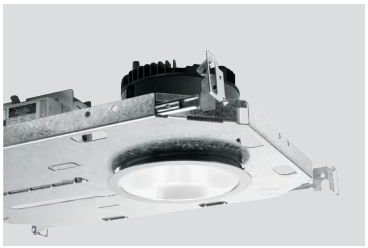
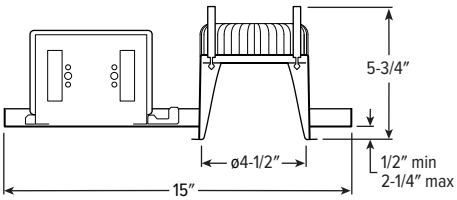
4DR dim to WARM
4.5″ Downlight – Round



NEW CONSTRUCTION AND REMODEL



CATALOG #:

TYPE:

PROJECT:

BAA & BABA COMPLIANT · CCEA Approved · IP65 Rated · WET/CC · ASTM-E283 · TrimLock®

ORDERING EXAMPLE: 4DR - TL - L24/9DW - OPTIONS - DIM1 - UNV - OW - OF - CS - TRIM OPTIONS - N - F1
(HOUSING: 4DR - TL - L24/9DW - OPTIONS - DIM1 - UNV | TRIM: OW - OF - CS - TRIM OPTIONS | MOUNT: N - F1)

HOUSING

SERIES
4DR - TL TrimLock

LUMENS [1]
L8 800lm
L15 1,500lm
L24 2,400lm

COLOR
9DW Dim to warm (95 CRI, 1800K – 3000K)

OPTIONS
See page 3 for EMERGENCY BATTERY OPTIONS.
See page 3 for APERTURE ADAPTOR ORDERING INFO.

SCA_ _ Sloped ceiling adapter [2]
ATH Airtight construction
F Fuse
CP Chicago plenum (CCEA) [3]
SDT Stepdown transformer [4]

CONTROL
DIM1 1% dimming driver (0-10V signal to control dimming and CCT)
LUT Lutron Ecosystem enabled [5]

VOLTAGE
UNV 120-277V
347 347V [6]

TRIM [7]

TRIM TYPE
O Open reflector
F Open reflector with frosted top diffuser
L Flush lens
R Regressed lens
A Angled lens [8]
S Non-conductive flush lens for shower applications [9]

DISTRIBUTION
See page 2 for BEAM ANGLE.
W Wide
M Medium
N Narrow
WW Wall wash [10]

FLANGE TYPE
OF 1/2″ standard flange
SF 1/4″ mud-in flange [11]

REFLECTOR FINISH
Open trim types
CS Clear semi-specular anodize
SG Satin-glow anodize
GD Gold anodize
CG Champagne gold anodize
PW Pewter anodize
SPC Clear specular anodize
RG Rose gold anodize
WH White texture powder coat
BL Black texture powder coat

Lens trim types
CS Clear semi-specular powder coat
WH White texture powder coat
BL Black texture powder coat

TRIM OPTIONS
MWT Smooth matte white trim flange [12]
IP IP65 rated trim [13]
AD Diffuse acrylic lens [14]
PD Diffuse 1/8″ polycarbonate lens [15]
WET/CC Wet location, covered ceiling listed
AM Anti-microbial [16]

MOUNTING

MOUNTING TYPE [17]
N Open pan for new construction
I IC-rated enclosure for new construction [19]
R Remodel kit [20]

MOUNTING HARDWARE [18]
F1 Integral 2-position fixed pan bracket, universal bar hanger included [21]
BA1 Adjustable butterfly pan bracket, bar hanger not included [22]
CA1 Adjustable caterpillar pan bracket, universal bar hanger included [23]

NOTES
1. Lumen output based on full light output, O Trim Type, W Distribution and CS Reflector Finish, 95 CRI/3000K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
2. 9″ 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 3 for SLOPED CEILING ADAPTOR DETAILS.
3. I Mounting Type required.
4. May be required for 347V, see product builder at hew.com/product-builder.
5. Not available with I Mounting Type.
6. Not available with EM batteries.
7. Trim ships separately.
8. Available with WW Distribution only.
9. W Distribution, OF Flange Type, WH Reflector Finish only. Standard with AD diffuse acrylic lens. IP and WET/CC Options standard.
10. O and A Trim Types only.
11. 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, IP, or MWT Options.
12. Not available with WH Reflector Finish, L or S Trim Types.
13. L and R Trim Types only.
14. Not available with O or F Trim Types. W and WW Distributions only.
15. Not available with O or F Trim Types. W and WW Distributions only.
16. Not available with S Trim Type. WH and BL Reflector Finishes only.
17. Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 5 for MOUNTING TYPE DETAILS.
18. Additional mounting hardware options available. SEE PAGE 5 FOR MOUNTING HARDWARE DETAILS.
19. L8 and L15 lumen packages only. Not available with EM batteries.
20. Also used in new construction sheetrock ceilings. Pan-less installation.
21. N and I Mounting Types only. I Mounting requires external brackets.
22. N Mounting Type only.
23. N Mounting Type only.

4DR dim to WARM
4.5″ Downlight – Round

FEATURES

- Innovative TrimLock reflector retention system ensures trim remains flush with ceiling plane
- Mimic the comfortable, welcoming glow of incandescent with warm-dimming technology
- 4 inch aperture is unobtrusive in small scale spaces
- Die-cast trim choices include flush, regressed or angled lens
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Fully room-side accessible
- New construction mounting pan, IC-rated, or pan-less remodel kit available
- Sloped adapter accommodates vaulted ceilings
- Open reflector with nine finishes complements any interior
- Optional non-conductive lens for shower applications
- IP65-rated die-cast trim includes easy-to-clean flush lens
- Made Right Here® in the USA

SPECIFICATIONS

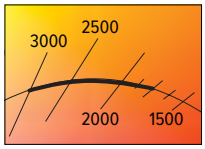
- HOUSING – Die-cast aluminum trim housing with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Swing-out mounting arms field adjust for ceiling thickness from 1/2″ – 2-1/4″.
- TRIMLOCK – Innovative TrimLock reflector retention system ensures the trim remains flush with the ceiling plane.
- OPEN REFLECTOR – Low-iridescent anodized aluminum. Clear semi-specular finish standard.
- LENSED TRIM – Die-cast aluminum frame with micro-prismatic, 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.
- 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.
  - 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)	DIST.	WATTAGE	OPEN REFLECTOR DELIVERED LUMENS	OPEN REFLECTOR EFFICACY (lm/W)	FLUSH LENS DELIVERED LUMENS	FLUSH LENS EFFICACY (lm/W)	REGRESSED LENS DELIVERED LUMENS	REGRESSED LENS EFFICACY (lm/W)
L8	3000K	1800K	W	14.0	862	62	670	48	678	48
			M	14.0	830	59	760	54	763	55
			N	14.0	800	57	765	55	769	55
L15			W	23.4	1511	65	1175	50	1188	51
			M	23.4	1455	62	1333	57	1337	57
			N	23.4	1402	60	1242	53	1348	58
L24			W	37.7	2228	59	1925	51	1945	52
			M	37.7	2226	59	1995	53	1997	53
			N	37.7	2228	59	2197	58	2208	59

[1] Distribution will also be affected, consult factory.
[2] Beam angle based on CS or WH Reflector Finish.

- Photometrics tested in accordance with IESNA LM-79. Results based on full light output, O Trim Type, W Distribution and CS 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 table to calculate additional options.



MULTIPLIER TABLES

	REFLECTOR FINISH CATALOG NUMBER	CONVERSION FACTOR
O TRIM	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
R TRIM	WH	1.00
	CS	0.98
	BL	0.79

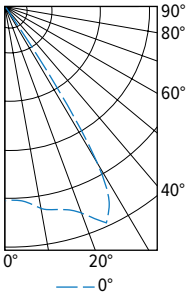
TRIM OPTIONS CATALOG NUMBER	CONVERSION FACTOR
F	0.75
S	0.85
AD	0.85
PD	0.85
WET/CC	0.85

BEAM ANGLE

	TRIM TYPE [2] O	F	L	R
W	65°	60°	50°	50°
M	45°	50°	35°	30°
N	10°	25°	25°	25°

PHOTOMETRY

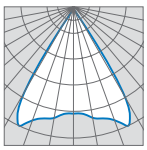
4DR-TL-L24/9DW-DIM1-UNV-OW-OF-CS Total Luminaire Output: 2228 lumens; 37.7 Watts | Efficacy: 59 lm/W | 95.0 CRI; 3000K CCT

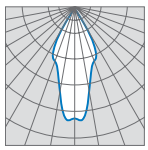


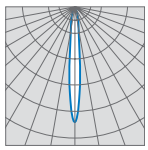
CANDLEPOWER DISTRIBUTION VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	2011	
5	2071	198
15	2178	617
25	2479	1147
35	341	215
45	49	38
55	12	11
65	1	1
75	0	0
85	0	0
90	0	

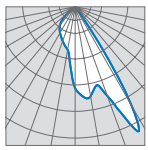
LUMEN SUMMARY ZONE	LUMENS	% FIXTURE
0 - 40	2176	98
0 - 60	2226	100
0 - 90	2228	100
0-180	2228	100

OPEN (O)

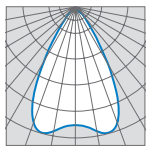

65° Wide

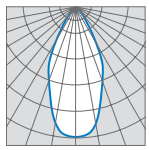

45° Medium

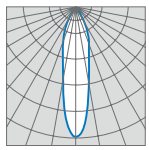

10° Narrow


Wall Wash

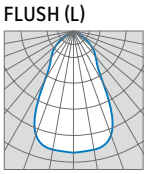
OPEN TOP DIFFUSER (F)

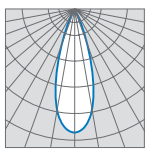

60° Wide

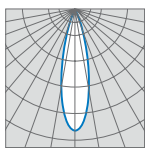

50° Medium


25° Narrow

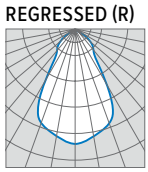
FLUSH (L)

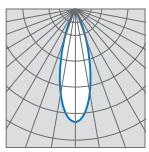

50° Wide

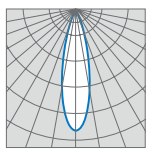

35° Medium


25° Narrow

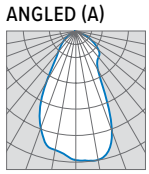
REGRESSED (R)


50° Wide


30° Medium


25° Narrow

ANGLED (A)


Wall Wash

4DR dim to WARM
4.5″ Downlight – Round

EMERGENCY BATTERY OPTIONS

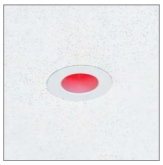
ORDERING EXAMPLE: EM/7W/RTS	
EMERGENCY BATTERY	TEST SWITCH
EM/7W 7-watt emergency battery **EM/10W** 10-watt emergency battery [1]	**–** Standard [2] **/RTS** Regressed test switch [3] **/IPRTS** IP65 rated regressed test switch [4] **/ITS** Integral test switch [5]

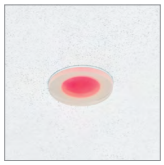
Additional limitations apply, see page 1. Specify CEC in the option code when California Energy Commission regulations are required. Max remote distance is 50′, connection by others.

1 Not available with L10 lumen package.
2 Not available with S Trim Type or IP Trim Option.
3 Not available with S Trim Type, IP or WET/CC Trim Options.
4 Must specify IP or WET/CC Trim Options.
5 O and F Trim Types only. N Mounting Type and OF Flange Type only. Top access required. Not available with WW Distribution, WET/CC Trim Option, ATH, CP or SCA Options. 3/8″ to 1-1/4" ceiling thickness only.

TEST SWITCH DETAILS

Standard
2-3/4″ x 4-1/2″


Regressed
ø1-3/4″


IP-Rated
ø1-3/4″

Integral
ø3/4″

APERTURE ADAPTOR ORDERING INFO

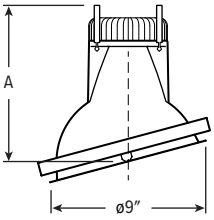
ORDERING EXAMPLE: 4DR - GR - 0575 - WHT			
SERIES	CATALOG #	CEILING CUTOUT	FINISH
4AR **6AR** **8DR** **4DR** **6DR** **4DS** **6DS** **4PR** **6PR** **4PS** **6PS**	**GR**	Specify ceiling cutout in 1/8″ increments. Example: 5.75″ = **0575** See Kit Components for application limits.	**CS** Clear semi-specular 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: ø9-3/8″

A (HEIGHT)						PLENUM HEIGHT
5°	10°	15°	20°	25°	30°	
8-13/16″	8-15/16″	9″	8-15/16″	8-7/8″	8-11/16″	9-1/4″

15° Shown

TRIMLOCK INSTALLATION DETAILS

TWIST

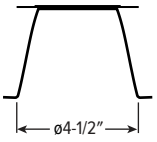
PULL

RELEASE

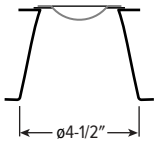
4DR dim to WARM
4.5″ Downlight – Round

TRIM TYPE DETAILS

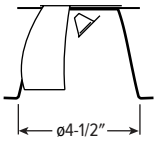
OPEN



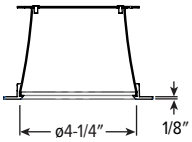
OPEN TOP DIFFUSER



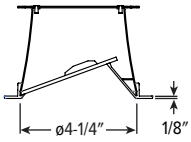
OPEN (WALL WASH)



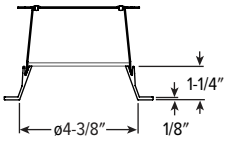
FLUSH | SHOWER



ANGLED

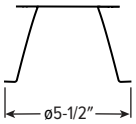


REGRESSED



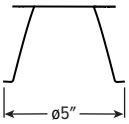
FLANGE TYPE DETAILS

1/2″ STANDARD



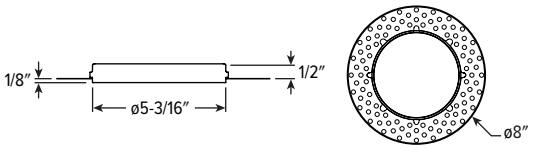
Ceiling Cutout: ø5″

1/4″ MUD-IN



Ceiling cutout: ø5-1/2″

MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)



REFLECTOR FINISH DETAILS

SPC	SG	PW	GD	CG	RG	CS	WH	BL
Clear specular	Satin glow	Pewter	Gold	Champagne gold	Rose gold	Clear semi-specular	White	Black

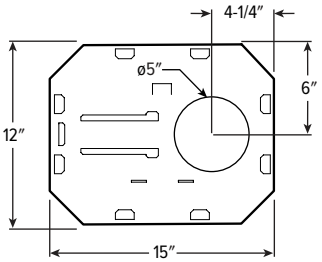
SEE NEXT PAGE FOR MOUNTING DETAILS

4DR dim to WARM
4.5″ Downlight – Round

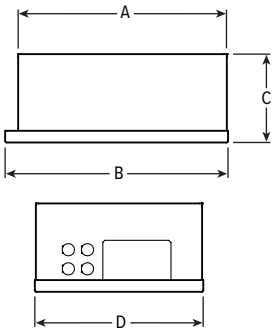
MOUNTING TYPE DETAILS

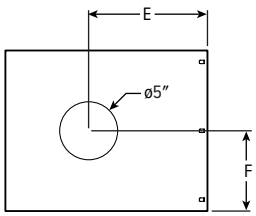
Flex conduit is recommended for installation.

NEW CONSTRUCTION



IC-RATED



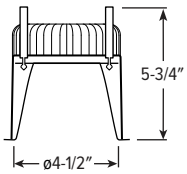


	LENGTH					
LUMENS	A	B	C	D	E	F
L8	15-3/16″	16″	6-3/8″	12-1/8″	9-1/2″	6-1/16″
L15	16-5/8″	17-1/2″	7-7/8″	14″	10-1/4″	7″

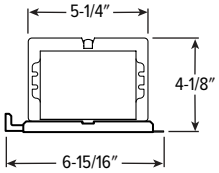
REMODEL

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

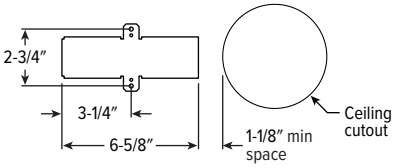
CROSS SECTION



DRIVER & JUNCTION BOX

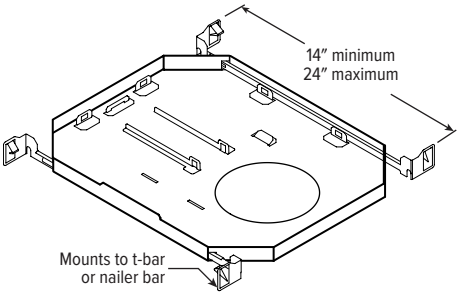


RECEIVER BRACKET

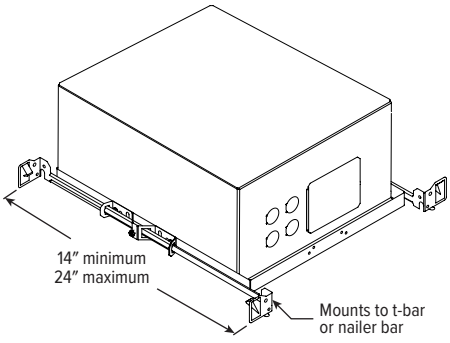


MOUNTING HARDWARE DETAILS

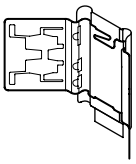
F1 Integral 2-position fixed pan bracket, universal bar hanger included



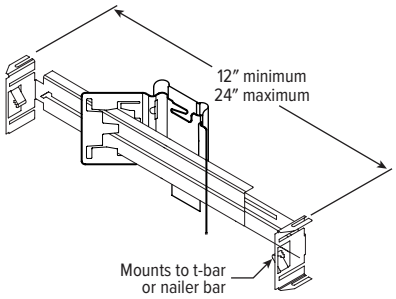
F1 with I Mounting Type



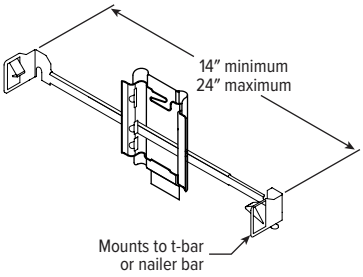
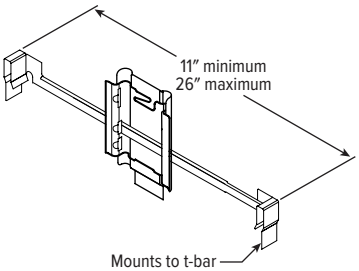
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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)