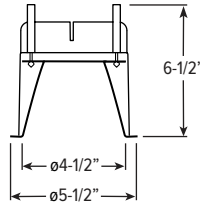


# 4DR tunable COLOR 4.5" Downlight – Round



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

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

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

## FEATURES

- Tunable color, including white tuning, from 1650K to 8000K, minimum 90 CRI
- Beam angles ranging from 10° narrow to 65° wide for tailored performance
- 4 inch aperture is unobtrusive in small scale spaces
- Open reflector with 9 finishes to complement any interior style
- 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

## 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" (consult factory for additional ceiling thicknesses).
- **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) and reported L70>50,000 hours. In-line spectral capture and storage results in consistent CRI and CCT across all arrays.
- **MOUNTING** – Recessed. 20 ga. galvanized steel mounting pan for new construction.
- **LISTINGS** –
  - cCSAus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0 for damp locations.
  - Suitable for wet location under covered ceiling when specified with WET/CC or TD options.
  - RoHS compliant.
- **WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

**ORDERING EXAMPLE:**<sup>[1]</sup> 4DR - L21/9TC - OPTIONS - DIM - 120 - OW - OF - CS - TRIM OPTIONS - N - F1  
HOUSING TRIM MOUNT.

## HOUSING

SERIES	LUMENS <sup>[2]</sup>	COLOR	OPTIONS	CONTROL	VOLTAGE	
4DR	L13	1,300lm	9TC Tunable color (90 CRI, 1650K-8000K)	F Fuse kit	BTL Bluetooth LE enabled	120 120V
	L21	2,100lm		SDT Stepdown transformer <sup>[3]</sup>	DALI DALI Type 8 enabled	
				DIM (1) 0-10V signal to control dimming (1) 0-10V signal to control CCT (will only control white light CCT range, will not have pure color output)	347 347V	
				DMX DMX enabled		
				LUT Lutron Ecosystem enabled		
				WS Wattstopper DLM enabled		

## TRIM

TRIM TYPE	DISTRIBUTION <sup>[4]</sup>	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
O Open reflector	W Wide	OF 1/2" standard flange	<b>Open trim types</b>	MWT Textured white trim flange <sup>[11]</sup>
L Flush lens <sup>[5]</sup>	65° Open	SF 1/4" mud-in flange <sup>[10]</sup>	CS Clear semi-specular anodize	MB Regressed lens trim with texture black splay and white flange <sup>[12]</sup>
R Regressed lens <sup>[6]</sup>	50° Flush		SG Satin-glow anodize	IP IP65 rated trim <sup>[13]</sup>
A Angled lens <sup>[7]</sup>	50°		GD Gold anodize	AD Diffuse acrylic lens <sup>[14]</sup>
S Non-conductive flush lens for shower applications <sup>[8]</sup>	Regressed		CG Champagne gold anodize	PD Diffuse 1/8" polycarbonate lens <sup>[15]</sup>
	M Medium		PW Pewter anodize	TD Diffuse polycarbonate lens media at top of open reflector <sup>[16]</sup>
	45° Open		SPC Clear specular anodize	WET/CC Wet location, covered ceiling listed <sup>[17]</sup>
	N Narrow		RG Rose gold anodize	
	10° Open		WH White texture powder coat	
	WW Wall wash <sup>[9]</sup>		BL Black texture powder coat	
			<b>Lens trim types</b>	
			CS Clear semi-specular powder coat	
			WH White texture powder coat	
			BL Black texture powder coat	

## MOUNTING

### MOUNTING TYPE<sup>[18]</sup>

N Open pan for new construction

### MOUNTING HARDWARE<sup>[19]</sup>

- F1 2-Position fixed pan bracket, universal bar hanger included
- F2 2-Position fixed pan bracket, t-bar bar hanger included
- BA1 Adjustable butterfly pan bracket, bar hanger not included
- BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included
- CA1 Adjustable caterpillar pan bracket, universal bar hanger included
- CA2 Adjustable caterpillar pan bracket, t-bar hanger included

## NOTES

- <sup>1</sup> Housing, trim, and mounting ship separately.
- <sup>2</sup> Lumen output based on O trim type, W distribution and CS finish, 4000K/90CRI. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- <sup>3</sup> May be required for 347V, see product builder at [hew.com](http://hew.com).
- <sup>4</sup> Beam angle based on CS reflector finish.
- <sup>5</sup> Available with W Distribution only.
- <sup>6</sup> Available with W Distribution only.
- <sup>7</sup> Available with WW Distribution only.
- <sup>8</sup> W Distribution, OF Flange Type, WH Reflector Finish only. Only available with AD diffuse acrylic lens, standard. IP and WET/CC options standard.
- <sup>9</sup> O and A Trim Types only.

- <sup>10</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 IP option.
- <sup>11</sup> O Trim Type and OF Flange Type only. Not available with WH Reflector Finish.
- <sup>12</sup> R Trim Type only.
- <sup>13</sup> L and R Trim Types only.
- <sup>14</sup> L and R Trim Types only. Wide distribution only.
- <sup>15</sup> L and R Trim Types only. Wide distribution only.
- <sup>16</sup> O Trim Type only. WET/CC standard.
- <sup>17</sup> WET/CC option reduces lumen output, use .85 multiplier.
- <sup>18</sup> Mounting hardware required, ordered separately, see MOUNTING HARDWARE ordering info. See page 5 for MOUNTING TYPE DETAILS.
- <sup>19</sup> See page 5 for MOUNTING HARDWARE DETAILS.



# 4DR tunable COLOR 4.5" Downlight – Round

## FIXTURE PERFORMANCE DATA

### OPEN REFLECTOR TRIM TYPE

LED PACKAGE	COLOR	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L13	4000K	W	1391	24.0	58.0
	RED		147	4.1	35.9
	BLUE		66	6.9	9.6
	GREEN	M	470	10.8	43.5
	4000K		1336	24.0	55.7
	RED		141	4.1	34.4
	BLUE		63	6.9	9.1
	GREEN		452	10.8	41.9
	4000K		1274	24.0	53.1
	RED	N	135	4.1	32.9
	BLUE		60	6.9	8.7
	GREEN		431	10.8	39.9
L21	4000K	W	2068	40.1	51.6
	RED		225	6.8	33.1
	BLUE		101	11.5	8.8
	GREEN	M	719	18.0	39.9
	4000K		2076	40.1	51.8
	RED		216	6.8	31.8
	BLUE		97	11.5	8.4
	GREEN		691	18.0	38.4
	4000K		2078	40.1	51.8
	RED	N	206	6.8	30.3
	BLUE		92	11.5	8.0
	GREEN		656	18.0	36.4

### FLUSH LENS TRIM TYPE

LED PACKAGE	COLOR	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L13	4000K	W	1082	24.0	45.1
	RED		114	4.1	27.8
	BLUE		51	6.9	7.4
	GREEN		366	10.8	33.9
L21	4000K	W	1402	40.1	34.9
	RED		175	6.8	25.7
	BLUE		78	11.5	6.8
	GREEN		560	18.0	31.1

### REGRESSED LENS TRIM TYPE

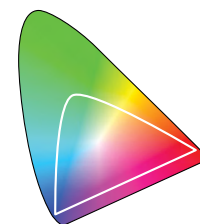
LED PACKAGE	COLOR	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L13	4000K	W	1094	24.0	45.6
	RED		116	4.1	28.3
	BLUE		52	6.9	7.5
	GREEN		370	10.8	34.3
L21	4000K	W	1372	40.1	34.2
	RED		177	6.8	26.0
	BLUE		79	11.5	6.9
	GREEN		565	18.0	31.4

### WHITE CONVERSION FACTOR

CCT	LUMENS	WATTS
2000K	0.46	0.45
2700K	0.74	0.63
3000K	0.85	0.74
3500K	0.94	0.87
4000K	1.00	1.00
5000K	0.94	0.97
6000K	0.86	0.96
8000K	0.70	0.81

### OPEN REFLECTOR FINISH

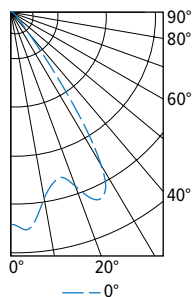
CATALOG NUMBER	REFLECTOR FINISH	CONVERSION FACTOR
CS	Clear semi-specular	1.00
SG	Satin-glow	0.92
GD	Gold	0.93
CG	Champagne Gold	0.96
PW	Pewter	0.86
SPC	Specular	1.02
RG	Rose Gold	0.88
WH	White, textured	0.89
BL	Black, textured	0.79



- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is based on 120V input.
- Actual lumens may vary +/-5%
- Use multiplier tables to calculate additional options.

## PHOTOMETRY

4DR-TL-L21/9TC-DIM-120-OW-OF-CS Total Luminaire Output: 2068 lumens; 40.1 Watts | Efficacy: 51.6 lm/W | 97.6 CRI; 3604K CCT



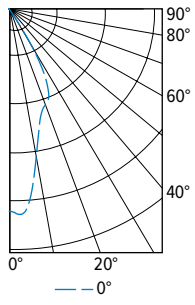
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	2246	
	5	2271	204
	15	1811	533
	25	2127	927
	35	390	333
	45	59	48
	55	18	17
	65	5	5
	75	1	1
	85	0	0
	90	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1997	97
	0 - 60	2062	100
	0 - 90	2068	100
	0-180	2068	100



# 4DR tunable **COLOR** 4.5" Downlight – Round

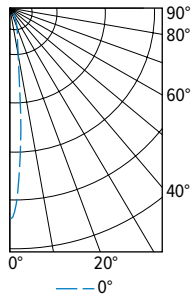
**4DR-TL-L21/9TC-DIM-120-OM-OF-CS** Total Luminaire Output: 2076 lumens; 40.1 Watts | Efficacy: 51.8 lm/W | 97.6 CRI; 3600K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	4201	
	5	4157	360
	15	2398	687
	25	1856	802
	35	163	185
	45	37	29
	55	9	9
	65	2	2
	75	1	1
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	2035	98
	0-60	2073	100
	0-90	2076	100
	0-180	2076	100

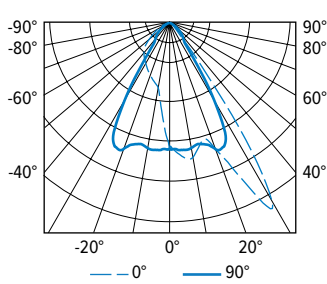
**4DR-TL-L21/9TC-DIM-120-ON-OF-CS** Total Luminaire Output: 2078 lumens; 40.1 Watts | Efficacy: 51.8 lm/W | 97.6 CRI; 3587K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	22098	
	5	11086	806
	15	2460	688
	25	946	462
	35	92	110
	45	10	8
	55	2	2
	65	1	1
	75	0	0
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	2067	99
	0-60	2077	100
	0-90	2078	100
	0-180	2078	100

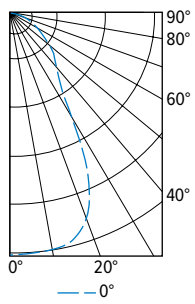
**4DR-TL-L21/9TC-DIM-120-OWW-OF-CS** Total Luminaire Output: 1173 lumens; 40.1 Watts | Efficacy: 29.3 lm/W | 97.6 CRI; 3596K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
		0°	45°	90°	135°	180°	
	0	1074	1074	1074	1074	1074	
	5	1146	1096	1092	835	739	92
	15	1037	1030	1075	459	506	230
	25	1607	1197	1068	378	424	379
	35	450	268	231	316	352	206
	45	69	64	141	251	271	120
	55	31	29	72	148	150	78
	65	22	18	31	77	78	45
	75	7	5	12	37	35	21
	85	0	0	1	5	0	3
	90	0	0	0	0	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	907	77
	0 - 60	1105	94
	0 - 90	1173	100
	0 - 180	1173	100

**4DR-TL-L21/9TC-DIM-120-LW-OF-WH** Total Luminaire Output: 1402 lumens; 40.1 Watts | Efficacy: 34.9 lm/W | 97.6 CRI; 3549K CCT



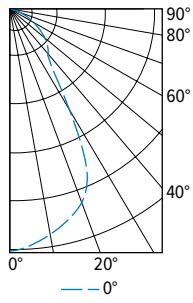
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	985	
	5	978	93
	15	959	268
	25	748	332
	35	348	226
	45	250	193
	55	167	149
	65	90	90
	75	38	41
	85	7	9
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	920	66
	0-60	1262	90
	0-90	1402	100
	0-180	1402	100



# 4DR tunable COLOR 4.5" Downlight – Round

4DR-TL-L21/9TC-DIM-120-RW-OF-WH Total Luminaire Output: 1372 lumens; 40.1 Watts | Efficacy: 34.2 lm/W | 97.6 CRI; 3546K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0		1102
	5		1078
	15		994
	25		811
	35		325
	45		231
	55		151
	65		72
	75		25
	85		4
	90		0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	956	70
	0-60	1268	92
	0-90	1372	100
	0-180	1372	100

## TRIMLOCK DETAILS

**TWIST**



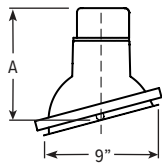
**PULL**



**RELEASE**



## SLOPED CEILING ADAPTOR DETAILS

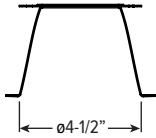


A (HEIGHT)						PLENUM HEIGHT
5°	10°	15°	20°	25°	30°	
9-9/16"	9-11/16"	9-11/16"	9-5/8"	9-1/2"	9-5/16"	10"

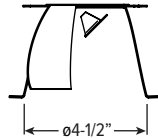
15° Shown

## TRIM TYPE DETAILS

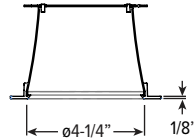
**OPEN**



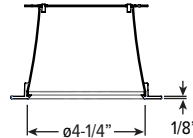
**OPEN (WALL WASH)**



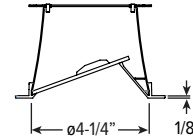
**FLUSH**



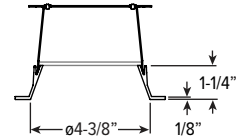
**SHOWER**



**ANGLED**

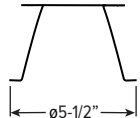


**REGRESSED**



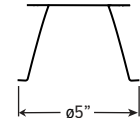
## FLANGE TYPE DETAILS

**1/2" STANDARD**



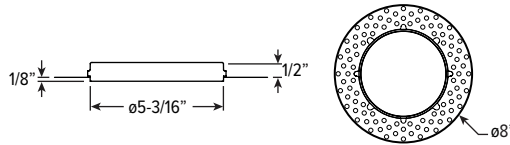
Ceiling Cutout: ø5"

**1/4" MUD-IN**



Ceiling cutout: ø5-1/2"

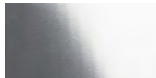
**MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)**



## REFLECTOR FINISH DETAILS

**SPC**

Clear specular



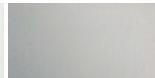
**CS**

Clear semi-specular



**SG**

Satin-glow



**PW**

Pewter



**GD**

Gold



**CG**

Champagne gold



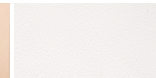
**RG**

Rose gold



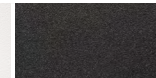
**WH**

White



**BL**

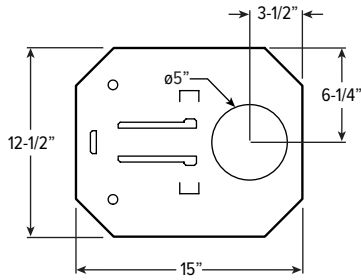
Black



# 4DR tunable COLOR 4.5" Downlight – Round

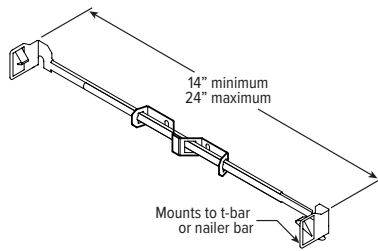
## MOUNTING TYPE DETAILS

### NEW CONSTRUCTION

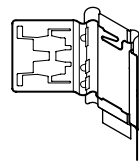


## MOUNTING HARDWARE DETAILS

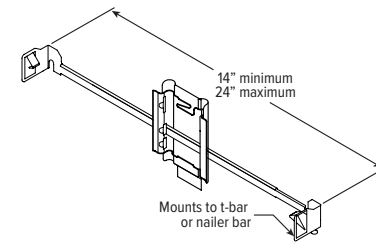
**F1** 2-Position fixed pan bracket, universal bar hanger included



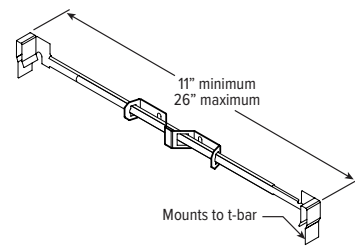
**BA1** Adjustable butterfly pan bracket, bar hanger not included



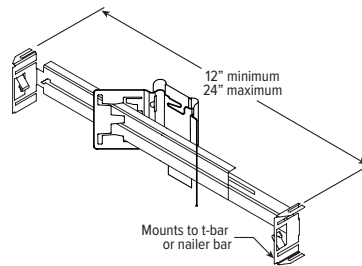
**CA1** Adjustable caterpillar pan bracket, universal bar hanger included



**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

