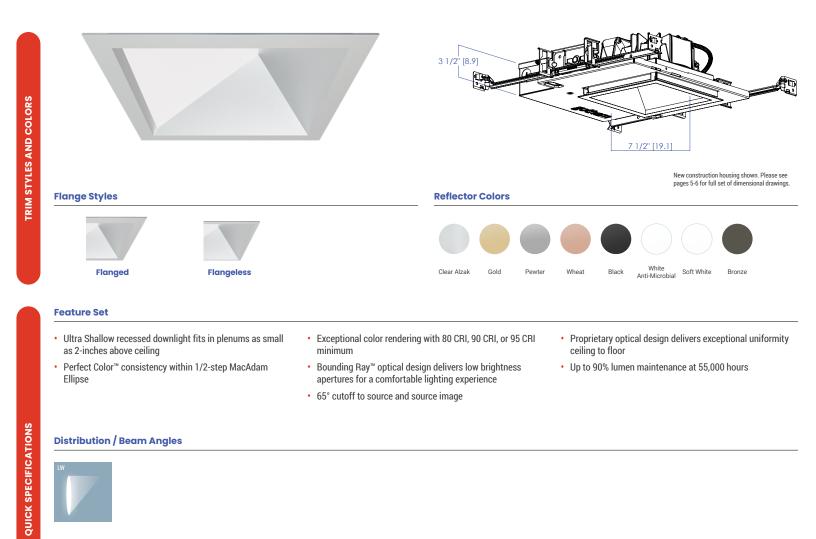
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Luminaire Type:

IVO[™] 6" Square Shallow Recessed Wall Wash New Construction & Remodel



Superior Perfomance*

-											
Nominal Lumens	05LM	07LM	10LM	15LM	20LM	25LM	30LM	35LM	40LM	45LM	50LM
Delivered Lumens	352	524	665	964	1280	1607	1942	2173	2480	2792	3106
Wattage	5.1	7.5	9.2	13.3	17.5	22.1	26.6	31.8	37.2	43.1	49.9
Lumens per Watt	69	70	72	72	73	73	73	68	67	65	62
*Based on 2500K 900		e									

Based on 3500K 80CRI LW AR LSS

IVO 6" Square Shallow Product Family





IVO[™] 6" Square Shallow Recessed Wall Wash New Construction & Remodel

Luminaire Type:

Catalog Number:

EXAMPLE: IV06SQS WW 10LM 35K 80CRI MIN10 MV0LT ZT NCH LW AR LSS F

Series	Function	Lumen Packages		Kelvin Temperature	Color Rendering Index ²	Dimming Level
IV06SQS Square Shallow Recessed	WW Wall Wash	05LM1 500 Lumens 07LM 700 Lumens 10LM 1000 Lumens 15LM 1500 Lumens 20LM 2000 Lumens 25LM 2500 Lumens	30LM 3000 Lumens 35LM 3500 Lumens 40LM 4000 Lumens 45LM 4500 Lumens 50LM 5000 Lumens	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	80CRI 80+ CRI 90CRI 90+ CRI 95CRI 95+ CRI	MIN10 Constant current, dimming to 10% MIN1 Constant current, dimming to 1% DARK Constant current, dimming to 0.1%

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Voltage	Control Input	Emergen	cy Option	Housing	g Style	Optio	ns
MVOLT 120V-277V 120 120V 277 277V 347 ³ 347V	cut (120V only) DMX ⁶ DMX with RDM (re management). Sq to <1%	E6WR ⁷ tage. Forward phase- emote device uare Law dimming Logarithmic dimming s enabled)	No Emergency 6W integral emergency battery, CA Title 20 compliant emergency battery pack with remote test switch. 2500LM max.	NCH ICAT CP RM	New Construction Housing IC/Airtight Housing (new construction only). 2500LM max. Chicago Plenum (new construction only). 2500LM max. Remodel/Install from below. Not available with Emergency Pack options.	SF ⁸	Single Fuse. Specify 120 or 277.

Trim Style Trim Color		Trim Finish		Flange Option		
LW Lensed Wall Wash	AR BR GR PR WTR WMR ⁹ WRAMF ⁹ BZR ⁹ TRALTBD ^{9,10} TCPC ⁹	Clear Metalized Black (painted) Gold Metalized Pewter Metalized Wheat Metalized Soft White Matte (painted) White with Anti-Microbial (painted) Dark Bronze Matte (painted) Trim RAL # (TBD for pricing only) Trim Custom Paint Color	LD LSS	Matte Diffuse Semi Specular	F FL FBL ¹¹ FWR ¹² FRALTBD ¹⁰ FCPC	Self Flanged (color matches trim) Flangeless (Drywall) Flange Only Black Flange Only White Flange Only RAL Flange Only Custom Paint Color

ORDERING NOTES

- 1. 05LM only available with ELV or ZT. Not available with 347V.
- 2. 50K CCT is not available with 90CRI. 35K, 40K or 50K is not available with 95CRI.
- 3. 347 only available with ZT at MIN1 or MIN10. Not available with nLight devices.

4. ZT is not available with DARK.

5. Only available with MIN1.

- $\hbox{6.} \quad \mathsf{DMX} \text{ and } \mathsf{DALI} \text{ are not available with } \mathsf{MIN1} \text{ or } \mathsf{MIN10}. \\$
- 7. E6WR is not available with DMX, NLIGHT, NLIGHTER, or NLTAIREM2.

8. RM with SF is not valid with DMX or nLight.

- 9. Not available with Optical Finish.
- Replace with applicable RAL number and finish when ready to order. See <u>RAL BROCHURE</u> for available color options.
- For use with different trim colors only (i.e. AR, BZR, GR, MWR, PR, WTR, WMR, WRAMF options). Not applicable with BR (black reflector) or FL (flangeless) option.

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 For use with different trim colors only (i.e. AR, BR, BZR, GR, PR, WTR options). Not applicable with WMR, WRAMF (white reflector) or FL (flangeless) option.

GOTHAM ARCHITECTURAL DOWNLIGHTING | 1400 Lester Road Conyers, GA 30012 | P 800-705-SERV (7378) | gothamlighting.com © 2014-2024 Acuity Brands Lighting Inc. All Rights Reserved. Rev. 04/22/24 Specifications subject to change without notice.

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IVO[™] 6" Square Shallow Recessed Wall Wash New Construction & Remodel

Optical System

Bounding Ray™ optical design delivers top-down flash for superior brightness control. Source and source image present simultaneously

Unitized optical system has mechanical attachment of the light engine to the trim for optimized optical alignment.

Source regression delivers 65 degrees of visual cutoff to source and source image.

LED Light engine

Proprietary light engines are custom binned to deliver perfect color consistency of 0.5-step MacAdam Ellipse fixture to fixture.

LED light engine is rated for L90 / 55,000 hours up to 2500 lumens and L80 / 55,000 hours at 3000 lumens.

Available in 80, 90, or 95 CRI minimum. 90 CRI has an R9 greater than 50. 95 CRI has an R9 greater than 80.

Trims

Trims are field interchangeable via twist-lock mechanism.

Trims are available in nine (9) standard colors and three standard finishes that can be customized.

Electrical

Luminaire operates from a 50 or 60 Hz \pm 3 Hz AC line over a voltage ranging from 120 VAC to 347 VAC. The fluctuations of line voltage have no visible effect on the luminous output.

Luminaire has a power factor of 85% or greater at all standard operating voltages and full luminaire output.

EMI/RFI per FCC Title 47 CFR, Part 15, Class A rated. ELV Phase dimming Driver is Class B rated except when used with E6WR or at 30LM and above. Input wires are 18AWG, 600V minimum, solid copper.

Controls (Optional)

Luminaire is equipped with interface for nLight wired, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software. Luminaire is equipped with interface for nLight Air, meaning it can communicate over the wireless nLight control platform. It pairs to other luminaires and wall switches through our mobile app, CLAIRITY+, which allows for single fixture control.

Dimming

The luminaire is capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 - 10%, 100 - 1.0% or 100 - 0.1% of rated lumen output with a smooth shut off function to step to 0%.

eldoLED LED drivers (EZT) conforms to IEEE P1789 standards.

The driver is inaudible in 24dB environment, and stable when input voltage conditions fluctuate over what is typically experienced in a commercial environment.

Emergency Battery (Optional)

Self testing integral emergency battery (E6WR) provides a emergency lighting for a duration of 90 minutes to meet egress code requirements. Emergency battery is accessible from below the ceiling. Emergency battery is CEC T20 Compliant.

Installation

Luminaire installs in 3.5" plenum depth ceiling (unless noted otherwise). Fixture is suitable for installation in ceilings from 5/8" to 2" in ceiling thickness via patented retention spring design.

Luminaire has telescopic mounting bars with maximum 24" and minimum 10 1/2" extension and 1 1/8" vertical adjustment.

Mounting brackets also work with C-Channel from $\frac{34}{2}$ " to $\frac{11}{2}$ ", Flat Strap from $\frac{1}{2}$ " to $\frac{34}{2}$ ", Conduit up to $\frac{34}{2}$ " in diameter, and $\frac{1}{2}$ " angle bar. Luminaire is rated for up to (8) No. 12 AWG 90°C through branch circuit conductors.

Fixture should be used in ceilings with 25° C ambient temperature as standard.

Non-IC rated luminaires shall be installed with 3" of clearance on all sides from insulation or 1/2" clearance on all sides from non-combustible materials (unless marked spacing noted otherwise.)

IC rated luminaires can be installed in direct contact with insulation.

Construction

Luminaire features LED module with quick-disconnect harness and strain relief for ease of inspection and service.

Servicing and maintaining the light engine, driver and branch circuit conductors is possible without tools from below the ceiling. Luminaire is constructed with 20 gauge galvanized steel.

Listings

Fixtures are CSA certified to meet US and Canadian Standards. All fixtures manufactured in strict accordance with the appropriate and current requirements of the "Standards for Safety" to UL wet location, covered ceiling only, standard.

Photometrics

All photometry is conducted by IESNA standard LM-79-08 in an accredited lab. LEDs are tested to LM-80 standards. Lumen maintenance is calculated via TM-21.

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 $^\circ\text{C}.$

The product images shown are for illustration purposes only and may not be an exact representation of the product.

****** Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provided consistent color appearance and out-of-the-box control capability with simple commissioning when used with Acuity Brands controls products.

All configurations of this luminaire are calibrated and tested meet the Acuity Brands' specification for chromatic consistency - including color rendering, color fidelity and color temperature tolerance around standard CIE chromaticity coordinates.

To learn more about A+, visit www.acuitybrands.com/aplus.

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Marked Spacing in Inches							
IV06SQS LW NCH - 3000 Lumens Max.							
Lumen Package	Fixture Center to Center Min	Fixture Center to Building Member MIN	Space Above Fixture				
5000	24	12	0.5				

FABLES OF USE

	Dimming Level		Control Input	Dimming Level	Driver Dim Curve	Recommended Control Dim Curve
sı	MIN10	+	ZT	100% to 10%	Linear	Linear/Logarithmic
Dimming Configurations	WINTO	+	EZT	100% to 10%	Linear	Linear/Logarithmic
figur		+	ZT	100% to 1%	Linear	Linear/Logarithmic
Con	MIN1	+	EZT	100% to 1%	Linear	Linear/Logarithmic
ming		+	ELV	100% to 1%*	n/a	n/a
Dim		+	EZT	100% to 0.1%	Logarithmic	Linear
	DARK	+	DMX	100% to 0.1%	Square	Linear
		+	DALI	100% to 0.1%	Logarithmic	Linear

* ELV Minimum Dimming level depends on dimmer and dimmer load

	Dimming Level		Control Input	Dimming Level	Control Provided	Driver Provided
		+	NLIGHT	100% to 10%	NIO EZDXA	eldoLED 0-10V ECOdrive
	MINITO	+	NLIGHTER	100% to 10%	NIO EZDCL ER	eldoLED 0-10V ECOdrive
tions	MIN10	+	NLTAIR2	100% to 10%	RIO EZDL G2	eldoLED 0-10V ECOdrive
Embedded Nlight Configurations		+	NLTAIREM2	100% to 10%	RIO EZDL EM G2	eldoLED 0-10V ECOdrive
onfi		+	NLIGHT	100% to 1%	NIO EZDXA	eldoLED 0-10V ECOdrive
ght C		+	NLIGHTER	100% to 1%	NIO EZDCL ER	eldoLED 0-10V ECOdrive
IN	MIN1	+	NLTAIR2	100% to 1%	RIO EZDL G2	eldoLED 0-10V ECOdrive
adder		+	NLTAIREM2	100% to 1%	RIO EZDL EM G2	eldoLED 0-10V ECOdrive
Embe		+	NLIGHT	100% to 0.1%	NIO EZDXA	eldoLED 0-10V SOLOdrive
	DARK	+	NLIGHTER	100% to 0.1%	NIO EZDCL ER	eldoLED 0-10V SOLOdrive
		+	NLTAIR2	100% to 0.1%	RIO EZDL G2	eldoLED 0-10V SOLOdrive
		+	NLTAIREM2	100% to 0.1%	RIO EZDL EM G2	eldoLED 0-10V SOLOdrive

How to Estimate Delivered Lumens in Emergency Mode

Delivered Lumens = P x LPW

P = Output power of emergency driver. P = 6W for E6WR

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

Flangeless Installation

Gotham's flangeless option utilizes a micro-thin polymer mud ring that minimizes the amount of drywall compound required to finish the ceiling. The end result is a virtually undetectable flangeless downlight installation.

The polymer mud ring is installed independent of the of the recessed frame, therefore floating with the ceiling. This innovation minimizes any surface cracks during reflector installation, ceiling movement and any future service to the recessed frame, wiring, electronics, etc.



Partially finished mud ring, showing crosssection detail.



An IVO downlight requires only approximately 3" of plaster to finish.



IVO with flangeless trim

FLANGELESS

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IVO[™] 6" Square Shallow Recessed Wall Wash New Construction & Remodel

3¹/₂"[8.9] 4¹/₈"[10.4]

3층"[9.2]

0

 $4\frac{1}{4}$ "[10.8]

0

New Construction Dimensions

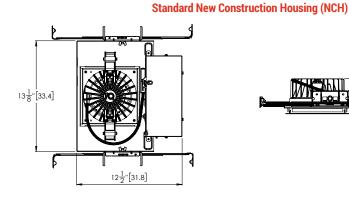
Trim Aperture: 6 5/16" x 6 5/16" (16 x 16)

Dimensions in inches [centimeters] 1/2" clearance on all sides required from non-combustible materials in non-IC applications, unless marked spacing noted otherwise.

Trim Flange 0.D.: 7 1/2" x 7 1/2" (19 x 19)

Ceiling Cutout (flanged): 7-1/8" x 7-1/8" (18.1 x 18.1)

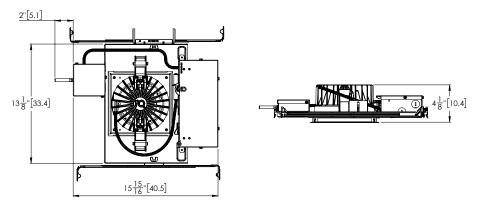
Ceiling Cutout (flangeless): 7 3/8" x 7 3/8" (18.7 x 18.7)



Shipping Weight: 8.3 lbs

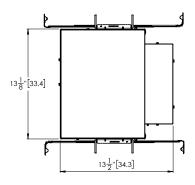
Shipping Weight: 9.8 lbs

NCH with NLIGHT, NLTAIR2, DMX



IC Airtight (ICAT) or Chicago Plenum (CP)

(dimensions are the same when E6WR added)



Shipping Weight: 11.2 lbs

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IVO[™] 6" Square Shallow Recessed Wall Wash New Construction & Remodel

Remodel Dimensions

Dimensions in inches [centimeters]

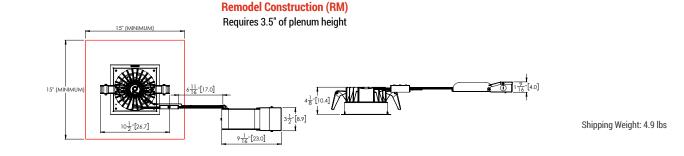
1/2" clearance on all sides required from non-combustible materials in non-IC applications, unless marked spacing noted otherwise.

Trim Aperture: 6 5/16" x 6 5/16" (16 x 16)

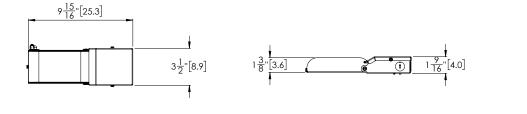
Trim Flange 0.D.: 7 1/2" x 7 1/2" (19 x 19)

Ceiling Cutout (flanged): 7-1/8" x 7-1/8" (18.1 x 18.1)

Ceiling Cutout (flangeless): 7 3/8" x 7 3/8" (18.7 x 18.7)

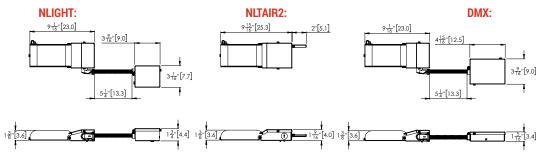


Remodel Construction (RM) Driver Enclosure with Fuse (SF) Requires 3.5" of plenum height



Shipping Weight: 5.6 lbs

Control Option Configurations Requires 3.5" of plenum height



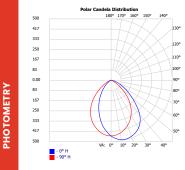
Shipping Weight: 5.6 lbs



IVO[™] 6" Square Shallow Recessed Wall Wash New Construction & Remodel

LW Lensed Wall Wash

IVO6SQS WW 20LM 35K 80CRI LW AR LSS



Wattage: 17.5. Lumens:	1279.9. LPW	: 73. S/MH: 1.41	, Test No: 23-471-16P51

Candela Summary					
0°	734				
10°	796				
20°	787				
30°	728				
40°	585				
50°	377				
60°	224				
70°	111				
80°	35				
90°	0				

Zor	Zonal Lumen Summary						
Zone	Zone Lumens %						
0-30	522	40.8%					
0-40	804	62.8%					
0-60	1183.6	92.5%					
0-90	1279.9	100.0%					

Cone of Light						
Mounting	Initial FC	Beam Dia	meter (ft)			
Height	Center Beam	Horizontal	Vertical			
8'	11.47	13.5	11.7			
10'	7.34	16.9	14.6			
12'	5.1	20.3	17.5			
14'	3.75	23.7	20.5			
16'	2.87	27.1	23.4			

CRI/CCT Multiplier Table			
CRI	CCT	Multiplier	
80	2700K	0.92	
	3000K	0.96	
	3500K	1.00	
	4000K	1.01	
	5000K	1.04	
90	2700K	0.80	
	3000K	0.85	
	3500K	0.85	
	4000K	0.89	
95 ·	2700K	0.68	
	3000K	0.75	

Distributions				
Distribution	Beam Angle			
MD	54			
MWD	62			
WD	68			
*				

Reflector Finish Multiplier			
Trim Color	Optical Finish	Multiplier	
AR	LSS	1.00	
AR	LS	1.03	
AR	LD	0.98	
GR	LSS	1.01	
GR	LS	0.99	
GR	LD	0.99	
PR	LSS	0.96	
PR	LS	0.96	
PR	LD	0.93	
WTR	LSS	0.95	
WTR	LS	0.95	
WTR	LD	0.92	
WR		1.03	
BZR		0.81	
BR		0.80	

JGR (70% 50% 20% reflectance using a x 8H room size)				
Lumen Package	Crosswise	Endwise		
	LW	LW		
05LM	21.4	15.4		
07LM	22.8	16.8		
10LM	23.7	17.7		
15LM	24.9	18.9		
20LM	25.9	19.9		
25LM	26.7	20.7		
30LM	27.4	21.4		
35LM	27.8	21.8		
40LM	28.2	22.2		
45LM	28.6	22.6		
50LM	29	23		



Single Lighting Controls Platform for Indoor & Outdoor Spaces

nLight® is your networked lighting controls platform, for indoor and outdoor applications, providing wired or wireless options. Scaling from room to campus-wide applications, it is the one platform that grows with your business today and tomorrow; to seamlessly address energy cost optimization, building code compliance, improved occupant comfort, and much more. nLight also interfaces with DALI®, BACnet®, DMX and additional third-party devices.

nLightcontrols.com

Wired Embedded Controls Wireless Embedded Controls **u** N N CAT-5e IVO Series IVO Series 1. Install the luminaires with 1. Install the luminaires with embedded controls embedded controls 2. Install the nLight Wired 2. Install the nLight AIR battery-powered wall switch wall switch 3. Connect the luminaires using 3. Use CLAIRITY+ mobile app to nLight nPODMA DX nLight rPODBA 2P DX Mobile Device standard CAT-5e cables and pair the fixtures with the wall the controls devices will switch and if desired, customize automatically discover each the sensor settings other and work (plug and play)

UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSB0R, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

NLIGHT

