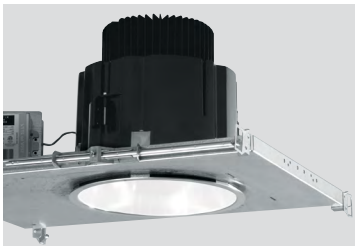
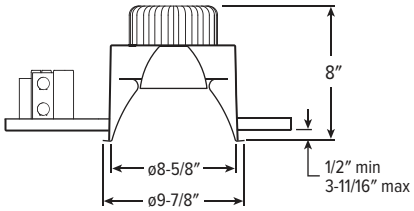
8DR dim to WARM
8″ Downlight – Round





CATALOG #:

TYPE:

PROJECT:

NEW CONSTRUCTION AND REMODEL

ORDERING EXAMPLE: 8DR - L18/9DW - OPTIONS - DIM1 - 120 - OW - WH - TRIM OPTIONS - N - F1
(HOUSING | TRIM | MOUNT.)

HOUSING

SERIES	LUMENS [1]	COLOR	OPTIONS	CONTROL	VOLTAGE
8DR	**L6** 600lm **L11** 1,100lm **L18** 1,800lm	**9DW** Dim to warm (95 CRI, 1800K – 3000K)	*See page 3 for **EMERGENCY BATTERY OPTIONS**.* **SCA_ _** Sloped ceiling adapter [2] **ATH** Airtight construction **F** Fuse **CP** Chicago plenum (CCEA) [3] **SDT** Stepdown transformer [4]	**DIM1** 1% dimming driver (0-10V signal to control dimming and CCT) **LUT** Lutron Ecosystem enabled	**120** 120V **277** 277V **347** 347V [5]

TRIM [6]

TRIM TYPE	DISTRIBUTION [7]	REFLECTOR FINISH	TRIM OPTIONS
O Open reflector **L** Clear polycarbonate lens	**W** 64° Wide **M** 36° Medium **N** 23° Narrow **S** 13° Spot	**WH** White texture powder coat **CS** Clear semi-specular powder coat **BL** Black texture powder coat	**MWT** Smooth matte white trim flange [8] **WET/CC** Wet location, covered ceiling listed [9] **AM** Anti-microbial [10] **AD** Diffuse acrylic lens [11] **PD** Diffuse 1/8″polycarbonate lens [12]

MOUNTING

MOUNTING TYPE [13]	MOUNTING HARDWARE [14]
N Open pan for new construction **I** IC-rated enclosure for new construction [15] **R** Remodel kit [16]	**F1** Integral 2-position fixed pan bracket, universal bar hanger included [17] **BA1** Adjustable butterfly pan bracket, bar hanger not included [18] **CA1** Adjustable caterpillar pan bracket, universal bar hanger included [19]

NOTES

1. Lumen output based on O Trim Type, W Distribution and WH Reflector Finish, 95 CRI/3000K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
2. 14″ aperture, specify degrees of slope in 5° increments, 05°-30°. See page 3 for SLOPED CEILING ADAPTOR DETAILS. N Mounting Type only. Not available with ATH or WET/CC Options. Painted white. Other colors available, consult factory.
3. I Mounting Type required.
4. May be required for 347V, see product builder at hew.com/product-builder
5. Not available with EM batteries.
6. Trim ships separately.
7. Beam angle based on CS or WH Reflector Finish
8. Not available with WH Reflector Finish or L Trim Type.
9. L Trim Type only.
10. WH and BL Reflector Finishes only.
11. L Trim Type and W Distribution only.
12. L Trim Type and W Distribution only..
13. Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
14. Additional mounting hardware options available. See page 4 for MOUNTING HARDWARE DETAILS.
15. L6 and L11 lumen packages only. Not available with EM batteries.
16. Also used in new construction sheetrock ceilings. Pan-less installation.
17. N and I Mounting Types only. I Mounting requires external brackets.
18. N Mounting Type only.
19. N Mounting Type only.

8DR dim to WARM
8″ Downlight – Round

FEATURES

- Mimic the comfortable, welcoming glow of incandescent with warm-dimming technology
- Beam angles ranging from 13° spot to 64° wide for tailored performance
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- New construction mounting pan, IC-rated, or pan-less remodel kit available
- Sloped adapter accommodates vaulted ceilings
- Easily adjust mounting arms below ceiling to adapt to a range of ceiling thicknesses
- Made Right Here® in the USA

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″ –3-11/16″. See Options for additional ceiling thicknesses.
- OPEN REFLECTOR – Painted aluminum with 1/2″ flange. White texture powder coat finish standard.
- LENSED TRIM – Spun aluminum lower trim with flush 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.
- 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.
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american
- WARRANTY – 5-year limited warranty, see hew.com/warranty

FIXTURE PERFORMANCE DATA

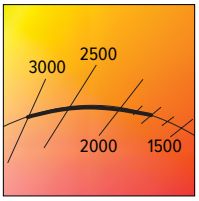
	CCT AT 100% (FULL OUTPUT)	CCT AT 1% (FULL DIM)	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L6	3000K	1800K	W	643	13.6	47
			M	637	13.6	47
			N	584	13.6	43
L11			W	1128	23.2	49
			M	1117	23.2	48
			N	1023	23.2	44
L18			W	1847	37.0	50
			M	1829	37.0	49
			N	1676	37.0	45

MULTIPLIER TABLES

REFLECTOR FINISH	
CATALOG NUMBER	CONVERSION FACTOR
CS	1.00
SG [1]	0.92
GD	0.93
CG	0.96
PW	0.86
SPC	1.02
RG	0.88
WH [1]	0.89
BL [1]	0.47

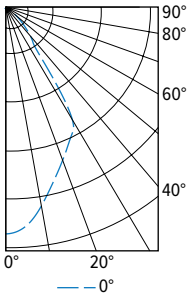
[1] Distribution will also be affected, consult factory.

- Photometrics tested in accordance with IESNA LM-79. Results based on O Trim Type, W Distribution and WH Reflector Finish, 95 CRI/3000K CCT, average 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.



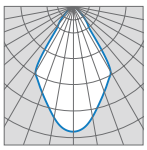
PHOTOMETRY

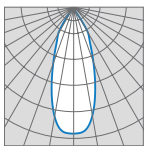
8DR-L18/9DW-OW-WH Total Luminaire Output: 1847 lumens; 37 Watts | Efficacy: 50 lm/W | 95 CRI; 3000K CCT

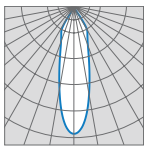


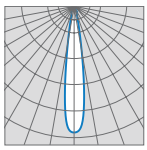
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
	0	1806	
	5	1817	171
	15	1657	466
	25	1433	642
	35	708	441
	45	111	102
	55	15	14
	65	8	8
	75	4	4
	85	1	1
	90	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1719	93
	0 - 60	1835	99
	0 - 90	1847	100
	0 - 180	1847	100


64° Wide


36° Medium


23° Narrow


13° Spot

REFLECTOR FINISH DETAILS

CS
Clear semi-specular

WH
White

BL
Black

8DR dim to WARM
8″ Downlight – Round

EMERGENCY BATTERY OPTIONS

ORDERING EXAMPLE: EM/7W/RTS	
EMERGENCY BATTERY	**TEST SWITCH**
EM/7W 7-watt emergency battery	**–** Standard
EM/10W 10-watt emergency battery	**/RTS** Regressed test switch [1]
	/IPRTS IP65 rated regressed test switch [2]

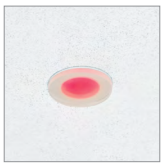
Additional limitations apply, see page 1. Specify CEC in the option code when California Energy Commission regulations are required. Max remote distance is 50′, connection by others.

1 Not available with WET/CC Trim Option.
2 Must specify WET/CC Trim Option.

TEST SWITCH DETAILS

Standard
2-3/4″ x 4-1/2″

Regressed
ø1-3/4″



IP-Rated
ø1-3/4″

APERTURE ADAPTOR ORDERING INFO

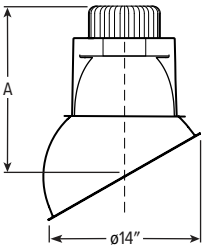
ORDERING EXAMPLE: 4DR - GR - 0575 - WHT			
SERIES	**CATALOG #**	**CEILING CUTOUT**	**FINISH**
4AR 6AR 8DR **4DR 6DR** **4DS 6DS** **4PR 6PR** **4PS 6PS**	**GR**	Specify ceiling cutout in 1/8″ increments. Example: 5.75″ = **0575** See Kit Components for application limits.	**CS** Clear semi-specular powder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

SLOPED CEILING ADAPTOR DETAILS



Ceiling cutout: ø14-3/8″

A (HEIGHT)						PLENUM HEIGHT
5°	10°	15°	20°	25°	30°	
13-5/16″	13-3/8″	13-5/16″	13-3/16″	13″	12-5/8″	13-3/4″

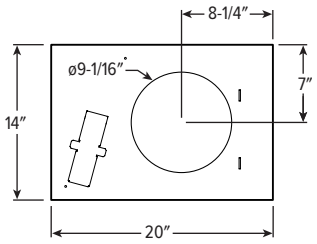
30° Shown

8DR dim to WARM
8″ Downlight – Round

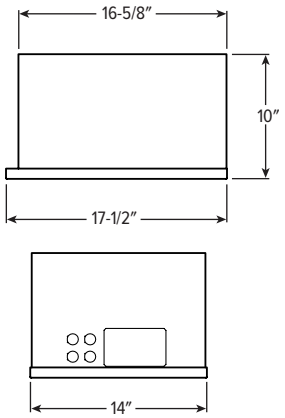
MOUNTING TYPE DETAILS

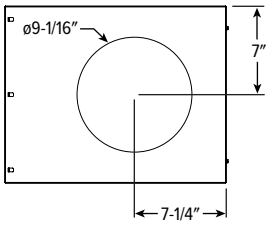
Flex conduit is recommended for installation. Ceiling cutout 9-1/16″ for all mounting types.

NEW CONSTRUCTION



IC-RATED

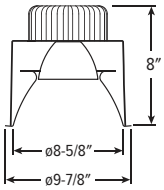




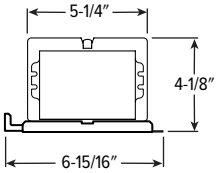
REMODEL

H.E. Williams Inc. strongly recommends installing a trial fixture to confirm fitment on-site prior to ordering full project quantities.

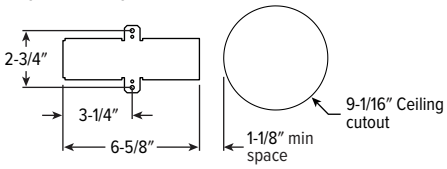
CROSS SECTION



DRIVER & JUNCTION BOX

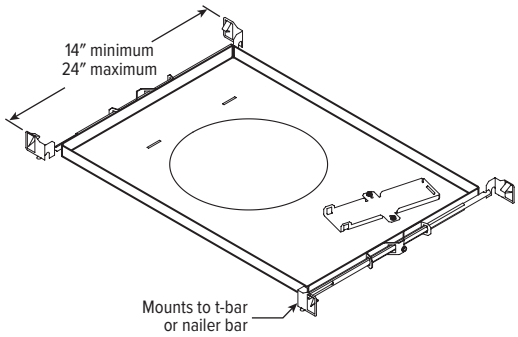


RECEIVER BRACKET

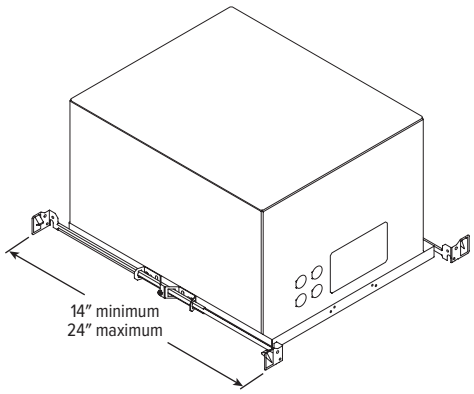


MOUNTING HARDWARE DETAILS

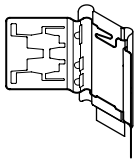
F1 Integral 2-position fixed pan bracket, universal bar hanger included



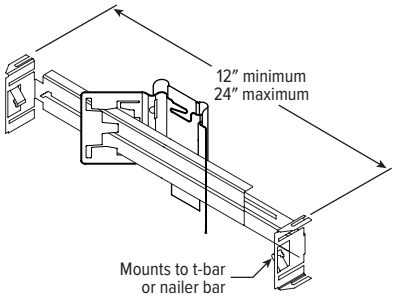
F1 with I Mounting Type



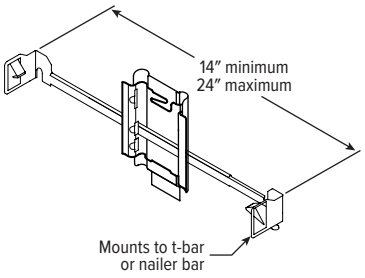
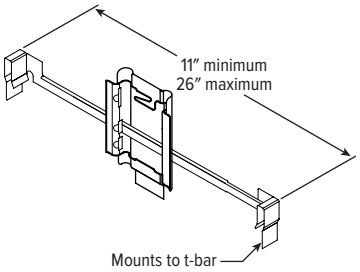
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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



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



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