

PROJECT: \_\_\_\_\_



TrimLock®

ORDERING EXAMPLE: 4DR - TL - L24/9DW - OPTIONS - DIM1 - UNV - OW - OF - CS - TRIM OPTIONS - N - F1

HOUSING TRIM MOUNT.

SERIES	LUMENS <sup>[1]</sup>	COLOR	OPTIONS	CONTROL	VOLTAGE
<b>4DR - TL</b>	<b>L8</b> 800lm	<b>9DW</b> Dim to warm (95 CRI, 1800K – 3000K)	See page 3 for <i>EMERGENCY BATTERY OPTIONS</i> .	<b>DIM1</b> 1% dimming driver (0-10V signal to control dimming and CCT)	<b>UNV</b> 120-277V
TrimLock	<b>L15</b> 1,500lm		See page 3 for <i>APERTURE ADAPTOR ORDERING INFO</i> .	<b>LUT</b> Lutron Ecosystem enabled <sup>[5]</sup>	<b>347</b> 347V <sup>[6]</sup>
	<b>L24</b> 2,400lm		<b>SCA__</b> Sloped ceiling adapter <sup>[2]</sup>		
			<b>ATH</b> Airtight construction		
			<b>F</b> Fuse		
			<b>CP</b> Chicago plenum (CCEA) <sup>[3]</sup>		
			<b>SDT</b> Stepdown transformer <sup>[4]</sup>		

TRIM TYPE	DISTRIBUTION	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
<b>O</b> Open reflector	<i>See page 2 for BEAM ANGLE.</i>	<b>OF</b> 1/2" standard flange	<b>Open trim types</b>	<b>MWT</b> Smooth matte white trim flange <sup>[14]</sup>
<b>F</b> Open reflector with frosted top diffuser <sup>[8]</sup>		<b>SF</b> 1/4" mud-in flange <sup>[12]</sup>	<b>CS</b> Clear semi-specular anodize	<b>IP</b> IP65 rated trim <sup>[15]</sup>
<b>L</b> Flush lens	<b>W</b> Wide		<b>SG</b> Satin-glow anodize	<b>AD</b> Diffuse acrylic lens <sup>[16]</sup>
<b>R</b> Regressed lens	<b>M</b> Medium		<b>GD</b> Gold anodize	<b>PD</b> Diffuse 1/8" polycarbonate lens <sup>[17]</sup>
<b>A</b> Angled lens <sup>[9]</sup>	<b>N</b> Narrow		<b>CG</b> Champagne gold anodize	<b>WET/CC</b> Wet location, covered ceiling listed
<b>S</b> Non-conductive flush lens for shower applications <sup>[10]</sup>	<b>WW</b> Wall wash <sup>[11]</sup>		<b>PW</b> Pewter anodize	<b>AM</b> Anti-microbial <sup>[18]</sup>
			<b>SPC</b> Clear specular anodize	
			<b>RG</b> Rose gold anodize	
			<b>WH</b> White texture powder coat	
			<b>BL</b> Black texture powder coat	
			<b>Lens trim types</b>	
			<b>CS</b> Clear semi-specular powder coat	
			<b>WH</b> White texture powder coat	
			<b>BL</b> Black texture powder coat	
			<b>MB</b> Black texture splay with white flange <sup>[13]</sup>	

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

- <sup>1</sup> Lumen output based on full light output, O Trim Type, W Distribution and CS Reflector Finish, 95 CRI/3000K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- <sup>2</sup> 9" aperture, specify degrees of slope in 5° increments, 05°-30°. Not available with I Mounting Type, S Trim Type, ATH, IP, or WET/CC Options. Painted white. Other colors available, consult factory. See page 3 for SLOPED CEILING ADAPTOR DETAILS.
- <sup>3</sup> I Mounting Type required.
- <sup>4</sup> May be required for 347V, see product builder at [new.com/product-builder](http://new.com/product-builder).
- <sup>5</sup> Not available with I Mounting Type.
- <sup>6</sup> Not available with EM batteries.
- <sup>7</sup> Trim ships separately.
- <sup>8</sup> WET/CC standard unless ordered with EM/RTS or SCA Options.
- <sup>9</sup> Available with WW Distribution only.
- <sup>10</sup> W Distribution, OF Flange Type, WH Reflector Finish only. Standard with AD diffuse acrylic lens. IP and WET/CC Options standard.
- <sup>11</sup> O and A Trim Types only.
- <sup>12</sup> For use with mud-in plaster construction only, supplied with mud flange installation kit. See page 4 for FLANGE TYPE DETAILS. Not available with ATH or IP options.
- <sup>13</sup> R Trim Type only. Not available with MWT Trim Type.
- <sup>14</sup> Not available with WH Reflector Finish, L or S Trim Types.
- <sup>15</sup> L and R Trim Types only.
- <sup>16</sup> Not available with O or F Trim Types. W and WW Distributions only.
- <sup>17</sup> Not available with O or F Trim Types. W and WW Distributions only.
- <sup>18</sup> Not available with S Trim Type. WH and BL Reflector Finishes only.
- <sup>19</sup> Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 5 for MOUNTING TYPE DETAILS.
- <sup>20</sup> Additional mounting hardware options available. SEE PAGE 5 FOR MOUNTING HARDWARE DETAILS.
- <sup>21</sup> L8 and L15 lumen packages only. Not available with EM batteries.
- <sup>22</sup> Also used in new construction sheetrock ceilings. Pan-less installation.
- <sup>23</sup> N and I Mounting Types only. I Mounting requires external brackets.
- <sup>24</sup> N Mounting Type only.
- <sup>25</sup> N Mounting Type only.

# 4DR dim to **WARM** 4.5" Downlight – Round

## FEATURES

- Innovative TrimLock reflector retention system ensures trim remains flush with ceiling plane
- Mimic the comfortable, welcoming glow of incandescent with warm-dimming technology
- 4 inch aperture is unobtrusive in small scale spaces
- Die-cast trim choices include flush, regressed or angled lens
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Fully room-side accessible
- New construction mounting pan, IC-rated, or pan-less remodel kit available
- Sloped adapter accommodates vaulted ceilings
- Open reflector with nine finishes complements any interior
- Optional non-conductive lens for shower applications
- IP65-rated die-cast trim includes easy-to-clean flush lens
- 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" – 2-1/4".
- TRIMLOCK** – Innovative TrimLock reflector retention system ensures the trim remains flush with the ceiling plane.
- OPEN REFLECTOR** – Low-iridescent anodized aluminum. Clear semi-specular finish standard.
- LENSED TRIM** – Die-cast aluminum frame with micro-prismatic, acrylic lens.
- 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.
- MOUNTING** – Recessed. 20 ga. galvanized steel mounting pan for new construction or IC-rated enclosure. Remodel kit option includes receiver bracket hardware.

## 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 or F trim type.
- IC-rated for direct contact with insulation when specified with I Mounting Type.
- City of Chicago Environmental Air approved when specified with CP option.
- IP65 rated trim when specified with IP 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](http://hew.com/buy-american)
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty)

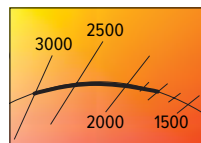
## FIXTURE PERFORMANCE DATA

					OPEN REFLECTOR		FLUSH LENS		REGRESSED LENS		
CCT AT 100% (FULL OUTPUT)		CCT AT 1% (FULL DIM)		DIST.	WATTAGE	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
L8	3000K	1800K	W	14.0	862	62	670	48	678	48	
			M	14.0	830	59	760	54	763	55	
			N	14.0	800	57	765	55	769	55	
L15			W	23.4	1511	65	1175	50	1188	51	
			M	23.4	1455	62	1333	57	1337	57	
			N	23.4	1402	60	1242	53	1348	58	
L24			W	37.7	2228	59	1925	51	1945	52	
			M	37.7	2226	59	1995	53	1997	53	
			N	37.7	2228	59	2197	58	2208	59	

<sup>1</sup> Distribution will also be affected, consult factory.

<sup>2</sup> Beam angle based on CS or WH Reflector Finish.

- Photometrics tested in accordance with IESNA LM-79. Results based on full light output, O Trim Type, W Distribution and CS Reflector Finish, 95 CRI/3000K CCT, average wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/-5%
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier table to calculate additional options.



## MULTIPLIER TABLES

	REFLECTOR FINISH	
	CATALOG NUMBER	CONVERSION FACTOR
O TRIM	CS	1.00
	SG <sup>(1)</sup>	0.92
	GD	0.93
	CG	0.96
	PW	0.86
	SPC	1.02
	RG	0.88
	WH <sup>(1)</sup>	0.89
R TRIM	BL <sup>(1)</sup>	0.47
	WH	1.00
	CS	0.98
	BL	0.79

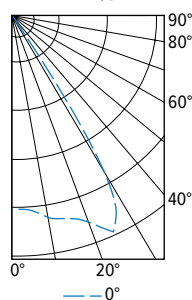
TRIM OPTIONS	
CATALOG NUMBER	CONVERSION FACTOR
F	0.75
S	0.85
AD	0.85
PD	0.85
WET/CC	0.85

## BEAM ANGLE

	TRIM TYPE <sup>(2)</sup>			
	O	F	L	R
W	65°	60°	50°	50°
M	45°	50°	35°	30°
N	10°	25°	25°	25°

## PHOTOMETRY

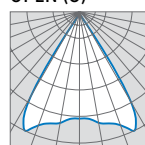
4DR-TL-L24/9DW-DIM1-UNV-OW-OF-CS Total Luminaire Output: 2228 lumens; 37.7 Watts | Efficacy: 59 lm/W | 95.0 CRI; 3000K CCT



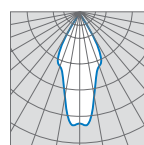
	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
CANDLEPOWER DISTRIBUTION	0	2011	
	5	2071	198
	15	2178	617
	25	2479	1147
	35	341	215
	45	49	38
	55	12	11
	65	1	1
	75	0	0
	85	0	0
	90	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2176	98
	0 - 60	2226	100
	0 - 90	2228	100
	0-180	2228	100

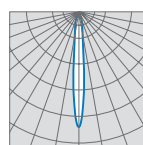
## OPEN (O)



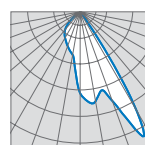
65° Wide



45° Medium

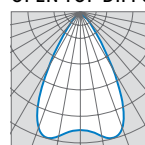


10° Narrow

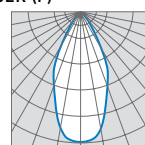


Wall Wash

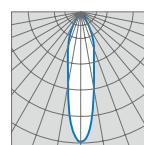
## OPEN TOP DIFFUSER (F)



60° Wide

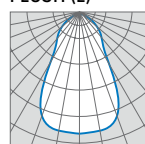


50° Medium

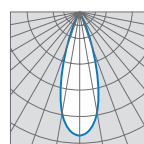


25° Narrow

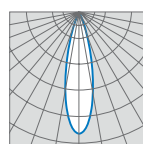
## FLUSH (L)



50° Wide

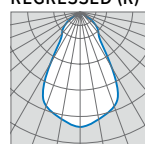


35° Medium

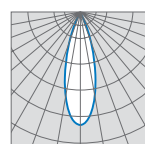


25° Narrow

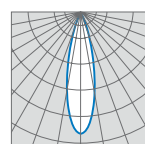
## REGRESSED (R)



50° Wide

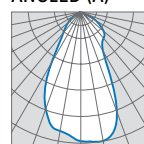


30° Medium



25° Narrow

## ANGLED (A)



Wall Wash



# 4DR dim to **WARM** 4.5" Downlight – Round

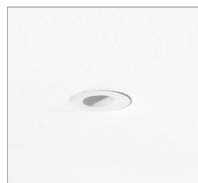
## EMERGENCY BATTERY OPTIONS

Additional limitations apply, see page 1. Specify CEC in the option code when California Energy Commission regulations are required.

CATALOG NUMBER	DESCRIPTION
EM/7W	7-watt emergency battery <sup>[1]</sup>
EM/7W/RTS	7-watt emergency battery with regressed test switch <sup>[2]</sup>
EM/7W/IPRTS	7-watt emergency battery with IP65 rated regressed test switch <sup>[3]</sup>
EM/10W	10-watt emergency battery <sup>[1]</sup>
EM/10W/RTS	10-watt emergency battery with regressed test switch <sup>[2]</sup>
EM/10W/IPRTS	10-watt emergency battery with IP65 rated regressed test switch <sup>[3]</sup>

- <sup>1</sup> Not available with S Trim Type or IP Trim Option.  
<sup>2</sup> Not available with S Trim Type, IP or WET/CC Trim Options.  
<sup>3</sup> Must specify IP Trim Option.

## MOUNTING DETAILS

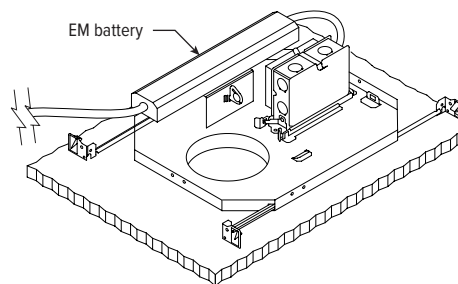
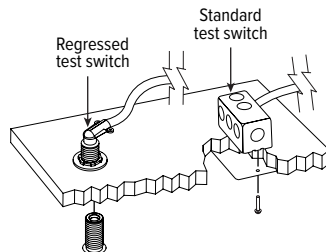


Regressed test switch  
ø1-3/4"



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

Max remote distance is 50',  
connection by others.



## APERTURE ADAPTOR ORDERING INFO

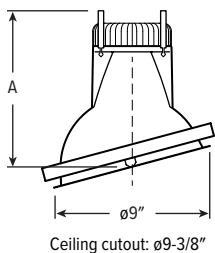
ORDERING EXAMPLE: 4DR - GR - 0575 - WHT			
SERIES	CATALOG NUMBER	CEILING CUTOUT	FINISH
4AR 6AR	GR	Specify ceiling cutout in 1/8" increments. Example: 5.75" = <b>0575</b> See Kit Components for application limits.	CS Clear semi-specular powder coat
4DR 6DR			WH White texture powder coat
4DS 6DS			BL Black texture powder coat
4PR 6PR			
4PS 6PS			
8DR			

Adaptor (goof ring) corrects ceiling cutout errors during remodel downlight installation.

Additional finishes available, consult factory.

For limitations and instructions, see [hew.com/aperture-adaptor.pdf](http://hew.com/aperture-adaptor.pdf)

## SLOPED CEILING ADAPTOR DETAILS



A (HEIGHT)						PLENUM HEIGHT
5°	10°	15°	20°	25°	30°	
8-13/16"	8-15/16"	9"	8-15/16"	8-7/8"	8-11/16"	9-1/4"

15° Shown

## TRIMLOCK DETAILS

### TWIST



### PULL



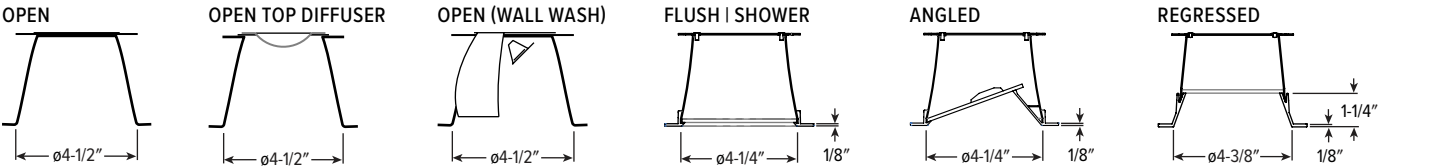
### RELEASE



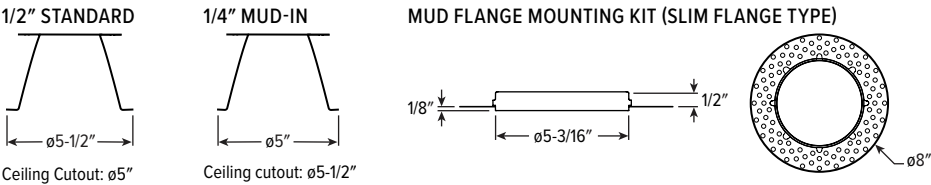
4DR

dim to **WARM**  
4.5" Downlight – Round

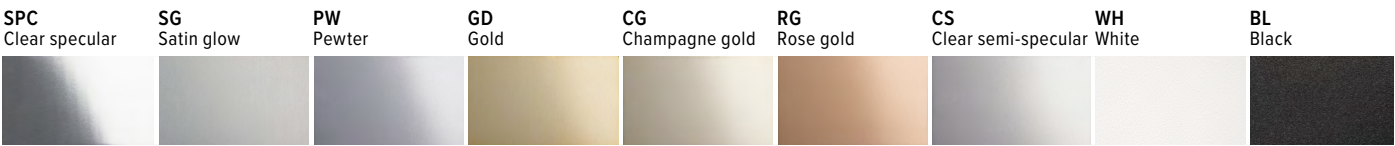
TRIM TYPE DETAILS



FLANGE TYPE DETAILS



REFLECTOR FINISH DETAILS

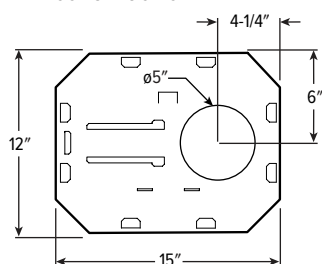


SEE NEXT PAGE FOR MOUNTING DETAILS

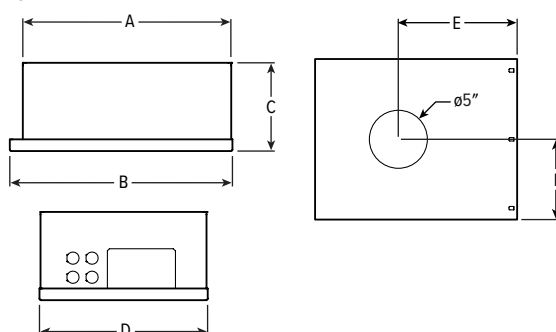
# 4DR dim to WARM 4.5" Downlight – Round

## MOUNTING TYPE DETAILS

### NEW CONSTRUCTION

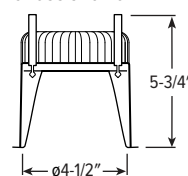


### IC-RATED

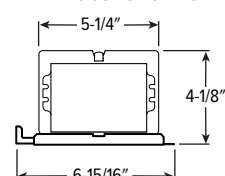


	LENGTH					
LUMENS	A	B	C	D	E	F
L8	15-3/16"	16"	6-3/8"	12-1/8"	9-1/2"	6-1/16"
L15	16-5/8"	17-1/2"	7-7/8"	14"	10-1/4"	7"

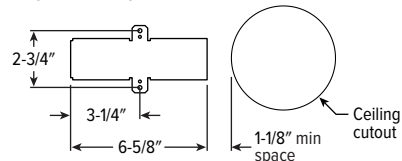
### REMODEL CROSS SECTION



### DRIVER & JUNCTION BOX

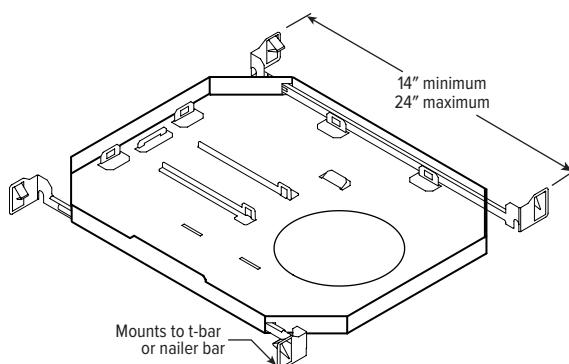


### RECEIVER BRACKET

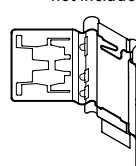


## MOUNTING HARDWARE DETAILS

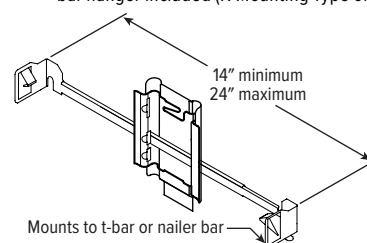
### F1 Integral 2-position fixed pan bracket, universal bar hanger included



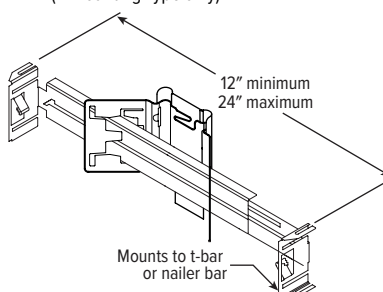
### BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



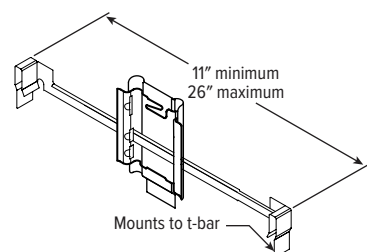
### CA1 Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only)



### 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)



### F1 with I Mounting Type

