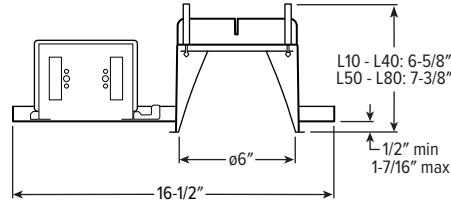


# 6DR LED 6" Downlight – Round



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

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

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

## NEW CONSTRUCTION AND REMODEL

### FEATURES

#### TrimLock®

- Innovative TrimLock reflector retention system ensures trim remains flush with ceiling plane
- Industry-leading efficacies as high as 116 lm/W – ENERGY STAR® certified
- Fully room-side accessible
- Available on QuickShip

### 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** – 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. Minimum 24" O.C. marked spacing required for L60 - L80 lumen packages.
- 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.
  - ENERGY STAR® certified in select configurations, see [www.energystar.gov](http://www.energystar.gov)
  - 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.
  - Title 24 (JA8) compliant in select configurations, see [www.cacertappliances.energy.ca.gov](http://www.cacertappliances.energy.ca.gov).
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

ORDERING EXAMPLE: 6DR - TL - L20/835 - OPTIONS - DIM - UNV - OW - OF - CS - TRIM OPTIONS - N - F1

### HOUSING

SERIES	LUMENS <sup>(1)</sup>	CRI	CCT	OPTIONS	CONTROL <sup>(2)</sup>	VOLTAGE
6DR - TL	L10 1,000lm	8 80	27 2700K	SCA__ Sloped ceiling adapter <sup>(4)</sup>	DIM Dimming driver, 0-10V	UNV 120-277V
TrimLock	L15 1,500lm	9 90 <sup>(3)</sup>	30 3000K	ATH Airtight construction	DIM1 1% Dimming driver, 0-10V	347 347V <sup>(5)</sup>
	L20 2,000lm		35 3500K	F Fuse		
	L30 3,000lm		40 4000K	EM/7W 7-watt emergency battery <sup>(6)</sup>		
	L40 4,000lm		50 5000K	EM/10W 10-watt emergency battery <sup>(7)</sup>		
	L50 5,000lm			EM/10W/RTS 10-watt emergency battery with regressed test switch <sup>(8)</sup>		
	L60 6,000lm			CP Chicago plenum (CCEA) <sup>(9)</sup>		
	L70 7,000lm			SDT Stepdown transformer <sup>(10)</sup>		
	L80 8,000lm			TC Adjustable mounting arms for 1-1/2" – 2-1/4" thick ceilings		

### TRIM<sup>(11)</sup>

TRIM TYPE	DISTRIBUTION <sup>(12)</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>(19)</sup>
L Flush lens	65° Open	SF 1/4" mud-in flange <sup>(18)</sup>	CS Clear semi-specular anodize	IP IP65 rated trim <sup>(20)</sup>
R Regressed lens	55° Flush		SG Satin-glow anodize	AD Diffuse acrylic lens <sup>(21)</sup>
A Angled lens <sup>(13)</sup>	55° Regressed		GD Gold anodize	PD Diffuse 1/8" polycarbonate lens <sup>(22)</sup>
S Non-conductive flush lens for shower applications <sup>(14)</sup>	M Medium <sup>(15)</sup>		CG Champagne gold anodize	TD Diffuse polycarbonate lens media at top of open reflector <sup>(23)</sup>
	35° Open		PW Pewter anodize	WET/CC Wet location, covered ceiling listed <sup>(24)</sup>
	35° Flush		SPC Clear specular anodize	AM Anti-microbial <sup>(25)</sup>
	35° Regressed		RG Rose gold anodize	
	N Narrow <sup>(16)</sup>		WH White texture powder coat	
	10° Open		BL Black texture powder coat	
	25° Flush		MB Black texture splay with white flange <sup>(26)</sup>	
	25° Regressed			
	WW Wall wash <sup>(17)</sup>			
			<b>Lens trim types</b>	
			CS Clear semi-specular powder coat	
			WH White texture powder coat	
			BL Black texture powder coat	
			MB Black texture splay with white flange <sup>(26)</sup>	

### MOUNTING

#### MOUNTING TYPE<sup>(27)</sup>

- N Open pan for new construction
- I IC-rated enclosure for new construction<sup>(29)</sup>
- R Remodel kit<sup>(30)</sup>

#### MOUNTING HARDWARE<sup>(28)</sup>

- F1 Integral 2-position fixed pan bracket, universal bar hanger included<sup>(31)</sup>
- BA1 Adjustable butterfly pan bracket, bar hanger not included<sup>(32)</sup>
- CA1 Adjustable caterpillar pan bracket, universal bar hanger included<sup>(33)</sup>

### NOTES

- Lumen output based on O trim type, W distribution and CS finish, 3500K/80CRI. Actual lumens may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- See page 4 for ADDITIONAL CONTROL OPTIONS.
- Extended lead times may apply. Consult factory for availability.
- 11-1/2" aperture, specify degrees of slope in 5° increments, 05°-30°. See page 4 for SLOPED CEILING ADAPTOR DETAILS. Not available with ATH or TC options. N Mounting Type only. Not available with WET/CC.
- Not available with EM batteries or DMX controls.
- N and R Mounting Types only.
- N and R Mounting Types only.
- Not available with WET/CC, ATH or IP options. N and R Mounting Types only. See page 5 for EM/10W/RTS DETAILS.
- I Mounting Type required.
- May be required for 347V, see product builder at [hew.com/product-builder](http://hew.com/product-builder)
- Trim ships separately.
- Beam angle based on CS or WH reflector finish. See page 2 for FIXTURE PERFORMANCE DATA.
- Available with WW Distribution only.
- W Distribution, OF Flange Type and WH Reflector Finish only. Standard with AD diffuse acrylic lens. IP and WET/CC options standard.
- Not available with lumen stops L50 and higher when specified with flush or regressed trim types.
- Not available with lumen stops L50 and higher when specified with flush or regressed trim types.
- O and A Trim Types only.
- For use with mud-in plaster construction only, supplied with mud flange installation kit. See page 5 for FLANGE TYPE DETAILS. Not available with ATH or IP options.
- Not available with WH Reflector Finish, L or S Trim Types.
- L and R trim types only.

- Not available with O trim type. W distribution only.
- Not available with O trim type. W distribution only.
- O Trim Type only. WET/CC standard. L50 lumen package max.
- L50 lumen package max with O Trim Type.
- WH and BL Reflector Finishes only. Not available with O Trim Type.
- R Trim Type only. Not available with MWT.
- Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 5 for MOUNTING TYPE DETAILS.
- Additional mounting hardware options available. See page 6 for MOUNTING HARDWARE DETAILS.
- L30 lumen package max.
- Also used in new construction sheetrock ceilings.
- N and I Mounting Types only.
- N Mounting Type only.
- N Mounting Type only.



# 6DR LED 6" Downlight – Round

## FIXTURE PERFORMANCE DATA

### OPEN REFLECTOR TRIM TYPE

	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L10	W	1014	8.7	116.9
	M	982	8.7	113.2
	N	1003	8.7	115.7
L15	W	1497	13.8	108.6
	M	1495	13.8	108.4
	N	1528	13.8	110.8
L20	W	1988	19.0	104.6
	M	1983	19.1	103.8
	N	2026	19.1	106.1
L30	W	3062	26.9	114.0
	M	3003	26.9	111.8
	N	3000	26.9	111.7
L40	W	4094	36.5	112.2
	M	4016	36.4	110.3
	N	4011	36.4	110.2
L50	W	5014	43.9	114.1
	M	4935	43.9	112.3
	N	5047	43.9	114.9
L60	W	6043	54.0	111.9
	M	5948	54.0	110.1
	N	6083	54.0	112.6
L70	W	7008	67.8	103.3
	M	6898	67.8	101.7
	N	7055	67.8	104.0
L80	W	8018	79.8	100.5
	M	7891	79.8	98.9
	N	8071	79.8	101.2

### FLUSH LENS TRIM TYPE

	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L10	W	774	8.7	89.2
	M	910	8.7	104.9
	N	909	8.7	104.8
L15	W	1178	13.8	85.4
	M	1385	13.8	100.4
	N	1384	13.8	100.4
L20	W	1562	19.5	80.1
	M	1837	19.1	96.1
	N	1836	19.5	94.2
L30	W	2335	26.9	86.9
	M	2782	26.9	103.6
	N	2718	26.9	101.2
L40	W	3122	36.5	85.5
	M	3720	36.4	102.2
	N	3635	36.4	99.9
L50	W	3824	43.9	87.0
	M	-	-	-
	N	-	-	-
L60	W	4609	54.0	85.4
	M	-	-	-
	N	-	-	-
L70	W	5345	67.8	78.8
	M	-	-	-
	N	-	-	-
L80	W	6115	79.8	76.7
	M	-	-	-
	N	-	-	-

### REGRESSED LENS TRIM TYPE

	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L10	W	716	8.7	82.5
	M	883	8.7	101.7
	N	897	8.7	103.4
L15	W	1090	13.8	79.0
	M	1344	13.8	97.4
	N	1366	13.8	99.1
L20	W	1445	19.5	74.1
	M	1782	19.1	93.3
	N	1812	19.5	92.9
L30	W	2160	26.9	80.4
	M	2699	26.9	100.5
	N	2683	26.9	99.9
L40	W	2889	36.5	79.1
	M	3609	36.4	99.1
	N	3587	36.4	98.6
L50	W	3537	43.9	80.5
	M	-	-	-
	N	-	-	-
L60	W	4264	54.0	79.0
	M	-	-	-
	N	-	-	-
L70	W	4945	67.8	72.9
	M	-	-	-
	N	-	-	-
L80	W	5657	79.8	70.9
	M	-	-	-
	N	-	-	-

### MULTIPLIER TABLES

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.92
	3000K	0.98
	3500K	1.00
	4000K	1.01
	5000K	1.02
90 CRI	2700K	0.76
	3000K	0.79
	3500K	0.82
	4000K	0.84
	5000K	0.88

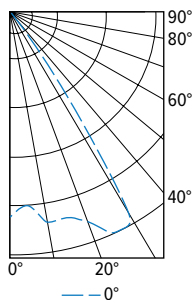
	REFLECTOR FINISH	
	CATALOG NUMBER	CONVERSION FACTOR
O TRIM	CS	1.00
	SG <sup>1</sup>	0.92
	GD	0.93
	CG	0.96
	PW	0.86
	SPC	1.02
	RG	0.88
	WH <sup>1</sup>	0.89
	BL <sup>1</sup>	0.47
	R TRIM	WH
CS		0.98
BL		0.79

	TRIM	
	CATALOG NUMBER	CONVERSION FACTOR
S	0.85	
AD	0.85	
PD	0.85	
TD	0.75	
WET/CC <sup>2</sup>	0.85	

- Distribution will also be affected, consult factory.
- Use multiplier when specified with O Trim Type.
  - 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 tables to calculate additional options.

### PHOTOMETRY

6DR-TL-L20/835-DIM-UNV-OW-OF-CS Report #: 20687; 12/12/18 | Total Luminaire Output: 1988 lumens; 19.0 Watts | Efficacy: 104.6 lm/W | 82.9 CRI; 3457K CCT



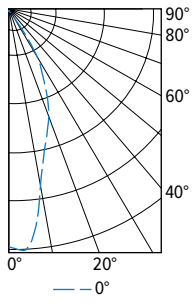
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1672	
	5	1579	151
	15	1735	492
	25	1982	917
	35	604	380
	45	46	36
	55	13	12
	65	2	2
	75	0	0
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1939	98
	0 - 60	1987	100
	0 - 90	1988	100
	0 - 180	1988	100



# 6DR LED 6" Downlight – Round

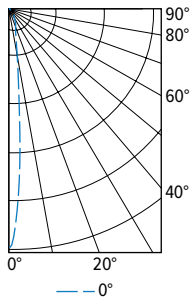
6DR-TL-L20/835-DIM-UNV-OM-OF-CS Report #: 12326812.04; 05/01/18 | Total Luminaire Output: 1983 lumens; 19.1 Watts | Efficacy: 103.8 lm/W | 82.7 CRI; 3579K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	4013	
	5	3972	249
	15	2325	347
	25	1412	68
	35	396	68
	45	46	15
	55	14	5
	65	4	2
	75	1	0
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1924	97
	0 - 60	1977	100
	0 - 90	1983	100
	0 - 180	1983	100

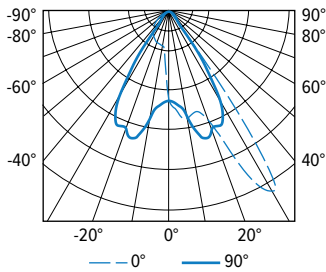
6DR-TL-L20/835-DIM-UNV-ON-OF-CS Report #: 12326812.05; 06/06/18 | Total Luminaire Output: 2026 lumens; 19.1 Watts | Efficacy: 106.1 lm/W | 82.6 CRI; 3578K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	22000	
	5	9830	397
	15	2032	290
	25	1021	214
	35	242	24
	45	13	4
	55	4	1
	65	1	1
	75	0	0
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2010	99
	0 - 60	2024	100
	0 - 90	2026	100
	0 - 180	2026	100

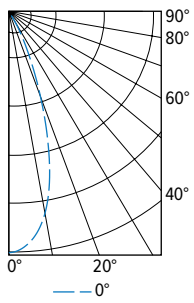
6DR-TL-L20/835-DIM-UNV-OWW-OF-CS Report #: 12326812.06; 06/28/18 | Total Luminaire Output: 1009 lumens; 19.1 Watts | Efficacy: 52.8 lm/W | 82.6 CRI; 3568K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
		0°	45°	90°	135°	180°	
	0	772	772	772	772	772	
	5	873	843	805	494	403	48
	15	891	872	1128	275	292	108
	25	1552	925	1051	240	274	194
	35	539	400	375	206	235	58
	45	43	36	88	166	185	37
	55	21	20	54	116	122	27
	65	16	14	32	70	72	18
	75	7	5	15	39	39	9
	85	0	0	3	10	8	1
	90	0	0	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	804	80
	0 - 60	941	93
	0 - 90	1009	100
	0 - 180	1009	100

6DR-TL-L20/835-DIM-UNV-LM-OF-WH Report #: 12326812.09; 06/05/18 | Total Luminaire Output: 1837 lumens; 19.1 Watts | Efficacy: 96.1 lm/W | 82.6 CRI; 3549K CCT



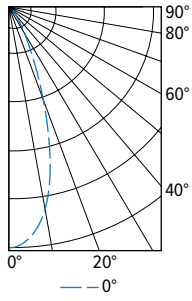
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	4338	
	5	4168	281
	15	2728	354
	25	847	153
	35	222	56
	45	89	31
	55	53	22
	65	32	14
	75	16	7
	85	4	1
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1667	91
	0 - 60	1785	97
	0 - 90	1837	100
	0 - 180	1837	100



# 6DR LED 6" Downlight – Round

6DR-TL-L20/835-DIM-UNV-RM-OF-WH Report #: 12326812.14; 06/06/18 | Total Luminaire Output: 1782 lumens; 19.1 Watts | Efficacy: 93.3 lm/W | 82.7 CRI; 3546K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	4313	
	5	4131	277
	15	2669	346
	25	846	155
	35	225	55
	45	76	26
	55	41	17
	65	23	10
	75	10	4
	85	3	1
	90	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1648	93
	0 - 60	1746	98
	0 - 90	1782	100
	0 - 180	1782	100

## ADDITIONAL CONTROL OPTIONS

Lumen restrictions apply: L40 max for DMX driver, L40 max for Lutron drivers, L50 max for ELDO drivers, L60 max for DIM LINE driver. 347V may require stepdown transformer, see product builder at [hew.com/product-builder](http://hew.com/product-builder).

CATALOG NUMBER	DESCRIPTION
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible at 120V only)
DMX	0.1% dimming driver for DMX controls
LTE LINE	Lutron Hi-lume 1% 2-wire dimming driver forward phase line voltage controls (120V only)
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver
LDE5	Lutron 5-Series 5% EcoSystem dimming LED driver
VRF/DSR	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and sensor-ready driver
VRF/DBI/LDE1	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), Lutron Hi-lume 1% EcoSystem dimming LED driver, and digital link interface
VRF/DBI/LDE5	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), Lutron 5-Series 5% EcoSystem dimming LED driver, and digital link interface
FCJS/DIM	Lutron Vive PowPak wireless fixture control with dimming driver
FCJS/DIM1	Lutron Vive PowPak wireless fixture control with 1% dimming driver
ELDO SOLOB	EldoLED Solodrive, 0.1% dimming driver for 0-10V controls
ELDO SOLOB DALI	EldoLED Solodrive, 0.1% dimming driver for DALI controls
ELDO ECO1	EldoLED Ecodrive, 1% dimming driver for 0-10V controls
ELDO ECO1 DALI	EldoLED Ecodrive, 1% dimming driver for DALI controls

## TRIMLOCK DETAILS

TWIST



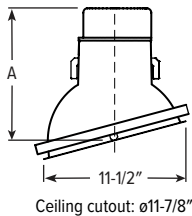
PULL



RELEASE



## SLOPED CEILING ADAPTOR DETAILS

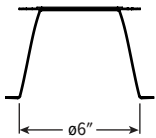


LUMENS	A (HEIGHT)						PLENUM HEIGHT
	5°	10°	15°	20°	25°	30°	
L10 - L40	10-11/16"	10-7/8"	10-15/16"	10-7/8"	10-13/16"	10-5/8"	11-1/4"
L50 - L80	11-7/16"	11-9/16"	11-5/8"	11-5/8"	11-1/2"	11-1/4"	12"

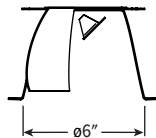
15° Shown

## TRIM TYPE DETAILS

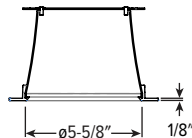
OPEN



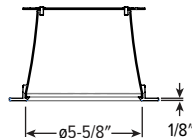
OPEN (WALL WASH)



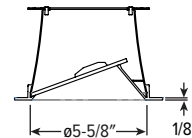
FLUSH



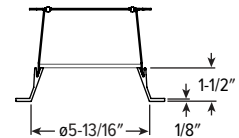
SHOWER



ANGLED

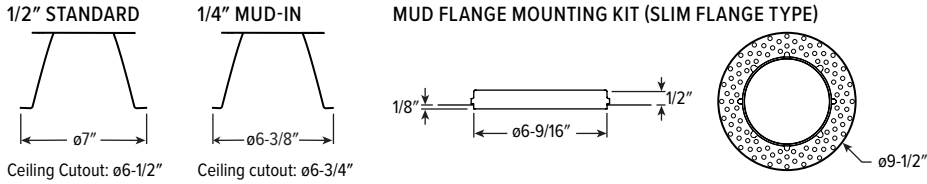


REGRESSED

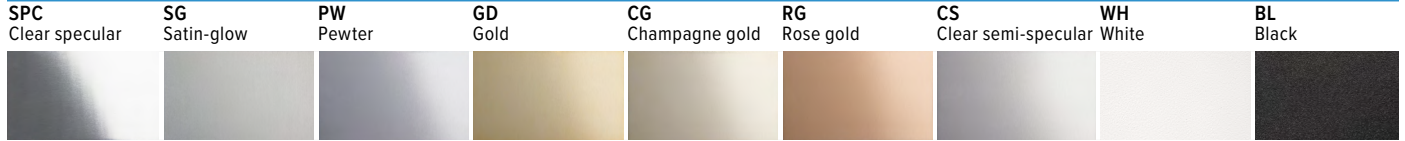


# 6DR LED 6" Downlight – Round

## FLANGE TYPE DETAILS

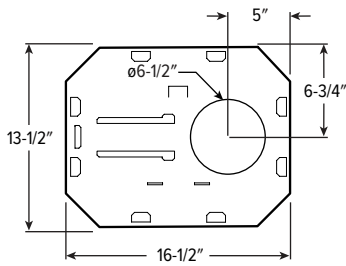


## REFLECTOR FINISH DETAILS

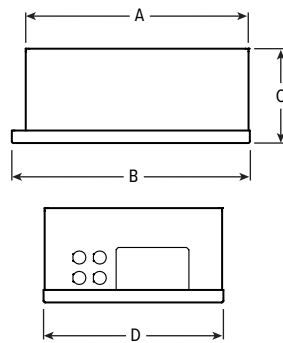


## MOUNTING TYPE DETAILS

### NEW CONSTRUCTION

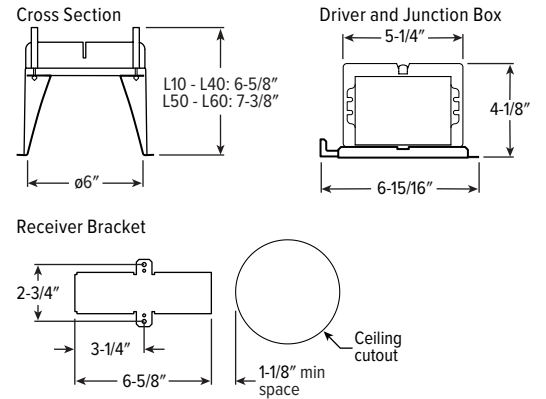


### IC-RATED

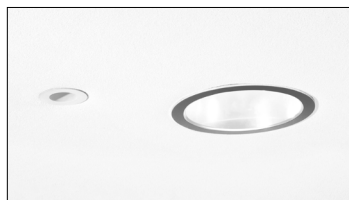


LUMENS	LENGTH			
	A	B	C	D
L10 - L20	15-3/16"	16"	6-3/8"	12-1/8"
L30	16-5/8"	17-1/2"	7-7/8"	14"

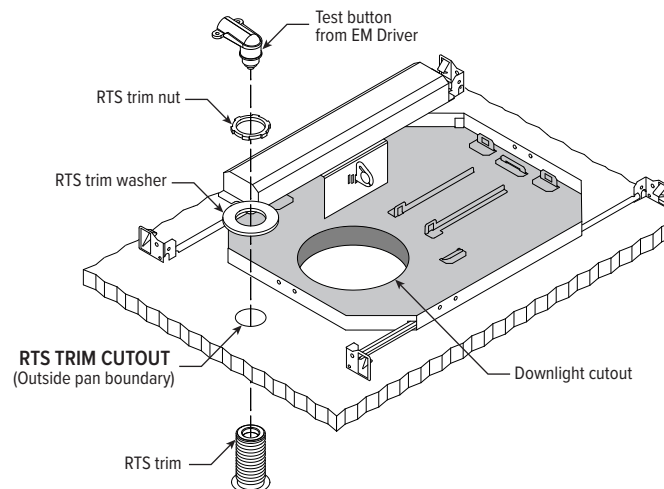
### REMODEL



## EM/10W/RTS DETAILS



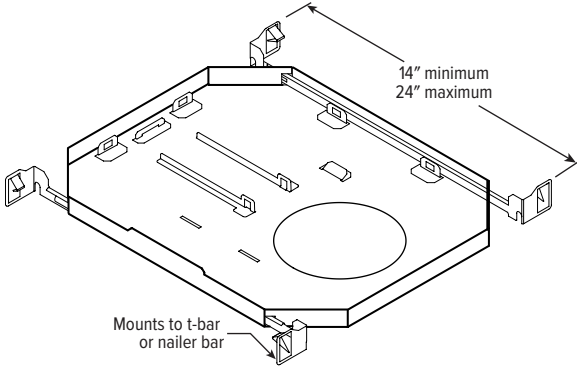
Shown Installed



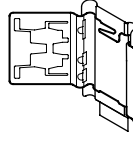
# 6DR<sup>LED</sup> 6" Downlight – Round

## MOUNTING HARDWARE DETAILS

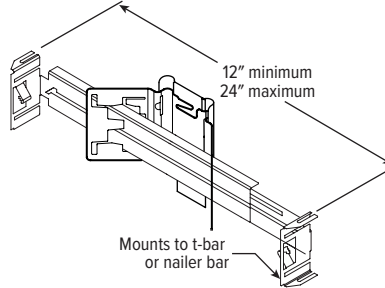
**F1** Integral 2-position fixed pan bracket, universal bar hanger included



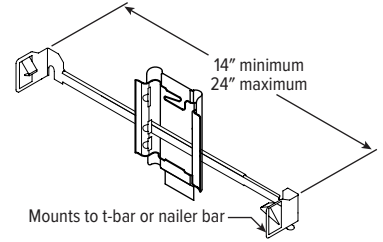
**BA1** Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



**BA2** Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)



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



**CA2** Adjustable caterpillar pan bracket, t-bar hanger included (N Mounting Type only)

