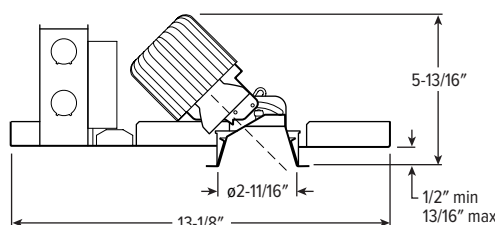
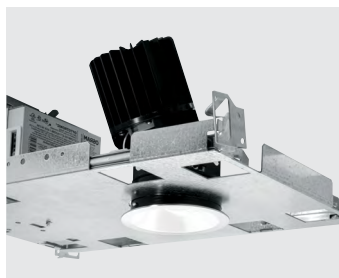


2AR dim to **WARM** 2" Adjustable Downlight – Round



CATALOG #: _____

TYPE: _____

PROJECT: _____

NEW CONSTRUCTION AND REMODEL



ORDERING EXAMPLE: **2AR - L7/9DW - OPTIONS - DIM1 - UNV - OW - OF - CS - TRIM OPTIONS - N - F1**

HOUSING TRIM MOUNT.

HOUSING

SERIES	LUMENS ^[1]	COLOR	OPTIONS	CONTROL	VOLTAGE
2AR	L5 500lm L7 700lm	9DW Dim to warm (95 CRI, 1800K – 3000K)	See page 4 for EMERGENCY BATTERY OPTIONS . ATH Airtight construction ^[2] 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 ^[5]	UNV 120-277V 347 347V ^[6]

TRIM ^[7]

TRIM TYPE	DISTRIBUTION	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
O Open reflector L Flush lens R Regressed lens A Angled lens	See page 2 for BEAM ANGLE . W Wide M Medium N Narrow ^[8]	OF 1/2" standard flange ZF Zero-flange mud-in ^[9]	CS Clear semi-specular anodize WH White texture powder coat BL Black texture powder coat	MWT Smooth matte white trim flange ^[10] AD Diffuse acrylic lens ^[11] PD Diffuse 1/8" polycarbonate lens ^[12] WET/CC Wet location, covered ceiling listed ^[13] AM Anti-microbial ^[14]

MOUNTING

MOUNTING TYPE ^[15]	MOUNTING HARDWARE ^[16]
N Open pan for new construction ^[17] I IC-rated enclosure for new construction ^[18] R Remodel kit ^[19]	F1 Integral 2-position fixed pan bracket, universal bar hanger included ^[20] BA1 Adjustable butterfly pan bracket, bar hanger not included ^[21] CA1 Adjustable caterpillar pan bracket, universal bar hanger included ^[22]

NOTES

- ¹ Lumen output based on 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 I Mounting Type required.
- ³ I Mounting Type required.
- ⁴ Not available with R Mounting. May be required for 347V, see product builder at hew.com/product-builder
- ⁵ N Mounting Type only, top access required.
- ⁶ Not available with EM batteries or DMX Driver.
- ⁷ Trim ships separately.
- ⁸ L5 lumen package max.
- ⁹ For use with mud-in plaster construction only, supplied with mud flange installation kit. See page 3 for TRIM TYPE DETAILS. Not available with O Trim Type, ATH, or WET/CC options.
- ¹⁰ Not available with L Trim Type, ZF Flange Type or WH Reflector Finish.
- ¹¹ W distribution only. Not available with O Trim Type.
- ¹² W Distribution only. Not available with O Trim Type.
- ¹³ Not available with O Trim Type or ZF Flange Type.
- ¹⁴ WH and BL Reflector Finishes only.
- ¹⁵ Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- ¹⁶ Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
- ¹⁷ Top access required.
- ¹⁸ L5 lumen package max. Top access required. Not available with EM batteries.
- ¹⁹ Also used in new construction sheetrock ceilings. Pan-less installation. Not available when specified with LUT Control. Additional plenum space required for R mounting when specified with EM battery. See page 4 for REMODEL MOUNTING PLENUM RESTRICTIONS.
- ²⁰ N and I Mounting Types only. I Mounting requires external brackets.
- ²¹ N Mounting Type only.
- ²² N Mounting Type only.



2AR dim to WARM

2" Adjustable Downlight – Round

FEATURES

- Mimic the comfortable, welcoming glow of incandescent with warm-dimming technology
- Beam angles ranging from 20° narrow to 35° wide for tailored performance
- Adjustable aim with 0° - 45° tilt and 360° rotation
- 2" aperture is unobtrusive in small scale spaces
- Zero-flange trim options for modern ceiling
- New construction mounting pan, IC-rated, or pan-less remodel kit available
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Etched degree markers and directional indicator make it simple to fine-tune the illumination angle
- Die-cast trim choices include flush, regressed or angled lens
- Made Right Here® in the USA

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" – 13/16".
- OPEN REFLECTOR** – Low-iridescent anodized aluminum. Clear semi-specular finish standard.
- LENSED TRIM** – Die-cast aluminum frame with micro-prismatic, acrylic lens. Diffuse acrylic lens standard with A Trim Type.
- 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 > 44,000 hours. Reported L90 = 28,000 hours. Estimated L70 = 117,000 hours.
- MOUNTING** – Recessed. 20 ga. galvanized steel mounting pan for new construction or IC-rated enclosure. N and R mounting types for use in non-fire rated installations only. Minimum 17" O.C. marked spacing required when specified with R Mounting Type.

- LISTINGS** –
 - cSAsus 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/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	WATTAGE	OPEN REFLECTOR TRIM TYPE		FLUSH LENS TRIM TYPE		REGRESSED LENS TRIM TYPE		ANGLED LENS TRIM TYPE	
					DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
L5	3000K	1800K	W	15.1	570	38	476	32	463	31	378	25
			M	15.1	444	29	345	23	332	22	221	15
			N	15.1	460	30	402	27	395	26	294	20
			W	23.8	826	35	690	29	671	28	548	23
L7	3000K	1800K	M	23.8	671	28	521	22	502	21	334	14
			N	–	–	–	–	–	–	–	–	–

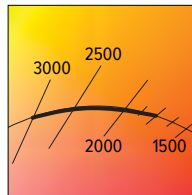
MULTIPLIER TABLES

REFLECTOR FINISH	
CATALOG NUMBER	CONVERSION FACTOR
CS	1.00
WH	0.89
BL	0.47

TRIM OPTIONS	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85

BEAM ANGLE

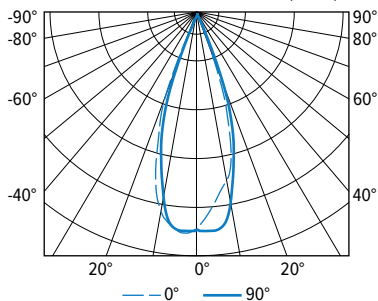
	TRIM TYPE			
	O	L	R	A
W	35°	40°	40°	35°
M	30°	30°	30°	35°
N	20°	20°	20°	25°



- Photometrics tested in accordance with IESNA LM-79. Results based on O trim type, W distribution, CS finish, 95 CRI/3000K CCT, average wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/-5%
- Beam angle based on O Trim Type and CS Finish.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

PHOTOMETRY

2AR-L7-9DW-DIM1-UNV-OW-OF-CS (0° tilt) Total Luminaire Output: 826 lumens; 23.8 Watts | Efficacy: 35 lm/W | 95 CRI; 3000K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
	0°	45°	90°	135°	180°	
0	2418	2418	2418	2418	2418	
5	2473	2381	2341	2313	2343	213
15	1359	1313	1351	1377	1402	388
25	465	408	442	434	435	205
35	17	17	19	18	19	14
45	3	3	6	5	5	4
55	1	1	2	2	2	2
65	1	0	0	1	1	1
75	0	0	0	0	0	0
85	0	0	0	0	0	0
90	0	0	0	0	0	0

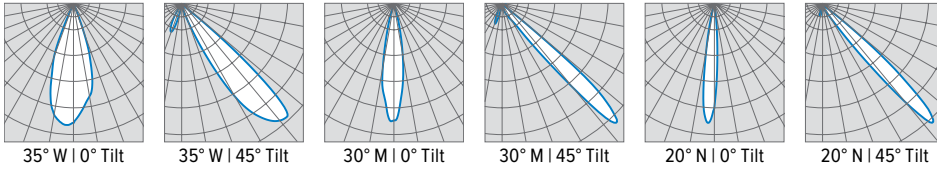
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	806	96
	0 - 40	819	99
	0 - 60	825	100
	0 - 90	826	100
	0 - 180	826	100

PHOTOMETRY CONTINUED ON NEXT PAGE

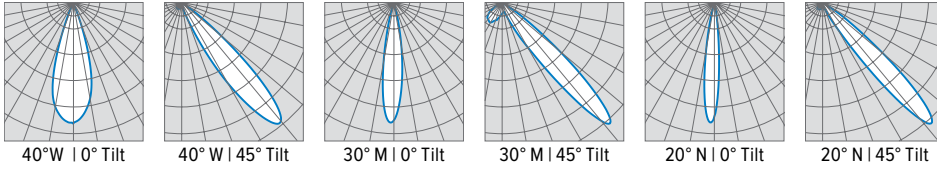
2AR dim to WARM

2" Adjustable Downlight – Round

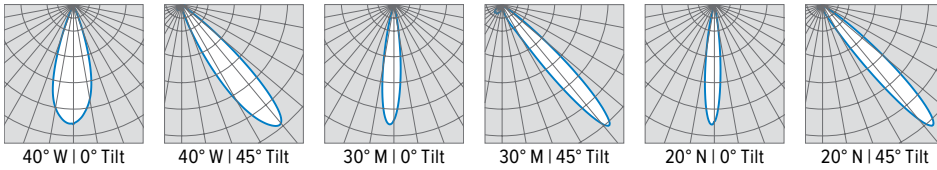
OPEN (O)



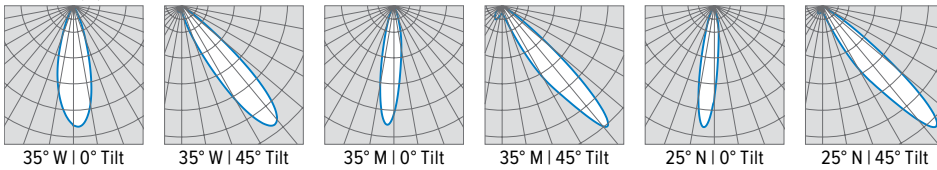
FLUSH (L)



REGRESSED (R)

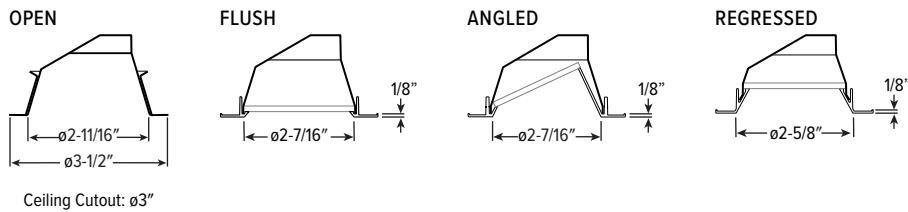


ANGLED (A)

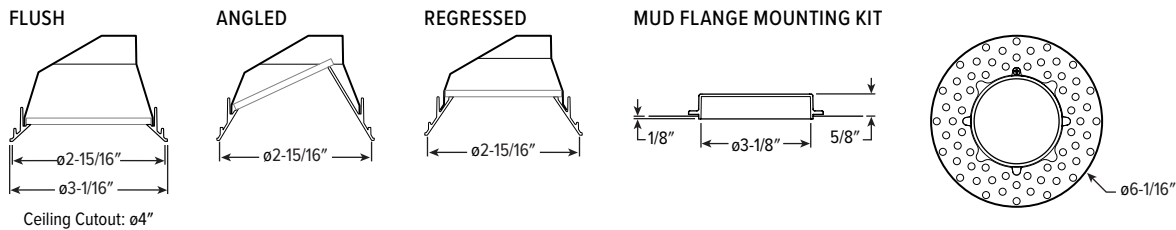


TRIM TYPE DETAILS

1/2" STANDARD FLANGE TYPE



ZERO-FLANGE MUD-IN



2AR dim to **WARM** 2" Adjustable Downlight – Round

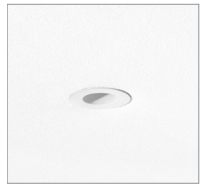
EMERGENCY BATTERY OPTIONS

Additional limitations apply, see page 1. Specify CEC in the option code when California Energy Commission regulations are required.

CATALOG NUMBER	DESCRIPTION
EM/5W	5-watt emergency battery
EM/7W	7-watt emergency battery
EM/7W/RTS	7-watt emergency battery with regressed test switch ⁽¹⁾
EM/10W	10-watt emergency battery
EM/10W/RTS	10-watt emergency battery with regressed test switch ⁽¹⁾

¹ Not available with WET/CC Trim Option. N Mounting Type only. Top access required.

MOUNTING DETAILS

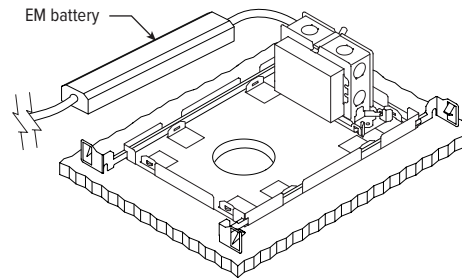
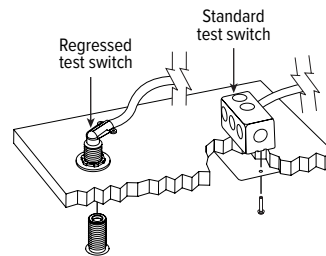


Regressed test switch
ø1-3/4"



Standard test switch
2-3/4" x 4-1/2"

Max remote distance is 50',
connection by others.



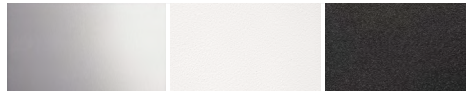
REMODEL MOUNTING PLENUM RESTRICTIONS

Additional plenum space required for R mounting when specified with EM battery.

CATALOG NUMBER	MINIMUM HEIGHT
EM/5W	9"
EM/7W	11"
EM/10W	12"

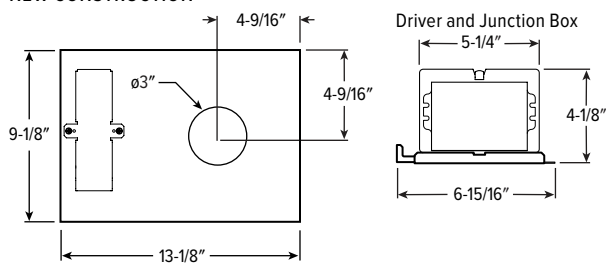
REFLECTOR FINISH DETAILS

CS Clear semi-specular
WH White
BL Black

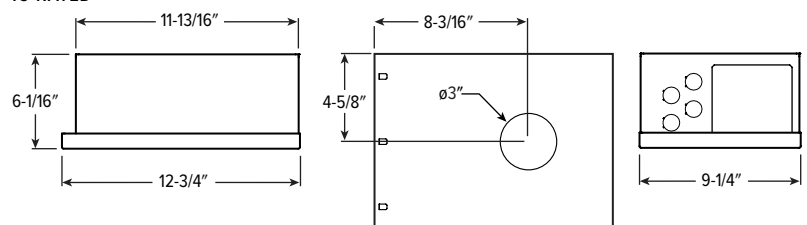


MOUNTING TYPE DETAILS

NEW CONSTRUCTION

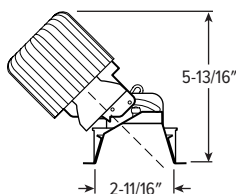


IC-RATED

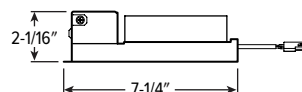


REMODEL

Cross Section



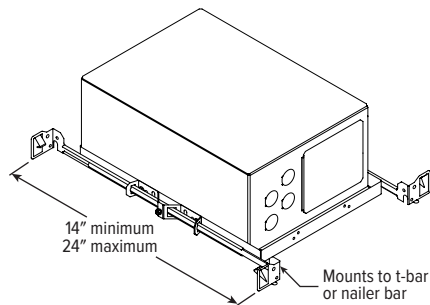
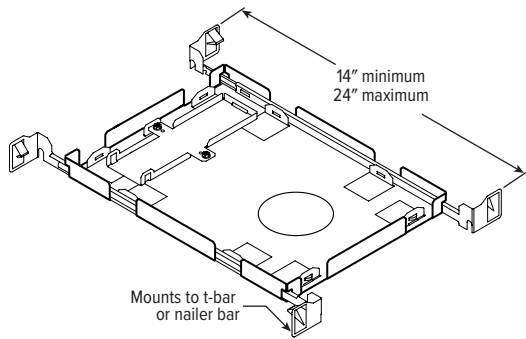
Driver and Junction Box



2AR dim to WARM 2" Adjustable Downlight – Round

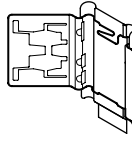
MOUNTING HARDWARE DETAILS

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

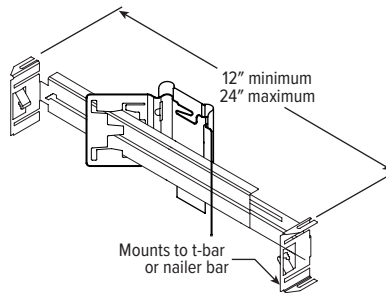


F1 with I Mounting Type

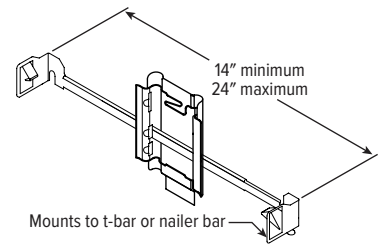
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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)

