

CATALOG #: _____

TYPE: _____

PROJECT: _____



HOUSING

— TRIM —

MOUNT

SERIES	LUMENS ^[1]	COLOR	OPTIONS	CONTROL	VOLTAGE
2DS	L5 500lm L7 700lm L9 900lm L12 1,200lm L15 1,500lm	9TW Tunable white (90 CRI, 2700K-5000K)	See page 4 for EMERGENCY BATTERY OPTIONS. ATH Airtight construction F Fuse kit CP Chicago plenum (CCEA) ^[2]	See page 3 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%. ^[3]	UNV 120-277V

TRIM TYPE	DISTRIBUTION ^[5]	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 ^[11]
O Open reflector	M 30° Medium	ZF Zero-flange mud-in ^[9]	CS Clear semi-specular anodize	AD Diffuse acrylic lens ^[12]
R Regressed lens	N 20° Narrow ^[7]		SG Satin-glow anodize	PD Diffuse 1/8" polycarbonate lens ^[13]
A Angled lens ^[6]	WW Wall wash ^[8]		GD Gold anodize	WET/CC Wet location, covered ceiling listed ^[14]
			CG Champagne gold anodize	AM Anti-microbial ^[15]
			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 ^[10]	

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

- ¹ Lumen output based on O Trim Type, W Distribution, and WH Reflector Finish, 90 CRI/4000K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- ² I Mounting Type required.
- ³ N Mounting Type only, top access required.
- ⁴ Trim ships separately.
- ⁵ Beam angle based on L Trim Type and WH Reflector Finish. Trim Type affects beam angle. See page 2 for FIXTURE PERFORMANCE DATA.
- ⁶ Available with WW Distribution only.
- ⁷ L12 lumen package max for N Mounting. L7 lumen package max for I Mounting.
- ⁸ A Trim Type only.
- ⁹ 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.
- ¹⁰ R Trim Type only. Not available with ZF Flange Type or MWT.
- ¹¹ Not available with L Trim Type, ZF Flange Type or WH Reflector Finish.
- ¹² W distribution only. Not available with O Trim Type.
- ¹³ W and WW distributions only. Not available with O Trim Type.
- ¹⁴ Not available with O Trim Type. Not available with PD trim option.
- ¹⁵ WH and BL Reflector Finishes only.
- ¹⁶ Mounting hardware required, ordered separately, see MOUNTING HARDWARE ordering info. See page 5 for MOUNTING TYPE DETAILS.
- ¹⁷ Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
- ¹⁸ Top access required when specified with EM battery.
- ¹⁹ L9 lumen package max. Not available with EM batteries.
- ²⁰ I Mounting requires external brackets.
- ²¹ N Mounting Type only.
- ²² N Mounting Type only.

2DS tunable WHITE

2" Downlight – Square

FEATURES

- Support human-centric design with adaptive, individualized lighting using tunable white light
- 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
- Spring clip retention system eliminates trim sag
- New construction mounting pan or IC-rated enclosure available
- Open reflector with seven finishes complements any interior style
- Die-cast trim choices include flush, regressed or angled lens
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Easily adjust mounting arms below ceiling to adapt to a range of ceiling thicknesses

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>55,000 hours. Estimated L70 = 200,000 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. Top access required for driver maintenance.
- LISTINGS** –
 - cCSAus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0 for 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

	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)
L5	W	10.5	581	55	421	40	586	56	–	–
	M	10.5	609	58	416	40	600	57	–	–
	N	10.5	552	53	402	38	553	53	–	–
	WW	10.5	–	–	–	–	–	–	450	43
L7	W	13.5	776	57	562	42	782	58	–	–
	M	13.5	813	60	556	41	801	59	–	–
	N	13.5	737	55	537	40	738	55	–	–
	WW	13.5	–	–	–	–	–	–	601	44
L9	W	18.3	1083	59	784	43	1091	60	–	–
	M	18.3	1134	62	776	42	1117	61	–	–
	N	18.3	1029	56	750	41	1030	56	–	–
	WW	18.3	–	–	–	–	–	–	838	46
L12	W	22.5	1332	59	964	43	1342	60	–	–
	M	22.5	1395	62	954	42	1374	61	–	–
	N	22.5	1265	56	922	41	1266	56	–	–
	WW	22.5	–	–	–	–	–	–	1031	46
L15	W	28.4	1570	55	1137	40	1582	56	–	–
	M	28.4	1645	58	1125	40	1620	57	–	–
	N	–	–	–	–	–	–	–	–	–
	WW	28.4	–	–	–	–	–	–	1216	43

MULTIPLIER TABLES

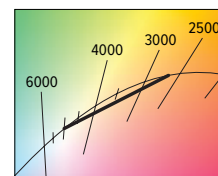
COLOR TEMPERATURE		
CCT	LUMENS	WATTS
2700K	0.87	1.05
3000K	0.96	1.11
3500K	1.02	1.06
4000K	1.00	1.00
5000K	1.02	1.06

	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, 90 CRI/4000K 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.



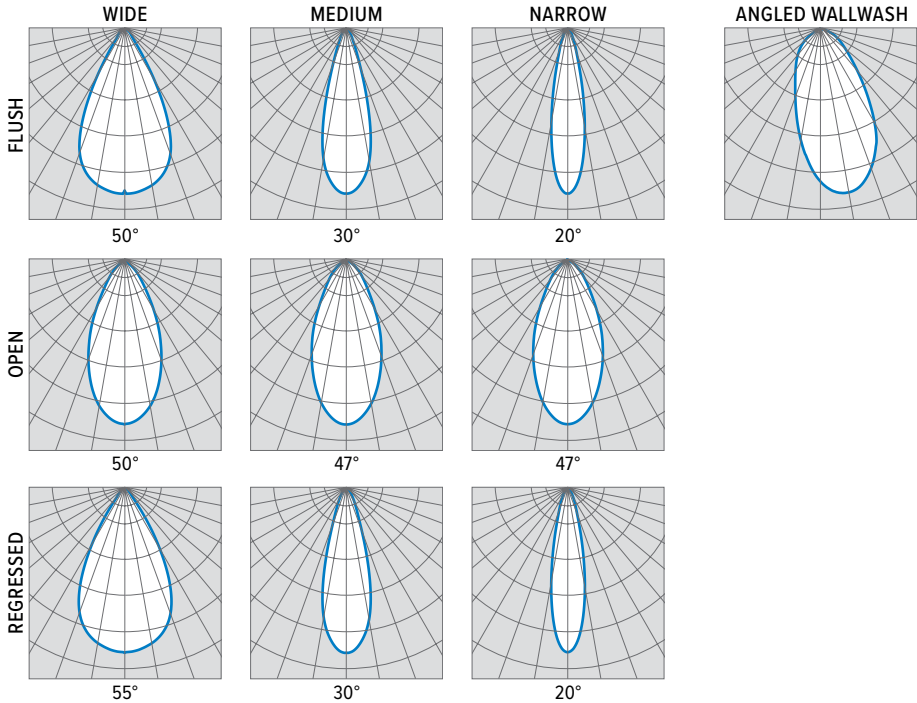
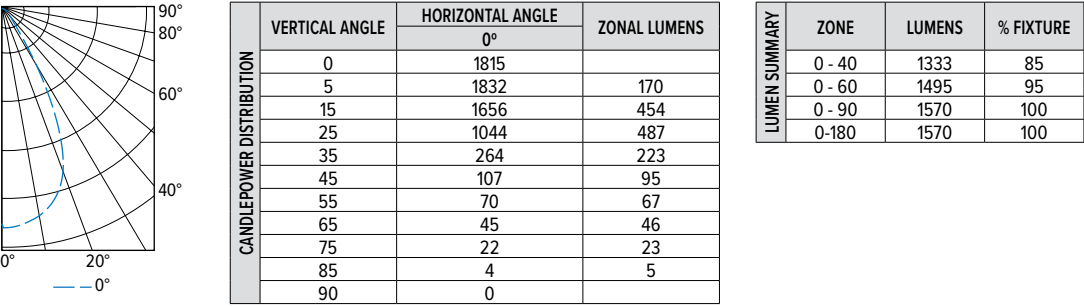
2DS

tunable WHITE

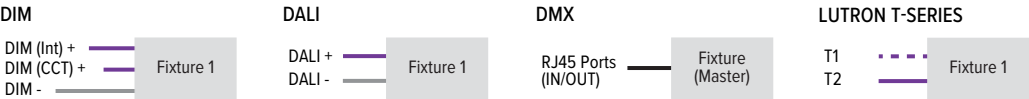
2" Downlight – Square

PHOTOMETRY

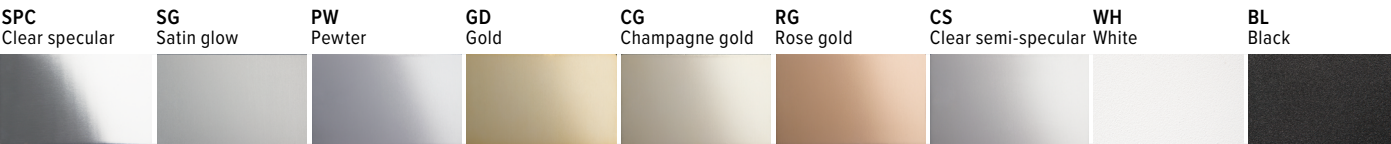
2DS-L15/9TW-DIM-UNV-LW-OF-WH Total Luminaire Output: 1570 lumens; 28.4 Watts | Efficacy: 55 lm/W | 90 CRI; 4000K CCT



CONTROL DETAILS

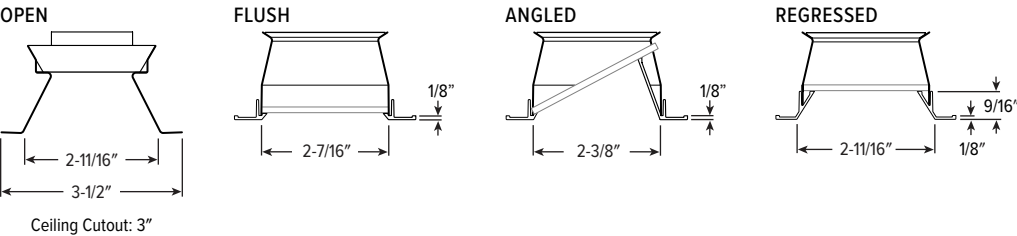


REFLECTOR FINISH DETAILS

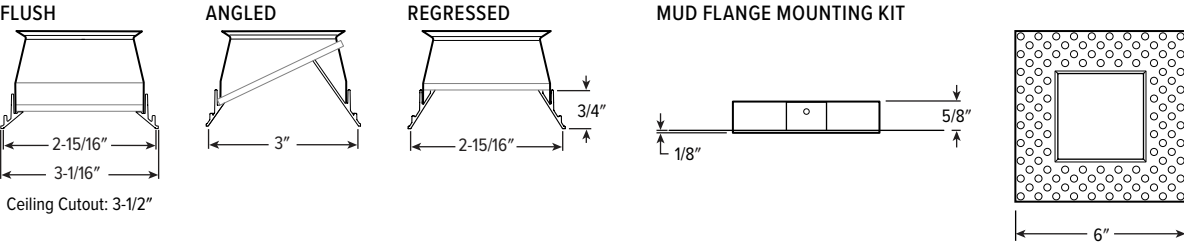


TRIM TYPE DETAILS

1/2" STANDARD FLANGE TYPE



ZERO-FLANGE MUD-IN



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 ³
EM/10W/RTS	10-watt emergency battery with regressed test switch ⁴
EM/10W/IPRTS	10-watt emergency battery with IP65 rated regressed test switch ⁵

- 1

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

2

N Mounting Type only. Top access required.

3

Not available with L5 lumen package.

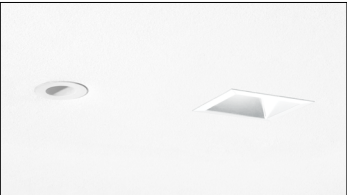
4

Not available with L5 lumen package or WET/CC Option. N Mounting Type only. Top access required.

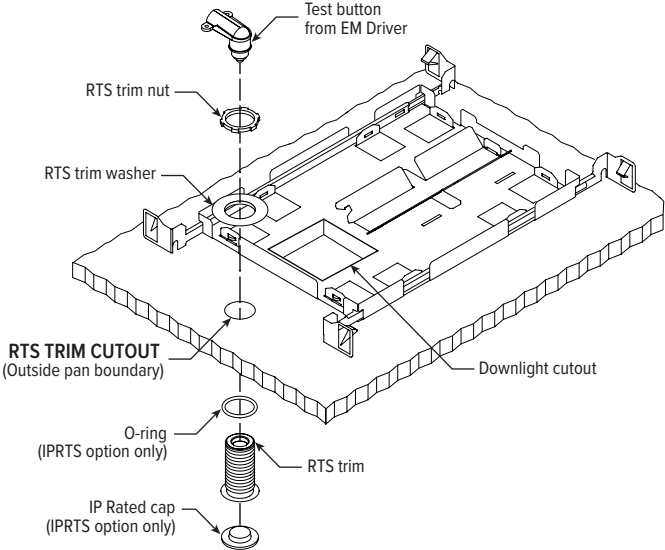
5

Not available with L5 lumen package. N Mounting Type only. Top access required.

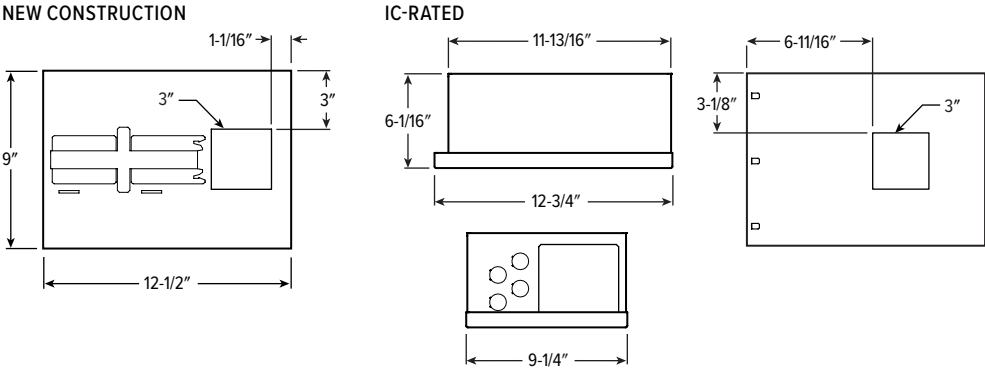
REGRESSED TEST SWITCH DETAILS



Shown Installed



MOUNTING TYPE DETAILS



MOUNTING HARDWARE DETAILS

