

TYPF.

CATALOG #1

PROJECT:

L30 – L40 Lumens shown

NEW CONSTRUCTION AND REMODEL



ORDERING EXAMPLE: 6DR - TL - L20/835 - OPTIONS - CONTROL/DIM - UNV -OW - OF - CS - TRIM OPTIONS N - F1

- HOUSING TRIM MOUNT HOUSING SERIES LUMENS^[1] CRI CCT OPTIONS CONTROL DRIVER VOLTAGE See page 3 for EMERGENCY BATTERY OPTIONS. See page 6 for ADDITIONAL CONTROL/DRIVER OPTIONS. See page 6 for ADDITIONAL CONTROL/DRIVER OPTIONS. 6DR - TL 1,000lm [2] **8** 80 27 2700K UNV 120-277V L10 30 3000K 347 347V^[9] TrimLock 1,500lm **9** 90 L15 35 3500K 120 2 000lm SCA___ Sloped ceiling adapter [3] DIM Dimming driver, 0-10V None 40 4000K AVI-LVFA Avi-on wireless fixture control [6] 130 3.000lm ATH Airtight construction DIM1 1% Dimming driver, 0-10V L40 4,000lm 50 5000K F Driver with 12V auxiliary Fuse DA 5,000lm Chicago plenum (CCEA)^[4] Lutron Athena wireless power, without external dimming wires ^[8] L50 СР AWNR node integral fixture control, RF only ^[7] L60 6,000lm Stepdown transformer ^[5] SDT L70 7.000lm L80 8,000lm **TRIM** [10] DISTRIBUTION FLANGE TYPE REFLECTOR FINISH TRIM OPTIONS TRIM TYPE OF 1/2" standard flange Smooth matte white trim flange [19] See page 2 for BEAM ANGLE. MWT O Open reflector Open trim types F Open reflector with frosted top diffuser ^[11] SF 1/4" mud-in flange [17] CS Clear semi-specular anodize IP IP65 rated trim [20] Diffuse acrylic lens [21] SG Satin-glow anodize w Wide AD GD CG Gold anodize Champagne gold anodize L Flush lens Medium [14] PD Diffuse 1/8" polycarbonate lens [22] м R Regressed lens WET/CC Wet location, covered ceiling listed [23]

- Narrow^[15] Ν
 - WW Wall wash [16]
- S Non-conductive flush lens for shower applications ^[13]

A Angled lens^[12]

- PŴ Pewter anodize
- Clear specular anodize Rose gold anodize SPC
- RG
- wн White texture powder coat BL Black texture powder coat
- Lens trim types
- Clear semi-specular powder coat CS
- wн White texture powder coat
- Black texture powder coat MB
- Black texture splay with white flange [18]

MOUNTING

MOUNTING TYPE [25]

N Open pan for new construction

MOUNTING HARDWARE [26]

- Integral 2-position fixed pan bracket, universal bar hanger included [29] F1
- BA1 Adjustable butterfly pan bracket, bar hanger not included [30]
 - CA1 Adjustable caterpillar pan bracket, universal bar hanger included [31]

NOTES

- Lumen output based on O Trim Type, W Distribution and CS Reflector Finish, 80 CRI/3500K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- 3
- Not available with EM/10W emergency batteries. 11-1/2" aperture, specify degrees of slope in 5° increments, 05°-30°. Not available with I Mounting Type, S Trim Type, ATH, IP, or WET/CC Options. Painted white. Other colors available, consult factory. See page 4 for SLOPED CEILING ADAPTOR DETAILS.
- 5
- I Mounting Type required. May be required for 347V, see product builder at
- hew.com/product-builder DA Driver only. See page 6 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. 6
- DA Driver only.
- 8 Avi-on and Lutron Athena Controls only
- Not available with EM batteries, DA or DMX Drivers. 10 Trim ships separately.

- ¹¹ WET/CC standard unless ordered with EM/RTS or SCA Options. L50 lumen package max. Available with WW Distribution only.
- 13 W Distribution, OF Flange Type and WH Reflector Finish only. Standard with AD, IP and WET/CC Trim Options.
- Not available with lumen stops L50 and higher when specified with L or R Trim Types. Not available with lumen stops L50 and higher when specified 15
- with L or R Trim Types. 16
- 17
- O and A Trim Types only. For use with mud-in plaster construction only, supplied with mud flange installation kit. See page 4 for FLANGE TYPE DETAILS. Not available with ATH or IP Options.
- R Trim Type only. Not available with MWT.
- Not available with WH Reflector Finish, L or S Trim Types. 20
- 21
- L and R trim types only. Not available with O or F Trim Types. W and WW Distributions only

- 22 Not available with O or F Trim Types. W and WW Distributions

Anti-microbial [24]

ΔM

- only. ²³ L50 lumen package max with O Trim Type. ²⁴ WH and BL Reflector Finishes only. Not available with S Trim Type.
- ²⁵ 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.
- 27 L30 lumen package max. Not available with EM batteries or Lutron Athena Controls.
- 28 Also used in new construction sheetrock ceilings. Pan-less installation.
- ²⁹ N and I Mounting Types only. I Mounting requires external brackets.
- ³⁰ N Mounting Type only.
- ³¹ N Mounting Type only

Designed and Manufactured in the USA H.E. Williams, Inc. Carthage, Missouri www.hew.com 417-358-4065 REV 01/30/25 MH Information contained herein is subject to change without notice



I IC-rated enclosure for new construction ^[27] R Remodel kit ^[28]

DR LED 6" Downlight – Round

FEATURES

- Innovative TrimLock reflector retention system ensures trim remains flush with ceiling plane
- Wide range of lumen options for general illumination Beam angles ranging from 10° narrow to 65° wide for tailored performance
- Industry-leading efficacies as high as 116 lm/W
- New construction mounting pan, IC-rated, or pan-less remodel kit available
- Fully room-side accessible
- Die-cast trim includes flush, regressed or angled lens
- Sloped adapter accommodates vaulted ceilings
- Optional non-conductive lens for shower applications
- IP65-rated die-cast trim includes easy-to-clean flush lens
- Open reflector with nine finishes complements any interior style
- Available on QuickShip
- Low UGR meets LEED and WELL requirements
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

FIXTURE PERFORMANCE DATA

OPEN REFLECTOR TRIM TYPE

	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)
	W	1014	8.7	117
L10	М	982	8.7	113
	Ν	1003	8.7	115
	W	1497	13.8	109
L15	М	1495	13.8	108
	Ν	1528	13.8	111
	W	1988	19.0	105
L20	М	1983	19.1	104
	Ν	2026	19.1	106
	W	3062	26.9	114
L30	М	3003	26.9	112
	Ν	3000	26.9	112
	W	4094	36.5	112
L40	М	4016	36.4	110
	Ν	4011	36.4	110
	W	5014	43.9	114
L50	М	4935	43.9	112
	Ν	5047	43.9	115
	W	6043	54.0	112
L60	М	5948	54.0	110
	Ν	6083	54.0	113
	W	7008	67.8	103
L70	М	6898	67.8	102
	Ν	7055	67.8	104
	W	8018	79.8	101
L80	М	7891	79.8	99
	Ν	8071	79.8	101

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''.
- TRIMLOCK Innovative TrimLock reflector retention system ensures the trim remains flush with the ceiling plane
- 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 hours
- 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 L60 - L80 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 or F trim type.
- IC-rated for direct contact with insulation when specified with I Mounting Type
- City of Chicago Environmental Air approved when specified with CP option.
- IP65 rated trim when specified with IP option.
- Complies with ASTM-E283 when specified with ATH option.
- RoHS compliant.
- Title 24 (JA8) compliant in select configurations, see cacertappliances.energy.ca.gov
- Complies with the Buy American Act and other federal regulations. Request certification at hew.com/buy-american

WARRANTY - 5-year limited warranty, see hew.com/warranty

FLUSH LENS TRIM TYPE

	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)
	W	774	8.7	89
2	М	910	8.7	105
	Ν	909	8.7	105
	W	1178	13.8	85
13	М	1385	13.8	100
	Ν	1384	13.8	100
	W	1562	19.5	80
2	М	1837	19.1	96
	Ν	1836	19.5	94
	W	2335	26.9	87
13	М	2782	26.9	103
	N	2718	26.9	101
	W	3122	36.5	86
F4	М	3720	36.4	102
	Ν	3635	36.4	100
	W	3824	43.9	87
120	М	-	-	-
	Ν	-	-	-
	W	4609	54.0	85
190	М	-	-	_
	Ν	-	-	-
	W	5345	67.8	79
2	М	-	-	-
	Ν	-	-	_
	W	6115	79.8	77
8	М	-	-	-
	Ν	_	-	_

REGRESSED LENS TRIM TYPE

	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)
	W	716	8.7	82
문	М	883	8.7	102
	Ν	897	8.7	103
	W 1090		13.8	79
L15	М	1344	13.8	97
	Ν	1366	13.8	99
_	W	1445	19.5	74
120	М	1782	19.1	93
	Ν	1812	19.5	93
	W	2160	26.9	80
130	М	2699	26.9	100
	Ν	2683	26.9	100
_	W	2889	36.5	79
54	М	3609	36.4	99
	Ν	3587	36.4	99
	W	3537	43.9	81
L 50	М	-	-	-
	Ν	-	-	-
_	W	4264	54.0	79
160 L60	М	-	-	-
	Ν	-	-	-
	W	4945	67.8	73
2	М	-	-	-
	Ν	-	-	-
	W	5657	79.8	71
L80	М	_	-	-
	Ν	-	-	-

MULTIPLIER TABLES

	COLOR TEMPERATURE				
	ССТ	CONVERSION FACTOR			
	2700K	0.92			
≂	3000K	0.98			
80 CRI	3500K	1.00			
õ	4000K	1.01			
	5000K	1.02			
	27001/	0.70			
	2700K	0.76			
₽	3000K	0.79			
90 CRI	3500K	0.82			
6	4000K	0.84			
	5000K	0.88			

	REFLECTOR FINISH				
	CATALOG NUMBER	CONVERSION FACTOR			
	CS	1.00			
	SG ^[1]	0.92			
	GD	0.93			
Σ	CG	0.96			
O TRIM	PW	0.86			
0	SPC	1.02			
	RG	0.88			
	WH ^[1]	0.89			
	BL [1]	0.47			
Σ	WH	1.00			
R TRIM	CS	0.98			
~	BL	0.79			

TRIM OPTIONS				
CATALOG CONVERSION NUMBER FACTOR				
F	0.75			
S	0.85			
AD	0.85			
PD	0.85			
WET/CC	0.85			

BEAM ANGLE

		TRIM TYPE ^[2]					
	O F L R						
W	65°	70°	55°	55°			
Μ	35°	35°	35°	35°			
Ν	10°	25°					

2

Distribution will also be affected, consult factory. Beam angle based on CS or WH Reflector Finish. Photometrics tested in accordance with IESNA LM-79. Results based on O trim type, W distribution, CS finish, 80 CRI/3500K CCT, wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/-5%.

To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy. Use multiplier tables to calculate additional options

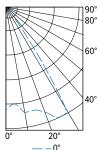
PHOTOMETRY CONTINUED ON NEXT PAGE.



DR LED 6" Downlight – Round 6

PHOTOMETRY

6DR-TL-L20/835-DIM-UNV-OW-OF-CS Report #: 20687; 12/12/18 | Total Luminaire Output: 1988 lumens; 19.0 Watts | Efficacy: 104.6 lm/W | 80 CRI; 3500K CCT



	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
N	0	1672	
CANDLEPOWER DISTRIBUTION	5	1579	151
BB	15	1735	492
ISI	25	1982	917
R.	35	604	380
No.	45	46	36
Đ.	55	13	12
릴	65	2	2
S	75	0	0
	85	0	0
	90	0	

		,	
MARY	ZONE	LUMENS	% FIXTURE
LUMEN SUMMARY	0 - 40	1939	98
	0 - 60	1987	100
	0 - 90	1988	100
3	0 - 180	1988	100

OPEN (O)



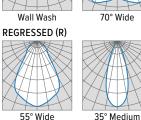


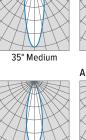


35° Medium



25° Narrow

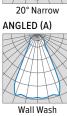




25° Narrow

OPEN TOP DIFFUSER (F)

70° Wide



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 ^[3]

- Not available with S Trim Type or IP Trim Option. Not available with S Trim Type, IP or WET/CC Trim Options. Must specify IP Trim Option.
- 1 2
- 3

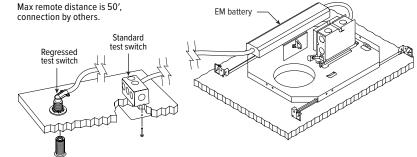
MOUNTING DETAILS



Regressed test switch ø1-3/4″



2-3/4" x 4-1/2"



APERTURE ADAPTOR ORDERING INFO

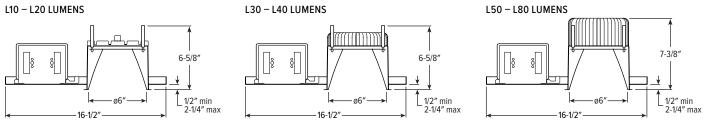
	ORDERING EXAMPLE: 4DR - GR - 0575 - WHT								
SERIES	S	CATALOG NUMBER	CEILING CUTOUT		FINISH				
4DR 6 4DS 6 4PR 6 4PS 6	SAR SDR SDS SPR SPS SDR	GR	Specify ceiling cutout in 1/8" increments. Example: 5.75" = 0575 See Kit Components for application limits.	CS WH BL	Clear semi-specular powder coat White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

Adaptor (goof ring) corrects ceiling cutout errors during remodel downlight installation. Additional finishes available, consult factory. For limitations and instructions, see hew.com/aperture-adaptor.pdf

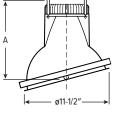


6DR LED 6" Downlight – Round

CROSS SECTIONS



SLOPED CEILING ADAPTOR DETAILS



		A (HEIGHT)					PLENUM
LUMENS	5°	10°	15°	20°	25°	30°	HEIGHT
L10 - L40	10-11/16"	10-7/8″	10-15/16"	10-7/8″	10-13/16"	10-5/8″	11-1/4″
L50 - L80	11-7/16″	11-9/16″	11-5/8″	11-5/8″	11-1/2″	11-1/4″	12″
15° Shown							

Ceiling cutout: ø11-7/8"

TRIMLOCK DETAILS







TRIM TYPE DETAILS

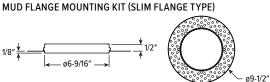


FLANGE TYPE DETAILS





ø6-3/8″



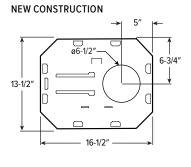
Ceiling Cutout: ø6-1/2" Ceiling cutout: ø7"

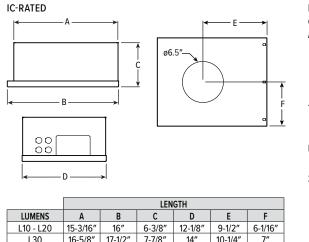
REFLECTOR FINISH DETAILS

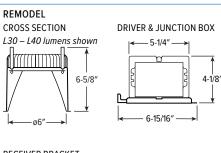


6DR LED 6" Downlight – Round

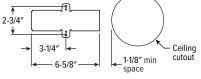
MOUNTING TYPE DETAILS







RECEIVER BRACKET



MOUNTING HARDWARE DETAILS

Mounts to t-bar or nailer bar

P

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

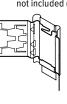
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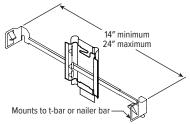
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14" minimum 24" maximum

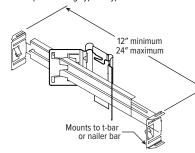
6



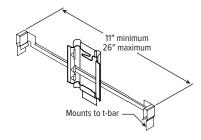
- **BA1** Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)
- CA1 Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only)



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)



14" minimum 24" maximum Mounts to t-bar or nailer bar

F1 with I Mounting Type



6DR LED 6" Downlight – Round

AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

FEATURES

Simple

- Gateway-free distributed control ÷
- Contractor friendly installation
- Occupancy/vacancy/daylight sensing .

Scalable

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

Secure

- Optional cloud connectivity х.
- UL IoT platinum security rating
- х. 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.



Mobile App





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ACCESSORIES

WALL STATIONS	
AVI-B-2401AC-1	Scene controller - buttons numbered 1-4 and up/down/off, 120-277VAC
AVI-B-2402BAT-1	Scene controller - buttons numbered 1-4 and up/down/off, battery powered
AVI-B-2401AC-2	Dimmer with presets - buttons with percentages and up/down/off, 120-277VAC
AVI-B-2402BAT-2	Dimmer with presets - buttons with percentages and up/down/off, battery powered
AVI-B-2401AC-3	Two button control on/off or hold to dim up/down, 120-277VAC
AVI-B-2402BAT-3	Two button control on/off or hold to dim up/down, battery powered

NETWORK AVI-RAB-LTE Remote access bridge AVI-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

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

ADDITIONAL CONTROL/DRIVER OPTIONS

Lumen restrictions apply: L40 max for DMX driver, L40 max for Lutron drivers, L15 min to L60 max for DIM LINE driver. R mounting type requires top access with DMX 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
AWNR/DA	Lutron Athena wireless node integral fixture control, RF only, 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