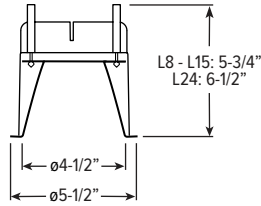


# 4DR dim to WARM

## 4.5" Downlight – Round



CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

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

### NEW CONSTRUCTION AND REMODEL

#### FEATURES

### TrimLock™

- Williams TrimLock reflector retention system eliminates trim sag
- Dim to warm from 1800K to 3000K CCT, minimum 95 CRI
- 4 inch aperture is unobtrusive in small scale spaces
- Die cast trim choices include flush, regressed or angled lens
- Fully room-side accessible

#### 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 adjust for ceiling thickness from 1/2" - 1-7/16" (see options for additional ceiling thicknesses).
- 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, tempered glass lens.
- ELECTRICAL** – Five color, mid-power LED modules. On board thermal and optical feedback ensure color consistency of <2 step MacAdam ellipse (SDCM). In-line spectral capture and storage results in consistent CRI and CCT across all arrays. 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 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](http://hew.com/warranty).

ORDERING EXAMPLE:<sup>(1)</sup> 4DR - TL - L24/9DW - OPTIONS - DIM - UNV - OW - OF - CS - TRIM OPTIONS - N - F1  
 HOUSING TRIM MOUNT.

#### HOUSING

SERIES	LUMENS <sup>(2)</sup>	COLOR	OPTIONS	CONTROL	VOLTAGE
4DR - TL	L8 800lm	9DW Dim to warm	SCA__ Sloped ceiling adapter <sup>(3)</sup>	DIM Dimming driver, 0-10V	UNV 120-277V
TrimLock	L15 1,500lm	(95 CRI, 1800K – 3000K)	ATH Airtight construction	LUT Lutron Ecosystem enabled	347 347V <sup>(4)</sup>
	L24 2,400lm		F Fuse		
			EM/10W 10-watt emergency battery <sup>(5)</sup>		
			EM/10W/ITS 10-watt emergency battery with integral test switch <sup>(6)</sup>		
			CP Chicago plenum (CCEA) <sup>(7)</sup>		
			SDT Stepdown transformer <sup>(8)</sup>		
			TC Adjustable mounting arms for 1-1/2" – 2-1/4" thick ceilings		

#### TRIM

TRIM TYPE	DISTRIBUTION <sup>(9)</sup>	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
O Open reflector	W Wide	OF 1/2" standard flange	Open trim types	MWT Textured white trim flange <sup>(14)</sup>
L Flush lens	65° Open		CS Clear semi-specular anodize	MB Regressed lens trim with texture black splay and white flange <sup>(15)</sup>
R Regressed lens	50° Flush	SF 1/4" mud-in flange <sup>(13)</sup>	SG Satin-glow anodize	IP IP65 rated trim <sup>(16)</sup>
A Angled lens <sup>(10)</sup>	50° Regressed		GD Gold anodize	AD Diffuse acrylic lens <sup>(17)</sup>
S Non-conductive flush lens for shower applications <sup>(11)</sup>	M Medium		CG Champagne gold anodize	WET/CC Wet location, covered ceiling listed <sup>(18)</sup>
	45° Open		PW Pewter anodize	
	35° Flush		SPC Clear specular anodize	
	30° Regressed		RG Rose gold anodize	
	N Narrow		WH White texture powder coat	
	10° Open		BL Black texture powder coat	
	25° Flush			
	25° Regressed			
	WW Wall wash <sup>(12)</sup>			
			<b>Lens trim types</b>	
			WH White texture powder coat	
			BL Black texture powder coat	

#### MOUNTING

MOUNTING TYPE <sup>(19)</sup>	MOUNTING HARDWARE <sup>(20)</sup>
N Open pan for new construction	F1 2-Position fixed pan bracket, universal bar hanger included
I IC-rated enclosure for new construction <sup>(21)</sup>	F2 2-Position fixed pan bracket, t-bar bar hanger included
R Remodel kit <sup>(22)</sup>	BA1 Adjustable butterfly pan bracket, bar hanger not included <sup>(23)</sup>
	BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included <sup>(24)</sup>
	CA1 Adjustable caterpillar pan bracket, universal bar hanger included
	CA2 Adjustable caterpillar pan bracket, t-bar hanger included

#### NOTES

- Housing, trim, and mounting ship separately.
- Lumen output based on full light output, O trim type, W distribution and CS finish, 3500K/95CRI. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- 9" aperture, specify degree of slope in 5° increments, 05°-30°, see page 4 for SLOPED CEILING ADAPTOR DETAILS. N Mounting Type only.
- Not available with EM batteries
- N Mounting Type only.
- Not available with WET/CC. N Mounting Type and O Trim Type only, requires alternate construction and trim retention, see page 4 for MOUNTING TYPE DETAILS.
- I Mounting Type required.
- May be required for 347V, see product builder at [hew.com](http://hew.com).
- Beam angle based on CS or WH reflector finish.
- Available with WW Distribution only.
- W Distribution, OF Flange Type, WH Reflector Finish only. Only available with AD diffuse acrylic lens, standard. IP and WET/CC options standard.
- O and A Trim Types only.
- For use with mud-in plaster construction only, supplied with mud flange installation kit, see page 4 for FLANGE TYPE DETAILS, not available with CP, ATH or IP options.
- O Trim Type and OF Flange Type only. Not available with WH Reflector Finish.
- R Trim Type only
- L and R Trim Types only
- L and R Trim Types only. Wide distribution only.
- WET/CC option reduces lumen output, consult factory.
- Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- Specify for N and I Mounting Types only. See page 5 for MOUNTING HARDWARE DETAILS.
- L15 lumen package max.
- Also used in new construction sheetrock ceilings.
- N Mounting Type only.
- N Mounting Type only.

# 4DR dim to WARM

## 4.5" Downlight – Round

### FIXTURE PERFORMANCE DATA

#### OPEN REFLECTOR TRIM TYPE

LED PACKAGE	DISTRIBUTION	DELIVERED LUMENS	CCT AT 100% (FULL OUTPUT)	CCT AT 1% (FULL DIM)	WATTAGE	EFFICACY (lm/W)
L8	W	862	3000K	1800K	14.0	61.6
	M	830			14.0	59.3
	N	800			14.0	57.1
L15	W	1511			23.4	64.6
	M	1455			23.4	62.3
	N	1402			23.4	60.0
L24	W	2218			37.7	58.8
	M	2226			37.7	59.0
	N	2228			37.7	59.1

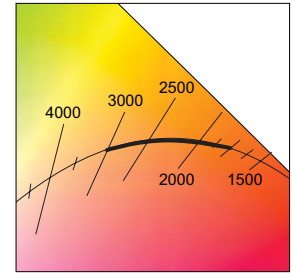
#### FLUSH LENS TRIM TYPE

LED PACKAGE	DISTRIBUTION	DELIVERED LUMENS	CCT AT 100% (FULL OUTPUT)	CCT AT 1% (FULL DIM)	WATTAGE	EFFICACY (lm/W)
L8	W	670	3000K	1800K	14.0	47.9
	M	760			14.0	54.3
	N	765			14.0	54.7
L15	W	1175			23.4	50.3
	M	1333			23.4	57.0
	N	1242			23.4	57.4
L24	W	1925			37.7	51.1
	M	1995			37.7	52.9
	N	2197			37.7	58.3

#### REGRESSED LENS TRIM TYPE

LED PACKAGE	DISTRIBUTION	DELIVERED LUMENS	CCT AT 100% (FULL OUTPUT)	CCT AT 1% (FULL DIM)	WATTAGE	EFFICACY (lm/W)
L8	W	678	3000K	1800K	14.0	48.4
	M	763			14.0	54.5
	N	769			14.0	54.9
L15	W	1188			23.4	50.8
	M	1337			23.4	57.2
	N	1348			23.4	57.7
L24	W	1945			37.7	51.6
	M	1997			37.7	52.9
	N	2208			37.7	58.6

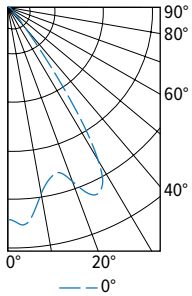
OPEN REFLECTOR FINISH		
CATALOG NUMBER	REFLECTOR FINISH	CONVERSION FACTOR
CS	Clear semi-specular	1.00
SG	Satin-glow	0.92
GD	Gold	0.93
CG	Champagne Gold	0.96
PW	Pewter	0.86
SPC	Specular	1.02
RG	Rose Gold	0.88
WH	White, textured	0.89
BL	Black, textured	0.79



- 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, 95 CRI, full output, actual lumens may vary +/-5%
- Use multiplier table to calculate additional options.

### PHOTOMETRY

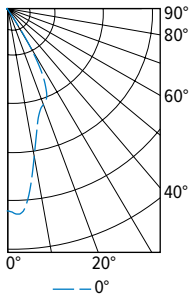
4DR-TL-L24/9DW-DIM-UNV-OW-OF-CS Total Luminaire Output: 2218 lumens; 37.7 Watts | Efficacy: 58.8 lm/W | 95.0 CRI; 3604K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	2409	
	5	2435	219
	15	1942	572
	25	2281	994
	35	418	358
	45	63	52
	55	19	18
	65	5	5
	75	1	1
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2142	97
	0 - 60	2211	100
	0 - 90	2218	100
	0-180	2218	100

4DR-TL-L24/9DW-DIM-UNV-OM-OF-CS Total Luminaire Output: 2226 lumens; 37.7 Watts | Efficacy: 59.0 lm/W | 95.0 CRI; 3600K CCT



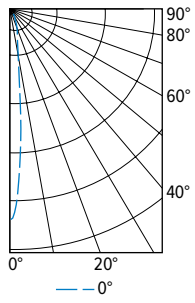
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	4505	
	5	4458	386
	15	2571	737
	25	1990	860
	35	175	199
	45	40	32
	55	9	9
	65	2	3
	75	1	1
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	2182	98
	0-60	2223	99
	0-90	2226	100
	0-180	2226	100



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

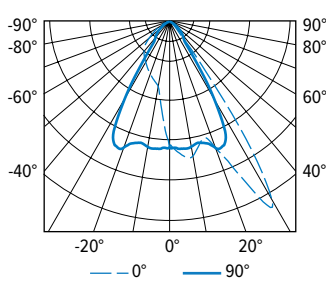
4DR-TL-L24/9DW-DIM-UNV-ON-OF-CS Total Luminaire Output: 2228 lumens; 37.7 Watts | Efficacy: 59.1lm/W | 95.0 CRI; 3587K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	23697	
	5	11887	864
	15	2638	738
	25	1014	496
	35	99	118
	45	11	9
	55	2	3
	65	1	1
	75	0	0
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	2216	99
	0-60	2227	100
	0-90	2228	100
	0-180	2228	100

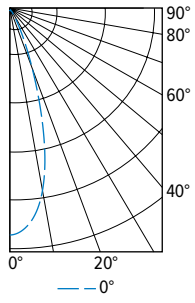
4DR-TL-L24/9DW-DIM-UNV-OWW-OF-CS Total Luminaire Output: 1258 lumens; 37.7 Watts | Efficacy: 33.4 lm/W | 95.0 CRI; 3596K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
		0°	45°	90°	135°	180°	
	0	1152	1152	1152	1152	1152	
	5	1229	1175	1171	896	792	98
	15	1112	1104	1153	492	543	247
	25	1724	1283	1145	405	454	406
	35	482	287	248	339	378	221
	45	74	69	151	269	290	129
	55	33	31	78	159	160	84
	65	23	20	33	82	84	48
	75	8	5	13	40	38	22
	85	0	0	2	6	0	3
	90	0	0	0	0	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	973	77
	0 - 60	1185	94
	0 - 90	1258	100
	0 - 180	1258	100

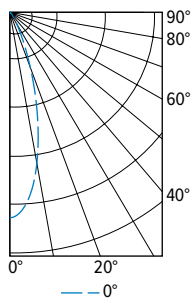
4DR-TL-L24/9DW-DIM-UNV-LM-OF-WH Total Luminaire Output: 1995 lumens; 37.7 Watts | Efficacy: 52.9 lm/W | 95.0 CRI; 3549K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	5162	
	5	4941	451
	15	3032	811
	25	820	395
	35	214	143
	45	98	77
	55	62	56
	65	38	38
	75	19	20
	85	4	5
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	1800	90
	0-60	1932	97
	0-90	1995	100
	0-180	1995	100

4DR-TL-L24/9DW-DIM-UNV-RM-OF-WH Total Luminaire Output: 1997 lumens; 37.7 Watts | Efficacy: 52.9 lm/W | 95.0 CRI; 3546K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	5756	
	5	5364	479
	15	2980	809
	25	874	418
	35	216	143
	45	83	66
	55	47	42
	65	25	25
	75	10	11
	85	3	3
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	1849	93
	0-60	1958	98
	0-90	1997	100
	0-180	1997	100

## TRIMLOCK DETAILS

**TWIST**



**PULL**



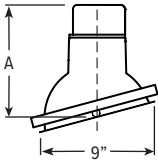
**RELEASE**



# 4DR dim to WARM

## 4.5" Downlight – Round

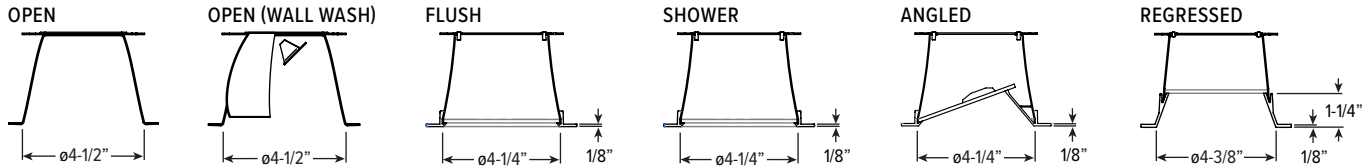
### SLOPED CEILING ADAPTOR DETAILS



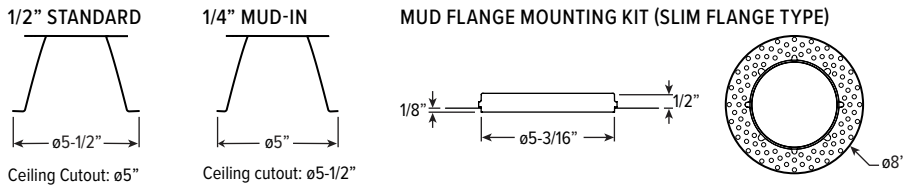
LUMENS	A (HEIGHT)						PLENUM HEIGHT
	5°	10°	15°	20°	25°	30°	
L8 - L15	8-13/16"	8-15/16"	9"	8-15/16"	8-7/8"	8-11/16"	9-1/4"
L24	9-9/16"	9-11/16"	9-11/16"	9-5/8"	9-1/2"	9-5/16"	10"

15° Shown

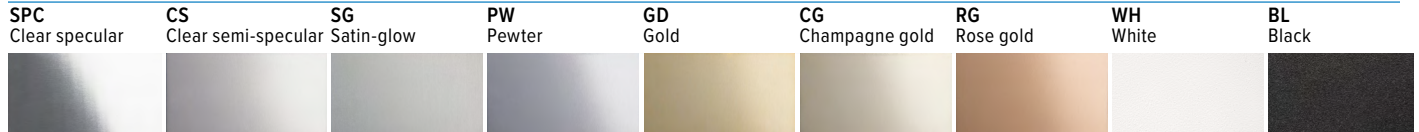
### TRIM TYPE DETAILS



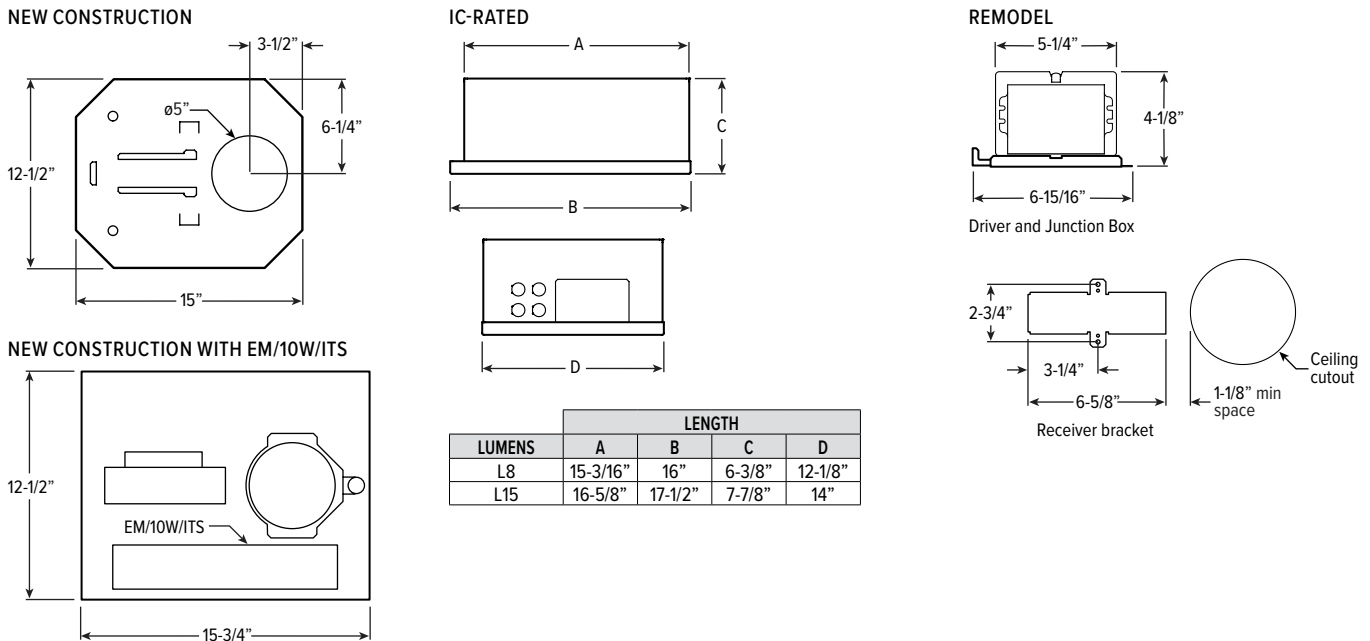
### FLANGE TYPE DETAILS



### REFLECTOR FINISH DETAILS



### MOUNTING TYPE DETAILS

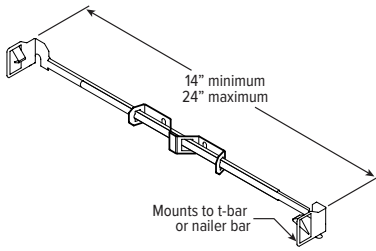


# 4DR dim to WARM

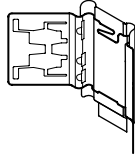
## 4.5" Downlight – Round

### MOUNTING HARDWARE DETAILS

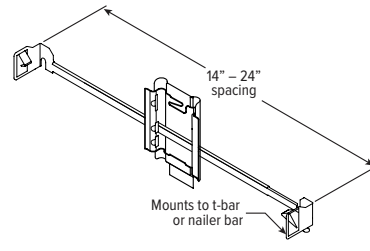
**F1** 2-Position fixed pan bracket, universal bar hanger included



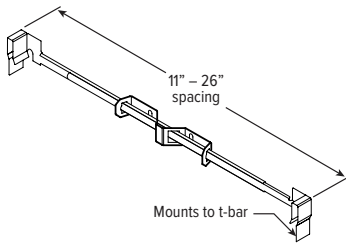
**BA1** Adjustable butterfly pan bracket, bar hanger not included



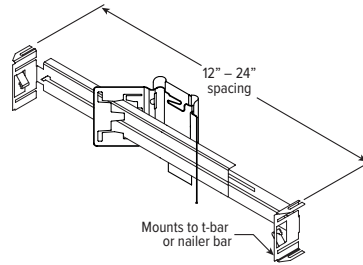
**CA1** Adjustable caterpillar pan bracket, universal bar hanger included



**F2** 2-Position fixed pan bracket, t-bar bar hanger included



**BA2** Adjustable butterfly pan bracket, heavy-duty universal bar hanger included



**CA2** Adjustable caterpillar pan bracket, t-bar hanger included

