



# 4DR LED 4.5" Downlight – Round

## FIXTURE PERFORMANCE DATA

### OPEN REFLECTOR TRIM TYPE

LED PACKAGE	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L10	W	1027	9.0	113.6
	M	999	9.0	110.5
	N	1000	9.0	110.6
L15	W	1466	13.9	105.8
	M	1471	13.9	106.2
	N	1473	13.9	106.3
L20	W	1995	19.8	100.5
	M	2002	19.8	101.0
	N	2004	19.8	101.1
L30	W	2985	27.8	107.3
	M	2900	27.8	104.2
	N	2734	27.8	98.3
L40	W	3979	38.0	104.7
	M	3865	38.0	101.7
	N	3644	38.0	95.9
L50	W	5124	45.2	113.4
	M	4956	45.2	109.6
	N	4818	45.1	106.8
L60	W	6157	58.6	105.0
	M	5955	58.6	101.6
	N	5789	58.6	98.8

### FLUSH LENS TRIM TYPE

LED PACKAGE	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L10	W	674	9.0	74.6
	M	895	9.0	99.0
	N	914	9.0	101.2
L15	W	994	13.9	71.7
	M	1319	13.9	95.1
	N	1347	13.9	97.2
L20	W	1352	19.8	68.3
	M	1794	19.8	90.6
	N	1833	19.8	92.6
L30	W	2022	27.8	72.7
	M	2683	27.8	96.5
	N	2741	27.8	98.6
L40	W	2695	38.0	70.9
	M	3577	38.0	94.1
	N	3654	38.0	96.2
L50	W	3364	45.2	74.4
	M	4464	45.2	98.8
	N	4561	45.1	101.1
L60	W	4042	58.6	69.0
	M	5363	58.6	91.5
	N	5480	58.6	93.5

### REGRESSED LENS TRIM TYPE

LED PACKAGE	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L10	W	660	9.0	73.0
	M	895	9.0	99.1
	N	882	9.0	97.7
L15	W	972	13.9	70.2
	M	1319	13.9	95.2
	N	1300	13.9	93.8
L20	W	1323	19.8	66.2
	M	1795	19.8	90.8
	N	1769	19.8	88.5
L30	W	1979	27.8	71.1
	M	2685	27.8	96.5
	N	2646	27.8	95.1
L40	W	2638	38.0	69.4
	M	3579	38.0	94.2
	N	3527	38.0	92.8
L50	W	3292	45.2	72.8
	M	4466	45.2	98.8
	N	4401	45.1	97.6
L60	W	3955	58.6	67.5
	M	5366	58.6	91.5
	N	5289	58.6	90.2

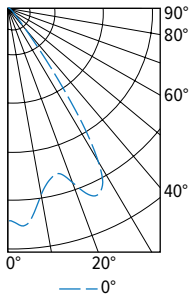
### MULTIPLIER TABLES

	COLOR TEMPERATURE		OPEN REFLECTOR FINISH		
	CCT	CONVERSION FACTOR	CATALOG NUMBER	REFLECTOR FINISH	CONVERSION FACTOR
80 CRI	2700K	0.95	CS	Clear semi-specular	1.00
	3000K	0.96	SG	Satin-glow	0.92
	3500K	1.00	GD	Gold	0.93
	4000K	1.01	CG	Champagne Gold	0.96
90 CRI	2700K	0.74	PW	Pewter	0.86
	3000K	0.85	SPC	Specular	1.02
	3500K	0.90	RG	Rose Gold	0.88
	4000K	0.91	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 3500K, 80 CRI, actual lumens may vary +/-5%
- Use multiplier table to calculate additional options.

## PHOTOMETRY

4DR-TL-L20/835-DIM-UNV-OW-OF-CS Report #: 12316380.01; 06/18/18 | Total Luminaire Output: 1995 lumens; 19.8 Watts | Efficacy: 100.5 lm/W | 82.7 CRI; 3604K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	2166	
	5	2190	144
	15	1746	302
	25	2051	464
	35	376	66
	45	57	18
	55	17	6
	65	4	2
	75	1	0
	85	0	0
	90	0	

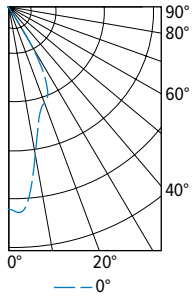
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1926	97
	0 - 60	1989	100
	0 - 90	1995	100
	0-180	1995	100



# 4DR LED

## 4.5" Downlight – Round

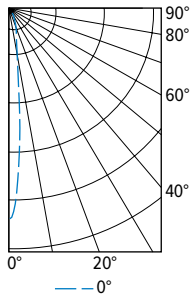
4DR-TL-L20/835-DIM-UNV-OM-OF-CS Report #: 12316380.04; 06/04/18 | Total Luminaire Output: 2002 lumens; 19.8 Watts | Efficacy: 101.0 lm/W | 82.8 CRI; 3600K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	4051	
	5	4009	249
	15	2312	353
	25	1790	365
	35	157	29
	45	36	11
	55	8	3
	65	2	1
	75	1	0
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	1962	98
	0-60	1999	100
	0-90	2002	100
	0-180	2002	100

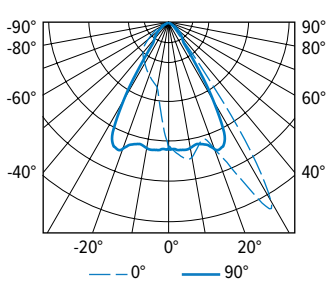
4DR-TL-L20/835-DIM-UNV-ON-OF-CS Report #: 12316380.05; 06/07/18 | Total Luminaire Output: 2004 lumens; 19.8 Watts | Efficacy: 101.1 lm/W | 82.8 CRI; 3587K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	21310	
	5	10690	415
	15	2372	322
	25	912	199
	35	89	10
	45	10	3
	55	2	1
	65	1	0
	75	0	0
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	1993	100
	0-60	2003	100
	0-90	2005	100
	0-180	2005	100

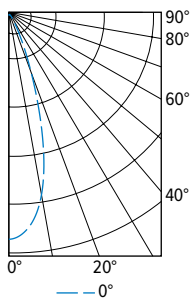
4DR-TL-L20/835-DIM-UNV-OWW-OF-CS Report #: 12316380.06; 06/11/18 | Total Luminaire Output: 1131 lumens; 19.8 Watts | Efficacy: 57.2 lm/W | 82.6 CRI; 3596K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
		0°	45°	90°	135°	180°	
	0	1036	1036	1036	1036	1036	
	5	1105	1057	1053	805	713	65
	15	1000	993	1037	443	488	127
	25	1550	1154	1030	364	408	194
	35	434	258	223	305	340	74
	45	67	62	136	242	261	54
	55	30	28	70	143	144	33
	65	21	18	30	74	75	18
	75	7	5	11	36	34	7
	85	0	0	1	5	0	0
	90	0	0	0	0	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	875	77
	0 - 60	1066	94
	0 - 90	1131	100
	0 - 180	1131	100

4DR-TL-L20/835-DIM-UNV-LM-OF-WH Report #: 1216380.09; 06/11/18 | Total Luminaire Output: 1794 lumens; 19.8 Watts | Efficacy: 90.6 lm/W | 82.6 CRI; 3549K CCT



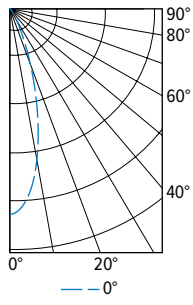
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	4642	
	5	4443	297
	15	2727	340
	25	737	132
	35	193	50
	45	88	32
	55	56	23
	65	34	15
	75	17	7
	85	3	1
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	1618	90
	0-60	1738	97
	0-90	1794	100
	0-180	1794	100



# 4DR LED 4.5" Downlight – Round

4DR-TL-L20/835-DIM-UNV-RM-OF-WH Report #: 12316380.14; 06/12/18 | Total Luminaire Output: 1795 lumens; 19.8 Watts | Efficacy: 90.8 lm/W | 82.7 CRI; 3546K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	5176	
	5	4824	311
	15	2680	342
	25	786	140
	35	194	49
	45	75	26
	55	42	17
	65	22	9
	75	9	4
	85	2	1
	90	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	1663	93
	0-60	1761	98
	0-90	1796	100
	0-180	1796	100

## ADDITIONAL DRIVER OPTIONS

Lumen restrictions apply and 347V may require stepdown transformer, see product builder at hew.com.

CATALOG NUMBER	DESCRIPTION
<b>DIM</b>	Dimming driver prewired for 0-10V low voltage applications
<b>DIM1</b>	1% dimming driver prewired for 0-10V low voltage applications
<b>DMX</b>	0.1% dimming driver for DMX controls
<b>LTE LINE</b>	Lutron Hi-Lume® A-Series 1% dimming driver for forward phase line voltage controls (120V only)
<b>LDE1</b>	Lutron EcoSystem® H-Series 1% dimming driver for EcoSystem® controls
<b>LDE5</b>	Lutron EcoSystem® 5-Series 5% dimming driver for EcoSystem® controls
<b>ELDO SOLOB</b>	EldoLED Solodrive, 0.1% dimming driver for 0-10V controls
<b>ELDO SOLOB DALI</b>	EldoLED Solodrive, 0.1% dimming driver for DALI controls
<b>ELDO ECO1</b>	EldoLED Ecodrive, 1% dimming driver for 0-10V controls
<b>ELDO ECO1 DALI</b>	EldoLED Ecodrive, 1% dimming driver for DALI controls

## TRIMLOCK DETAILS

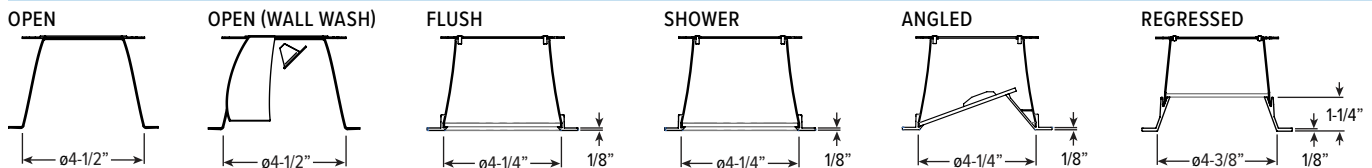


## SLOPED CEILING ADAPTOR DETAILS

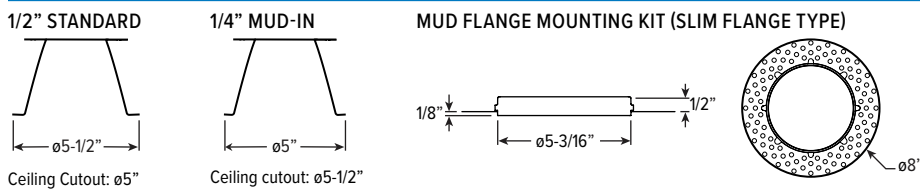
LUMENS	A (HEIGHT)						PLENUM HEIGHT
	5°	10°	15°	20°	25°	30°	
L10 - L30	8-13/16"	8-15/16"	9"	8-15/16"	8-7/8"	8-11/16"	9-1/4"
L40 - L60	9-9/16"	9-11/16"	9-11/16"	9-5/8"	9-1/2"	9-5/16"	10"

15° Shown

## TRIM TYPE DETAILS

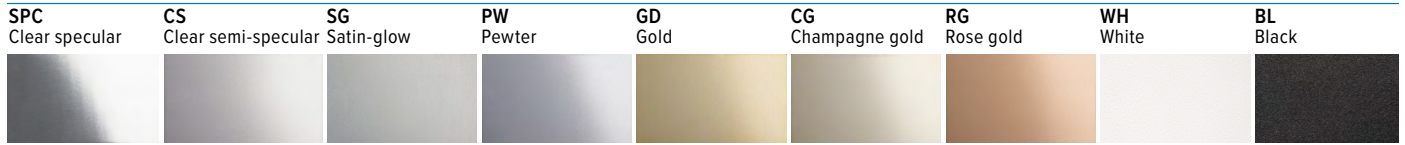


## FLANGE TYPE DETAILS



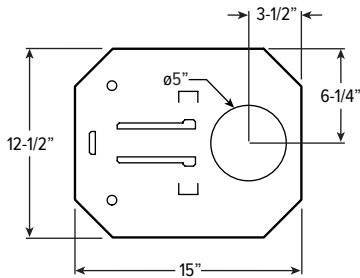
# 4DR LED 4.5" Downlight – Round

## REFLECTOR FINISH DETAILS

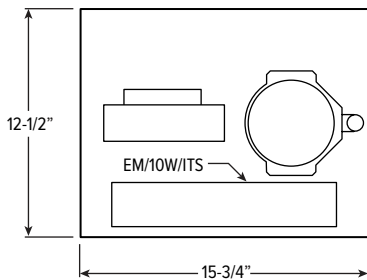


## MOUNTING TYPE DETAILS

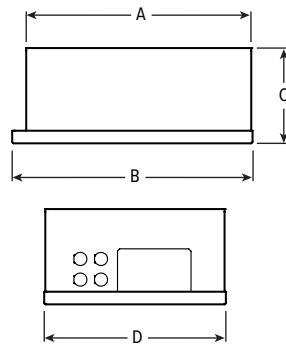
### NEW CONSTRUCTION



### NEW CONSTRUCTION WITH EM/10W/ITS

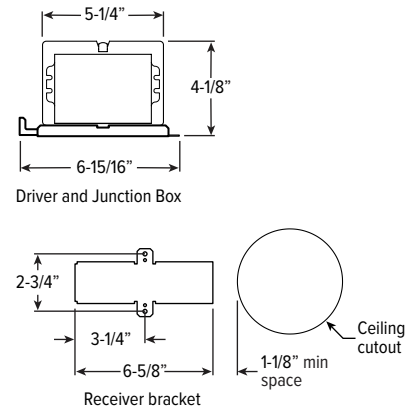


### IC-RATED



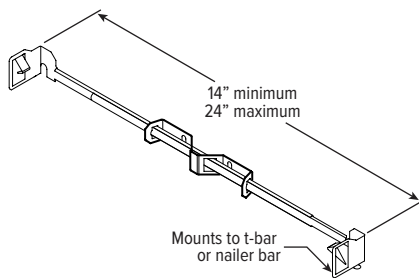
LUMENS	LENGTH			
	A	B	C	D
L10 - L20	15-3/16"	16"	6-3/8"	12-1/8"
L30	16-5/8"	17-1/2"	7-7/8"	14"

### REMODEL

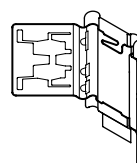


## MOUNTING HARDWARE DETAILS

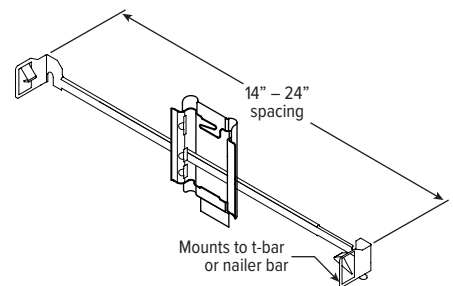
**F1** 2-Position fixed pan bracket, universal bar hanger included



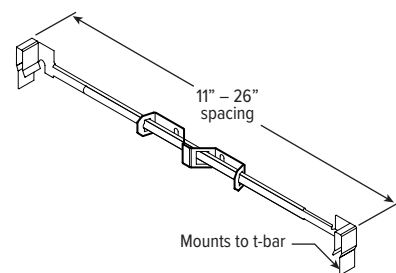
**BA1** Adjustable butterfly pan bracket, bar hanger not included



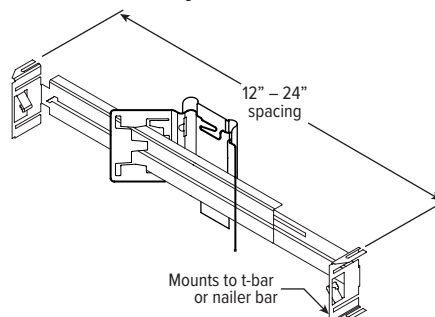
**CA1** Adjustable caterpillar pan bracket, universal bar hanger included



**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

