

CATALOG #: _ TYPF. PROJECT: _

NEW CONSTRUCTION AND REMODEL

ORDERING EXAMPLE: 6DS - L20/835 - OPTIONS - CONTROL/DIM - UNV ,-, LW - OF - WH - TRIM OPTIONS ,-, N - F1 — HOUSING — ____ TRIM _____ MOUNT.



HOUSING

SERIES	LUMENS [1]	CRI	ССТ	OPTIONS	CONTROL	DRIVER	VOLTAGE
6DS	L10 1,000lm ^[2] L15 1,500lm	8 80 9 90 [3]	27 2700K 30 3000K	See page 4 for EMERGENCY BATTERY OPTIONS.	See page 6 for ADDITIONAL CONTROL/DRIVER OPTIONS.	See page 6 for ADDITIONAL CONTROL/DRIVER OPTIONS.	UNV 120-277V 347 347V [9]
	L20 2,000lm L30 3,000lm L40 4,000lm		35 3500K 40 4000K 50 5000K	ATH Airtight construction CP Chicago plenum (CCEA) [4] F Fuse kit	- None AVI-LVFA Avi-on wireless fixture control [6]	DIM Dimming driver, 0-10V DIM1 1% Dimming driver, 0-10V DA Driver with 12V auxiliary	
	L50 5,000lm L60 6,000lm			SDT Stepdown transformer [5]	AWNR Lutron Athena wireless node integral fixture control, RF only [7]	power, without external dimming wires ^[8]	

TRIM [10]

TRIM TYPE	DISTRIBUTION [11]	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
O Open reflector L Flush lens R Regressed lens A Angled lens [12]	W Wide 55° Open 65° Flush 65° Regressed M Medium [13] 50° Open	OF 1/2" standard flange SF 1/4" mud-in flange [16]	Open trim types CS Clear semi-specular anodize SG Satin-glow anodize GD Gold anodize CG Champagne gold anodize PW Pewter anodize	MWT Textured white trim flange [18] IP IP65 rated trim [19] AD Diffuse acrylic lens [20] PD Diffuse 1/8" polycarbonate lens [21] WET/CC Wet location, covered ceiling listed [22] AM Anti-microbial [23]
	35° Flush 35° Regressed N Narrow [14] 45° Open 25° Flush 25° Regressed WW Wall wash [15]		SPC Clear specular anodize RG Rose gold anodize Lens trim types CS Clear semi-specular powder coat WH White texture powder coat BL Black texture powder coat MB Black texture splay with white flange [17]	All Allemicoods -

MOUNTING

MOUNTING TYPE [24]

- N Open pan for new construction
- I IC-rated enclosure for new construction [26]
- R Remodel kit [27]

MOUNTING HARDWARE [25]

- Integral 2-position fixed pan bracket, universal bar hanger included [28]
- BA1 Adjustable butterfly pan bracket, bar hanger not included [29]
- CA1 Adjustable caterpillar pan bracket, universal bar hanger included [30]

NOTES

- Lumen output based on L trim type, W distribution and WH finish, 3500K/80CRI. Actual lumens may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA. Not available with EM/10W emergency batteries.

- Extended lead times may apply. Consult factory for availability.
 I Mounting Type required.
 May be required for 347V, see product builder at hew.com/product-builder
- May be required for 34/V, see product builder at hew.com/product-builder.

 DA Driver only. See page 6 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.

 DA Driver only.

 Avi-on and Lutron Athena Controls only.

 Not available with EM batteries, DA or DMX Drivers.

 Trim ships separately.

 Beam angle based on CS or WH reflector finish.

 Available with L50 lumen package or higher.

 Not available with L50 lumen package or higher.

- 13
- Not available with L50 lumen package or higher.
- O and A Trim Types only.

 For use with mud-in plaster construction only, supplied with mud flange installation kit. See page 3 for FLANGE TYPE DETAILS. Not available with ATH or IP options.

- 17 R Trim Type only Not available with MWT.
 18 Not available with WH Reflector Finish or L Trim Type.
 19 L and R trim types only.
 20 Not available with O trim type. W and WW distributions only.
 21 Not available with O trim type. W and WW distributions only.
 22 Not available with O Trim Type. Not available with PD trim option.
 23 WH and RI Reflector Finishes only.
- Not available with O Trim Type. Not available with 1 & Not available with 1 & Not available with 2 & Whand BL Reflector Finishes only.
 Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 5 for MOUNTING TYPE DETAILS.
 Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
 120 lumen package max. L30 available, wide distribution only. Not available with EM
- L20 lumen package max. L30 available, wide distribution only. Not available with EM batteries.
- Also used in new construction sheetrock ceilings. Pan-less installation.
 N and I Mounting Types only. I Mounting requires external brackets.
- 29 N Mounting Type only.
 30 N Mounting Type only.

6DS LED 6" Downlight – Square

FEATURES

- Beam angles ranging from 25° narrow to 65° wide for tailored performance
- Square shape accentuates architectural styles
- New construction mounting pan, IC-rated, or pan-less remodel kit available
- Die-cast trim choices include flush, regressed or angled lens
- Spring clip retention system eliminates trim sag
- Fully room-side accessible
- Wireless in-fixture control solutions available



Available with BIOS® consult factory

SPECIFICATIONS

- HOUSING Die-cast aluminum trim housing with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Swing-out mounting arms field adjust for ceiling thickness from 1/2'' - 2-1/4''.
- OPEN REFLECTOR Low-iridescent anodized aluminum with top diffuser.
- LENSED TRIM Die-cast aluminum frame with microprismatic, acrylic lens.
- ELECTRICAL High-performance Class 2 C.O.B. LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>55,000 hours. Reported L90>55,000 hours. Estimated L70 = 200,000
- MOUNTING Recessed. 20 ga. galvanized steel mounting pan for new construction or IC-rated enclosure. Remodel kit option includes receiver bracket hardware. Minimum 24" O.C. marked spacing required for L50 - L70 lumen packages.

- LISTINGS -
- cCSAus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0 for dry and damp locations. LED light assembly conforms to UL 2108 for remote installation.
- Suitable for wet location under covered ceiling when specified with WET/CC option.
- IC-rated for direct contact with insulation when specified with I Mounting Type.
- City of Chicago Environmental Air approved when specified with CP option.
- Complies with ASTM-E283 when specified with ATH option.
- RoHS compliant.
- Title 24 (JA8) compliant in select configurations, see www.cacertappliances.energy.ca.gov
- Complies with the Buy American Act and other federal regulations. Request certification at hew.c
- WARRANTY 5-year limited warranty, see hew.com/warranty.

FIXTURE PERFORMANCE DATA

OPEN REFLECTOR TRIM TYPE

	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)
	W	966	10.6	91
은	М	789	10.6	74
	N	777	10.6	73
	W	1452	16.0	91
135	М	1185	16.0	74
	N	1167	16.0	73
	W	1936	22.5	86
120	М	1580	22.5	70
	N	1556	22.5	69
	W	2823	31.0	91
130	М	2283	31.0	74
	N	2196	31.0	71
	W	3807	41.7	91
149	М	3066	41.7	74
	N	2855	41.7	69
	W	4786	52.0	92
L50	М	_	-	_
	N	_	-	_
	W	5599	64.6	87
199	М	_	_	_
	N	_	_	_
	W	6557	78.1	84
12	М	_	_	_
	N	_	_	_

FLUSH LENS TRIM TYPE

	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)
	W	1037	10.6	98
은	М	1056	10.6	100
_	N	1031	10.6	97
	W	1551	16.0	97
문	М	1589	16.0	99
	N	1547	16.0	97
	W	2068	22.5	92
L20	М	2118	22.5	94
	N	2063	22.5	92
	W	3030	31.0	98
130	М	3056	31.0	99
	N	2916	31.0	94
	W	4087	41.7	98
P49	М	4104	41.7	98
	N	3791	41.7	91
	W	5137	52.0	99
L50	М	_	-	-
	N	_	-	-
	W	6009	64.6	93
097	М	-	-	ı
	N	_	_	
	W	7038	78.1	90
120	М	_	_	_
	N	_	-	_

REGRESSED LENS TRIM TYPE

	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)
	W	994	10.6	94
19	М	1026	10.6	97
	N	1008	10.6	95
	W	1494	16.0	93
112	М	1547	16.0	97
	N	1514	16.0	95
	W	1992	22.5	89
L20	М	2062	22.5	92
	N	2019	22.5	90
	W	2905	31.0	94
L30	М	2971	31.0	96
	N	2849	31.0	92
	W	3917	41.7	94
L40	М	3990	41.7	96
	N	3705	41.7	89
	W	4924	52.0	95
L50	М	_	-	-
	N	-	_	-
	W	5760	64.6	89
09T	М	_	_	_
	N	_	_	_
	W	6746	78.1	86
L70	М	_	_	_
	N	_	_	_

MULTIPLIER TABLES

	COLOR TEMPERATURE			
	ССТ	CONVERSION FACTOR		
	2700K	0.92		
~	3000K	0.98		
80 CRI	3500K	1.00		
∞	4000K	1.01		
	5000K	1.02		
	2700K	0.76		
=	3000K	0.79		
90 CRI	3500K	0.82		
ಕ	4000K	0.84		
	5000K	0.88		

OPEN REFLECTOR FINISH					
CATALOG NUMBER	REFLECTOR FINISH	CONVERSION FACTOR			
CS	Clear semi-specular	1.00			
SG	Satin-glow	0.92			
GD	Gold	0.93			
CG	Champagne Gold	0.96			
PW	Pewter	0.86			
SPC	Specular	1.02			
RG	Rose Gold	0.88			
WH	0.89				
BL	Black, textured	0.79			

TRIM		
CATALOG CONVERSION FACTOR		
AD	0.85	
PD	0.85	

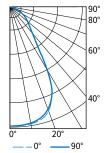
- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature. Wattage shown is based on 120V input.
- Results based on 3500K, 80 CRI, actual lumens may vary +/-5%
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.

 Use multiplier table to calculate additional options.



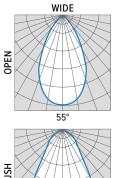
PHOTOMETRY

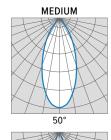
6DS-L20/835-DIM-UNV-LW-OF-WH Report #: 20349; 04/24/18 | Total Luminaire Output: 2068 lumens; 22.5 Watts | Efficacy: 92.1 lm/W | 83.5 CRI; 3456K CCT

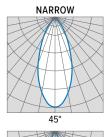


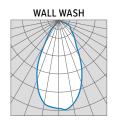
	VERTICAL ANGLE	HORIZ	ZONTAL A	ZONAL LUMENS	
	VERTICAL ANGLE	0°	45°	90°	ZUNAL LUMENS
8	0	1403	1403	1403	
CANDLEPOWER DISTRIBUTION	5	1407	1400	1402	134
2	15	1375	1357	1357	386
泛	25	1145	1263	1150	553
곮	35	524	845	526	408
8	45	318	367	311	261
핊	55	201	206	199	182
ᅙ	65	103	103	100	101
5	75	40	39	38	41
	85	3	2	4	4
	90	0	0	0	

		,	
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
Σ	0 - 30	1072	52
S	0 - 40	1480	72
딟	0 - 60	1922	93
]	0 - 90	2068	100
_	0 - 180	2068	100

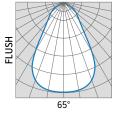


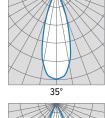


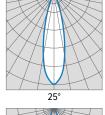


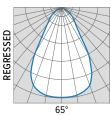


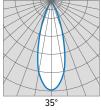


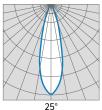








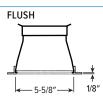


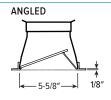


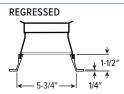
TRIM TYPE DETAILS









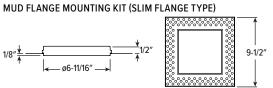


FLANGE TYPE DETAILS











REFLECTOR FINISH DETAILS

SPC Clear specular	SG Satin glow	PW Pewter	GD Gold	CG Champagne gold	RG Rose gold	CS Clear semi-specular	WH White	BL Black
						100		
			BOOK OF THE REAL PROPERTY.					

EMERGENCY BATTERY OPTIONS

Additional limitations apply, see page 1. Specify CEC in the option code when California Energy Commission regulations are required.

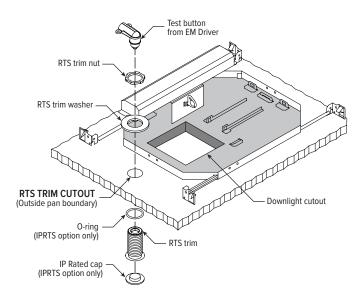
CATALOG NUMBER	DESCRIPTION	
EM/7W	7-watt emergency battery ^[1]	
EM/7W/RTS	7-watt emergency battery with regressed test switch [2]	
EM/7W/IPRTS 7-watt emergency battery with IP65 rated regressed test switch		
EM/10W	10-watt emergency battery [1]	
EM/10W/RTS	10-watt emergency battery with regressed test switch [2]	
EM/10W/IPRTS	10-watt emergency battery with IP65 rated regressed test switch	

- Not available with IP Option. Not available with IP or WET/CC Options.

REGRESSED TEST SWITCH DETAILS



Shown Installed



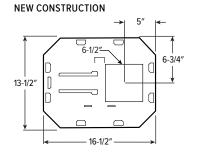
APERTURE ADAPTOR ORDERING INFO

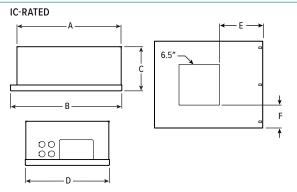
	ORDERING EXAMPLE: 4DR - GR - 0575 - WHT									
SERIES		CATALOG NUMBER	CEILING CUTOUT	FINISH						
4AR 4DR 4DS 4PR 4PS	6AR 6DR 6DS 6PR 6PS 8DR	GR	Specify ceiling cutout in 1/8" increments. Example: 5.75" = 0575 See Kit Components for application limits.	CS WH BL	Clear semi-specular powder coat White texture powder coat Black texture powder coat					

For use with remodel downlights. Additional finishes available, consult factory. For limitations and instructions, see hew.com/aperture-adaptor.pdf

6DS LED 6" Downlight – Square

MOUNTING TYPE DETAILS

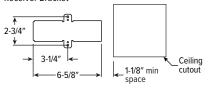


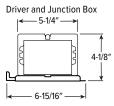


	LENGTH					
LUMENS	Α	В	С	D	E	F
L10 - L20	15-3/16"	16"	6-3/8"	12-1/8"	6-1/4"	2-7/8"
L30	16-5/8"	17-1/2"	7-7/8"	14"	7″	3-3/4"

REMODEL Cross Section L10 - L30: 5-7/8" L40 - L50: 7-3/8"

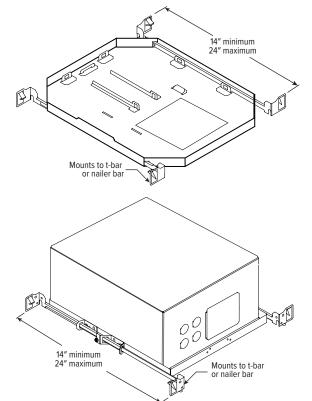
Receiver Bracket





MOUNTING HARDWARE DETAILS

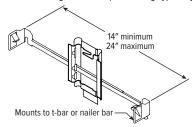
F1 Integral 2-position fixed pan bracket, universal bar hanger included



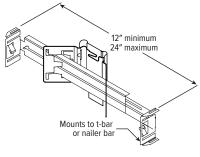
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



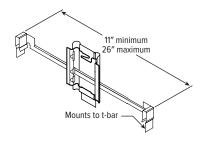
CA1 Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only)



BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)



CA2 Adjustable caterpillar pan bracket, t-bar hanger included (N Mounting Type only)



F1 with I Mounting Type



AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

FEATURES

Simple

- Gateway-free distributed control
- Factory pre-commissioning
- Contractor friendly installation
- Occupancy/vacancy/daylight sensing

Scalable

- Virtually unlimited network size
- Spans small offices to large warehouses
- Flexible control strategies

- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

COMMISSIONING & INSTALLATION TOOLS

Avi-on mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers. Live commissioning training and on-site or remote support by Avi-on must be ordered separately through Avi-on.









Zone Scanner Mobile App Web App

Commissioning Pro App

Mobile Apps

Remote Management & Monitoring

SYSTEM COMPONENTS









Wall Stations

Remote Access Bridge

Ceiling Sensors

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ACCESSORIES

WALL STATIONS				
AVI-2401AC	Scene controller - numbered 1-4, 120-277VAC			
AVI-2402BAT	Scene controller - numbered 1-4, battery powered			
AVI-2401AC-2	Dimmer with presets - percentages, 120-277VAC			
AVI-2402BAT-2	Dimmer with presets - percentages, battery powered			
AVI-2401AC-3	On/off/dimming, 120-277VAC			
AVI-2402BAT-3	On/off/dimming, battery powered			

For load controllers and additional accessory info, see hew.com/avi-on

NETWORK

AVI-RAB-ITE Remote access bridge – LTE connection AVI-2001RAB-01-C Remote access bridge - Wifi connection AVI-KIT-NTM Network time manager with battery backup

CEILING MOUNT SENSORS

AVI-KIT-SEN-DUCM PIR motion and ultrasonic sensor kit AVI-KIT-SEN-ICM PIR motion and photocell sensor kit

ADDITIONAL CONTROL/DRIVER OPTIONS

Lumen restrictions apply: L40 max for DMX, Lutron, and DALI drivers, L50 max for DIM LINE driver. R mounting type requires top access with DMX controls. R Mounting Type not available with FCJS controls. R Mounting Type requires 12" minimum plenum depth when specified with VRF/DBI controls. 347V may require stepdown transformer, see product builder at hew.com/product-builder. I Mounting Type not available with Lutron controls.

CATALOG NUMBER	DESCRIPTION
AVI-LVFA/DA	Avi-on wireless fixture control for use with driver with 12V auxiliary power
VRF/DBI/LDE1	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and digital link interface, with Lutron Hi-lume 1% EcoSystem dimming LED driver
FCJS/DIM	Lutron Vive PowPak wireless fixture control with dimming driver
FCJS/DIM1	Lutron Vive PowPak wireless fixture control with 1% dimming driver
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible at 120V only)
DALI	DALI dimming driver
DMX	0.1% dimming driver for DMX controls
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver