

Description :

NV-1-T2-32L-7-40K-UNV-WM-**

Project Name:

DC RANCH CORP CNTR

Notes:

TYPE:

A

NLS
LIGHTING

NV-1

AREA LIGHTING

FORM AND FUNCTION

- Sleek, low profile housing
- Spec grade performance
- Engineered for optimum thermal management
- Low depreciation rate
- Reduces energy consumption and costs up to 65%
- Exceeds IES foot candle levels utilizing the least number of poles and fixtures per project
- Optical system designed for:
 - Parking Lots
 - Auto Dealerships
 - General Area Lighting

CONSTRUCTION

- Die Cast Aluminum
- External cooling fins, Finite Element Analysis (FEA) designed
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP-65 seal for electronics compartment
- One-piece Optics Plate™ mounting silicone Micro Optics
- Two-piece silicone Micro Optic system ensures IP-67 level seal around each PCB
- Grade 2 Clear Anodized Optics Plate™ standard

FINISH

- 3-5 mils electrostatic powder coat.
- NLS' standard high-quality finishes prevent corrosion protects against and extreme environmental conditions

WARRANTY

Five-year limited warranty for drivers and LEDs.



NV-1 with DPS3

LISTINGS

- Certified to UL 1598
- UL 8750
- CSA C22.2 No. 250.0
- DesignLights Consortium® (DLC)
- DesignLights Consortium Premium® (DLCP)
- IP65/ IP67 Rated
- 3G Vibration Rated per ANSI C136.31-2010



LED WATTAGE CHART

	16L	32L	48L	64L
350 milliamps	18w	-	-	-
530 milliamps	28w	-	-	-
700 milliamps	36w	71w	104w	136w
1050 milliamps	56w	106w	156w	205w

Project Name:

Type:

Cat #	Light Dist.	No. of LEDs	Milliamps	Kelvin	Volts	Mounting	Color	Options
NV Size 1 (NV-1)	Type 2 (T2)	16 (16L) 32 (32L)	350 (35)	3000K (30K)	120-277 (UNV)	Direct Pole Single, D180 3" (DPS3)	Bronze (BRZ)	Bird Deterrent (BD) Marine Grade Finish (MGF)
	Type 3 (T3)	48 (48L) 64 (64L)	530 (53)	4000K (40K)	347-480 (HV)	D90, T90, T120, QD 7" (DPS7)	White (WHT)	Optic Plate Painted to Match Fixture (OPP)
	Type 4 (T4)		700 (7)	5000K (50K)		Knuckle Mount (KM) Wall Mount (WM)	Silver (SVR)	Nema 7-Pin Receptacle (PE7) Photocell + Receptacle (PCR)
	Type 5 (T5)		1050 (1)			Trunnion Mount (TM) Tennis Arm (TA)	Black (BLK)	Receptacle + Shorting Cap (PER)
	Nema 2 24" Narrow Beam (N2)					*Standard finish is stainless steel. Can be painted to match fixture	Graphite (GPH)	FSP-211 with Motion Sensor (UNV Voltage) (FSP-20) *9'-20" Heights (FSP-40) *21'-40" Heights
	Nema 3 30" Narrow Beam (N3)					*See next page for Arm Configurations *For Round Pole, please specify RPA4 or RPA5	Grey (GRY)	Surge Protector (10K) Quick Mount Bracket (QMB) Retrofit Mount Bracket (RQMB)
							Custom (CS)	Round Pole Adaptor 3"- 4" Pole (RPA4) Round Pole Adaptor 5"- 6" Pole (RPA5) Rotated Optic Left (ROL) Rotated Optic Right (ROR) Automotive House Side Shield (AHS) House Side Shield (HSS) *HSS not applicable with N2 - NEMA 24" Optics *HSS not applicable with N3 - NEMA 30" Optics

****MUST SPECIFY COLOR****

NV-1 -T2 -32L -7 -40K -UNV -WM -**

ELECTRICAL

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver by Philips Advance
- Driver power factor at maximum load is $\geq .95$, THD maximum load is 15%
- All internal wiring UL certified for 600 VAC and 105°C
- All drivers, controls, and sensors housed in enclosed IP-65 compartment
- Lumileds Luxeon MX LED's
- CRI >70
- Color temperatures: 3000K, 4000K, 5000K

OPTIONS

- **BIRD DETERRANT (BD)**—offers effective and humane deterrent for larger bird species and provides cost-effective long-term solution to nuisance bird infestations and protect your property.
- **MARINE GRADE FINISH (MGF)**—A multi-step process creating protective finishing coat against harsh environments.
 - Chemically washed in a 5 stage cleaning system.
 - Pre-baked
 - Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer.
 - 1-2 feet inside pole coverage top and bottom.
 - Oven Baked.
 - Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.
- **SHIELDS (HSS, AHS)**—House Side Shield (HSS) is designed for full property line cut-off. Automotive House Side Shield (AHS) is a single-sided shield allowing partial cut-off on either side or front of luminaire.
- **ROUND POLE ADAPTER (RPA)**— When using round poles, specify Round Pole Adapter (RPA). Specify RPA4 when installing on 3"-4" round poles, and RPA5 when installing on 5"-6" round poles.

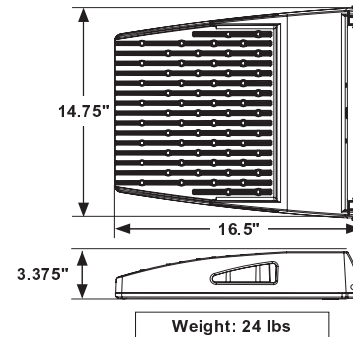
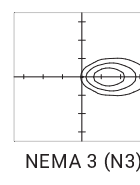
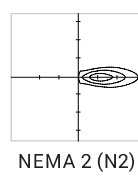
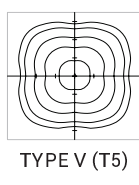
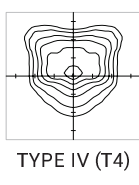
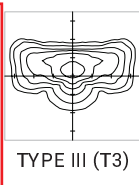
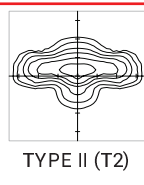
CONTROLS

- **FSP-211 (FSP-X)**—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
 - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
 - FSP-20 mounting heights 9-20 feet
 - FSP-40 mounting heights 21-40 feet.
 - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, reprogrammable in the field.
- **NEMA 7-PIN RECEPTACLE (PE7)**—An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.

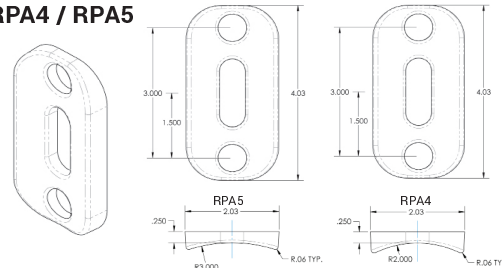
OPTICS

Silicone optics high photothermal stability and light output provides higher powered LEDs with minimized lumen depreciation LED life. UV and thermal stability with scratch resistance increases exterior application durability.

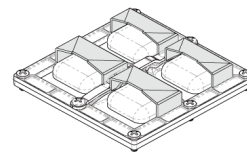
- IES Types



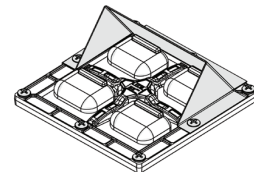
RPA4 / RPA5



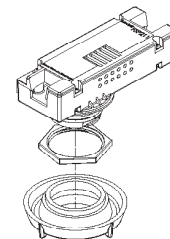
HOUSE SIDE SHIELD



AUTOMOTIVE HOUSE SIDE SHIELD



FSP-211



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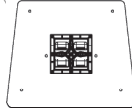
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Notes:

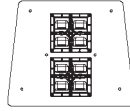
OPTICAL CONFIGURATIONS

Rotatable Optics (ROR) Rotated Right, (ROL) Rotated Left options available. Optics field and factory rotatable.

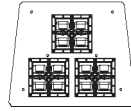
(OPP)



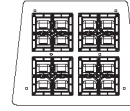
NV-1 / 16L



NV-1 / 32L



NV-1 / 48L



NV-1 / 64L

* OPTIC PLATE PAINTED TO MATCH FIXTURE FINISH (OPP)– Optic Plate standard clear anodized, Grade 2. When (OPP) specified, Optic Plate finish will match fixture finish.

LUMENS																												
PART NUMBER	N2	LM/W	BUG	N3	LM/W	T2	LM/W	DLC	BUG	T3 HSS	LM/W	BUG	T3	LM/W	DLC	BUG	T4 HSS	LM/W	BUG	T4	LM/W	DLC	BUG	T5	LM/W	DLC	BUG	T5
NV-1-16L-35-30K	1944	108	B2-U0-G0	2016	112	2209	117	P	B1-U0-G1	1134	63	B0-U0-G0	2106	117	P	B1-U0-G1	1116	62	B0-U0-G0	2187	116	P	B1-U0-G1	2124	118	P	B2-U0-G0	18
NV-1-16L-35-40K	2016	112	B2-U0-G0	2088	116	2268	126	P	B1-U0-G1	1206	67	B0-U0-G0	2286	127	P	B1-U0-G1	1188	66	B0-U0-G0	2250	125	P	B1-U0-G1	2304	128	P	B2-U0-G0	18
NV-1-16L-35-50K	2088	116	B2-U0-G0	2160	120	2376	132	P	B1-U0-G1	1278	71	B0-U0-G0	2394	133	P	B1-U0-G1	1260	70	B0-U0-G0	2358	131	P	B1-U0-G1	2412	134	P	B2-U0-G2	18
NV-1-16L-53-30K	3024	108	B3-U0-G1	3136	112	3192	114	P	B1-U0-G1	1764	63	B0-U0-G1	3220	115	P	B1-U0-G1	1736	62	B0-U0-G1	3119	113	P	B1-U0-G1	3248	116	P	B2-U0-G1	28
NV-1-16L-53-40K	3136	112	B3-U0-G1	3248	116	3472	124	P	B1-U0-G1	1876	67	B0-U0-G1	3472	124	P	B1-U0-G1	1848	66	B0-U0-G1	3444	123	P	B1-U0-G1	3500	125	P	B2-U0-G1	28
NV-1-16L-53-50K	3248	116	B2-U0-G1	3360	120	3612	129	P	B1-U0-G1	1988	71	B0-U0-G1	3640	130	P	B1-U0-G1	1960	70	B0-U0-G1	3584	128	P	B1-U0-G1	3668	131	P	B2-U0-G1	28
NV-1-16L-7-30K	3888	108	B3-U0-G1	4032	112	3960	110	P	B1-U0-G1	2268	63	B0-U0-G1	3960	110	P	B1-U0-G1	2232	62	B0-U0-G1	3973	109	P	B1-U0-G1	3996	111	P	B3-U0-G1	36
NV-1-16L-7-40K	4032	112	B3-U0-G1	4176	116	4428	123	P	B1-U0-G1	2412	67	B0-U0-G1	4284	119	P	B1-U0-G1	2376	66	B0-U0-G1	4212	117	P	B1-U0-G1	4320	120	P	B3-U0-G1	36
NV-1-16L-7-50K	4176	116	B3-U0-G1	4320	120	4644	129	P	B1-U0-G1	2556	71	B0-U0-G1	4500	125	P	B1-U0-G1	2520	70	B0-U0-G1	4428	123	P	B1-U0-G1	4500	125	P	B3-U0-G1	36
NV-1-16L-1-30K	6048	108	B3-U0-G1	6272	112	6160	110	S	B1-U0-G1	3528	63	B0-U0-G1	6384	114	P	B1-U0-G1	3472	62	B0-U0-G1	6232	112	P	B1-U0-G1	6440	115	P	B3-U0-G1	56
NV-1-16L-1-40K	6272	112	B3-U0-G1	6496	116	6832	122	P	B1-U0-G1	3752	67	B0-U0-G1	6888	123	P	B2-U0-G2	3696	66	B0-U0-G1	6776	121	P	B2-U0-G2	6944	124	P	B3-U0-G2	56
NV-1-16L-1-50K	6496	116	B4-U0-G1	6720	120	7168	128	P	B1-U0-G2	3976	71	B0-U0-G1	7224	129	P	B2-U0-G2	3920	70	B0-U0-G1	7112	127	P	B2-U0-G2	7280	130	P	B3-U0-G2	56
NV-1-32L-7-30K	7668	108	B4-U0-G1	7952	112	7810	110	S	B1-U0-G2	4473	63	B0-U0-G1	7810	110	S	B2-U0-G2	4402	62	B0-U0-G1	7739	109	S	B2-U0-G2	7881	111	S	B3-U0-G2	71
NV-1-32L-7-40K	7952	112	B4-U0-G1	8236	116	9017	127	P	B1-U0-G2	4757	67	B0-U0-G1	8449	119	P	B2-U0-G2	4686	66	B0-U0-G2	8307	117	P	B2-U0-G2	8520	120	P	B3-U0-G2	71
NV-1-32L-7-50K	8236	116	B4-U0-G1	8520	120	9159	129	P	B2-U0-G2	5041	71	B0-U0-G2	8875	125	P	B2-U0-G2	4970	70	B0-U0-G2	8733	123	P	B2-U0-G2	8946	126	P	B3-U0-G2	71
NV-1-32L-1-30K	11448	108	B4-U0-G1	11872	112	11660	110	S	B2-U0-G2	6678	63	B0-U0-G2	12084	114	S	B2-U0-G2	6572	62	B0-U0-G2	11820	112	S	B2-U0-G2	12190	115	S	B4-U0-G2	106
NV-1-32L-1-40K	11872	112	B4-U0-G1	12296	116	12932	122	P	B2-U0-G2	7102	67	B0-U0-G2	13038	123	P	B2-U0-G2	6996	66	B0-U0-G2	12826	121	P	B3-U0-G2	13144	124	P	B4-U0-G2	106
NV-1-32L-1-50K	12296	116	B4-U0-G1	12720	120	13568	128	P	B2-U0-G2	7526	71	B0-U0-G2	13674	129	P	B3-U0-G3	7420	70	B0-U0-G2	13462	127	P	B3-U0-G3	13780	130	P	B4-U0-G2	106
NV-1-48L-7-30K	11232	108	B4-U0-G1	11648	112	11440	110	S	B2-U0-G2	6552	63	B0-U0-G2	11440	110	S	B2-U0-G2	6448	62	B0-U0-G2	11336	109	S	B2-U0-G2	11544	111	S	B4-U0-G2	104
NV-1-48L-7-40K	11648	112	B4-U0-G1	12064	116	13208	127	P	B2-U0-G2	6968	67	B0-U0-G2	12376	119	P	B2-U0-G2	6864	66	B0-U0-G2	12168	117	P	B2-U0-G2	12480	120	P	B4-U0-G2	104
NV-1-48L-7-50K	12064	116	B4-U0-G1	12480	120	13520	130	P	B2-U0-G2	7384	71	B0-U0-G2	13000	125	P	B3-U0-G3	7280	70	B0-U0-G2	12792	123	P	B2-U0-G2	13104	126	P	B4-U0-G2	104
NV-1-48L-1-30K	16848	108	B5-U0-G1	17472	112	17160	110	S	B3-U0-G3	9828	63	B1-U0-G2	17784	114	S	B3-U0-G3	9672	62	B1-U0-G2	17472	112	S	B3-U0-G3	17940	115	S	B4-U0-G2	156
NV-1-48L-1-40K	17472	112	B5-U0-G1	18096	116	19032	122	P	B3-U0-G3	10452	67	B1-U0-G2	19188	123	P	B3-U0-G3	10296	66	B1-U0-G2	18876	121	P	B3-U0-G3	19344	124	P	B5-U0-G3	156
NV-1-48L-1-50K	18096	116	B5-U0-G1	18720	120	19968	128	P	B3-U0-G3	11076	71	B1-U0-G2	20124	129	P	B3-U0-G3	10920	70	B1-U0-G2	19812	127	P	B3-U0-G3	20280	130	P	B5-U0-G3	156
NV-1-64L-7-30K	14688	108	B5-U0-G1	15232	112	14960	110	S	B2-U0-G2	8568	63	B0-U0-G2	14960	110	S	B3-U0-G3	8432	62	B1-U0-G2	14824	109	S	B3-U0-G3	15096	111	S	B4-U0-G2	136
NV-1-64L-7-40K	15232	112	B5-U0-G1	15776	116	17272	127	P	B3-U0-G3	9112	67	B0-U0-G2	16184	119	P	B3-U0-G3	8976	66	B1-U0-G2	15912	117	P	B3-U0-G3	16320	120	P	B4-U0-G2	136
NV-1-64L-7-50K	15776	116	B5-U0-G1	16320	120	17680	130	P	B3-U0-G3	9656	71	B1-U0-G2	17000	125	P	B3-U0-G3	9520	70	B1-U0-G2	16728	123	P	B3-U0-G3	17136	126	P	B4-U0-G2	136
NV-1-64L-1-30K	22140	108	B5-U0-G1	22960	112	22550	110	S	B3-U0-G3	12915	63	B1-U0-G2	23370	114	S	B3-U0-G3	12710	62	B1-U0-G2	22960	112	S	B3-U0-G3	23575	115	S	B5-U0-G3	205
NV-1-64L-1-40K	22960	112	B5-U0-G1	23780	116	25010	122	P	B3-U0-G3	13735	67	B1-U0-G3	25215	123	P	B3-U0-G3	13530	66	B1-U0-G3	24805	121	P	B3-U0-G4	25420	124	P	B5-U0-G3	205
NV-1-64L-1-50K	23780	116	B5-U0-G1	24600	120	26240	128	P	B3-U0-G3	14555	71	B1-U0-G3	26445	129	P	B3-U0-G3	14350	70	B1-U0-G3	26035	127	P	B3-U0-G4	26650	130	P	B5-U0-G3	205

*DLC S= Standard
P= Premium



EPA

EPA	SGL	D90	D180	T90	T120	QD
NV-1-DP	0.46	1.14	0.92	1.34	1.37	1.34
NV-1-KM	0.54	N/A	1.08	N/A	N/A	N/A
NV-1-SA	0.75	1.29	1.50	1.99	2.05	1.99

L70/L90 DATA

TEMP.	NV-1	
	L70 (64L-1050mA)	L90 (64L-1050mA)
25°C	483,000	160,000

DPX ARM LENGTH

DPX ARM LENGTH	SGL	D90	D180	T90	T120	QD
NV-1	3"	7"	3"	7"	7"	7"

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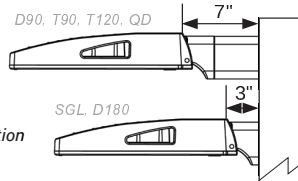
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MOUNTING OPTIONS

DIRECT POLE (DP)

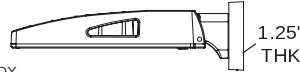
Standard mounting arm is extruded aluminum in lengths of 3" and 7".

*Arm lengths may vary depending on configuration



WALL MOUNT (WM)

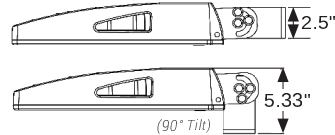
Cast Aluminum Plate for direct wall mount. 3" extruded aluminum arm mounts directly to a cast wall mount box.



TRUNNION MOUNT (TM)

Steel, bolt-on-mounting for adjustable installation with a maximum uplift of 90 degrees.

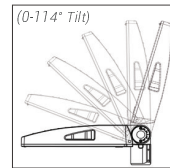
*Unpainted stainless steel is standard



TENNIS ARM (TA)

Steel fitter slips over 3.5" x 1.5" rectangular arm.

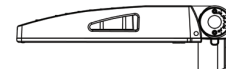
*See Tennis Arm Spec Sheet for details



KNUCKLE MOUNT (KM)

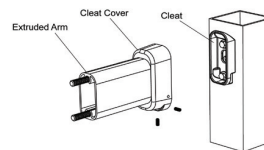
Die Cast Knuckle great for adjustable installation on 2-3/8" OD vertical or horizontal tenon.

- Max Uplift of 114 degrees
- Adjustable in 6 degree increments

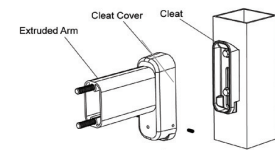


OPTIONAL

Optional Cast Aluminum Bracket, **Quick Mount Bracket (QMB)** and **Retrofit Quick Mount Bracket (RQMB)**, designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures.



QMB



RQMB

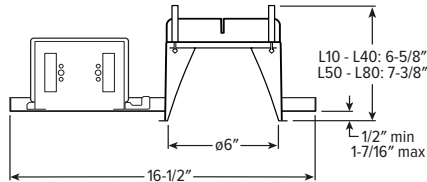
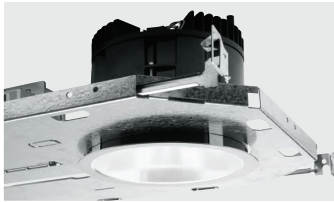
Longer slot to accommodate existing drill pattern.

DC RANCH CORP CENTER
6DR-TL-L20/840-DIM-UNV-O-W-OF-CS-N-F1-WET/CC TYPE B
6DR-TL-L10/840-DIM-UNV-O-W-OF-CS-N-F1-WET/CC TYPE C

TYPE:
B;C

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
- 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 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, 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
 - 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 (JAS) compliant in select configurations, see www.cacertappliances.energy.ca.gov.
- WARRANTY** – 5-year limited warranty, see hew.com/warranty.



6DR-TL-L20/840-DIM-UNV-O-W-OF-CS-N-F1-WET/CC TYPE B

6DR-TL-L10/840-DIM-UNV-O-W-OF-CS-N-F1-WET/CC TYPE C

HOUSING

SERIES	LUMENS ^[1]	CRI	CCT	OPTIONS	CONTROL ^[2]	VOLTAGE
6DR - TL TrimLock	L10 1,000lm ^[3] L15 1,500lm L20 2,000lm L30 3,000lm L40 4,000lm L50 5,000lm L60 6,000lm L70 7,000lm L80 8,000lm	8 80 9 90 ^[4]	27 2700K 30 3000K 35 3500K 40 4000K 50 5000K	SCA__ Sloped ceiling adapter ^[5] ATH Airtight construction F Fuse EM/7W 7-watt emergency battery ^[7] EM/10W 10-watt emergency battery ^[8] EM/10W/RTS 10-watt emergency battery with regressed test switch ^[9] CP Chicago plenum (CCEA) ^[10] SDT Stepdown transformer ^[11]	DIM Dimming driver, 0-10V DIM11 Dimming driver, 0-10V	UNV 120-277V 347 347V ^[6]

TRIM^[12]

TRIM TYPE	DISTRIBUTION ^[13]	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
O Open reflector	W Wide	OF 1/2" standard flange	Open trim types	MWT Textured white trim flange ^[20]
L Flush lens	65° Open	SF 1/4" mud-in flange ^[19]	CS Clear semi-specular anodize	IP IP65 rated trim ^[21]
R Regressed lens	55° Flush		SG Satin-glow anodize	AD Diffuse acrylic lens ^[22]
A Angled lens ^[14]	55° Regressed		GD Gold anodize	PD Diffuse 1/8" polycarbonate lens ^[23]
S Non-conductive flush lens for shower applications ^[15]	M Medium ^[16]		CG Champagne gold anodize	TD Diffuse polycarbonate lens media at top of open reflector ^[24]
	35° Open		PW Pewter anodize	
	35° Flush		SPC Clear specular anodize	
	35° Regressed		RG Rose gold anodize	
	N Narrow ^[17]		WH White texture powder coat	WET/CC Wet location, covered ceiling listed ^[25]
	10° Open		BL Black texture powder coat	AM Anti-microbial ^[26]
	25° Flush			
	25° Regressed			
	WW Wall wash ^[18]			
			Lens trim types	
			CS Clear semi-specular powder coat	
			WH White texture powder coat	
			BL Black texture powder coat	
			MB Black texture splay with white flange ^[27]	

MOUNTING

MOUNTING TYPE^[28]

- N Open pan for new construction
- I IC-rated enclosure for new construction^[30]
- R Remodel kit^[31]

MOUNTING HARDWARE^[29]

- F1 Integral 2-position fixed pan bracket, universal bar hanger included^[32]
- BA1 Adjustable butterfly pan bracket, bar hanger not included^[33]
- CA1 Adjustable caterpillar pan bracket, universal bar hanger included^[34]

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.
- Not available with EM/10W emergency batteries.
- 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 option. 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.
- 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 S 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. I Mounting requires external brackets.
- N Mounting Type only.
- N Mounting Type only.



DC RANCH CORP CENTER
6DR-TL-L20/840-DIM-UNV-O-W-OF-CS-N-F1 TYPE B
6DR-TL-L10/840-DIM-UNV-O-W-OF-CS-N-F1 TYPE C

TYPE:
B;C

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

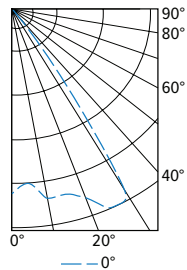
	REFLECTOR FINISH	
	CATALOG NUMBER	CONVERSION FACTOR
O TRIM	CS	1.00
	SG ¹	0.92
	GD	0.93
	CG	0.96
	PW	0.86
	SPC	1.02
	RG	0.88
	WH ¹	0.89
	BL ¹	0.47
R TRIM	WH	1.00
	CS	0.98
	BL	0.79

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

- ¹ Distribution will also be affected, consult factory.
² 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



	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
CANDLEPOWER DISTRIBUTION	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	

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



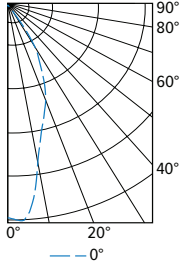
DC RANCH CORP CENTER
6DR-TL-L20/840-DIM-UNV-O-W-OF-CS-N-F1 TYPE B
6DR-TL-L10/840-DIM-UNV-O-W-OF-CS-N-F1 TYPE C

TYPE:
B;C

6DR^{LED}

6" Downlight – Round

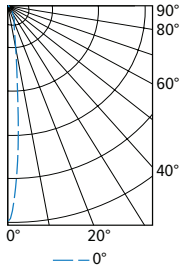
6DR-TL-L20/835-DIM-UNV-OM-OF-CS Report #: 12326812.04; 05/01/18 | Total Luminaire Output: 1983 lumens; 19.1 Watts | Efficacy: 103.8 lm/W | 82.7 CRI; 3579K CCT



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	

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

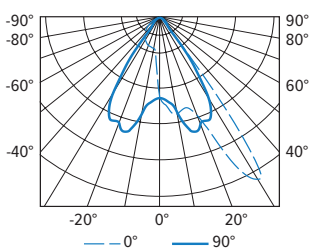
6DR-TL-L20/835-DIM-UNV-ON-OF-CS Report #: 12326812.05; 06/06/18 | Total Luminaire Output: 2026 lumens; 19.1 Watts | Efficacy: 106.1 lm/W | 82.6 CRI; 3578K CCT



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	

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

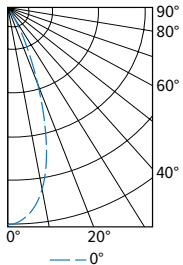
6DR-TL-L20/835-DIM-UNV-OWW-OF-CS Report #: 12326812.06; 06/28/18 | Total Luminaire Output: 1009 lumens; 19.1 Watts | Efficacy: 52.8 lm/W | 82.6 CRI; 3568K CCT



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	

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



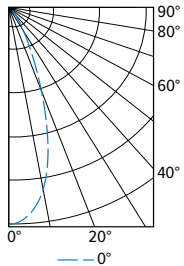
DC RANCH CORP CENTER
6DR-TL-L20/840-DIM-UNV-O-W-OF-CS-N-F1 TYPE B
6DR-TL-L10/840-DIM-UNV-O-W-OF-CS-N-F1 TYPE C

TYPE:
B;C

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. R Mounting Type only available with DIM, DIM1, and DIM LINE controls. 347V may require stepdown transformer, see product builder at 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



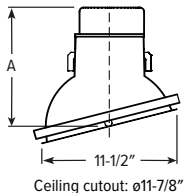
PULL



RELEASE



SLOPED CEILING ADAPTOR DETAILS

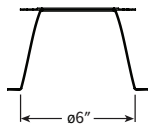


LUMENS	A (HEIGHT)						PLENUM HEIGHT
	5°	10°	15°	20°	25°	30°	
L10 - L40	10-11/16"	10-7/8"	10-15/16"	10-7/8"	10-13/16"	10-5/8"	11-1/4"
L50 - L80	11-7/16"	11-9/16"	11-5/8"	11-5/8"	11-1/2"	11-1/4"	12"

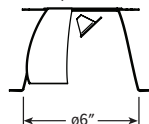
15° Shown

TRIM TYPE DETAILS

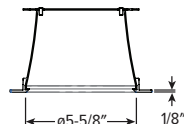
OPEN



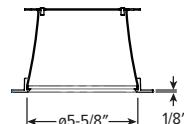
OPEN (WALL WASH)



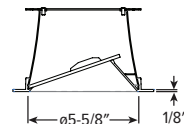
FLUSH



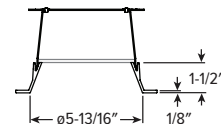
SHOWER



ANGLED



REGRESSED



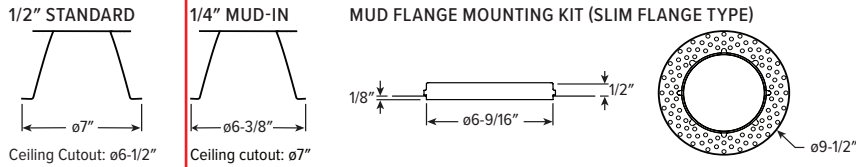
DC RANCH CORP CENTER
6DR-TL-L20/840-DIM-UNV-O-W-OF-CS-N-F1 TYPE B
6DR-TL-L10/840-DIM-UNV-O-W-OF-CS-N-F1 TYPE C

TYPE:
B;C

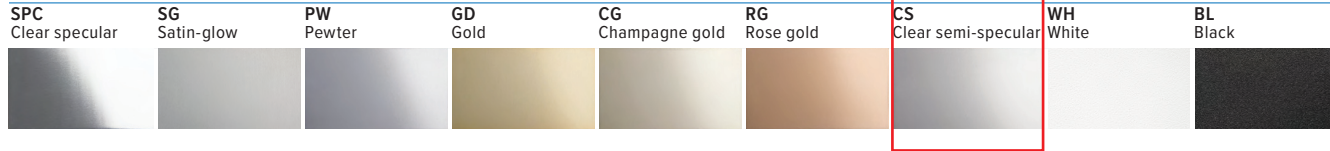
6DR LED

6" Downlight – Round

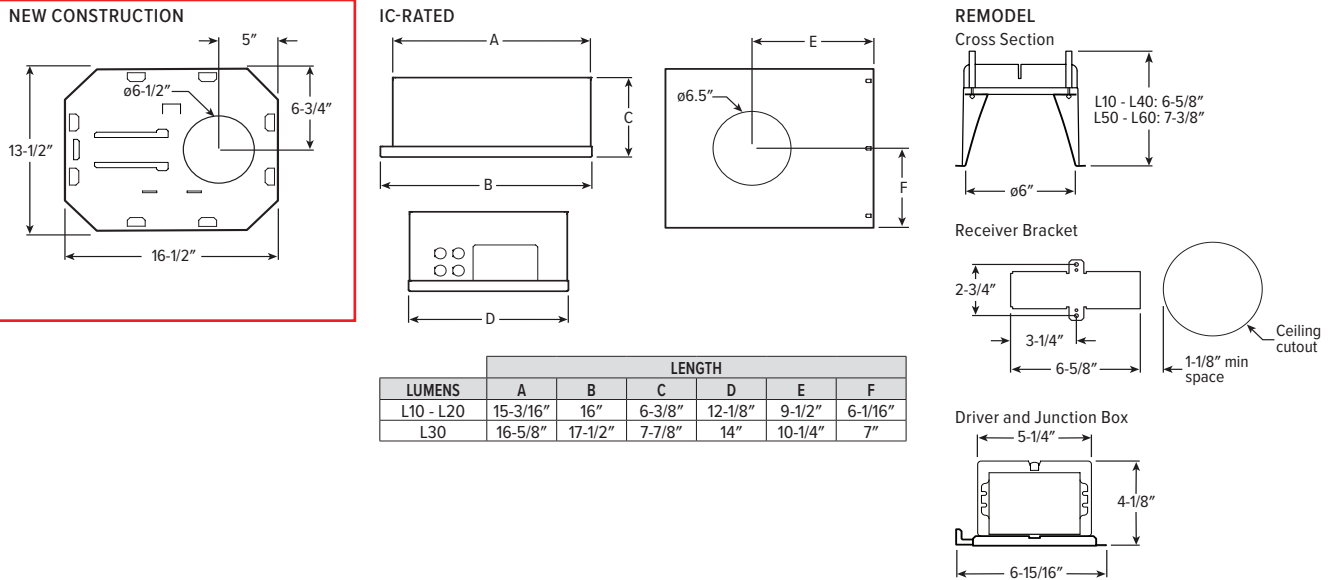
FLANGE TYPE DETAILS



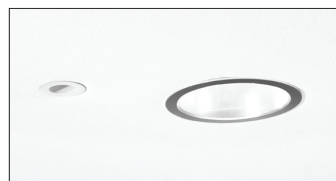
REFLECTOR FINISH DETAILS



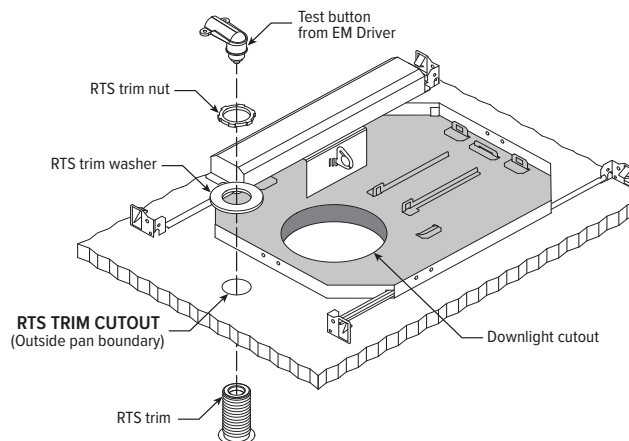
MOUNTING TYPE DETAILS



EM/10W/RTS DETAILS



Shown Installed

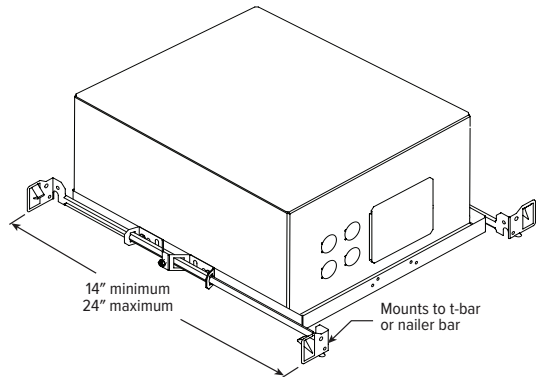
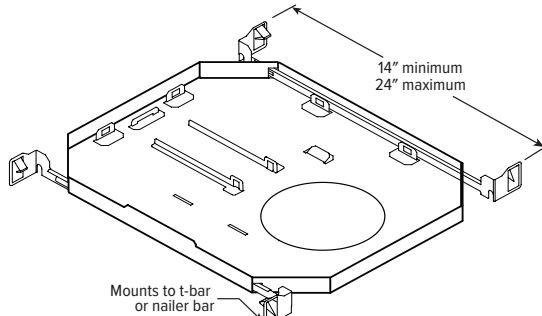


6DR LED

6" Downlight – Round

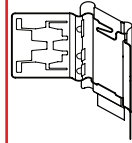
MOUNTING HARDWARE DETAILS

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

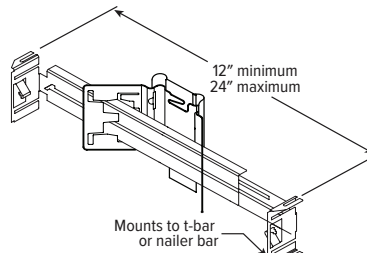


F1 with I Mounting Type

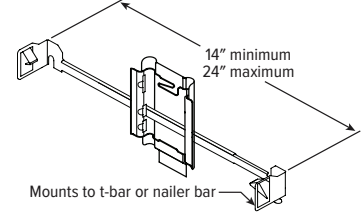
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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)

