

2DS dim to WARM

2" Downlight – Square

FEATURES

- Dim to warm from 1800K to 3000K CCT, minimum 95 CRI
- 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
- Open reflector with seven finishes complements any interior style
- 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.
- WARRANTY – 5-year limited warranty, see hew.com/warranty.

FIXTURE PERFORMANCE DATA

	CCT AT 100% (FULL OUTPUT)	CCT AT 1% (FULL DIM)	DISTRIBUTION	WATTAGE	FLUSH LENS TRIM TYPE		OPEN REFLECTOR 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)	
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	3000K	1800K	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

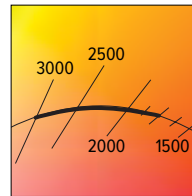
	REFLECTOR FINISH	
	CATALOG NUMBER	CONVERSION FACTOR
O TRIM	CS	1.00
	SG ¹	0.92
	GD	0.93
	CG	0.96
	PW	0.86
	SPC	1.02
	RG	0.88

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

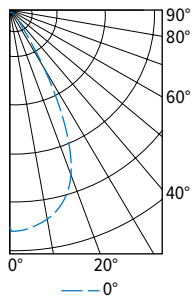
	TRIM TYPE		
	FLUSH	OPEN	REGRESSED
W	50°	50°	55°
M	30°	47°	30°
N	20°	47°	20°



- Distribution will also be affected, consult factory.
- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is based on 120V input.
- Results based on 3000K/95CRI and CS (O Trim Type) or WH (L, R and A Trim Types) Reflector finish. Actual lumens may vary +/-5%
- Beam angle based on L Trim Type and WH Reflector Finish.
- 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



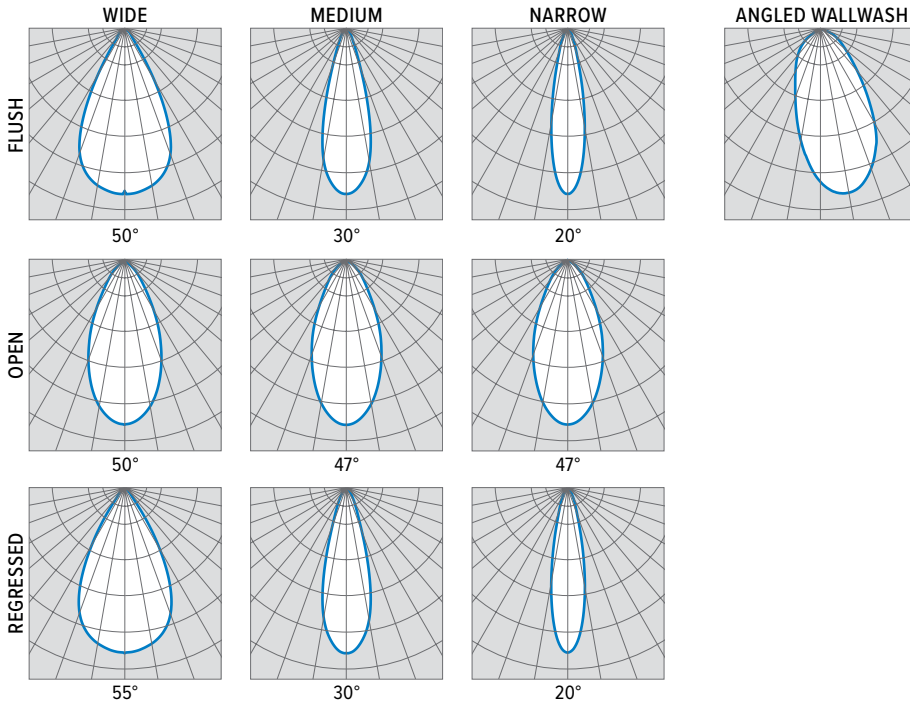
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1460	
	5	1474	137
	15	1332	366
	25	840	391
	35	212	179
	45	86	77
	55	56	54
	65	36	37
	75	18	19
	85	4	4
	90	0	

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



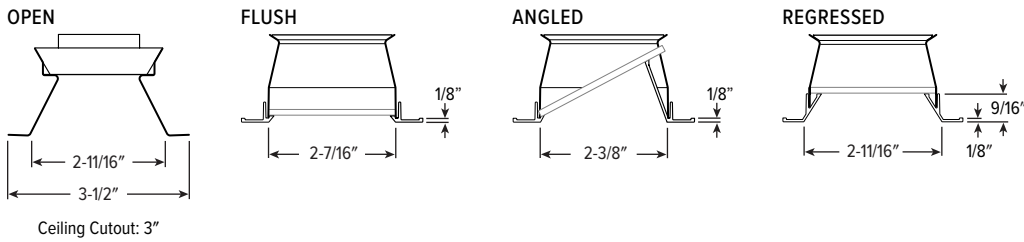
2DS dim to WARM

2" Downlight – Square

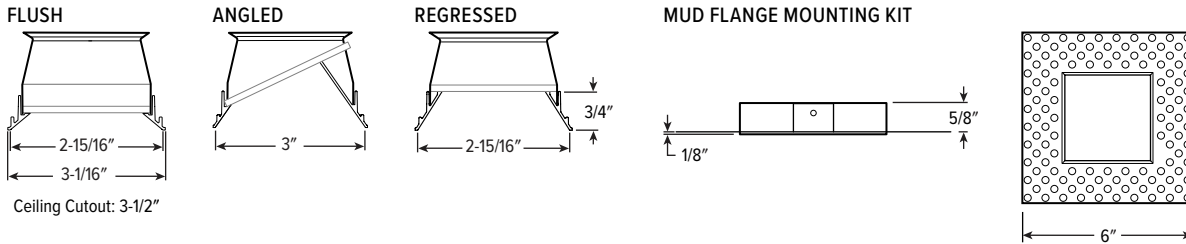


TRIM TYPE DETAILS

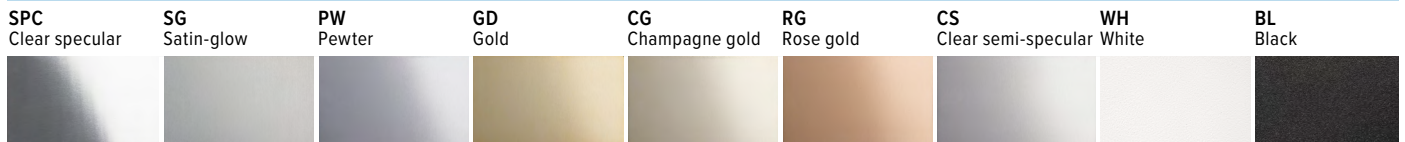
1/2" STANDARD FLANGE TYPE



ZERO-FLANGE MUD-IN



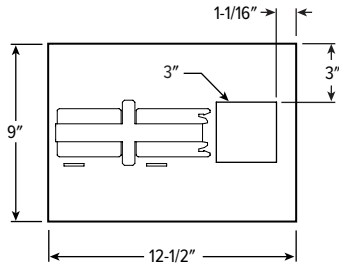
REFLECTOR FINISH DETAILS



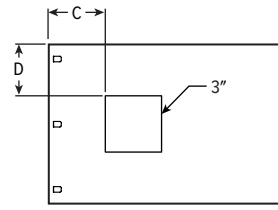
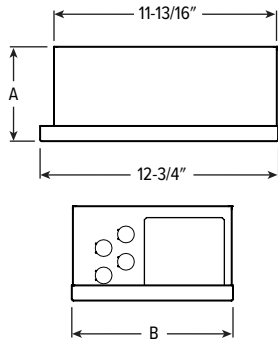
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MOUNTING TYPE DETAILS

NEW CONSTRUCTION



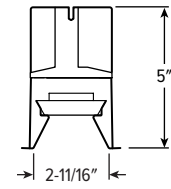
IC-RATED



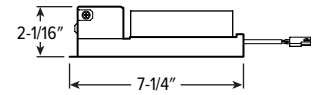
	DIM CONTROL	LUT CONTROL
A	5"	6-1/16"
B	8-9/16"	9-1/4"
C	3-1/16"	6-11/16"
D	2-3/4"	3-1/8"

REMODEL

Cross Section



Driver and Junction Box



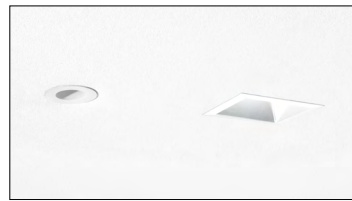
EM BATTERY DETAILS

REMODEL MOUNTING

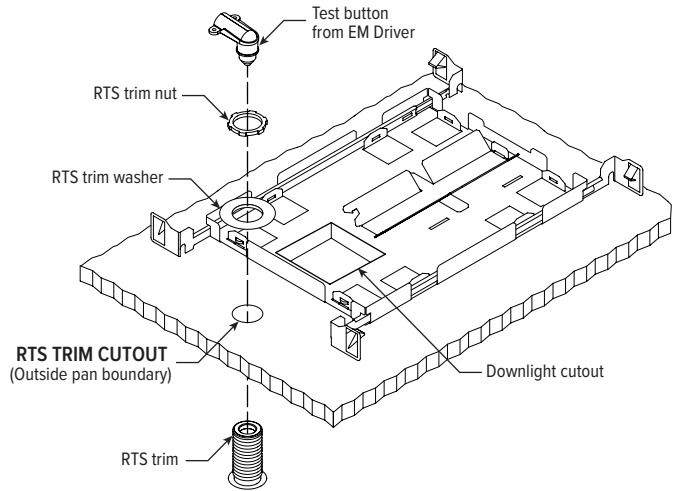
Additional plenum space required for R mounting when specified with EM battery.

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

EM/10W/RTS MOUNTING

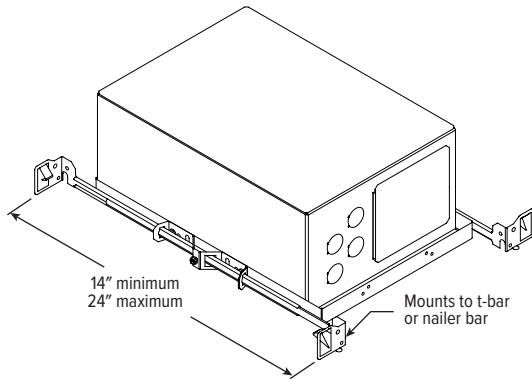
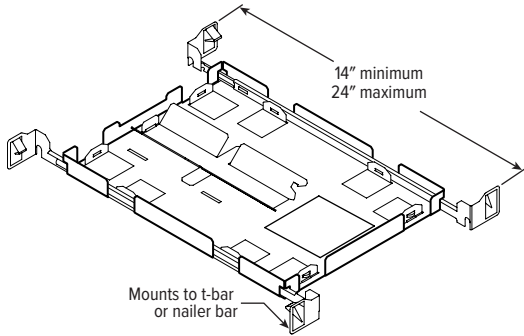


Shown Installed



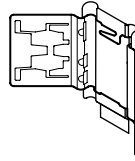
MOUNTING HARDWARE DETAILS

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

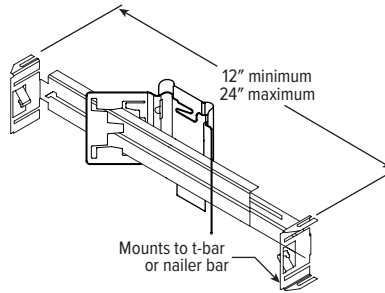


F1 with I Mounting Type

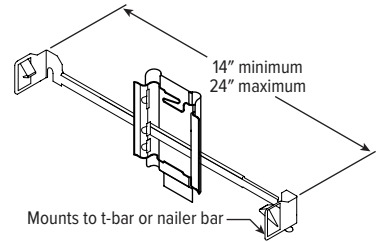
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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)

