4AR tunable WHITE
4.5" Adjustable Downlight – Round

Williams®

5-3/8"

ø4-1/2"   1/2" min 7/8" max

17-1/2"

CATALOG #: _____

TYPE: _____

PROJECT: _____

BUY AMERICAN ACT COMPLIANT

NEW CONSTRUCTION AND REMODEL

ORDERING EXAMPLE: 4AR - L11/8TW - OPTIONS - DIM - UNV - OW - OF - CS - TRIM OPTIONS - N - F1

⎣———————— HOUSING ————————⎦ ⎣———— TRIM ————⎦ ⎣MOUNT.⎦

HOUSING

SERIES	LUMENS [1]	COLOR	OPTIONS	CONTROL	VOLTAGE
4AR	**L11** 1,100lm **L16** 1,600lm	**8TW** Tunable white (80 CRI, 2700K-5000K)	*See page 3 for EMERGENCY BATTERY OPTIONS.* **ATH** Airtight construction [2] **CP** Chicago plenum (CCEA) [3] **F** Fuse kit	*See page 4 for CONTROL DETAILS.* **DALI** Driver prewired for DALI applications **DIM** Dimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT **DMX** Driver prewired for DMX applications **PSQ** Lutron T-Series 2-channel tunable white 1%. [4]	**UNV** 120-277V

TRIM [5]

TRIM TYPE	DISTRIBUTION [6]	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS

O Open reflector
L Flush lens
A Angled lens
	W Wide
	  45° Open
	  40° Flush
	  30° Angled
	M Medium
	  30° Open
	  30° Flush
	  25° Angled
	N Narrow [7]
	  25° Flush
	  25° Angled
		OF 1/2" standard flange
		SF 1/4" mud-in flange [8]
			Open trim types
			CS Clear semi-specular 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
				MWT Textured white trim flange [9]
				AD Diffuse acrylic lens [10]
				PD Diffuse 1/8" polycarbonate lens [11]
				WET/CC Wet location, covered ceiling listed [12]
				AM Anti-microbial [13]

MOUNTING

MOUNTING TYPE [14]	MOUNTING HARDWARE [15]
N Open pan for new construction **I** IC-rated enclosure for new construction [16] **R** Remodel kit [17]	**F1** Factory-installed 2-position fixed pan bracket, universal bar hanger included [18] **BA1** Adjustable butterfly pan bracket, bar hanger not included [19] **CA1** Adjustable caterpillar pan bracket, universal bar hanger included [20]

NOTES

1 Lumen output based on O trim type, M distribution and CS finish, 4000K/80CRI. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
2 I Mounting Type required.
3 I Mounting Type required.
4 Not available with I Mounting Type.
5 Trim ships separately.
6 Beam angle based on CS or WH reflector finish.
7 L and A Trim Types only.
8 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 option.
9 Not available with WH Reflector Finish or L Trim Type.
10 L and A Trim Types only. W distribution only.
11 L and A Trim Types only. W distribution only.
12 L and A Trim Types only. Not available with PD trim option.
13 WH and BL Reflector Finishes only.
14 Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
15 Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
16 Not available with EM batteries.
17 Also used in new construction sheet rock ceilings. Pan-less installation.
18 N and I Mounting Types only. Universal bar hanger ships uninstalled. I Mounting requires external brackets.
19 N Mounting Type only.
20 N Mounting Type only.

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Downlights
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FEATURES

- Support human-centric design with adaptive, individualized lighting using tunable white light
- Adjustable aim with 0° - 45° tilt and 360° rotation
- Beam angles ranging from 25° narrow to 45° wide for tailored performance
- 4 inch aperture is unobtrusive in small scale spaces
- New construction mounting pan, IC-rated, or pan-less remodel kit available
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Choice of open reflector or die-cast lensed trims to complement interior style
- Etched degree markers and directional indicator make it simple to fine-tune the illumination angle
- Spring clip retention system eliminates trim sag
- Fully room-side accessible

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 micro-prismatic, acrylic lens.
- ELECTRICAL – High-performance Class 2 LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>50,000 hours. Tunable White products use LEDs of multiple CCTs and may produce a perceptibly different shade of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- 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.

- 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.
  - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- WARRANTY – 5-year limited warranty, see hew.com/warranty.

FIXTURE PERFORMANCE DATA

OPEN REFLECTOR TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L11	W	713	14.6	49
	M	990	14.6	68
	N	–	–	–
L16	W	1231	24.0	51
	M	1652	24.0	69
	N	–	–	–

FLUSH LENS TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L11	W	710	14.6	49
	M	960	14.6	66
	N	965	14.6	66
L16	W	1266	24.0	53
	M	1650	24.0	69
	N	1643	24.0	69

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25ºC ambient temperature.
- Wattage shown is based on 120V input.
- Results based on 4000K, 80 CRI, 0° tilt, actual lumens may vary +/-5%
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

ANGLED LENS TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L11	W	506	14.6	35
	M	741	14.6	51
	N	900	14.6	62
L16	W	923	24.0	39
	M	1261	24.0	53
	N	1416	24.0	59

MULTIPLIER TABLES

COLOR TEMPERATURE

CCT	LUMENS	WATTS
2700K	0.83	1.03
3000K	1.00	1.00
3500K	0.99	0.99
4000K	1.00	1.00
5000K	0.98	1.03

OPEN REFLECTOR FINISH

CATALOG NUMBER	CONVERSION FACTOR
CS	1.00
WH	0.89
BL	0.79

TRIM

CATALOG NUMBER	CONVERSION FACTOR
AD [1]	0.85
PD [1]	0.85

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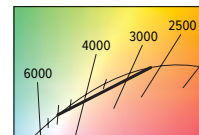
PHOTOMETRY

4AR-L11/8TW-DIM-UNV-OW-OF-CS (25° tilt) Total Luminaire Output: 778 lumens; 14.6 Watts | Efficacy: 53.3 lm/W | 80 CRI; 4037K CCT
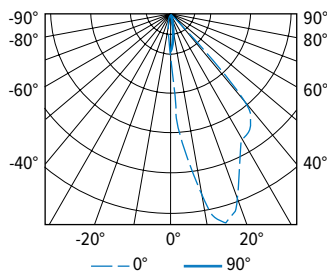
VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
	0º	45º	90º	135º	180º	
0	452	452	452	452	452	
5	1372	962	375	155	112	56
15	2482	1356	145	35	23	183
25	1869	1235	37	10	8	244
35	1618	569	7	4	6	229
45	334	17	3	2	2	64
55	3	0	0	0	2	1
65	1	0	0	0	0	0
75	0	0	0	0	0	0
85	0	0	0	0	0	0
90	0	0	0	0	0	

ZONE	LUMENS	% FIXTURE
0 - 40	483	62
0 - 60	712	91
0 - 90	778	100
0 - 180	778	100

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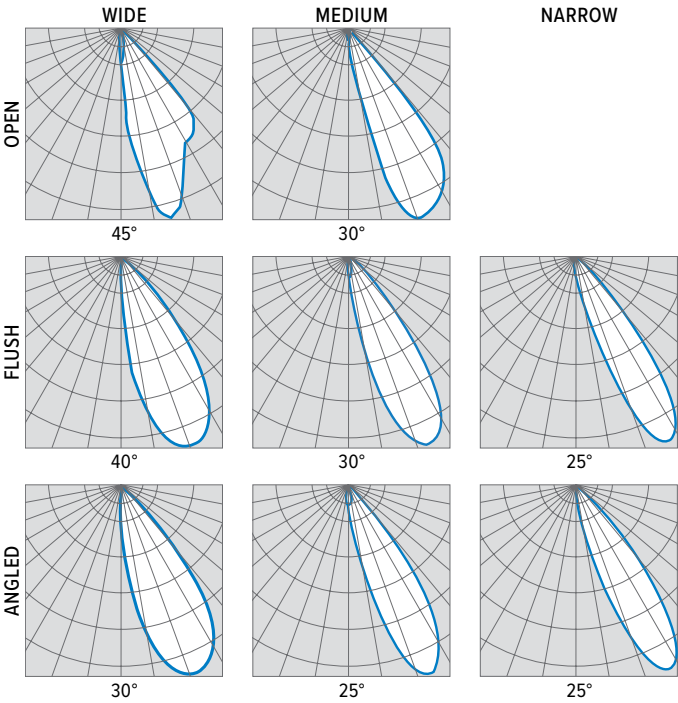Information contained herein is subject to change without notice.
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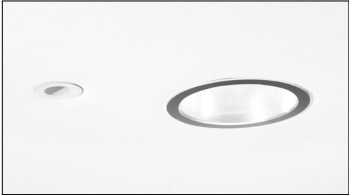|	WIDE	MEDIUM	NARROW
OPEN	45°	30°	
FLUSH	40°	30°	25°
ANGLED	30°	25°	25°

EMERGENCY BATTERY OPTIONS

Additional limitations apply, see page 1. Specify CEC in the option code when California Energy Commission regulations are required.
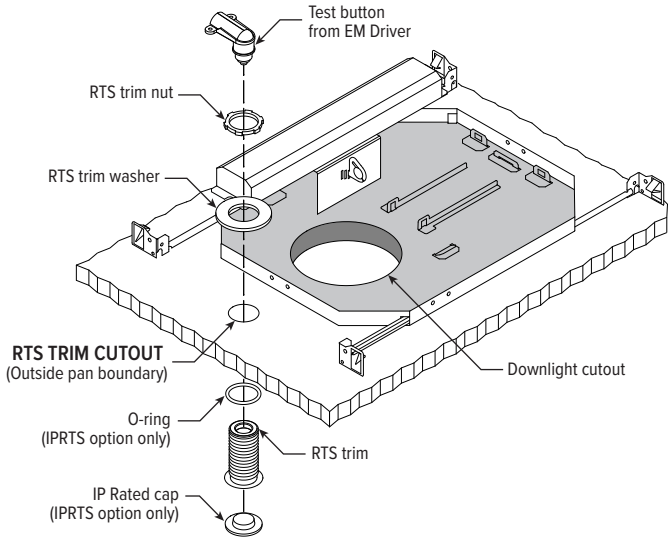
CATALOG NUMBER	DESCRIPTION
EM/7W	7-watt emergency battery
EM/7W/RTS	7-watt emergency battery with regressed test switch [1]
EM/7W/IPRTS	7-watt emergency battery with IP65 rated regressed test switch
EM/10W	10-watt emergency battery
EM/10W/RTS	10-watt emergency battery with regressed test switch [1]
EM/10W/IPRTS	10-watt emergency battery with IP65 rated regressed test switch

[1] Not available with WET/CC Option.
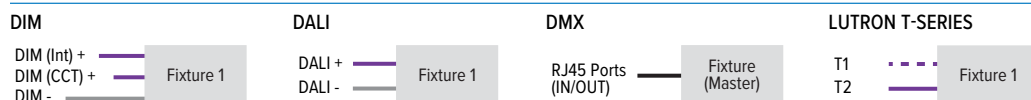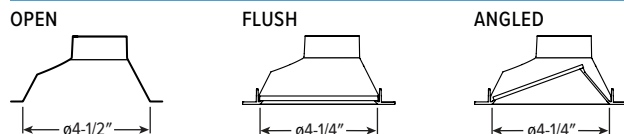
REGRESSED TEST SWITCH DETAILS

Shown Installed

Test button
from EM Driver

RTS trim nut

RTS trim washer

RTS TRIM CUTOUT
(Outside pan boundary)

O-ring
(IPRTS option only)

RTS trim

IP Rated cap
(IPRTS option only)

Downlight cutout

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4.5" Adjustable Downlight – Round

CONTROL DETAILS

DIM
DIM (Int) +
DIM (CCT) +
DIM -
Fixture 1

DALI
DALI +
DALI -
Fixture 1

DMX
RJ45 Ports (IN/OUT)
Fixture (Master)

LUTRON T-SERIES
T1
T2
Fixture 1

TRIM TYPE DETAILS

OPEN
ø4-1/2"

FLUSH
ø4-1/4"

ANGLED
ø4-1/4"

FLANGE TYPE DETAILS

1/2" STANDARD
ø5-1/2"
Ceiling Cutout: ø5"

1/4" MUD-IN
ø5"
Ceiling cutout: ø5-1/2"

MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)
1/8"
ø5-3/16"
1/2"
ø8"
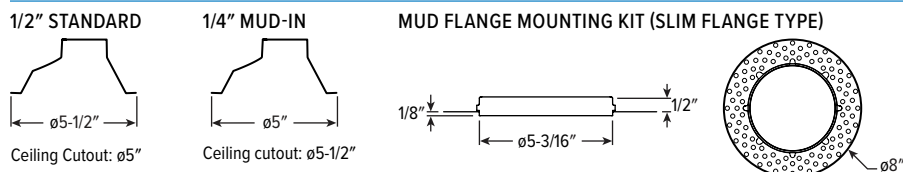
REFLECTOR FINISH DETAILS

CS
Clear semi-specular

WH
White

BL
Black

MOUNTING TYPE DETAILS

NEW CONSTRUCTION
6"
ø5"
12"
6"
17-1/2"

IC-RATED
15-3/16"
6-3/8"
16"
12-1/8"

9-1/2"
ø5"
6-1/16"

REMODEL
Cross Section
5-3/8"
ø4-1/2"

Receiver Bracket
2-3/4"
3-1/4"
6-5/8"
3-1/4" min space
Ceiling cutout

Driver and Junction Box
5-1/4"
4-1/8"
6-15/16"

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4AR
tunable WHITE
4.5" Adjustable Downlight – Round

APERTURE ADAPTOR ORDERING INFO

ORDERING EXAMPLE: 4DR - GR - 0575 - WHT			
SERIES	CATALOG NUMBER	CEILING CUTOUT	FINISH
4AR **6AR** **4DR** **6DR** **4DS** **6DS** **4PR** **6PR** **4PS** **6PS** **8DR**	**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

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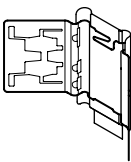For limitations and instructions, see hew.com/aperture-adaptor.pdf

MOUNTING HARDWARE DETAILS

F1 Factory-installed 2-position fixed pan bracket, universal bar hanger included, ships uninstalled
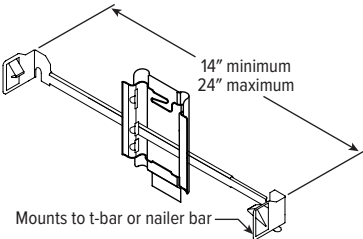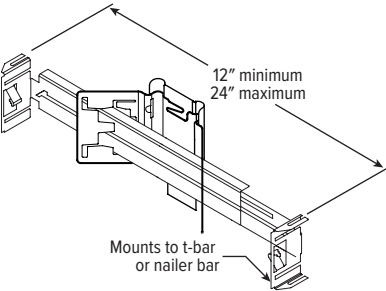

14" minimum
24" maximum

Mounts to t-bar or nailer bar

14" minimum
24" maximum

Mounts to t-bar or nailer bar
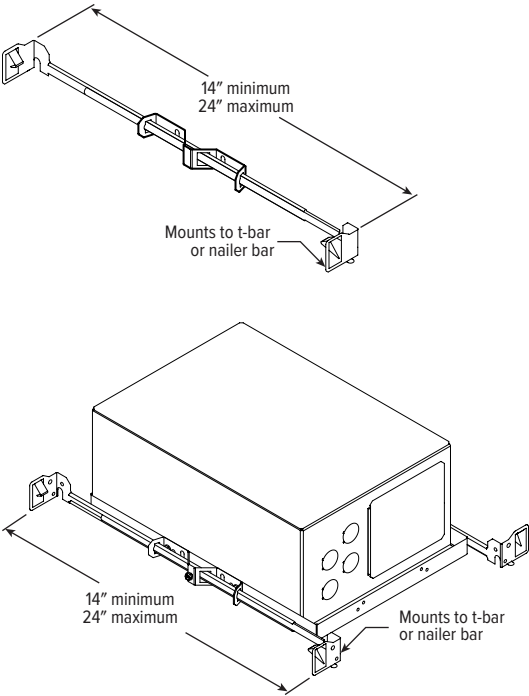
F1 with I Mounting Type

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)

12" minimum
24" maximum

Mounts to t-bar or nailer bar

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

14" minimum
24" maximum

Mounts to t-bar or nailer bar

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

11" minimum
26" maximum

Mounts to t-bar

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