



Catalog Number
Notes
Type

Contractor Select™

WF2 ALO + SWW5

Wafer 2" LED Flat Switchable Downlight

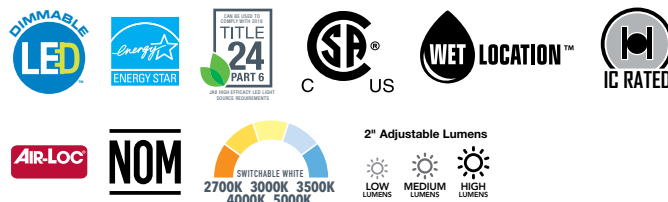
Tiny but mighty, the Juno Wafer 2" flat series provides the ultimate flexibility for accent and downlighting applications from a single fixture. The compact overall fixture size allows for installation practically anywhere in IC and non-IC environments and delivers over 800 lumens from a miniature 2" aperture. This downlight features switchable white and adjustable lumen technology. Easily select between 2700K, 3000K, 3500K, 4000K or 5000K CCTs and 3 lumen outputs directly on the junction box to customize the fixture for your space.

FEATURES:

- 5 switchable white color temperatures to choose from via switch; 2700K, 3000K, 3500K, 4000K, 5000K CCT; 90 CRI. Switch is factory preset at 3000K CCT
- Low, Medium and High lumen output settings included; Switch is factory preset at the high lumen setting
- Low profile construction allows for fit into tight spaces
- Offered with dedicated 120V dimmable driver with flicker-free dimming from 100% to 10%
- Install from below as a remodel or new construction mounting frame available for new fixture installs
- Offered with field installable matte black trim finish insert.

APPLICATIONS:

- Low lumen setting provides perfect accent light for small spaces when used within nooks, architectural features and soffits
- Medium and High lumen settings provide general illumination in spaces that benefit from wide, high angle light including showers, closets and pantries
- Wet location rated and Air-Loc: perfect for showers, bathrooms, and outdoor soffits.



LIGHTING PERFORMANCE DATA DONNÉES SUR LE RENDEMENT DE L'ÉCLAIRAGE	
Light Appearance (CCT) Aspect de la lumière (CCT)	
2700K soft white blanc doux	
830 lumen (high/élevée) 81 low	
3000K warm white blanc chaud	
862 lumen (high/élevée) 85 low	
3500K neutral white blanc neutre	
880 lumen (high/élevée) 86 low	
4000K cool white blanc froid	
875 lumen (high/élevée) 86 low	
5000K daylight blanc neutre	
843 lumen (high/élevée) 83 low	
Watts	10
Color Accuracy (CRI)	90
Précision des couleurs (CRI)	

Catalog Number	UPC	Description	Replaces Up To	Lumens (30K)	Input Watts (max nominal)	CCT	CRI	Voltage	Finish	Dimming Protocol	Pallet qty.
WF2 RD ALO25 SWW5 90CRI 120 MW M6	00197589570755	2" Flat LED Downlight	65W Incandescent	517L/689L/862L	10W	2700K/3000K/3500K/4000K/5000K	90	120V	Matte White	Forward/Reverse Phase	540



Accessories: Order as separate catalog number.	
2NCMFLP	2" New Construction Pan with Lip
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
WF2GR MW JZ	2" Wafer Goof Ring 2.75" ID x 4.75" OD

Note: Goof ring is made of 22 gauge steel and painted white.



2NCMFLP
New Construction Pan with Lip



WFEXCx
FT4 3-Pin Cable



Remodel Joist Bar

TRIM INSERTS

TRIM INSERTS (for field configuration; ordered separately) Example: WF2TRIM RD MB M6

Series	Trim Style	Finish	Packaging
WF2TRIM	RD Round	MB Matte Black	M6 Master Pack of 6 units



Pre-Install color finish trim insert over
white 2" Wafer LED Downlight.



Press down color finish tabs for post-installation
to create final Wafer LED Downlight.



Specifications

HOUSING:

Low profile aluminum housing with integral white flange provides passive thermal cooling to achieve L70 at 50,000 hours • Designed for installation directly into the plenum in IC (insulated ceiling) or non-IC construction • FT4 3-pin plenum rated cable connector to connect from module to remote driver box • Provided with spring clips for ease of installation • Cutout templates are provided to ensure a correct sized hole is cut for proper installation of the trim. Size of hole must be a minimum of 2 1/2 inches • Accommodates a 3/8" up to a 1 1/2" ceiling thickness • Can be removed from the ceiling for service or replacement.

LED LIGHT ENGINE:

Integrated light engine that mounts directly to one piece high purity aluminum housing providing superior heat transfer to ensure long life of the LEDs • Designed with switchable LED color temperature and adjustable lumen output technology • LED color temperature settings include 2700K, 3000K, 3500K, 4000K and 5000K; factory set at 3000K • Color accuracy within 4 step McAdams Ellipse at the end CCT (2700K and 5000K), within 6 step McAdams Ellipse in the middle CCT (3000K, 3500K, and 4000K) • 90CRI minimum • Three lumen switching options include low, medium and high; factory set at high setting.

DRIVER:

Dedicated 120 volt • Power factor > 0.9 at 120V input • 120 volt only driver is dimmable with the use of most incandescent, magnetic low voltage and electronic low voltage wall box dimmers • Dimming 100% to 10% • For a list of compatible dimmers, [see list of compatible dimmers](#) • Driver is integrated inside an IC rated steel remote junction box and provided with performance selector switches directly on the box to choose between (5) LED color temperatures and (3) lumen output settings for Low/Medium/High • Features industry leading, contractor friendly large 12 cubic-inch wiring compartment with (2) 1/2" knockouts with slots for pryout • Listed for through-branch wiring, maximum of 4 #12 branch circuit • Flexible supply is recommended, and non-flexible supply requires top access • 5-1/2" plenum space required for the installation of the driver box.

OPTICAL SYSTEM:

Edge-lit LED technology coupled with a light guide plate and lens conceals the LEDs and produces uniform aperture luminance • Light emitting surface at ceiling provides wide, high angle light and even illumination for accent and general downlighting applications • Equivalent to the performance of 65W incandescent sources.

LIFE:

Rated for 50,000 hours at 70% lumen maintenance.

LABELS:

CSA certified to US and Canadian safety standards • ENERGY STAR® certified product • Suitable for wet location, covered ceiling • Air-Loc 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 • U.S. Patent No. 10,681,784.

TESTING:

All reports are based on published industry procedures; field performance may differ from laboratory performance.

WARRANTY:

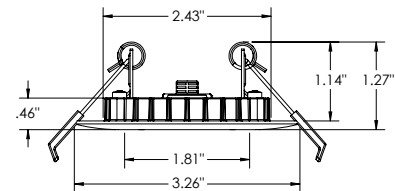
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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

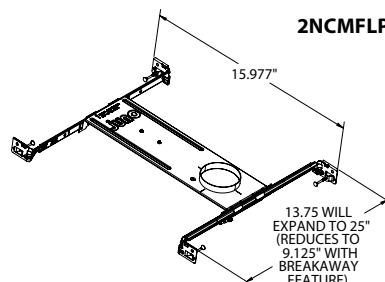
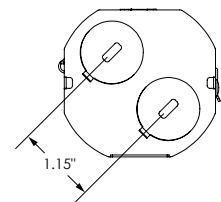
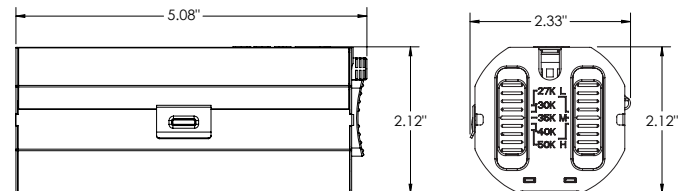
All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

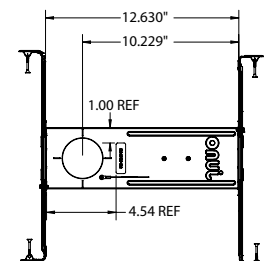
Dimensions



2 1/2" CEILING CUTOUT



2NCMFLP



PERFORMANCE DATA

WF2 Dedicated 120V Only Driver (120 FRPC)

	LOW	MEDIUM	HIGH
Input Power	5.6W (+/-5%)	7.7W (+/-5%)	10W (+/-5%)
Input Current	0.06A	0.085A	0.11A
Frequency	60Hz	60Hz	60Hz
EMI/RFI	FCC Title 47, Part 15 Class B (consumer)	FCC Title 47, Part 15 Class B (consumer)	FCC Title 47, Part 15 Class B (consumer)
Minimum Starting Temp	-20°C	-20°C	-20°C

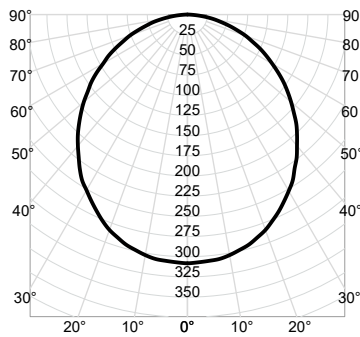
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Photometrics

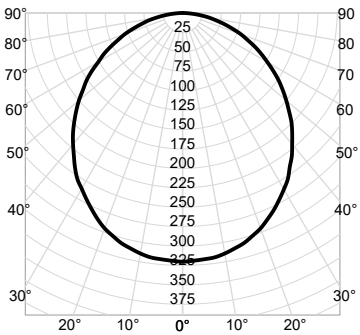
2" LUMEN MULTIPLIER		
LOW	MEDIUM	HIGH
0.6	0.8	1.0

WF2 RD ALO25 SWW5 90CRI MW M6-HI 27K Input Watts: 9.6, Delivered Lumens: 830, LPW: 86.5, S/MH: 1.21, Test No: ISF 24546-P1



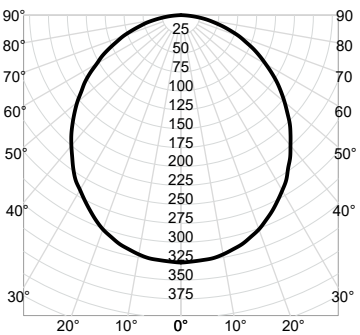
CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
						pf	80%		20%		50%				Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance		
0°	Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%							
0°	308	0° - 30°	236	28%	0	119	119	119	116	116	116	111	111	111	6.0	8.6	16.0	0°	164,991	
5°	306	0° - 40°	382	46%	1	104	100	96	102	98	94	98	94	91	8.0	4.8	21.3	45°	145,216	
15°	295	0° - 60°	660	79%	2	91	84	78	89	83	77	85	80	76	10.0	3.1	26.7	55°	136,439	
25°	269	0° - 90°	830	100%	3	80	72	65	78	71	65	75	69	64	12.0	2.1	32.0	65°	126,202	
35°	233	90° - 180°	0	0%	4	71	62	55	70	61	55	67	60	54	14.0	1.6	37.4	75°	111,703	
45°	192	0° - 180°	830	100%	5	63	54	48	62	54	48	60	53	47					85°	80,069
55°	146					6	57	48	42	56	48	42	54	47	41	Beam Angle: 106.3°				
65°	100					7	52	43	37	51	43	37	50	42	37	Field Angle: 161.3°				
75°	54					8	47	39	33	47	39	33	45	38	33	Spacing Criterion: @ 0 = 1.21 / @ 90 = 1.22				
85°	13					9	44	35	30	43	35	30	42	35	30					
90°	0					10	40	32	27	40	32	27	39	32	27					

WF2 RD ALO25 SWW5 90CRI MW M6-HI 30K Input Watts: 9.5, Delivered Lumens: 862, LPW: 90.7, S/MH: 1.21, Test No: ISF 24546-P2



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
						pf	80%		20%		50%				Mounting Height	Initial FC Center Beam	Beam Diameter			
0°		Zone	Lumens	% Fixture	pc	50%	30%	10%	50%	30%	10%	50%	30%	10%				Average Luminance		
0°	320	0° - 30°	246	28%	0	119	119	119	116	116	116	111	111	111	6.0	8.9	16.0	0°	171,434	
5°	318	0° - 40°	397	46%	1	104	100	96	102	98	94	98	94	91	8.0	5.0	21.3	45°	150,887	
15°	307	0° - 60°	685	79%	2	91	84	78	89	83	77	85	80	76	10.0	3.2	26.7	55°	141,768	
25°	280	0° - 90°	862	100%	3	80	72	65	78	71	65	75	69	64	12.0	2.2	32.0	65°	131,131	
35°	242	90° - 180°	0	0%	4	71	62	55	70	61	55	67	60	54	14.0	1.6	37.4	75°	116,065	
45°	199	0° - 180°	862	100%	5	63	54	48	62	54	48	60	53	47	Beam Angle: 106.3° Field Angle: 161.3° Spacing Criterion: @ 0 = 1.21 / @ 90 = 1.22					
55°	152					6	57	48	42	56	48	42	54	47						
65°	104					7	52	43	37	51	43	37	50	42						
75°	56					8	47	39	33	47	39	33	45	38						33
85°	14					9	44	35	30	43	35	30	42	35	30					
90°	0					10	40	32	27	40	32	27	39	32	27					

WF2 RD ALO25 SWW5 90CRI MW M6-HI 35K Input Watts: 9.3, Delivered Lumens: 880, LPW: 94.6, S/MH: 1.21, Test No: ISF 24546-P3

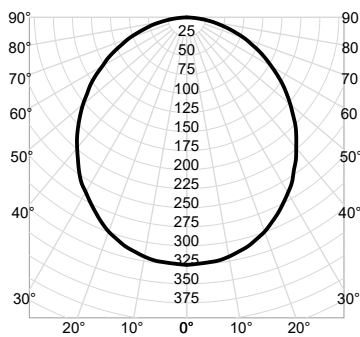


CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
						pf	80%		20%		50%				Mounting Height	Initial FC Center Beam	Beam Diameter			
0°		Zone	Lumens	% Fixture	pc	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%			Average Luminance		
0°	327	0° - 30°	251	28%	0	119	119	119	116	116	116	111	111	111	6.0	9.1	16.0	0°	175,014	
5°	325	0° - 40°	406	46%	1	104	100	96	102	98	94	98	94	91	8.0	5.1	21.3	45°	154,038	
15°	313	0° - 60°	700	79%	2	91	84	78	89	83	77	85	80	76	10.0	3.3	26.7	55°	144,728	
25°	285	0° - 90°	880	100%	3	80	72	65	78	71	65	75	69	64	12.0	2.3	32.0	65°	133,869	
35°	247	90° - 180°	0	0%	4	71	62	55	70	61	55	67	60	54	14.0	1.7	37.4	75°	118,489	
45°	203	0° - 180°	880	100%	5	63	54	48	62	54	48	60	53	47	Beam Angle: 106.3° Field Angle: 161.3° Spacing Criterion: @ 0 = 1.21 / @ 90 = 1.22					
55°	155				6	57	48	42	56	48	42	54	47	41						
65°	106				7	52	43	37	51	43	37	50	42	37						
75°	57				8	47	39	33	47	39	33	45	38	33						
85°	14				9	44	35	30	43	35	30	42	35	30						
90°	0				10	40	32	27	40	32	27	39	32	27						



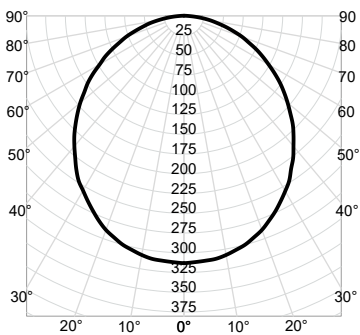
Photometrics

WF2 RD ALO25 SWW5 90CRI MW M6-HI 40K Input Watts: 9.4, Delivered Lumens: 875, LPW: 93.1, S/MH: 1.21, Test No: ISF 24546-P4



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
						pf		80%		70%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance			
0°		Zone	Lumens	% Fixture	pc	50%	30%	10%	50%	30%	10%	50%	30%					10%		
0°	325	0° - 30°	249	28%	0	119	119	119	116	116	116	111	111	111	6.0	9.0	16.0	0°	174,020	
5°	323	0° - 40°	403	46%	1	104	100	96	102	98	94	98	94	91	8.0	5.1	21.3	45°	153,163	
15°	311	0° - 60°	696	79%	2	91	84	78	89	83	77	85	80	76	10.0	3.3	26.7	55°	143,906	
25°	284	0° - 90°	875	100%	3	80	72	65	78	71	65	75	69	64	12.0	2.3	32.0	65°	133,109	
35°	246	90° - 180°	0	0%	4	71	62	55	70	61	55	67	60	54	14.0	1.7	37.4	75°	117,815	
45°	202	0° - 180°	875	100%	5	63	54	48	62	54	48	60	53	47	Beam Angle: 106.3° Field Angle: 161.3° Spacing Criterion: @ 0 = 1.21 / @ 90 = 1.22			85°	84,451	
55°	154					6	57	48	42	56	48	42	54	47				41		
65°	105					7	52	43	37	51	43	37	50	42				37		
75°	57					8	47	39	33	47	39	33	45	38				33		
85°	14					9	44	35	30	43	35	30	42	35				30		
90°	0					10	40	32	27	40	32	27	39	32	27					

WF2 RD ALO25 SWW5 90CRI MW M6-HI 50K Input Watts: 9.8, Delivered Lumens: 843, LPW: 86.0, S/MH: 1.21, Test No: ISF 24546-P5



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
						pf	80%					20%					Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
0°		Zone	Lumens	% Fixture	pc	50%	30%	10%	50%	30%	10%	50%	30%	10%						
0°	313	0° - 30°	240	28%	0	119	119	119	116	116	116	111	111	111	6.0	8.7	16.0	0°	167,656	
5°	311	0° - 40°	388	46%	1	104	100	96	102	98	94	98	94	91	8.0	4.9	21.3	45°	147,561	
15°	300	0° - 60°	670	79%	2	91	84	78	89	83	77	85	80	76	10.0	3.1	26.7	55°	138,643	
25°	273	0° - 90°	843	100%	3	80	72	65	78	71	65	75	69	64	12.0	2.2	32.0	65°	128,241	
35°	237	90° - 180°	0	0%	4	71	62	55	70	61	55	67	60	54	14.0	1.6	37.4	75°	113,507	
45°	195	0° - 180°	843	100%	5	63	54	48	62	54	48	60	53	47	Beam Angle: 106.3° Field Angle: 161.3° Spacing Criterion: @ 0 = 1.21 / @ 90 = 1.22			85°	81,362	
55°	149				6	57	48	42	56	48	42	54	47	41						
65°	101				7	52	43	37	51	43	37	50	42	37						
75°	55				8	47	39	33	47	39	33	45	38	33						
85°	13				9	44	35	30	43	35	30	42	35	30						
90°	0				10	40	32	27	40	32	27	39	32	27						



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WF2 ALO + SWW5

Wafer 2" LED Flat Switchable Downlight

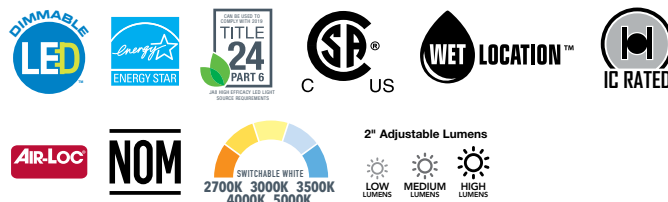
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FEATURES:

- 5 switchable white color temperatures to choose from via switch; 2700K, 3000K, 3500K, 4000K, 5000K CCT; 90 CRI. Switch is factory preset at 3000K CCT
- Low, Medium and High lumen output settings included; Switch is factory preset at the high lumen setting
- Low profile construction allows for fit into tight spaces
- Offered with dedicated 120V dimmable driver with flicker-free dimming from 100% to 10%
- Install from below as a remodel or new construction mounting frame available for new fixture installs
- Offered with field installable matte black trim finish insert.

APPLICATIONS:

- Low lumen setting provides perfect accent light for small spaces when used within nooks, architectural features and soffits
- Medium and High lumen settings provide general illumination in spaces that benefit from wide, high angle light including showers, closets and pantries
- Wet location rated and Air-Loc: perfect for showers, bathrooms, and outdoor soffits.



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830 lumen (high/élevée) 81 low	
3000K warm white blanc chaud	
862 lumen (high/élevée) 85 low	
3500K neutral white blanc neutre	
880 lumen (high/élevée) 86 low	
4000K cool white blanc froid	
875 lumen (high/élevée) 86 low	
5000K daylight blanc neutre	
843 lumen (high/élevée) 83 low	
Watts	10
Color Accuracy (CRI) Précision des couleurs (CRI)	90

Catalog Number	UPC	Description	Replaces Up To	Lumens (30K)	Input Watts (max nominal)	CCT	CRI	Voltage	Finish	Dimming Protocol	Pallet qty.
WF2 RD ALO25 SWW5 90CRI 120 MW M6	00197589570755	2" Flat LED Downlight	65W Incandescent	517L/689L/862L	10W	2700K/3000K/3500K/4000K/5000K	90	120V	Matte White	Forward/Reverse Phase	540



Accessories: Order as separate catalog number.	
2NCMFLP	2" New Construction Pan with Lip
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
WF2GR MW JZ	2" Wafer Goof Ring 2.75" ID x 4.75" OD

Note: Goof ring is made of 22 gauge steel and painted white.



2NCMFLP
New Construction Pan with Lip



WFEXC6
FT4 3-Pin Cable



Remodel Joist Bar

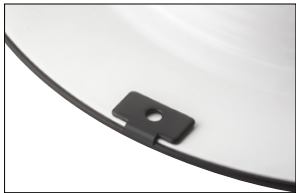
TRIM INSERTS

TRIM INSERTS (for field configuration; ordered separately) Example: WF2TRIM RD MB M6

Series	Trim Style	Finish	Packaging
WF2TRIM	RD Round	MB Matte Black	M6 Master Pack of 6 units



Pre-Install color finish trim insert over
white 2" Wafer LED Downlight.



Press down color finish tabs for post-installation
to create final Wafer LED Downlight.



Specifications

HOUSING:

Low profile aluminum housing with integral white flange provides passive thermal cooling to achieve L70 at 50,000 hours • Designed for installation directly into the plenum in IC (insulated ceiling) or non-IC construction • FT4 3-pin plenum rated cable connector to connect from module to remote driver box • Provided with spring clips for ease of installation • Cutout templates are provided to ensure a correct sized hole is cut for proper installation of the trim. Size of hole must be a minimum of 2 1/2 inches • Accommodates a 3/8" up to a 1 1/2" ceiling thickness • Can be removed from the ceiling for service or replacement.

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Integrated light engine that mounts directly to one piece high purity aluminum housing providing superior heat transfer to ensure long life of the LEDs • Designed with switchable LED color temperature and adjustable lumen output technology • LED color temperature settings include 2700K, 3000K, 3500K, 4000K and 5000K; factory set at 3000K • Color accuracy within 4 step McAdams Ellipse at the end CCT (2700K and 5000K), within 6 step McAdams Ellipse in the middle CCT (3000K, 3500K, and 4000K) • 90CRI minimum • Three lumen switching options include low, medium and high; factory set at high setting.

DRIVER:

Dedicated 120 volt • Power factor > 0.9 at 120V input • 120 volt only driver is dimmable with the use of most incandescent, magnetic low voltage and electronic low voltage wall box dimmers • Dimming 100% to 10% • For a list of compatible dimmers, [see list of compatible dimmers](#) • Driver is integrated inside an IC rated steel remote junction box and provided with performance selector switches directly on the box to choose between (5) LED color temperatures and (3) lumen output settings for Low/Medium/High • Features industry leading, contractor friendly large 12 cubic-inch wiring compartment with (2) 1/2" knockouts with slots for pryout • Listed for through-branch wiring, maximum of 4 #12 branch circuit • Flexible supply is recommended, and non-flexible supply requires top access • 5-1/2" plenum space required for the installation of the driver box.

OPTICAL SYSTEM:

Edge-lit LED technology coupled with a light guide plate and lens conceals the LEDs and produces uniform aperture luminance • Light emitting surface at ceiling provides wide, high angle light and even illumination for accent and general downlighting applications • Equivalent to the performance of 65W incandescent sources.

LIFE:

Rated for 50,000 hours at 70% lumen maintenance.

LABELS:

CSA certified to US and Canadian safety standards • ENERGY STAR® certified product • Suitable for wet location, covered ceiling • Air-Loc 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 • U.S. Patent No. 10,681,784.

TESTING:

All reports are based on published industry procedures; field performance may differ from laboratory performance.

WARRANTY:

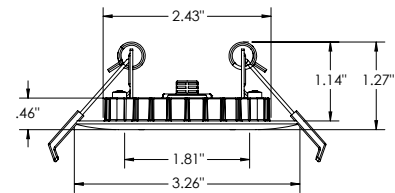
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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

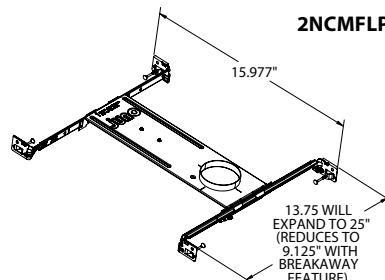
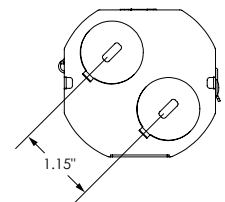
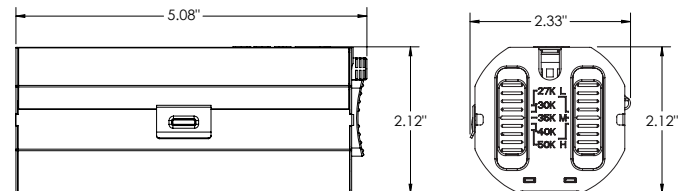
All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

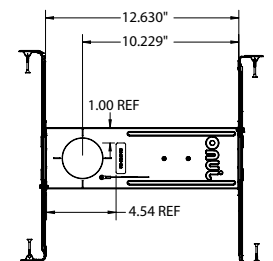
Dimensions



2 1/2" CEILING CUTOUT



2NCMFLP



PERFORMANCE DATA

WF2 Dedicated 120V Only Driver (120 FRPC)

	LOW	MEDIUM	HIGH
Input Power	5.6W (+/-5%)	7.7W (+/-5%)	10W (+/-5%)
Input Current	0.06A	0.085A	0.11A
Frequency	60Hz	60Hz	60Hz
EMI/RFI	FCC Title 47, Part 15 Class B (consumer)	FCC Title 47, Part 15 Class B (consumer)	FCC Title 47, Part 15 Class B (consumer)
Minimum Starting Temp	-20°C	-20°C	-20°C

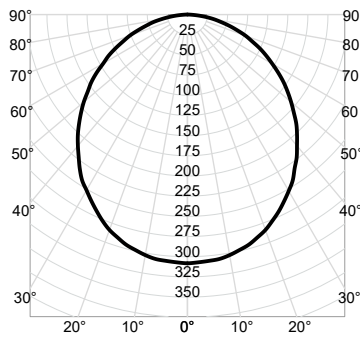
Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C.



Photometrics

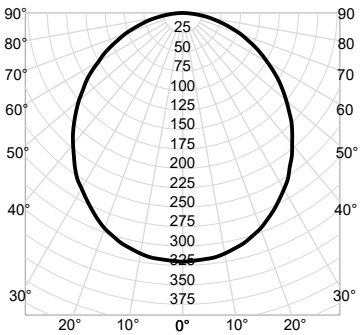
2" LUMEN MULTIPLIER		
LOW	MEDIUM	HIGH
0.6	0.8	1.0

WF2 RD ALO25 SWW5 90CRI MW M6-HI 27K Input Watts: 9.6, Delivered Lumens: 830, LPW: 86.5, S/MH: 1.21, Test No: ISF 24546-P1



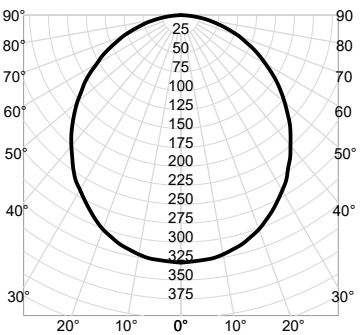
CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
						pf	80%			20%			50%			Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance	
0°		Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%						
0°	308	0° - 30°	236	28%	0	119	119	119	116	116	116	111	111	111	6.0	8.6	16.0	0° 164,991		
5°	306	0° - 40°	382	46%	1	104	100	96	102	98	94	98	94	91	8.0	4.8	21.3	45° 145,216		
15°	295	0° - 60°	660	79%	2	91	84	78	89	83	77	85	80	76	10.0	3.1	26.7	55° 136,439		
25°	269	0° - 90°	830	100%	3	80	72	65	78	71	65	75	69	64	12.0	2.1	32.0	65° 126,202		
35°	233	90° - 180°	0	0%	4	71	62	55	70	61	55	67	60	54	14.0	1.6	37.4	75° 111,703		
45°	192	0° - 180°	830	100%	5	63	54	48	62	54	48	60	53	47	Beam Angle: 106.3° Field Angle: 161.3° Spacing Criterion: @ 0 = 1.21 / @ 90 = 1.22				85° 80,069	
55°	146				6	57	48	42	56	48	42	54	47	41						
65°	100				7	52	43	37	51	43	37	50	42	37						
75°	54				8	47	39	33	47	39	33	45	38	33						
85°	13				9	44	35	30	43	35	30	42	35	30						
90°	0				10	40	32	27	40	32	27	39	32	27						

WF2 RD ALO25 SWW5 90CRI MW M6-HI 30K Input Watts: 9.5, Delivered Lumens: 862, LPW: 90.7, S/MH: 1.21, Test No: ISF 24546-P2



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)			
						pf	80%				20%				50%				Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
0°		Zone	Lumens	% Fixture	pc	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%					
0°	320	0° - 30°	246	28%	0	119	119	119	116	116	116	111	111	111	111	111	111	6.0	8.9	16.0	0° 171,434	
5°	318	0° - 40°	397	46%	1	104	100	96	102	98	94	98	94	91	91	91	91	8.0	5.0	21.3	45° 150,887	
15°	307	0° - 60°	685	79%	2	91	84	78	89	83	77	85	80	76	76	76	76	10.0	3.2	26.7	55° 141,768	
25°	280	0° - 90°	862	100%	3	80	72	65	78	71	65	75	69	64	64	64	64	12.0	2.2	32.0	65° 131,131	
35°	242	90° - 180°	0	0%	4	71	62	55	70	61	55	67	60	54	54	54	54	14.0	1.6	37.4	75° 116,065	
45°	199	0° - 180°	862	100%	5	63	54	48	62	54	48	60	53	47	47	47	47	Beam Angle: 106.3° Field Angle: 161.3° Spacing Criterion: @ 0 = 1.21 / @ 90 = 1.22			85° 83,196	
55°	152				6	57	48	42	56	48	42	54	47	41	41	41	41					
65°	104				7	52	43	37	51	43	37	50	42	37	37	37	37					
75°	56				8	47	39	33	47	39	33	45	38	33	33	33	33					
85°	14				9	44	35	30	43	35	30	42	35	30	30	30	30					
90°	0				10	40	32	27	40	32	27	39	32	27	27	27	27					

WF2 RD ALO25 SWW5 90CRI MW M6-HI 35K Input Watts: 9.3, Delivered Lumens: 880, LPW: 94.6, S/MH: 1.21, Test No: ISF 24546-P3

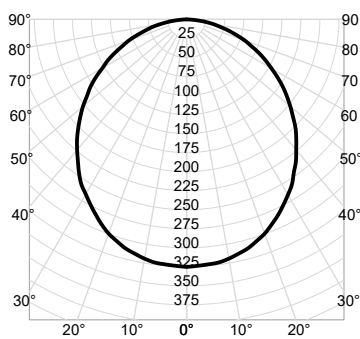


CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
						pf	80%			20%			50%				Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
		Zone	Lumens	% Fixture	pc	50%	30%	10%	50%	30%	10%	50%	30%	10%						
0°	327	0° - 30°	251	28%	0	119	119	119	116	116	116	111	111	111	6.0	9.1	16.0	0°	175,014	
5°	325	0° - 40°	406	46%	1	104	100	96	102	98	94	98	94	91	8.0	5.1	21.3	45°	154,038	
15°	313	0° - 60°	700	79%	2	91	84	78	89	83	77	85	80	76	10.0	3.3	26.7	55°	144,728	
25°	285	0° - 90°	880	100%	3	80	72	65	78	71	65	75	69	64	12.0	2.3	32.0	65°	133,869	
35°	247	90° - 180°	0	0%	4	71	62	55	70	61	55	67	60	54	14.0	1.7	37.4	75°	118,489	
45°	203	0° - 180°	880	100%	5	63	54	48	62	54	48	60	53	47	Beam Angle: 106.3° Field Angle: 161.3° Spacing Criterion: @ 0 = 1.21 / @ 90 = 1.22			85°	84,933	
55°	155				6	57	48	42	56	48	42	54	47	41						
65°	106				7	52	43	37	51	43	37	50	42	37						
75°	57				8	47	39	33	47	39	33	45	38	33						
85°	14				9	44	35	30	43	35	30	42	35	30						
90°	0				10	40	32	27	40	32	27	39	32	27						



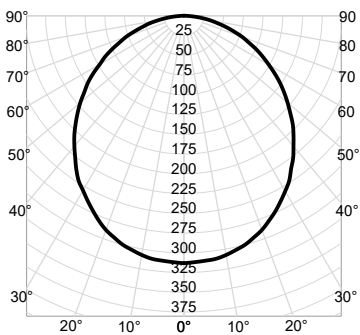
Photometrics

WF2 RD ALO25 SWW5 90CRI MW M6-HI 40K Input Watts: 9.4, Delivered Lumens: 875, LPW: 93.1, S/MH: 1.21, Test No: ISF 24546-P4



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)						
						pf	80%					70%					50%					Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
0°		Zone	Lumens	% Fixture	pc	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%								
0°	325	0° - 30°	249	28%	0	119	119	119	116	116	116	111	111	111	6.0	9.0	16.0	0°	174,020						
5°	323	0° - 40°	403	46%	1	104	100	96	102	98	94	98	94	91	8.0	5.1	21.3	45°	153,163						
15°	311	0° - 60°	696	79%	2	91	84	78	89	83	77	85	80	76	10.0	3.3	26.7	55°	143,906						
25°	284	0° - 90°	875	100%	3	80	72	65	78	71	65	75	69	64	12.0	2.3	32.0	65°	133,109						
35°	246	90° - 180°	0	0%	4	71	62	55	70	61	55	67	60	54	14.0	1.7	37.4	75°	117,815						
45°	202	0° - 180°	875	100%	5	63	54	48	62	54	48	60	53	47	Beam Angle: 106.3° Field Angle: 161.3° Spacing Criterion: @ 0 = 1.21 / @ 90 = 1.22			85°	84,451						
55°	154				6	57	48	42	56	48	42	54	47	41											
65°	105				7	52	43	37	51	43	37	50	42	37											
75°	57				8	47	39	33	47	39	33	45	38	33											
85°	14				9	44	35	30	43	35	30	42	35	30											
90°	0				10	40	32	27	40	32	27	39	32	27											

WF2 RD ALO25 SWW5 90CRI MW M6-HI 50K Input Watts: 9.8, Delivered Lumens: 843, LPW: 86.0, S/MH: 1.21, Test No: ISF 24546-P5



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)						
						pf	80%					70%					50%					Mounting Height	Initial FC Center Beam	Beam Diameter	
0°		Zone	Lumens	% Fixture	pc	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	Average Luminance							
0°	313	0° - 30°	240	28%	0	119	119	119	116	116	116	111	111	111	6.0	8.7	16.0	0° 167,656							
5°	311	0° - 40°	388	46%	1	104	100	96	102	98	94	98	94	91	8.0	4.9	21.3	45° 147,561							
15°	300	0° - 60°	670	79%	2	91	84	78	89	83	77	85	80	76	10.0	3.1	26.7	55° 138,643							
25°	273	0° - 90°	843	100%	3	80	72	65	78	71	65	75	69	64	12.0	2.2	32.0	65° 128,241							
35°	237	90° - 180°	0	0%	4	71	62	55	70	61	55	67	60	54	14.0	1.6	37.4	75° 113,507							
45°	195	0° - 180°	843	100%	5	63	54	48	62	54	48	60	53	47				85° 81,362							
55°	149													6	57	48	42	56	48	42	54	47	41	Beam Angle: 106.3°	
65°	101													7	52	43	37	51	43	37	50	42	37	Field Angle: 161.3°	
75°	55													8	47	39	33	47	39	33	45	38	33	Spacing Criterion: @ 0 = 1.21 / @ 90 = 1.22	
85°	13													9	44	35	30	43	35	30	42	35	30		
90°	0													10	40	32	27	40	32	27	39	32	27		