

CATALOG #: _____

TYPE: _____

PROJECT: _____

FEATURES

- Tunable color, including white tuning, from 1650K to 8000K, minimum 90 CRI
- Square shape accentuates architectural styles
- Open reflector with 7 finishes to complement any interior style
- Die cast trim choices include flush, regressed or angled lens
- Spring clip retention system eliminates trim sag
- 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.
- 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. Minimum 24" O.C. marked spacing required for L18 lumen package.
- 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 option.
 - RoHS compliant.
- WARRANTY** – 5-year limited warranty, see hew.com/warranty.

ORDERING EXAMPLE:^[1] **6DS - L18/9TC - OPTIONS - DIM - 120 - LW - OF - WH - TRIM OPTIONS - N - F1**
 HOUSING TRIM MOUNT.

HOUSING

SERIES	LUMENS ^[2]	COLOR	OPTIONS	CONTROL	VOLTAGE
6DS	L12 1,200lm	9TC Tunable color (90 CRI, 1650K-8000K)	F Fuse kit	BTL Bluetooth LE enabled	120 120V
	L18 1,800lm		SDT Stepdown transformer ^[3]	DALI DALI Type 8 enabled	277 277V
				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 ^[4]	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
O Open reflector	W Wide	OF 1/2" standard flange	Open trim types	MWT Textured white trim flange ^[8]
L Flush lens	55° Open	SF 1/4" mud-in flange ^[7]	CS Clear semi-specular anodize	MB Regressed lens trim with texture black splay and white flange ^[9]
R Regressed lens	65° Flush		SG Satin-glow anodize	IP IP65 rated trim ^[10]
A Angled lens ^[5]	65° Regressed		GD Gold anodize	AD Diffuse acrylic lens ^[11]
	WW Wall wash ^[6]		CG Champagne gold anodize	PD Diffuse 1/8" polycarbonate lens ^[12]
			PW Pewter anodize	WET/CC Wet location, covered ceiling listed ^[13]
			SPC Clear specular anodize	
			RG Rose gold anodize	
			Lens trim types	
			CS Clear semi-specular powder coat	
			WH White texture powder coat	
			BL Black texture powder coat	

MOUNTING

MOUNTING TYPE ^[14]	MOUNTING HARDWARE ^[15]
N Open pan for new construction	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

- Housing, trim, and mounting ship separately.
- Lumen output based on L trim type, W distribution and WH finish, 4000K/90CRI. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- May be required for 347V, see product builder at hew.com
- Beam angle based on CS or WH reflector finish.
- Available with WW Distribution only.
- 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 IP option.
- 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.
- L and R Trim Types only. Wide distribution only.
- Not available with O Trim Type. Reduces lumen output, use .85 multiplier.
- Mounting hardware required, ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- See page 4 for MOUNTING HARDWARE DETAILS.



FIXTURE PERFORMANCE DATA

OPEN REFLECTOR TRIM TYPE

LED PACKAGE	DIST.	COLOR	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L12	W	4000K	1133	24.0	47.2
		RED	120	4.1	29.3
		BLUE	54	6.9	7.8
		GREEN	383	10.8	35.5
L18	W	4000K	1732	40.1	43.2
		RED	183	6.8	26.9
		BLUE	82	11.5	7.1
		GREEN	586	18.0	32.6

FLUSH LENS TRIM TYPE

LED PACKAGE	DIST.	COLOR	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L12	W	4000K	1205	24.0	50.2
		RED	127	4.1	31.0
		BLUE	57	6.9	8.3
		GREEN	408	10.8	37.8
L18	W	4000K	1667	40.1	41.6
		RED	176	6.8	25.9
		BLUE	79	11.5	6.9
		GREEN	564	18.0	31.3

REGRESSED LENS TRIM TYPE

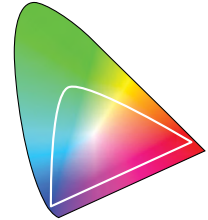
LED PACKAGE	DIST.	COLOR	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L12	W	4000K	1158	24.0	48.3
		RED	122	4.1	29.8
		BLUE	55	6.9	8.0
		GREEN	392	10.8	36.3
L18	W	4000K	1771	40.1	44.2
		RED	187	6.8	27.5
		BLUE	84	11.5	7.3
		GREEN	599	18.0	33.3

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

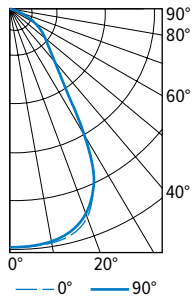
CATALOG NUMBER	REFLECTOR FINISH	CONVERSION FACTOR
CS	Clear semi-specular	1.00
SG	Satin-glow	0.92
GD	Gold	0.93
CG	Champagne Gold	0.96
PW	Pewter	0.86
SPC	Specular	1.02
RG	Rose Gold	0.88
WH	White, textured	0.89
BL	Black, textured	0.79



- 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

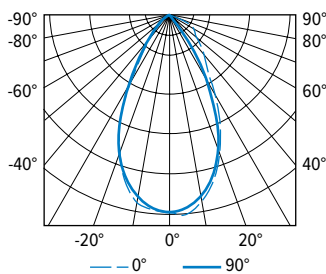
6DS-L18/9TC-DIM-120-LW-OF-WH Total Luminaire Output: 1667 lumens; 40.1 Watts | Efficacy: 41.6 lm/W | 97.6 CRI; 3905K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1126	1126	1126	
5	1129	1123	1125	107
15	1103	1089	1089	308
25	919	1013	923	430
35	420	678	422	338
45	255	294	249	215
55	161	165	160	146
65	83	83	80	83
75	32	31	30	34
85	2	2	3	6
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	845	51
	0 - 40	1183	71
	0 - 60	1544	93
	0 - 90	1667	100
	0 - 180	1667	100

6DS-L18/9TC-DIM-120-OWW-OF-CS Total Luminaire Output: 1666 lumens; 40.1 Watts | Efficacy: 41.6 lm/W | 97.6 CRI; 3905K CCT



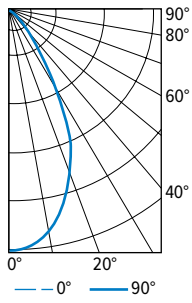
VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
	0°	45°	90°	135°	180°	
0	1742	1742	1742	1742	1742	
5	1763	1745	1711	1706	1723	162
15	1524	1511	1484	1515	1520	419
25	1075	1089	1017	1086	964	479
35	613	589	396	530	401	322
45	425	248	129	172	163	165
55	291	68	16	26	29	71
65	234	13	0	0	2	35
75	92	1	0	0	0	13
85	0	0	0	0	0	1
90	0	0	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1060	64
	0 - 40	1381	83
	0 - 60	1617	97
	0 - 90	1666	100
	0 - 180	1666	100



6DS tunable COLOR 6" Downlight – Square

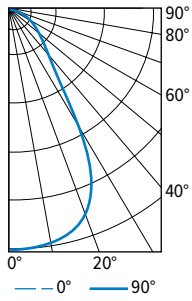
6DS-L18/9TC-DIM-120-OW-OF-CS Total Luminaire Output: 1732 lumens; 40.1 Watts | Efficacy: 43.2 lm/W | 97.6 CRI; 3905K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	1995	1995	1995	
	5	1981	1968	1960	185
	15	1701	1704	1688	474
	25	1187	1232	1169	545
	35	488	670	477	360
	45	140	217	136	141
	55	16	29	16	26
	65	0	0	0	1
	75	0	0	0	0
	85	0	0	0	0
	90	0	0	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1204	70
	0 - 40	1564	90
	0 - 60	1731	100
	0 - 90	1732	100
	0 - 180	1732	100

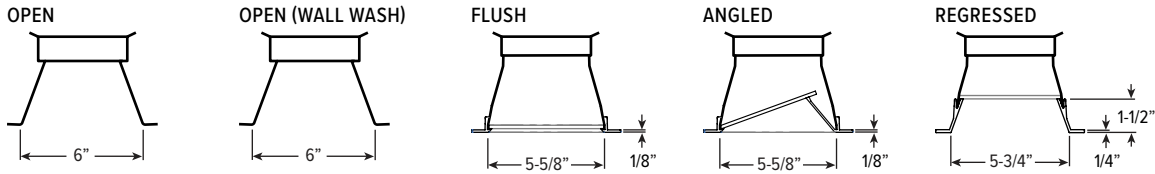
6DS-L18/9TC-DIM-120-RW-OF-WH Total Luminaire Output: 1771 lumens; 40.1 Watts | Efficacy: 44.2 lm/W | 97.6 CRI; 3905K CCT



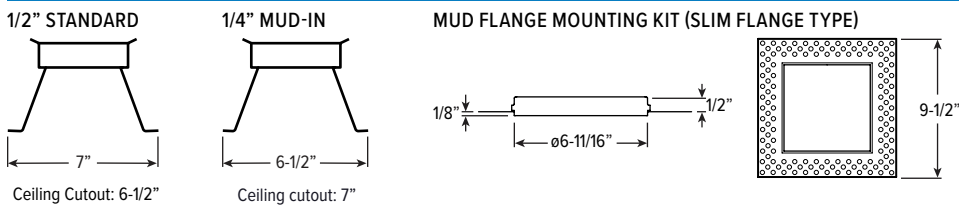
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	1259	1259	1259	
	5	1258	1253	1253	119
	15	1217	1220	1210	343
	25	1014	1110	1016	477
	35	441	761	454	370
	45	254	295	253	217
	55	156	149	154	140
	65	79	71	77	76
	75	21	23	20	25
	85	3	3	3	5
	90	0	0	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	939	53
	0 - 40	1309	74
	0 - 60	1666	94
	0 - 90	1771	100
	0 - 180	1771	100

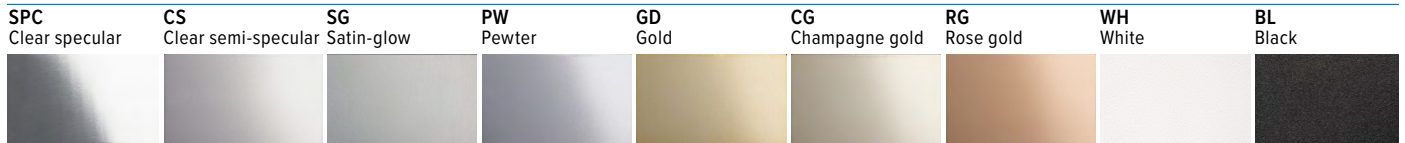
TRIM TYPE DETAILS



FLANGE TYPE DETAILS

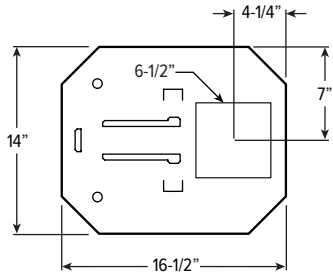


REFLECTOR FINISH DETAILS



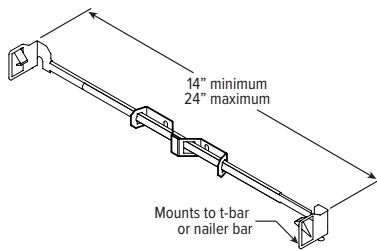
MOUNTING TYPE DETAILS

NEW CONSTRUCTION

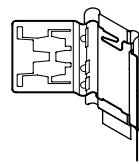


MOUNTING HARDWARE DETAILS

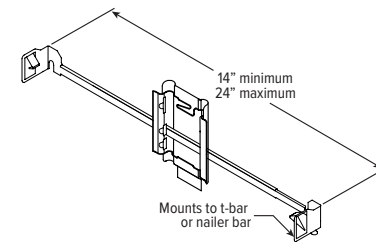
F1 2-Position fixed pan bracket, universal bar hanger included



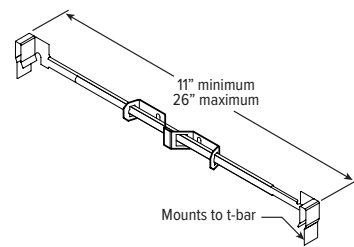
BA1 Adjustable butterfly pan bracket, bar hanger not included



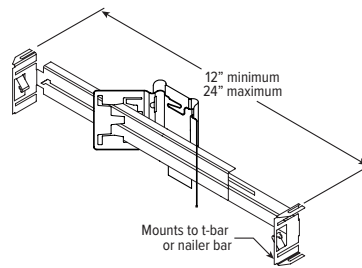
CA1 Adjustable caterpillar pan bracket, universal bar hanger included



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

