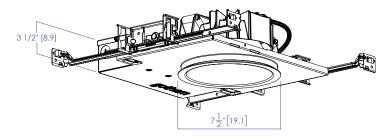
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IVO™ 6" Round Shallow Recessed Downlight **New Construction & Remodel**





New construction housing shown. Please see pages 5-6 for full set of dimensional drawings

Flange Styles





Reflector Colors

















Feature Set

- Ultra Shallow recessed downlight fits in plenums as small as 2 inches above ceiling
- Perfect Color™ consistency within 1/2-step MacAdam Ellipse
- · Exceptional color rendering with 80 CRI, 90 CRI, or 95 CRI minimum
- Bounding Ray™ optical design delivers low brightness apertures for a comfortable lighting experience
- · 65° cutoff to source and source image
- Patent pending optics available in three batwing distributions deliver exceptional lighting uniformity
- Field adaptable with interchangeable optics and trims
- Up to 90% lumen maintenance at 55,000 hours

Distribution / Beam Angles







Superior Perfomance*

Nominal Lumens	05LM	07LM	10LM	15LM	20LM	25LM	30LM	35LM	40LM	45LM	50LM
Delivered Lumens	563	838	1063	1541	2046	2569	3106	3474	3965	4464	4966
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	110	112	116	116	117	116	117	109	107	104	100

^{*}Based on 3500K AR LSS MWD 80CRI

IVO 6" Round Shallow Product Family



Lensed Wall Wash









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Luminaire Type:	
Catalog Number:	

EXAMPLE: IV06S D 10LM 35K 80CRI MWD MIN10 MVOLT ZT NCH P AR LSS F

Series		Fun	ection	Lumen I	Packages	Kelvin	Temperature	Color Re	endering Index ²	Distrib	oution	Dimming	g Level
IV06S	Round Shallow Recessed	D	Downlight	05LM1 07LM 10LM 15LM 20LM 25LM 30LM 35LM 40LM 45LM 50LM	500 Lumens 750 Lumens 1000 Lumens 1500 Lumens 2000 Lumens 2500 Lumens 3000 Lumens 4000 Lumens 4500 Lumens 5000 Lumens	27K 30K 35K 40K 50K	2700K 3000K 3500K 4000K 5000K	80CRI 90CRI 95CRI	80+ CRI 90+ CRI 95+ CRI	MD MWD WD	Medium (0.8 s/mh, 60°) Medium Wide (1.0 s/mh, 65°) Wide (1.2 s/mh, 75°)	MIN10 MIN1 DARK	Constant current, dimming to 10% Constant current, dimming to 1% Constant current, dimming to 0.1%

Voltage		Control Input		Emergency	Option	Housir	ng Style	Optio	ns
MVOLT 120 277 347 ³	120V-277V 120V 277V 347V	ZT ⁴ EZT ELV ⁵ DMX ⁶ DALI ⁶ NLIGHT ⁷ NLTAIR2 ⁷ NLIGHTER ⁷ NLTAIREM2 ⁷	0-10V Generic. 0-10V eldoLED. Electronic line voltage. Forward phase-cut (120V only) DMX with RDM (remote device management). DALI Compatible. nLight enabled nLight Air (Wireless Enabled) nLight enabled emergency circuit nLight AIR Gen2 with UL924 compliant EM	(Blank) E6WR ⁷	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	
P	Open Reflector	AR BR GR PR WTR WR9,13 WMR9 WRAMF9 BZR9,13 TRALIBD 9,10 TCPC9	Clear Anodized Black Anodized Gold Anodized Pewter Anodized Wheat Anodized White Gloss (painted) Soft White Matte (painted) White Gloss with Anti-Microbial (painted) Dark Bronze Gloss (painted) Trim RAL # (TBD for pricing only) Trim Custom Paint Color	LD LS LSS	Matte Diffuse Specular 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

ACCESSORIES – order as separate catalog numbers (shipped separately)

IVO6SOPTC D MD U
Field Replaceable Optic, Medium Distribution
IVO6SOPTC D MWD U
Field Replaceable Optic, Medium Wide Distribution
IVO6SOPTC D WD U
Field Replaceable Optics, Wide Distribution

ORDERING NOTES

- 1. 05LM only available with ELV or ZT. Not available with 347V.
- $2. \quad 50 \hbox{K CCT is not available with 90CRI. 35 K, 40 K or 50 K is not available with 95 CRI.} \\$
- $3. \quad 347 \ only \ available \ with \ ZT \ at \ MIN1 \ or \ MIN10. \ Not \ available \ with \ nLight \ devices.$
- 4. ZT is not available with DARK.
- 5. Only available with MIN1
- 6. DMX and DALI are not available with MIN1 or MIN10.
- $7. \quad \hbox{E6WR is not available with DMX, NLIGHT, NLIGHTER, or NLTAIREM2}.$
- 8. RM with SF is not valid with DMX or nLight.

- 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.
- 11. For use with different reflector flange colors only (i.e. AR, BZR, GR, PR, WTR, WR, WMR, WRAMF options). Not applicable with BR (black reflector) or FL (flangeless) option.
- For use with different reflector flange colors only (i.e. AR, BR, BZR, GR, PR, WTR options). Not applicable with WR, WMR, WRAMF (white reflector) or FL (flangeless) option.
- 13. Corrosion Resistant Powder Coat.



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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.

Patent pending optics are available in three (3) batwing distributions for optimal uniformity, free of shadows, hot spots or striations.

Optics are field interchangeable without tools via twist-lock feature.

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.

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 ± 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 1/2" 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 (supplied separated).

Mounting brackets also work with C-Channel from $\frac{3}{4}$ " to $\frac{11}{2}$ ", Flat Strap from $\frac{1}{2}$ " to $\frac{3}{4}$ ", Conduit up to $\frac{3}{4}$ " 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, damp location 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.

4 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								
IV06S RM - 5000 Lumens Max.								
Lumen Package								
5000	5000 24 12 0.5							

	Dimming Level		Control Input	Dimming Level	Driver Dim Curve	Recommended Control Dim Curve
SI	MIN10	+	ZT	100% to 10%	Linear	Linear/Logarithmic
Dimming Configurations	MIINTO	+	EZT	100% to 10%	Linear	Linear/Logarithmic
figur		+	ZT	100% to 1%	Linear	Linear/Logarithmic
8	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
	MIN10	+	NLIGHTER	100% to 10%	NIO EZDCL ER	eldoLED 0-10V ECOdrive
Embedded Nlight Configurations	MIINTU	+	NLTAIR2	100% to 10%	RIO EZDL G2	eldoLED 0-10V ECOdrive
gurai		+	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	MIN1	+	NLIGHTER	100% to 1%	NIO EZDCL ER	eldoLED 0-10V ECOdrive
III B	MIINI	+	NLTAIR2	100% to 1%	RIO EZDL G2	eldoLED 0-10V ECOdrive
adde		+	NLTAIREM2	100% to 1%	RIO EZDL EM G2	eldoLED 0-10V ECOdrive
E mpe		+	NLIGHT	100% to 0.1%	NIO EZDXA	eldoLED 0-10V SOLOdrive
	DARK	+	NLIGHTER	100% to 0.1%	NIO EZDCL ER	eldoLED 0-10V SOLOdrive
	DAKK	+	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

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New Construction Dimensions

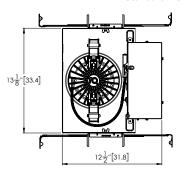
Dimensions in inches [centimeters]

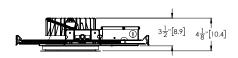
1/2" clearance on all sides required from non-combustible materials in non-IC applications, unless marked spacing noted otherwise.

Trim Aperture: 6-5/16" (16)	Ceiling Cutout (flanged): 7-1/8" (18.1)

Standard New Construction Housing (NCH)

Trim Flange OD: 7-1/2" (19)

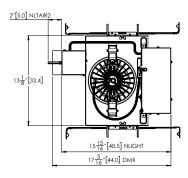




Shipping Weight: 8.3 lbs

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

NCH with NLIGHT, NLIGHTAIR2, DMX

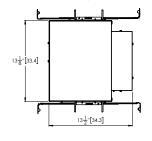


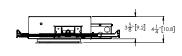


Shipping Weight: 9.8 lbs

IC Airtight (ICAT) or Chicago Plenum (CP)

(dimensions are the same when E6WR added)





Shipping Weight: 11.2 lbs

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Remodel Dimensions

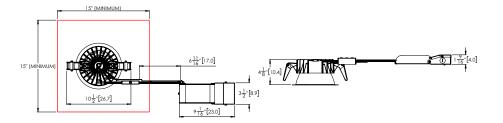
Dimensions in inches [centimeters]

 $1/2^{\prime\prime}$ clearance on all sides required from non-combustible materials in non-IC applications, unless marked spacing noted otherwise.

Trim Aperture: 6-5/16" (16) Ceiling Cutout (flanged): 7" (17.8) Overlap trim: 7-1/2" (19) Ceiling Cutout (flangeless): 7-3/8" (18.7)

Remodel Construction (RM)

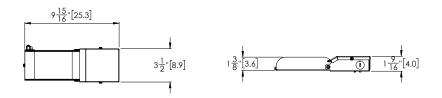
Requires 3.5" of plenum height



Shipping Weight: 4.9 lbs

Remodel Construction (RM) Driver Enclosure with Fuse (SF)

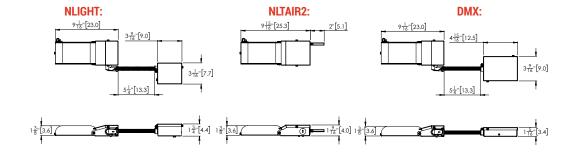
Requires 3.5" of plenum height



Shipping Weight: 5.6 lbs

Remodel Construction (RM) Driver Enclosures with Control Options

Requires 3.5" of plenum height

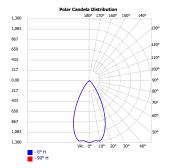


Shipping Weight: 5.6 lbs

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MD Medium Beam

IVO6S D 20LM 35K 80CRI MD P AR LSS



0°	2501
10°	2475
20°	1885
30°	940
40°	307
50°	85
60°	9
70°	2
80°	1

0

90°

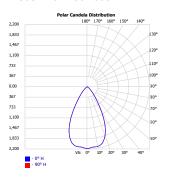
Candela Summary

Zonal Lumen Summary						
Zone	%					
0-30	1497.3	73.9%				
0-40	1852.5	91.4%				
0-60	2020.7	99.7%				
0-90	2025.8	100%				

	Cone of Light						
Mounting	Initial FC	al FC Beam Diameter (ft)					
Height	Center Beam	Horizontal	Vertical				
8'	39.07	8.1	8.1				
10'	25.01	10.1	10.1				
12'	17.36	12.1	12.1				
14'	12.76	14.1	14.1				
16'	9.77	16.1	16.1				

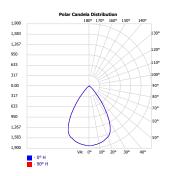
MWD Medium Wide Beam

IVO6S D 20LM 35K 80CRI MWD P AR LSS



WD Wide Beam

IVO6S D 20LM 35K 80CRI WD P AR LSS



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	

Wattage: 17.5, Lumens: 2046.5, LPW: 117, S/MH: 0.94, Test No:23-560-1P351

Wattage: 17.5, Lumens: 2025.8, LPW: 116, S/MH: .85, Test No: 23-471-6P351

Candela Summary			
0°	2190		
10°	2146		
20°	1845		
30°	1018		
40°	352		
50°	114		
60°	9		
70°	1		
80°	0		
90°	0		

Zonal Lumen Summary			
Lumens	%		
1444.2	70.6%		
1830	89.4%		
2042.2 99.8%			
2046.5 100%			
	1444.2 1830 2042.2		

	Cone of Light			
Mounting	Initial FC	Beam Diameter (ft)		
Height	Center Beam	Horizontal	Vertical	
8'	34.21	8.9	8.9	
10'	21.9	11.2	11.2	
12'	15.21	13.4	13.4	
14'	11.17	15.7	15.7	
16'	8.55	17.9	17.9	

Wattage: 17.5, Lumens: 2068.1, LPW:118, S/MH: 1.08, Test No: 23-560-4P351

Candela Summary			
0°	1825		
10°	1777		
20°	1662		
30°	1217		
40°	441		
50°	108		
60°	9		
70°	1		
80°	0		
90°	0		

Zonal Lumen Summary			
one Lumens			
1340.5	64.8%		
1845	89.2%		
2063.8	99.8%		
2068.1	100%		
	Lumens 1340.5 1845 2063.8		

	Cone of Light			
Mounting	Initial FC	Beam Diameter (ft)		
Mounting Height	Center Beam	Horizontal	Vertical	
8'	28.52	10.7	10.7	
10'	18.25	13.4	13.3	
12'	12.68	16.1	16	
14'	9.31	18.7	18.7	
16'	7.13	21.4	21.4	

Reflector Finish Multiplier			
Trim Color	Optical Finish	Multiplier	
AR	LSS	1.00	
AR	LS	1.01	
AR	LD	0.97	
GR	LSS	0.98	
GR	LS	0.97	
GR	LD	0.95	
PR	LSS	0.94	
PR	LS	0.95	
PR	LD	0.90	
WTR	LSS	0.93	
WTR	LS	0.92	
WTR	LD	0.91	
WR		1.02	
BZR		0.78	
BR		0.77	

	UGR (70% 50% 20% reflectance using a 4H x 8H room size)					
Lumen	Crosswise		Endwise			
Package MD	MD	MWD	WD	MD	MWD	WD
05LM	0	1.1	0.8	0	1.1	0.8
07LM	0.6	2.4	2.2	0.6	2.4	2.2
10LM	1.4	3.3	3.1	1.4	3.3	3.1
15LM	2.7	4.6	4.3	2.7	4.6	4.3
20LM	3.7	5.5	5.3	3.7	5.5	5.3
25LM	4.5	6.3	6.1	4.5	6.3	6.1
30LM	5.2	7	6.8	5.2	7	6.8
35LM	5.5	7.4	7.2	5.5	7.4	7.2
40LM	6	7.8	7.6	6	7.8	7.6
45LM	6.4	8.3	8	6.4	8.3	8
50LM	6.8	8.6	8.4	6.8	8.6	8.4

*UGR varies based on luminaire options and is affected by application dependent parameters. Numbers depicted here are considered "Luminaire-UGR" and/or "Point-UGR" values. To determine a more precise maximum UGR value ("Application-UGR"), a full lighting design layout should be completed with the selected luminaire configuration for each application.

^{**}Calculated using an AR (Clear reflector) with LSS (Semi-Specular) finish





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

IVO Series 1. Install the luminaires with embedded controls 2. Install the nLight Wired wall switch 3. Connect the luminaires using standard CAT-5e cables and the controls devices will

Wireless Embedded Controls







- IVO Series
- 1. Install the luminaires with embedded controls
- Install the nLight AIR battery-powered wall switch
- Use CLAIRITY+ mobile app to pair the fixtures with the wall switch and if desired, customize the sensor settings





nLight rPODBA 2P DX

Mobile Device

UL924 Sequence of Operation

automatically discover each

other and work (plug and play)

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, rSBOR, 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.