered lumens: 547, LM/W=61, test no. ISF 36826P25																	
	Ave	Lumens	Zone	Lumens	% Lamp	pf	80%			70%			50%			50% beam - 63.5°	10% beam - 108.5°
						pc	50%	30%	10%	50%	30%	10%	50%	30%	10%		
	0	197	0° - 30°	152.3	27.8	0	119	119	119	116	116	116	111	111	111		
	5	197	0° - 40°	247.4	45.2	1	104	99	96	101	98	94	97	94	91		
	15	190	0° - 60°	430.1	78.7	2	90	84	78	88	82	77	85	80	75		
	25	174	0° - 90°	546.8	100.0	3	79	71	65	78	70	64	75	68	63		
	35	152	90° - 120°	0.0	0.0	4	70	62	55	69	61	54	67	59	54		
	45	125	90° - 130°	0.0	0.0	5	63	54	47	62	53	47	60	52	46		
	55	96	90° - 150°	0.0	0.0	6	57	48	41	56	47	41	54	46	41		
	65	66	90° - 180°	0.0	0.0	7	51	43	36	51	42	36	49	42	36		
	75	37	0° - 180°	546.8	*100.0	8	47	38	33	46	38	32	45	38	32		
	85	11		*Efficiency		9	43	35	29	43	35	29	41	34	29		
90	0				10	40	32	27	39	32	27	38	31	26			

WF4 SQ B LED 27K30K35K, 3000K LEDs, input watts: 9, delivered lumens: 610, LM/W=68, test no. ISF 36826P26

Ave	Lumens
0	220
5	220
15	211
25	194
35	170
45	140
55	108
65	74
75	41
85	12
90	0

Zone	Lumens	% Lamp
0° - 30°	169.9	27.8
0° - 40°	276.0	45.2
0° - 60°	479.8	78.7
0° - 90°	610.0	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°	610.0	*100.0

pf	pc	pw	80%	70%	50%	
			50% 30% 10%	50% 30% 10%	50% 30% 10%	
0	119	119	119	116	116	116
1	104	99	96	101	98	94
2	90	84	78	88	82	77
3	79	71	65	78	70	64
4	70	62	55	69	61	54
5	63	54	47	62	53	47
6	57	48	41	56	47	41
7	51	43	36	51	42	36
8	47	38	33	46	38	32
9	43	35	29	43	35	29
10	40	32	27	39	32	27

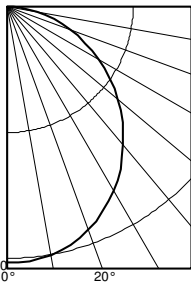
Mounting Height	Initial FC Center Beam	50% beam - 63.5° Diameter FC	10% beam - 108.5° Diameter FC		
8.0	7.3	6.8	3.6	15.3	0.7
10.0	3.9	9.3	2.0	20.8	0.4
12.0	2.4	11.7	1.2	26.4	0.2
14.0	1.7	14.2	0.8	31.9	0.2
16.0	1.2	16.7	0.6	37.5	0.1

WF4 SQ B LED 27K30K35K, 3500K LEDs, input watts: 9, delivered lumens: 581, LM/W=65, test no. ISF 36826P27

	<table><tr><th>Ave</th><th>Lumens</th></tr><tr><td>0</td><td>209</td></tr><tr><td>5</td><td>209</td></tr><tr><td>15</td><td>201</td></tr><tr><td>25</td><td>185</td></tr><tr><td>35</td><td>162</td></tr><tr><td>45</td><td>133</td></tr><tr><td>55</td><td>103</td></tr><tr><td>65</td><td>70</td></tr><tr><td>75</td><td>39</td></tr><tr><td>85</td><td>11</td></tr><tr><td>90</td><td>0</td></tr></table>		Ave	Lumens	0	209	5	209	15	201	25	185	35	162	45	133	55	103	65	70	75	39	85	11	90	0	<table><tr><th>Zone</th><th>Lumens</th><th>% Lamp</th></tr><tr><td>0° - 30°</td><td>161.8</td><td>27.8</td></tr><tr><td>0° - 40°</td><td>262.9</td><td>45.2</td></tr><tr><td>0° - 60°</td><td>457.1</td><td>78.7</td></tr><tr><td>0° - 90°</td><td>581.1</td><td>100.0</td></tr><tr><td>90° - 120°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 130°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 150°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 180°</td><td>0.0</td><td>0.0</td></tr><tr><td>0° - 180°</td><td>581.1</td><td>*100.0</td></tr></table>		Zone	Lumens	% Lamp	0° - 30°	161.8	27.8	0° - 40°	262.9	45.2	0° - 60°	457.1	78.7	0° - 90°	581.1	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°	581.1	*100.0	<table><tr><th>pf</th><th>pc</th><th>pw</th><th>80%</th><th>70%</th><th>50%</th></tr><tr><th></th><th></th><th></th><th>50% 30% 10%</th><th>50% 30% 10%</th><th>50% 30% 10%</th></tr><tr><td>0</td><td>119</td><td>119</td><td>119</td><td>116</td><td>116</td><td>116</td></tr><tr><td>1</td><td>104</td><td>99</td><td>96</td><td>101</td><td>98</td><td>94</td></tr><tr><td>2</td><td>90</td><td>84</td><td>78</td><td>88</td><td>82</td><td>77</td></tr><tr><td>3</td><td>79</td><td>71</td><td>65</td><td>78</td><td>70</td><td>64</td></tr><tr><td>4</td><td>70</td><td>62</td><td>55</td><td>69</td><td>61</td><td>54</td></tr><tr><td>5</td><td>63</td><td>54</td><td>47</td><td>62</td><td>53</td><td>47</td></tr><tr><td>6</td><td>57</td><td>48</td><td>41</td><td>56</td><td>47</td><td>41</td></tr><tr><td>7</td><td>51</td><td>43</td><td>36</td><td>51</td><td>42</td><td>36</td></tr><tr><td>8</td><td>47</td><td>38</td><td>33</td><td>46</td><td>38</td><td>32</td></tr><tr><td>9</td><td>43</td><td>35</td><td>29</td><td>43</td><td>35</td><td>29</td></tr><tr><td>10</td><td>40</td><td>32</td><td>27</td><td>39</td><td>32</td><td>27</td></tr></table>		pf	pc	pw	80%	70%	50%				50% 30% 10%	50% 30% 10%	50% 30% 10%	0	119	119	119	116	116	116	1	104	99	96	101	98	94	2	90	84	78	88	82	77	3	79	71	65	78	70	64	4	70	62	55	69	61	54	5	63	54	47	62	53	47	6	57	48	41	56	47	41	7	51	43	36	51	42	36	8	47	38	33	46	38	32	9	43	35	29	43	35	29	10	40	32	27	39	32	27	<table><tr><th colspan="2"></th><th colspan="2">50% beam - 63.5°</th><th colspan="2">10% beam - 108.5°</th></tr><tr><th>Mounting Height</th><th>Initial FC Center Beam</th><th>Diameter</th><th>FC</th><th>Diameter</th><th>FC</th></tr><tr><td>8.0</td><td>6.9</td><td>6.8</td><td>3.5</td><td>15.3</td><td>0.7</td></tr><tr><td>10.0</td><td>3.7</td><td>9.3</td><td>1.9</td><td>20.8</td><td>0.4</td></tr><tr><td>12.0</td><td>2.3</td><td>11.7</td><td>1.2</td><td>26.4</td><td>0.2</td></tr><tr><td>14.0</td><td>1.6</td><td>14.2</td><td>0.8</td><td>31.9</td><td>0.2</td></tr><tr><td>16.0</td><td>1.1</td><td>16.7</td><td>0.6</td><td>37.5</td><td>0.1</td></tr></table>						50% beam - 63.5°		10% beam - 108.5°		Mounting Height	Initial FC Center Beam	Diameter	FC	Diameter	FC	8.0	6.9	6.8	3.5	15.3	0.7	10.0	3.7	9.3	1.9	20.8	0.4	12.0	2.3	11.7	1.2	26.4	0.2	14.0	1.6	14.2	0.8	31.9	0.2	16.0	1.1	16.7	0.6	37.5	0.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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WF4 SQ Switchable White 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 30K40K50K, 3000K LEDs, input watts: 9, delivered lumens: 565, LM/W=63, test no. ISF 36826P28																	
	Ave	Lumens	Zone	Lumens	% Lamp	pf	80%			20%			50%			50% beam - 63.5°	10% beam - 108.5°
						pc	50%	30%	10%	50%	30%	10%	50%	30%	10%		
	0	204	0° - 30°	157.2	27.8	0	119	119	119	116	116	116	111	111	111		
	5	203	0° - 40°	255.4	45.2	1	104	99	96	101	98	94	97	94	91		
	15	196	0° - 60°	444.1	78.7	2	90	84	78	88	82	77	85	80	75		
	25	180	0° - 90°	564.6	100.0	3	79	71	65	78	70	64	75	68	63		
	35	157	90° - 120°	0.0	0.0	4	70	62	55	69	61	54	67	59	54		
	45	129	90° - 130°	0.0	0.0	5	63	54	47	62	53	47	60	52	46		
	55	100	90° - 150°	0.0	0.0	6	57	48	41	56	47	41	54	46	41		
	65	68	90° - 180°	0.0	0.0	7	51	43	36	51	42	36	49	42	36		
	75	38	0° - 180°	564.6	*100.0	8	47	38	33	46	38	32	45	38	32		
	85	11	*Efficiency			9	43	35	29	43	35	29	41	34	29		
90	0				10	40	32	27	39	32	27	38	31	26			
										Initial FC							
										Mounting Height	Center Beam	Diameter	FC	Diameter	FC		
										8.0	6.7	6.8	3.4	15.3	0.7		
										10.0	3.6	9.3	1.8	20.8	0.4		
										12.0	2.3	11.7	1.1	26.4	0.2		
										14.0	1.5	14.2	0.8	31.9	0.2		
										16.0	1.1	16.7	0.6	37.5	0.1		

WF4 SQ B LED 30K40K50K, 4000K LEDs, input watts: 9, delivered lumens: 632, LM/W=70, test no. ISF 36826P29

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WF4 SQ B LED 30K40K50K, 5000K LEDs, input watts: 9, delivered lumens: 606, LM/W=67, test no. ISF 36826P30

	<table><tr><th>Ave</th><th>Lumens</th></tr><tr><td>0</td><td>219</td></tr><tr><td>5</td><td>218</td></tr><tr><td>15</td><td>210</td></tr><tr><td>25</td><td>193</td></tr><tr><td>35</td><td>169</td></tr><tr><td>45</td><td>139</td></tr><tr><td>55</td><td>107</td></tr><tr><td>65</td><td>73</td></tr><tr><td>75</td><td>41</td></tr><tr><td>85</td><td>12</td></tr><tr><td>90</td><td>0</td></tr></table>	Ave	Lumens	0	219	5	218	15	210	25	193	35	169	45	139	55	107	65	73	75	41	85	12	90	0	<table><tr><th>Zone</th><th>Lumens</th><th>% Lamp</th></tr><tr><td>0° - 30°</td><td>168.9</td><td>27.8</td></tr><tr><td>0° - 40°</td><td>274.3</td><td>45.2</td></tr><tr><td>0° - 60°</td><td>476.9</td><td>78.7</td></tr><tr><td>0° - 90°</td><td>606.3</td><td>100.0</td></tr><tr><td>90° - 120°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 130°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 150°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 180°</td><td>0.0</td><td>0.0</td></tr><tr><td>0° - 180°</td><td>606.3</td><td>*100.0</td></tr><tr><td colspan="3">*Efficiency</td></tr></table>	Zone	Lumens	% Lamp	0° - 30°	168.9	27.8	0° - 40°	274.3	45.2	0° - 60°	476.9	78.7	0° - 90°	606.3	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°	606.3	*100.0	*Efficiency			<table><tr><th>pf</th><th colspan="3">80%</th><th colspan="3">20%</th><th colspan="3">50%</th></tr><tr><th>pc</th><th>50%</th><th>30%</th><th>10%</th><th>50%</th><th>30%</th><th>10%</th><th>50%</th><th>30%</th><th>10%</th></tr><tr><th>pw</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><td>0</td><td>119</td><td>119</td><td>119</td><td>116</td><td>116</td><td>116</td><td>111</td><td>111</td><td>111</td></tr><tr><td>1</td><td>104</td><td>99</td><td>96</td><td>101</td><td>98</td><td>94</td><td>97</td><td>94</td><td>91</td></tr><tr><td>2</td><td>90</td><td>84</td><td>78</td><td>88</td><td>82</td><td>77</td><td>85</td><td>80</td><td>75</td></tr><tr><td>3</td><td>79</td><td>71</td><td>65</td><td>78</td><td>70</td><td>64</td><td>75</td><td>68</td><td>63</td></tr><tr><td>4</td><td>70</td><td>62</td><td>55</td><td>69</td><td>61</td><td>54</td><td>67</td><td>59</td><td>54</td></tr><tr><td>5</td><td>63</td><td>54</td><td>47</td><td>62</td><td>53</td><td>47</td><td>60</td><td>52</td><td>46</td></tr><tr><td>6</td><td>57</td><td>48</td><td>41</td><td>56</td><td>47</td><td>41</td><td>54</td><td>46</td><td>41</td></tr><tr><td>7</td><td>51</td><td>43</td><td>36</td><td>51</td><td>42</td><td>36</td><td>49</td><td>42</td><td>36</td></tr><tr><td>8</td><td>47</td><td>38</td><td>33</td><td>46</td><td>38</td><td>32</td><td>45</td><td>38</td><td>32</td></tr><tr><td>9</td><td>43</td><td>35</td><td>29</td><td>43</td><td>35</td><td>29</td><td>41</td><td>34</td><td>29</td></tr><tr><td>10</td><td>40</td><td>32</td><td>27</td><td>39</td><td>32</td><td>27</td><td>38</td><td>31</td><td>26</td></tr></table>	pf	80%			20%			50%			pc	50%	30%	10%	50%	30%	10%	50%	30%	10%	pw										0	119	119	119	116	116	116	111	111	111	1	104	99	96	101	98	94	97	94	91	2	90	84	78	88	82	77	85	80	75	3	79	71	65	78	70	64	75	68	63	4	70	62	55	69	61	54	67	59	54	5	63	54	47	62	53	47	60	52	46	6	57	48	41	56	47	41	54	46	41	7	51	43	36	51	42	36	49	42	36	8	47	38	33	46	38	32	45	38	32	9	43	35	29	43	35	29	41	34	29	10	40	32	27	39	32	27	38	31	26	<table><tr><th colspan="2">50% beam - 63.5°</th><th colspan="2">10% beam - 108.5°</th></tr><tr><th>Mounting Height</th><th>Initial FC Center Beam</th><th>Diameter</th><th>FC</th><th>Diameter</th><th>FC</th></tr><tr><td>8.0</td><td>7.2</td><td>6.8</td><td>3.6</td><td>15.3</td><td>0.7</td></tr><tr><td>10.0</td><td>3.9</td><td>9.3</td><td>1.9</td><td>20.8</td><td>0.4</td></tr><tr><td>12.0</td><td>2.4</td><td>11.7</td><td>1.2</td><td>26.4</td><td>0.2</td></tr><tr><td>14.0</td><td>1.7</td><td>14.2</td><td>0.8</td><td>31.9</td><td>0.2</td></tr><tr><td>16.0</td><td>1.2</td><td>16.7</td><td>0.6</td><td>37.5</td><td>0.1</td></tr></table>	50% beam - 63.5°		10% beam - 108.5°		Mounting Height	Initial FC Center Beam	Diameter	FC	Diameter	FC	8.0	7.2	6.8	3.6	15.3	0.7	10.0	3.9	9.3	1.9	20.8	0.4	12.0	2.4	11.7	1.2	26.4	0.2	14.0	1.7	14.2	0.8	31.9	0.2	16.0	1.2	16.7	0.6	37.5	0.1
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WF4 SQ Switchable White 4" LED Wafer Module

ENERGY DATA

WF4 SQ S (OR B) LED 27K30K35K			
Color Temperature	2700K	3000K	3500K
Lumens	540	600	570
CRI	90	90	90
Rated wattage	9.3	9.2	9.5
Lu/Watts	58.1	65.2	60.0
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	0.97	0.97	0.97
Input frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input power	120V	120V	120V
Input current	0.08A	0.08A	0.08A

WF4 SQ S (OR B) LED 30K40K50K			
Color Temperature	3000K	4000K	5000K
Lumens	560	620	600
CRI	90	90	90
Rated wattage	9.2	9	9.3
Lu/Watts	60.9	68.9	64.5
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	0.97	0.97	0.97
Input frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input power	120V	120V	120V
Input current	0.08A	0.08A	0.08A

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
540 lumens | 57 lumens per watt

3000K warm white | blanc chaud
600 lumens | 63 lumens per watt

3500K neutral white | blanc neutre
570 lumens | 60 lumens per watt

Watts **9.5**

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
560 lumens | 62 lumens per watt

4000K cool white | blanc froid
620 lumens | 69 lumens per watt

5000K daylight | lumière du jour
600 lumens | 67 lumens per watt

Watts **9.0**

Color Accuracy (CRI) **90**
Précision des couleurs (CRI)