

Technical drawing showing a side view of a mechanical assembly. The drawing includes the following dimensions:

- Overall width: 12-1/2"
- Post diameter: 2-11/16"
- Post height: 5"
- Base thickness: 1-1/2" min. to 2-3/8" max.

PROJECT: _____



HOUSING

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	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens	See page 2	OF 1/2" standard flange	Open trim types	MWT Smooth matte white trim flange ^[12]
O Open reflector	for BEAM ANGLE.	ZF Zero-flange mud-in ^[10]	CS Clear semi-specular anodize	AD Diffuse acrylic lens ^[13]
R Regressed lens	W Wide		SG Satin-glow anodize	PD Diffuse 1/8" polycarbonate lens ^[14]
A Angled lens ^[7]	M Medium		GD Gold anodize	WET/CC Wet location, covered ceiling listed ^[15]
	N Narrow ^[8]		CG Champagne gold anodize	AM Anti-microbial ^[16]
	WW Wall wash ^[9]		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 ^[11]	

MOUNTING TYPE ^[17]		MOUNTING HARDWARE ^[18]	
N	Open pan for new construction ^[19]	F1	Integral 2-position fixed pan bracket, universal bar hanger included ^[22]
I	IC-rated enclosure for new construction ^[20]	BA1	Adjustable butterfly pan bracket, bar hanger not included ^[23]
R	Remodel kit ^[21]	CA1	Adjustable caterpillar pan bracket, universal bar hanger included ^[24]

- 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 Not available with R Mounting. 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 Available with WW Distribution only.
- ⁸ L7 lumen package max.
- ⁹ A Trim Type only.
- ¹⁰ 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.
- ¹¹ R Trim Type only. Not available with ZF Flange Type or MWT.
- ¹² Not available with L Trim Type, ZF Flange Type or WH Reflector Finish.
- ¹³ W Distribution only. Not available with O Trim Type.
- ¹⁴ W and WW distributions only. Not available with O Trim Type.
- ¹⁵ Not available with O Trim Type.
- ¹⁶ 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 Top access required when specified with EM battery or when specified using LUT Control with L12 lumen package.
- ²⁰ L7 lumen package max. Not available with EM batteries.
- ²¹ 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 REMODEL MOUNTING PLENUM RESTRICTIONS.
- ²² N and I Mounting Types only. I Mounting requires external brackets.
- ²³ N Mounting Type only.
- ²⁴ 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
- 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" – 2-3/8".
- 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/buy-american
- 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

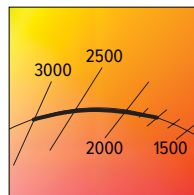
MULTIPLIER TABLES

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

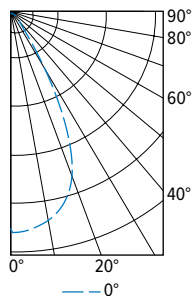
TRIM TYPE			
	FLUSH	OPEN	REGRESSED
W	50°	50°	55°
M	30°	47°	30°
N	20°	47°	20°



- 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

PHOTOMETRY CONTINUED ON NEXT PAGE



H.E. Williams, Inc.

Carthage, Missouri

www.hew.com

417-358-4065

Designed and Manufactured in the USA

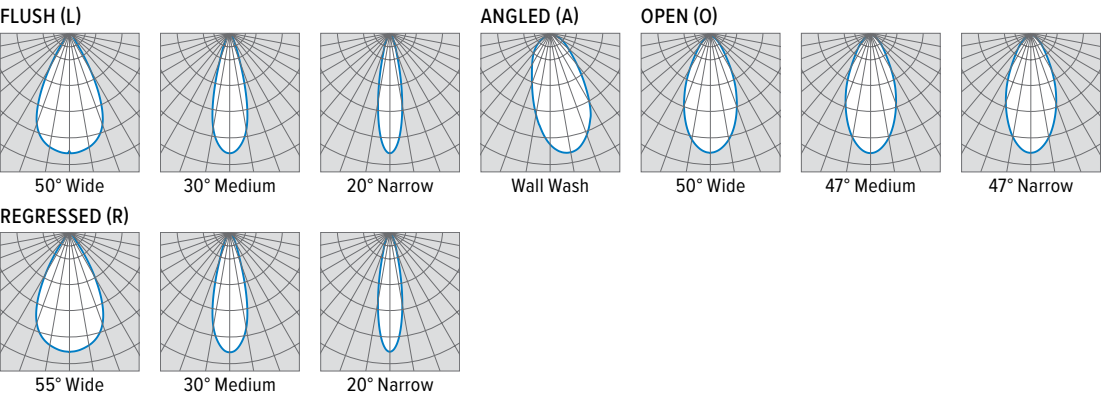
Information contained herein is subject to change without notice.

REV.01/10/25.JL

Downlights
Page 2 of 5

2DS dim to WARM

2" Downlight – Square



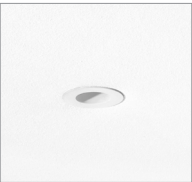
EMERGENCY BATTERY OPTIONS

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 Trim Option. N Mounting Type only. Top access required.
² Must specify IP Trim Option. N Mounting Type only. Top access required.

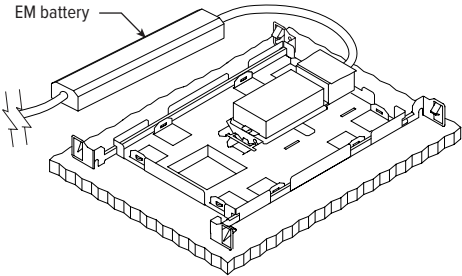
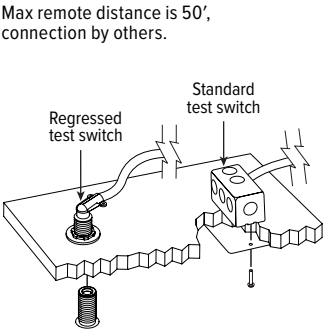
MOUNTING DETAILS



Regressed test switch
ø1-3/4"



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



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"

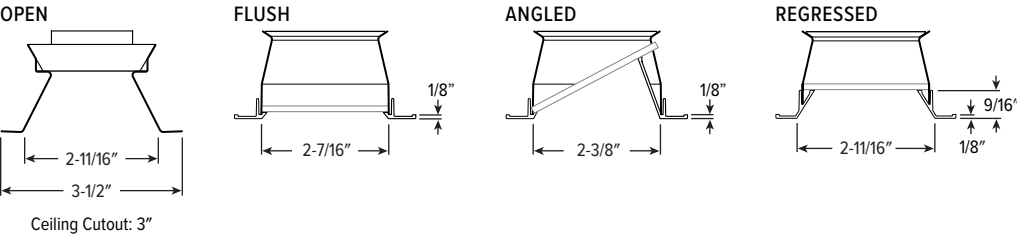
REFLECTOR FINISH DETAILS

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

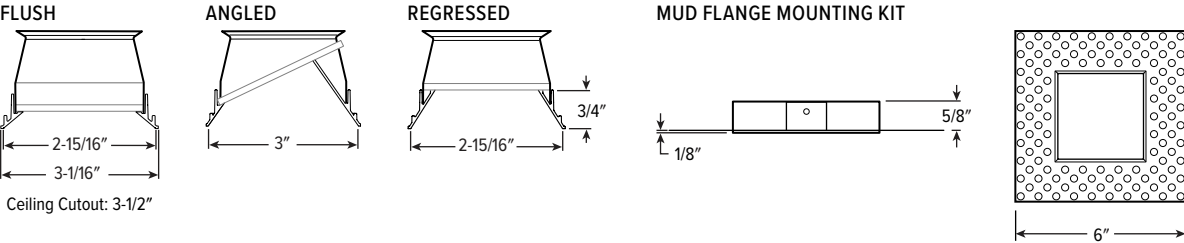


TRIM TYPE DETAILS

1/2" STANDARD FLANGE TYPE



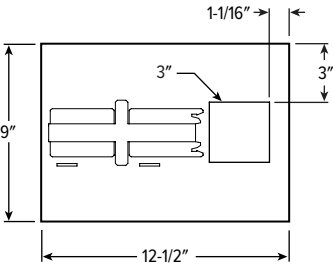
ZERO-FLANGE MUD-IN



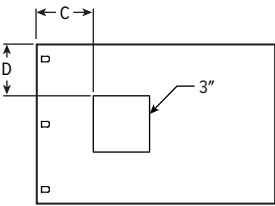
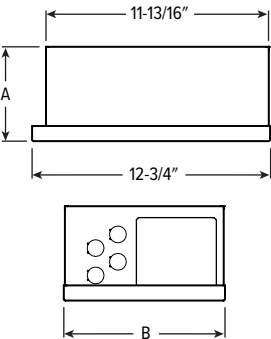
SEE NEXT PAGE FOR MOUNTING DETAILS

MOUNTING TYPE DETAILS

NEW CONSTRUCTION



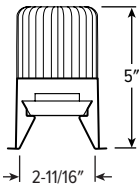
IC-RATED



	DIM CONTROL	LUT CONTROL
A	5"	6-1/16"
B	8-9/16"	9-1/4"
C	3-1/16"	6-11/16"
D	2-3/4"	3-1/8"

REMODEL

Cross Section

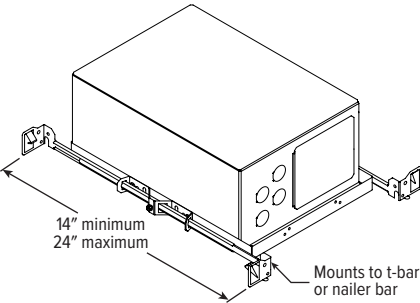
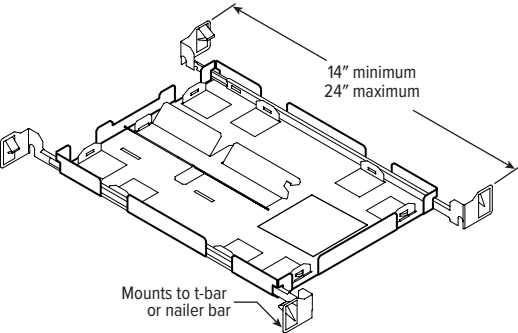


Driver and Junction Box



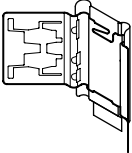
MOUNTING HARDWARE DETAILS

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

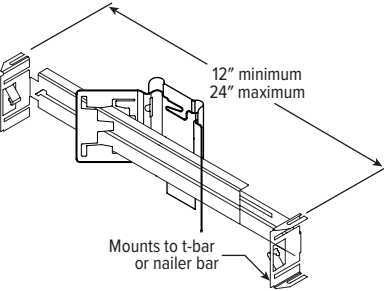


F1 with I Mounting Type

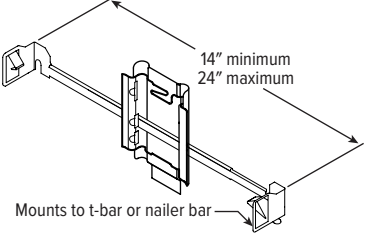
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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)

