

CATALOG #: _ TYPF. PROJECT: _

NEW CONSTRUCTION AND REMODEL

ORDERING EXAMPLE: 6AR - L20/835 - OPTIONS - CONTROL/DIM - UNV - OW - OF - CS - TRIM OPTIONS - N - F1 — HOUSING — ____ TRIM _____

HOUSING

SERIES	LUMENS [1]	CRI	CCT	OPTIONS		CONTRO	L	DRIV	′ER ^[2]	VOLTAGE
6AR	L10 1,000lm ^[3] L15 1,500lm L20 2,000lm L30 3,000lm L40 4,000lm	8 80 9 90 ^[4]	27 2700K 30 3000K 35 3500K 40 4000K 50 5000K	EM/7W EM/10W EM/10W/RTS ATH CP F SDT	7-watt emergency battery ^[5] 10-watt emergency battery ^[6] 5 10-watt emergency battery with regressed test switch ^[7] Airtight construction ^[8] Chicago plenum (CCEA) ^[9] Fuse kit Stendown transformer ^[10]		None Avi-on wireless fixture control [11]	DIM DIM1 DA	Dimming driver, 0-10V 1% Dimming driver, 0-10V Driver with 12V auxiliary power [12]	UNV 120-277V 347 347V [13]

TRIM [14]

TRIM TYPE	DISTRIBUTION [15] FLANGE TYPE	DISTRIBUTION [15] FLANGE TYPE REFLECTOR FINISH	TRIM OPTIONS
O Open reflector L Flush lens A Angled lens		55° Open SF 1/4" mud-in flange [16] CS Clear semi-specular anodize WH White texture powder coat BL Black texture powder coat Lens trim types 35° Open SF flush WH White texture powder coat Lens trim types CS Clear semi-specular powder coat WH White texture powder coat BL Black texture powder coat N Narrow 25° Open 25° Flush	MWT Textured white trim flange [17] AD Diffuse acrylic lens [18] PD Diffuse 1/8" polycarbonate lens [19] WET/CC Wet location, covered ceiling listed [20] AM Anti-microbial [21]

MOUNTING

MOUNTING TYPE [22]

N Open pan for new construction

- I IC-rated enclosure for new construction [24]
 R Remodel kit [25]

MOUNTING HARDWARE [23]

- F1 Factory-installed 2-position fixed pan bracket, universal bar hanger included [26]
- BA1 Adjustable butterfly pan bracket, bar hanger not included [27]
- CA1 Adjustable caterpillar pan bracket, universal bar hanger included [28]

NOTES

- Lumen output based on 0 trim type, W distribution and CS finish, 3500K/80CRI. Actual lumens may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA. See page 6 for ADDITIONAL DRIVER OPTIONS. Not available with EM/10W emergency batteries.
- Extended lead times may apply. Consult factory for
- availability.
 N and R Mounting Types only. Not available with ATH option.
- N and R Mounting Types only. Not available with ATH option. Not available with WET/CC or ATH options. N and R Mounting
- Types only. See page 5 for EM/10W/RTS DETAILS.
- I Mounting Type required.
- I Mounting Type required. May be required for 347V, see product builder at hew.com/product-builder
- 11 DA Driver only. See page 6 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
- 12 Avi-on Controls only.
 13 Not available with EM batteries, DMX Driver, or Avi-on Controls.

- 14 Trim ships separately.
 15 Beam angle based on CS or WH reflector finish.
 16 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 option.
- Not available with WH Reflector Finish or L Trim Type.
- L and A Trim Types only. W distribution only.
 L and A Trim Types only. W distribution only.
 L and A Trim Types only. W distribution only.
 L Trim Type only. Not available with PD trim option.
 WH and BL Reflector Finishes only.

- Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See
- page 4 for MOUNTING TYPE DETAILS.
 Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
- Not available with L40 lumen package.
- ²⁵ Also used in new construction sheetrock ceilings. Pan-less installation.
- N and I Mounting Types only. Universal bar hanger ships uninstalled. I Mounting requires external brackets.
- N Mounting Type only.
- 28 N Mounting Type only

FEATURES

- Adjustable aim with 0° 45° tilt and 360° rotation
- Beam angles ranging from 25° narrow to 55° wide for tailored performance
- Spring clip retention system eliminates trim sag
- Etched degree markers and directional indicator make it simple to fine-tune the illumination angle
- Choice of open reflector or die-cast lensed trims to complement interior style
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Fully room-side accessible
- Available with Avi-on wireless fixture controls



SPECIFICATIONS

- HOUSING Die-cast aluminum spun and stamped articulating mechanism with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Mounting clips allow for ceiling thickness from 1/2" - 7/8"
- OPEN REFLECTOR Low-iridescent anodized aluminum. Clear semi-specular finish standard.
- 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. N and R mounting types for use in non-fire rated installations only. Minimum $24^{\prime\prime}$ O.C. marked spacing required for L30 and L40 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.
- ${\it WARRANTY-5-} year\ limited\ warranty,\ see$ hew.com/warranty.

FIXTURE PERFORMANCE DATA

OPEN REFLECTOR TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)
	W	1020	10.5	97.1
19	М	1023	10.5	97.4
	N	1022	10.5	97.4
	W	1537	15.1	101.8
115	М	1542	15.1	102.1
	N	1541	15.1	102.1
	W	2039	21.0	97.1
L20	М	2045	21.0	97.4
	N	2044	21.0	97.3
	W	2917	31.3	93.2
L30	М	2915	31.3	93.1
	N	2790	31.3	89.2
	W	3889	42.0	92.6
149	М	3886	42.0	92.5
	N	3720	42.0	88.6

ANGLED LENS TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)
	W	744	10.5	70.9
19	М	889	10.5	84.7
	N	907	10.5	86.4
	W	1122	15.1	74.3
115	М	1340	15.1	88.7
	N	1368	15.1	90.6
	W	1488	21.0	70.9
L20	М	1777	21.0	84.6
	N	1814	21.0	86.4
	W	2144	31.3	68.5
L30	М	2507	31.3	80.1
	N	2441	31.3	78.0
	W	2858	42.0	68.0
L4	М	3342	42.0	79.6
	N	3254	42.0	77.5

FLUSH LENS TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)
	W	896	10.5	85.3
2	M	956	10.5	91.1
	N	951	10.5	90.6
	W	1350	15.1	89.4
115	M	1442	15.1	95.5
	N	1433	15.1	94.9
	W	1791	21.0	85.3
L20	M	1912	21.0	91.0
	N	1901	21.0	90.5
	W	2559	31.3	81.8
130	M	2717	31.3	86.8
	N	2609	31.3	83.4
	W	3411	42.0	81.2
L49	М	3622	42.0	86.2
	N	3478	42.0	82.8

MULTIPLIER TABLES

	COLOR TEMPERATURE				
	ССТ	CONVERSION FACTOR			
	2700K	0.92			
=	3000K	0.98			
80 CRI	3500K	1.00			
Θ	4000K	1.01			
	5000K	1.02			
	2700K	0.76			
=	3000K	0.79			
90 CRI	3500K	0.82			
6	4000K	0.84			
	5000K	0.88			

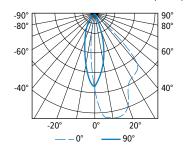
OPEN REFLECTOR FINISH				
CATALOG CONVERSION				
NUMBER	FACTOR			
CS	1.00			
WH	0.89			
BL	0.79			

TRIM			
CATALOG NUMBER	CONVERSION FACTOR		
AD 1	0.85		
PD ¹	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, 0° tilt, actual lumens may
- Use multiplier table to calculate additional options.

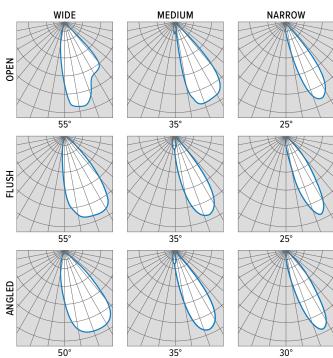
PHOTOMETRY

6AR-L20/835-DIM-UNV-OW-OF-CS (25° tilt) Report #: 20390; 05/16/18 | Total Luminaire Output: 1958 lumens; 21.2 Watts | Efficacy: 92.5 lm/W | 82.3 CRI; 3571K CCT



	VERTICAL ANGLE		HORIZ	ZONTAL A	NGLE		ZONAL
	VERTICAL ANGLE	0°	45°	90°	135°	180°	LUMENS
DISTRIBUTION	0	2605	2605	2605	2605	2605	
늘	5	3639	3208	2308	1607	1297	227
ᇐ	15	3810	2844	1321	442	310	469
泛	25	2919	2543	541	122	92	548
곮	35	2592	1908	109	26	20	499
N	45	1695	212	11	6	6	212
CANDLEPOWER	55	20	2	0	0	2	3
ᅙ	65	0	0	0	0	0	0
2	75	0	0	0	0	0	0
	85	0	0	0	0	0	0
	90	0	0	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE				
₹	0 - 30	1244	64				
\mathbb{S}	0 - 40	1743	89				
핇	0 - 60	1958	100				
育	0 - 90	1958	100				
	0 - 180	1958	100				



TRIM TYPE DETAILS







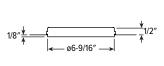


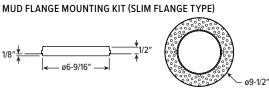
FLANGE TYPE DETAILS

1/2" STANDARD







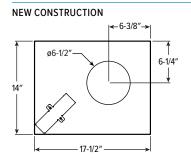


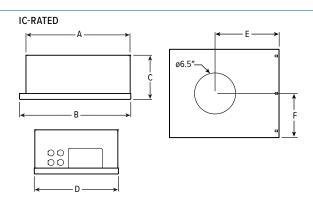


REFLECTOR FINISH DETAILS



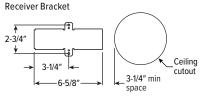
MOUNTING TYPE DETAILS

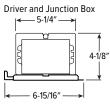




		LENGTH					
LUMENS	Α	В	С	D	E	F	
L10 - L20	15-3/16"	16"	6-3/8"	12-1/8"	9-1/2"	6-1/16"	
L30	16-5/8"	17-1/2"	7-7/8"	14"	10-1/4"	7″	

REMODEL **Cross Section** L10 - L30: 5-1/4" L40: 6-3/4"





APERTURE ADAPTOR ORDERING INFO

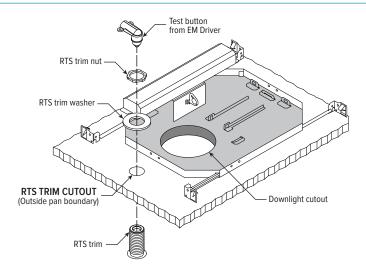
	ORDERING EXAMPLE: 4DR - GR - 0575 - WHT								
SERIES		CATALOG NUMBER	CEILING CUTOUT	FINISH					
4AR 4DR 4DS 4PR 4PS	6AR 6DR 6DS 6PR 6PS 8DR	GR	Specify ceiling cutout in 1/8" increments. Example: 5.75" = 0575 See Kit Components for application limits.	CS WH BL	Clear semi-specular powder coat White texture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

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

EM/10W/RTS DETAILS

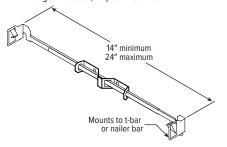


Shown Installed



MOUNTING HARDWARE DETAILS

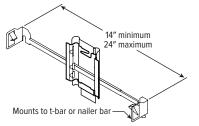
Factory-installed 2-position fixed pan bracket, universal bar hanger included, ships uninstalled



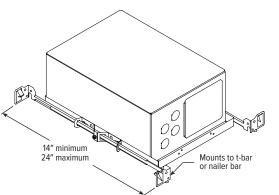
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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



BA2 Adjustable butterfly pan bracket, heavy-duty

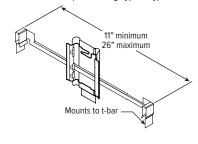


F1 with I Mounting Type

universal bar hanger included (N Mounting Type only) 12" minimum

24" maximum Mounts to t-bar or nailer bar

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



SEE NEXT PAGE FOR CONTROL DETAILS.

AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

AVI-ON NETWORK FEATURES

Simple

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

Scalable

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

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

DIGITAL INSTALLATION TOOLS

Avi-On mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers.







Zone Scanner Web App

Commissioning Pro App

SYSTEM COMPONENTS



Remote Access Bridge

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ACCESSORIES

Mobile App

WALL STATIONS	
AVI-2401AC AVI-2402BAT AVI-2401AC-2 AVI-2402BAT-2 AVI-SWITCH AVI-DIMMER	Scene controller - numbered 1-4, 120-277VAC Scene controller - numbered 1-4, battery powered Dimmer with presets - percentages, 120-277VAC Dimmer with presets - percentages, battery powered AC paddle wall switch Circuit dimmer switch
CONNECTIVITY	
AVI-2001RAB-01-P AVI-2001RAB-01-C AVI-KIT-NTM	Remote access bridge for projects 100 or greater Remote access bridge for projects less than 100 Network time manager with Battery Backup
CEILING MOUNT SENSORS	
AVI-KIT-SEN-DUCM AVI-KIT-SEN-ICM	PIR motion and ultrasonic sensor kit PIR motion and photocell sensor kit

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

ADDITIONAL DRIVER OPTIONS

Lumen restrictions apply: L30 max for DMX driver, L40 max for Lutron drivers, L40 max for DIM LINE driver. R Mounting Type not available with DMX or 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

& Monitoring

CATALOG NUMBER	DESCRIPTION
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)
DA	Dimming driver with 12V auxiliary
DMX	0.1% dimming driver for DMX controls
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver
VRF/DBI/LDE1	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and digital link interface, for use 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