

PROJECT: _____



ORDERING EXAMPLE: 2DS - L12/9DW - OPTIONS - DIM1 - UNV - LW - OF - WH - TRIM OPTIONS - N - F1

HOUSING TRIM MOUNT

SERIES	LUMENS ^[1]	COLOR	OPTIONS	CONTROL	VOLTAGE
2DS	L7 700lm L12 1,200lm	9DW Dim to warm (95 CRI, 1800K – 3000K)	See page 3 for EMERGENCY BATTERY OPTIONS.	DIM1 1% dimming driver (0-10V signal to control dimming and CCT) LUT Lutron Ecosystem enabled ^[4]	UNV 120-277V 347 347V ^[5]
			ATH Airtight construction F Fuse kit SDT Stepdown transformer ^[2] CP Chicago plenum (CCEA) ^[3]		

TRIM TYPE	DISTRIBUTION ^[7]	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens	W 50° Wide	OF 1/2" standard flange	Open trim types	MWT Textured white trim flange ^[13]
O Open reflector	M 30° Medium	ZF Zero-flange mud-in ^[11]	CS Clear semi-specular anodize	AD Diffuse acrylic lens ^[14]
R Regressed lens	N 20° Narrow ^[9]		SG Satin-glow anodize	PD Diffuse 1/8" polycarbonate lens ^[15]
A Angled lens ^[8]	WW Wall wash ^[10]		GD Gold anodize	WET/CC Wet location, covered ceiling listed ^[16]
			CG Champagne gold anodize	AM Anti-microbial ^[17]
			PW Pewter anodize	
			SPC Clear specular anodize	
			RG Rose gold anodize	
			Lens trim types	
			CS Clear semi-specular powder coat	
			WH White texture powder coat	
			BL Black texture powder coat	
			MB Black texture splay with white flange ^[12]	

MOUNTING TYPE ^[18]		MOUNTING HARDWARE ^[19]	
N	Open pan for new construction ^[20]	F1	Integral 2-position fixed pan bracket, universal bar hanger included ^[23]
I	IC-rated enclosure for new construction ^[21]	BA1	Adjustable butterfly pan bracket, bar hanger not included ^[24]
R	Remodel kit ^[22]	CA1	Adjustable caterpillar pan bracket, universal bar hanger included ^[25]

- 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 May be required for 347V, see product builder at hew.com/product-builder.
 - 3 I Mounting Type required.
 - 4 N Mounting Type only, top access required.
 - 5 Not available with EM batteries or DMX Driver.
 - 6 Trim ships separately.
 - 7 Beam angle based on L Trim Type and WH Reflector Finish. Trim Type affects beam angle. See page 2 for FIXTURE PERFORMANCE DATA.
 - 8 Available with WW Distribution only.
 - 9 L7 lumen package max.
 - 10 A Trim Type only.
 - 11 For use with mud-in plaster construction only, supplied with mud flange installation kit. See page 4 for TRIM TYPE DETAILS. Not available with O Trim Type or ATH Option.
 - 12 R Trim Type only. Not available with ZF Flange Type or MWT.
 - 13 Not available with L Trim Type, ZF Flange Type or WH Reflector Finish.
 - 14 W distribution only. Not available with O Trim Type.
 - 15 W and WW distributions only. Not available with O Trim Type.
 - 16 Not available with O Trim Type. Not available with PD trim option.
 - 17 WH and BL Reflector Finishes only.
 - 18 Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
 - 19 Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
 - 20 Top access required when specified with EM battery or when specified using LUT Control with L12 lumen package.
 - 21 L7 lumen package max. Not available with EM batteries.
 - 22 Also used in new construction sheetrock ceilings. Pan-less installation. Additional plenum space required for R mounting when specified with EM battery. See page 3 for REGRESSED TEST SWITCH DETAILS.
 - 23 N and I Mounting Types only. I Mounting requires external brackets.
 - 24 N Mounting Type only.
 - 25 N Mounting Type only.

2DS dim to WARM

2" Downlight – Square

FEATURES

- Mimic the comfortable, welcoming glow of incandescent with warm-dimming technology
- Beam angles ranging from 20° narrow to 50° wide for tailored performance
- 2" aperture is unobtrusive in small scale spaces
- Square shape accentuates architectural styles
- 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
- Die-cast trim choices include flush, regressed or angled lens
- Easily adjust mounting arms below ceiling to adapt to a range of ceiling thicknesses
- Spring clip retention system eliminates trim sag

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" – 2-3/8".
- OPEN REFLECTOR** – Low-iridescent anodized aluminum with top diffuser.
- 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 > 55,000 hours. Reported L90=49,000 hours. Estimated L70=179,000 hours.
- MOUNTING** – Recessed. 20 ga. galvanized steel mounting pan for new construction or IC-rated enclosure. Minimum 12-1/2" O.C. marked spacing required for L12 lumen package when specified with R Mounting Type.
- 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

				FLUSH LENS TRIM TYPE		OPEN REFLECTOR TRIM TYPE		REGRESSED LENS TRIM TYPE		ANGLED LENS TRIM TYPE		
	CCT AT 100% (FULL OUTPUT)	CCT AT 1% (FULL DIM)	DISTRIBUTION	WATTAGE	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
L7	3000K	1800K	W	14.8	729	49	528	36	734	50	—	—
			M	14.8	731	49	500	34	720	49	—	—
			N	14.8	708	48	516	35	708	48	—	—
			WW	14.8	—	—	—	—	—	—	564	38
L12			W	23.3	1263	54	915	39	1273	55	—	—
			M	23.3	1267	54	867	37	1248	54	—	—
			N	—	—	—	—	—	—	—	—	—
			WW	23.3	—	—	—	—	—	—	978	42

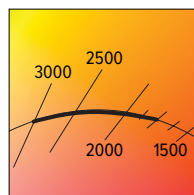
MULTIPLIER TABLES

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
R TRIM	WH	1.00
	CS	0.98
	BL	0.79

TRIM OPTIONS	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85

BEAM ANGLE

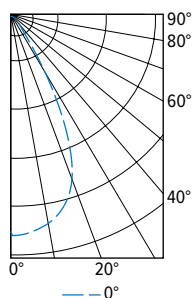
TRIM TYPE			
	FLUSH	OPEN	REGRESSED
W	50°	50°	55°
M	30°	47°	30°
N	20°	47°	20°



- Distribution will also be affected, consult factory.
- Photometrics tested in accordance with IESNA LM-79. Results based on CS (O Trim Type) or WH (L, R and A Trim Types) Reflector Finish, 95 CRI/3000K CCT, average wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- Beam angle based on L Trim Type and WH Reflector Finish.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

PHOTOMETRY

2DS-L12/9DW-DIM1-UNV-LW-OF-WH Total Luminaire Output: 1263 lumens; 23.3 Watts | Efficacy: 54 lm/W | 95 CRI; 3000K CCT



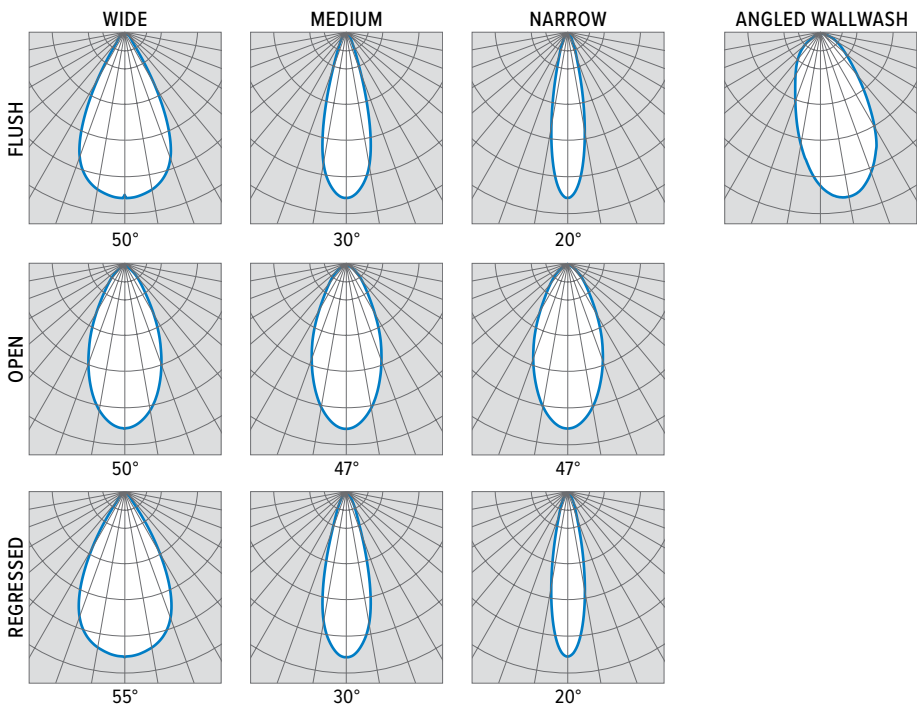
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1460	
	5	1474	137
	15	1332	366
	25	840	391
	35	212	179
	45	86	77
	55	56	54
	65	36	37
	75	18	19
	85	4	4
	90	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1073	85
	0 - 60	1203	95
	0 - 90	1263	100
	0-180	1263	100



2DS dim to WARM

2" Downlight – Square



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/7W/IPRTS	7-watt emergency battery with IP65 rated regressed test switch ²
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 ²

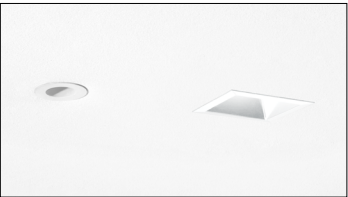
- ¹ Not available with WET/CC Option. N Mounting Type only. Top access required.
- ² N Mounting Type only. Top access required.

REMODEL MOUNTING DETAILS

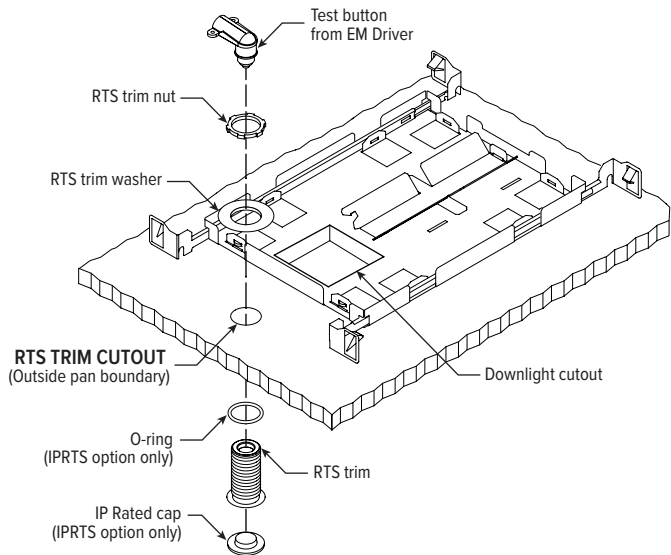
Additional plenum space required for R mounting when specified with EM battery.

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

REGRESSED TEST SWITCH DETAILS

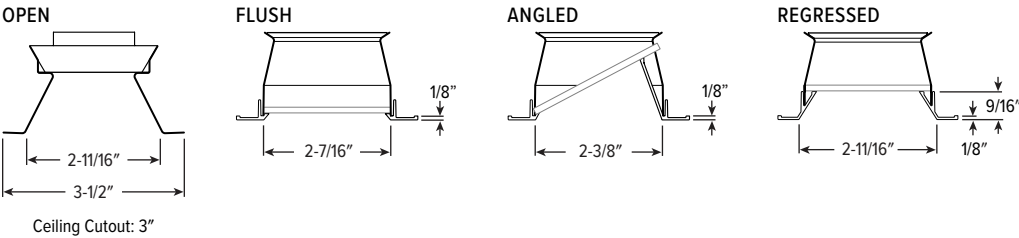


Shown Installed

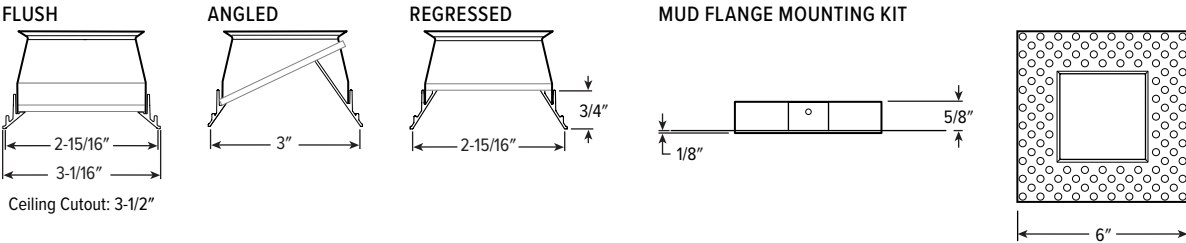


TRIM TYPE DETAILS

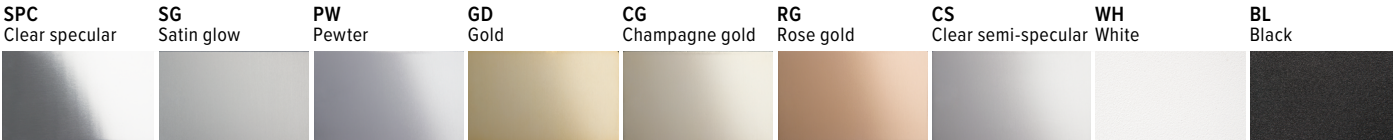
1/2" STANDARD FLANGE TYPE



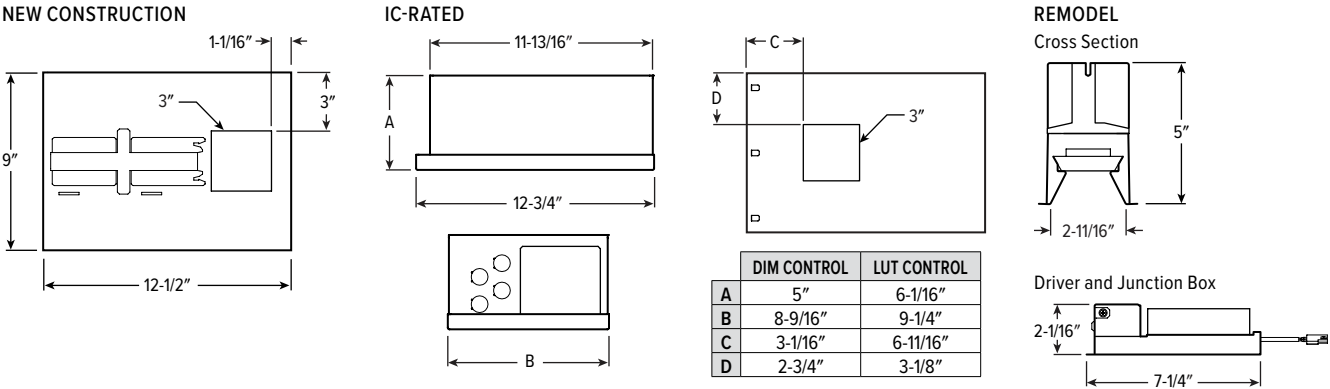
ZERO-FLANGE MUD-IN



REFLECTOR FINISH DETAILS

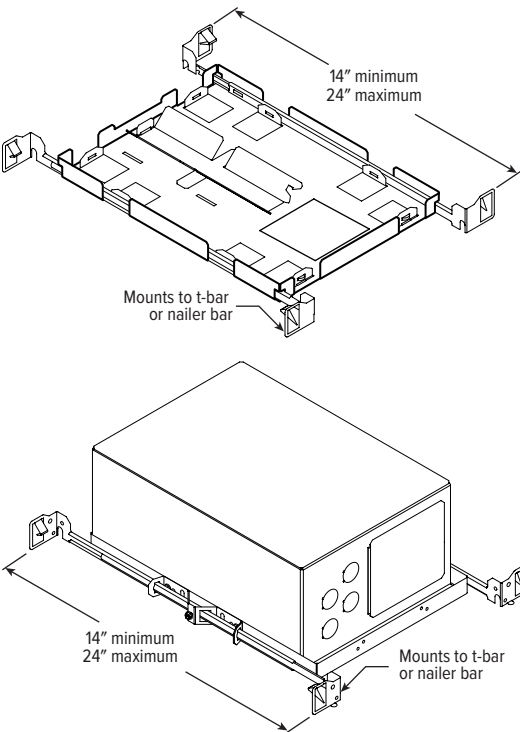


MOUNTING TYPE DETAILS



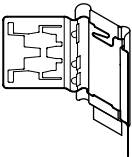
MOUNTING HARDWARE DETAILS

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

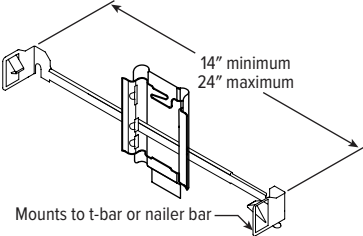


F1 with I Mounting Type

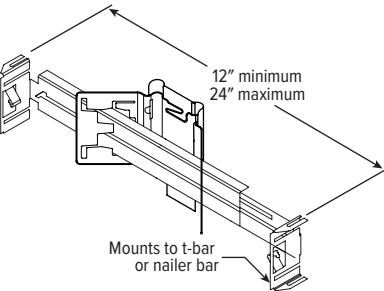
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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)

