

CATALOG #:	 	
TYPE:		
PRO IECT:		

**VOLTAGE** 

**UNV 120-277V** 







#### ORDERING EXAMPLE:,2DR - L15/9TW - OPTIONS - DIM - UNV ,- ,0W - OF - CS - TRIM OPTIONS , - ,N - F1 HOUSING -TRIM

#### **HOUSING**

SERIES LUMENS [1] 2DR L5 500lm L7 700lm L9 900lm L12 1,200lm L15 1,500lm COLOR

40° Medium

15° Narrow [7]

9TW Tunable white (90 CRI, 2700K-5000K)

**OPTIONS** 

See page 4 for EMERGENCY BATTERY OPTIONS. ATH Airtight construction

Fuse

Chicago plenum (CCEA) [2]

CONTROL

See page 3 for CONTROL DETAILS.

**DALI** Driver prewired for DALI applications Dimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT

PSQ Lutron T-Series 2-channel tunable white 1%.[3]

DMX Driver prewired for DMX applications

### TRIM [4]

**TRIM TYPE** O Open reflector L Flush lens М R Regressed lens Ν WW Wall wash [8] A Angled lens [6]

DISTRIBUTION [5] **FLANGE TYPE** 70° Wide

OF 1/2" standard flange ZF Zero-flange mud-in [9] **REFLECTOR FINISH** Open trim types

CS Clear semi-specular anodize

SG Satin glow anodize GD Gold anodize

CG Champagne gold anodize

Pewter anodize SPC Clear specular anodize Rose gold anodize RG

WH White texture powder coat Black texture powder coat BL

Lens trim types

Clear semi-specular powder coat CS

WH White texture powder coat

Black texture powder coat

Black texture splay with white flange [10]

# TRIM OPTIONS

MWT Textured white trim flange [11] Diffuse acrylic lens [12] AD Diffuse 1/8" polycarbonate lens [13] PD Diffuse polycarbonate lens media at top of open reflector [14] TD

WET/CC Wet location, covered ceiling listed [15]

Anti-microbial [16]

#### MOUNTING

### MOUNTING TYPE [17]

 ${\bf N}$  Open pan for new construction  $^{{\scriptsize [19]}}$ 

I IC-rated enclosure for new construction [20]

## MOUNTING HARDWARE [18]

Integral 2-position fixed pan bracket, universal bar hanger included  $^{\text{[21]}}$ 

BA1 Adjustable butterfly pan bracket, bar hanger not included [22]

Adjustable caterpillar pan bracket, universal bar hanger included [23]

### **NOTES**

- Lumen output based on O Trim Type, W Distribution, and CS Reflector Finish, 90 CRI/4000K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE
- I Mounting Type required.

  N Mounting Type only, top access required.

  Trim ships separately.
- Beam angle based on O Trim Type and CS Reflector Finish.
  Trim Type affects beam angle. See page 2 for FIXTURE
  PERFORMANCE DATA.
- Available with WW Distribution only.
  When specified with L or R Trim Type: L12 lumen package
  max for N Mounting, L7 lumen package max for I Mounting.
- A Trim Type only.
- For use with mud-in plaster construction only, supplied with mud flange installation kit. See page 4 for TRIM TYPE DETAILS. Not available with 0 Trim Type or ATH Option.
- R Trim Type only. Not available with ZF Flange Type or MWT. Not available with L Trim Type, ZF Flange Type or WH Reflector Finish.
- W distribution only. Not available with O Trim Type.
   W and WW distributions only. Not available with O Trim Type.
   O Trim Type only. WET/CC standard.
- Not available with PD trim option.
   WH and BL Reflector Finishes only.

- Mounting hardware required, ordered separately, see MOUNTING HARDWARE ordering info. See page 5 for MOUNTING TYPE DETAILS.

  \*\*\*Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.

  \*\*\*Top access required when specified with EM battery.

  \*\*\*Description of the process of the page of

- I Mounting requires external brackets.
   N Mounting Type only.
   N Mounting Type only.



#### **FEATURES**

- Support human-centric design with adaptive, individualized lighting using tunable white light
- 2" aperture is unobtrusive in small scale spaces
- Zero-flange trim options for modern ceiling
- Die cast trim choices include flush, regressed or angled lens
- Beam angles ranging from 15° narrow to 70° wide for tailored performance
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Open reflector with nine finishes complements any interior style
- New construction mounting pan or IC-rated enclosure available

#### **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. Clear semi-specular finish standard.
- LENSED TRIM Die-cast aluminum frame with microprismatic, 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 or TD options.
  - 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

			OPEN REFLECT	OR TRIM TYPE	FLUSH LENS	TRIM TYPE	REGRESSED LE	NS TRIM TYPE	ANGLED LEN	S TRIM TYPE
	DISTRIBUTION	WATTAGE	DELIVERED LUMENS	EFFICACY (Im/W)	DELIVERED LUMENS	EFFICACY (Im/W)	DELIVERED LUMENS	EFFICACY (Im/W)	DELIVERED LUMENS	EFFICACY (Im/W)
	W	10.5	570	54	597	57	591	56	_	_
D.	M	10.5	575	55	614	58	587	56	_	_
_	N	10.5	440	42	571	54	557	53	_	_
	WW	10.5	_	_	_	_	_	_	404	38
	W	13.5	761	56	797	59	789	58	_	_
2	M	13.5	768	57	819	61	784	58	_	_
-	N	13.5	588	44	762	56	743	55	_	_
	WW	13.5	_	_	_	_	_	_	540	40
	W	18.3	1062	58	1112	61	1101	60	_	_
6	M	18.3	1071	59	1144	62	1094	60	_	_
_	N	18.3	821	45	1063	58	1037	57	_	_
	WW	18.3	_	_	_	_	_	_	753	41
	W	22.5	1306	58	1368	61	1353	60	_	_
12	M	22.5	1318	59	1406	63	1346	60	_	_
-	N	22.5	1009	45	1308	58	1275	57	_	_
	WW	22.5	_	_	_	_	_	_	926	41
	W	28.4	1540	54	1613	57	1596	56	_	_
13	M	28.4	1554	55	1658	58	1587	56	_	_
=	N	28.4	1190	42	_	_	-	_	_	_
	ww	28.4	_	_	_	_	_	_	1092	38

TRIM OPTIONS

CONVERSION

**FACTOR** 0.85

0.85

0.67

0.85

CATALOG

NUMBER

PD

TD

WET/CC<sup>2</sup>

#### **MULTIPLIER TABLES**

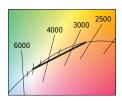
COLOR TEMPERATURE					
ССТ	LUMENS	WATTS			
2700K	0.87	1.05			
3000K	0.96	1.11			
3500K	1.02	1.06			
4000K	1.00	1.00			
5000K	1.02	1.06			

	REFLECTOR FINISH				
	CATALOG NUMBER	CONVERSION FACTOR			
	CS	1.00			
	SG <sup>1</sup>	0.92			
	GD	0.93			
Σ	CG	0.96			
O TRIM	PW	0.86			
0	SPC	1.02			
	RG	0.88			
	WH 1	0.89			
	BL 1	0.47			
_					
_	WH	100			

Σ	WH	1.00
R TRIM	CS	0.98
	BL	0.79

#### **BEAM ANGLE**

	TRIM TYPE				
	OPEN FLUSH REGRESSED				
W	70°	50°	55°		
М	40°	30°	30°		
N	15°	20°	20°		



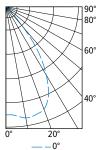
- Distribution will also be affected, consult factory.
- Use multiplier only when specified with 0 Trim Type.

  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 4/-5%
- Beam angle based on O Trim Type and CS Reflector Finish.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options



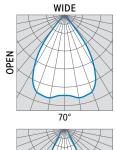
### **PHOTOMETRY**

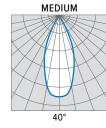
## 2DR-L15/9TW-DIM-UNV-OW-OF-CS Total Luminaire Output: 1540 lumens; 28.4 Watts | Efficacy: 54 lm/W | 90 CRI; 4000K CCT

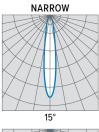


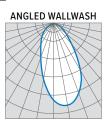
	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
	VERTICAL ANGLE	0°	ZUNAL LUMENS
ᇹ	0	1325	
5	5	1327	128
∥₩	15	1393	389
<u>S</u>	25	1259	549
CANDLEPOWER DISTRIBUTION	35	628	369
<u> </u>	45	85	76
굨	55	21	20
ᅙ	65	8	8
5	75	1	2
	85	0	0
	90	0	

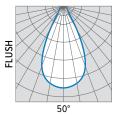
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
₹	0 - 40	1434	93
S	0 - 60	1530	99
뿔	0 - 90	1540	100
=	0-180	1540	100

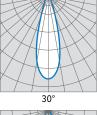


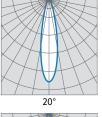


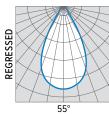


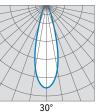


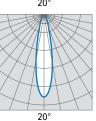












### **CONTROL DETAILS**

DIN	
DIM (Int) + DIM (CCT) + DIM -	Fixture 1







### **REFLECTOR FINISH DETAILS**

SPC SG	<b>PW</b>	<b>GD</b>	<b>CG</b>	<b>RG</b>	CS	<b>BL</b>
Clear specular Satin glo	w Pewter	Gold	Champagne gold	Rose gold	Clear semi-specular	Black



### **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		
EM/10W	10-watt emergency battery <sup>3</sup>	
EM/10W/RTS	I/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	

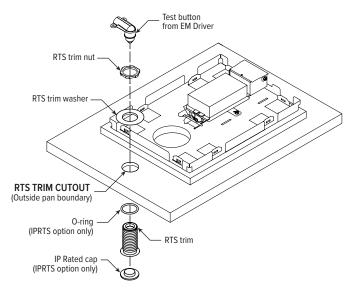
- Not available with WET/CC Option. N Mounting Type only. Top access required.
- N Mounting Type only. Top access required.
  Not available with L5 lumen package.
  Not available with L5 lumen package or WET/CC Option. N Mounting Type only. Top access required.

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

#### REGRESSED TEST SWITCH DETAILS

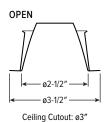


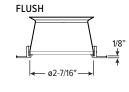
Shown Installed

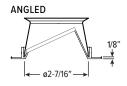


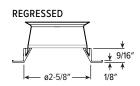
### TRIM TYPE DETAILS

### 1/2" STANDARD FLANGE TYPE





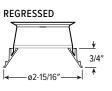


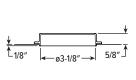


### **ZERO-FLANGE MUD-IN**

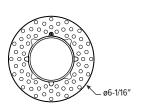
**FLUSH** ø2-15/16 ø3-1/16"







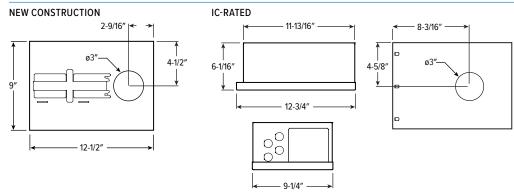
MUD FLANGE MOUNTING KIT



Ceiling Cutout: ø4"

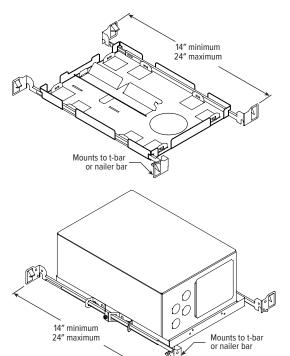


### **MOUNTING TYPE DETAILS**



## **MOUNTING HARDWARE DETAILS**

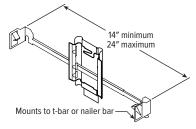
Integral 2-position fixed pan bracket, universal bar hanger included



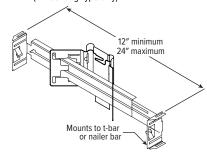
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



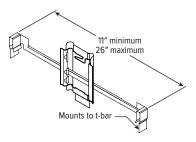
Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only)



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)



F1 with I Mounting Type