

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. Marked spacing required for L18 and L31 lumen packages, consult factory.
- 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 option.
 - Complies with ASTM-E283 when specified with ATH option.
 - RoHS compliant.
- WARRANTY** – 5-year limited warranty, see hew.com/warranty.

ORDERING EXAMPLE:^[1] 6DS - L31/9TC - OPTIONS - DIM - UNV - 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)	ATH Airtight construction	BTL Bluetooth LE enabled	UNV 120-277V 347 347V
	L18 1,800lm		F Fuse kit	DALI DALI Type 8 enabled	
	L31 3,100lm		SDT Stepdown transformer ^[3]	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)	
				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	
	WW Wall wash ^[6]		CG Champagne gold anodize	AD Diffuse acrylic lens ^[11]
			PW Pewter anodize	WET/CC Wet location, covered ceiling listed ^[12]
			SPC Clear specular anodize	
			RG Rose gold anodize	
			Lens trim types	
			WH White texture powder coat	
			BL Black texture powder coat	

MOUNTING

MOUNTING TYPE^[13]

N Open pan for new construction

MOUNTING HARDWARE^[14]

- 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

- ¹ Housing, trim, and mounting ship separately.
- ² 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.
- ³ May be required for 347V, see product builder at hew.com
- ⁴ Beam angle based on CS or WH reflector finish.
- ⁵ Available with WW Distribution only.
- ⁶ O and A Trim Types only.
- ⁷ For use with mud-in plaster construction only, supplied with mud flange installation kit, see page 4 for FLANGE TYPE DETAILS, not available with ATH or IP options.
- ⁸ O Trim Type and OF Flange Type only. Not available with WH Reflector Finish.
- ⁹ R trim type only.
- ¹⁰ L and R trim types only.
- ¹¹ L and R Trim Types only. Wide distribution only.
- ¹² Not available with O Trim Type.
- ¹³ Mounting hardware required, ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- ¹⁴ 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
L18	W	4000K	1732	40.1	43.2
		RED	183	6.8	26.9
		BLUE	82	11.5	7.1
L31	W	4000K	2924	74.9	39.0
		RED	312	12.8	24.4
		BLUE	139	21.5	6.5
		GREEN	995	33.7	29.5

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
L18	W	4000K	1667	40.1	41.6
		RED	176	6.8	25.9
		BLUE	79	11.5	6.9
L31	W	4000K	3137	74.9	41.9
		RED	332	12.8	25.9
		BLUE	148	21.5	6.9
		GREEN	1059	33.7	31.4

REGRESSED LENS TRIM TYPE

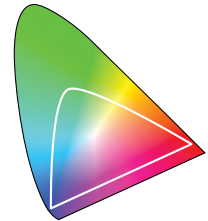
LED PACKAGE	DIST.	COLOR	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L12	W	4000K	1158	24.0	48.3
		RED	122	4.1	29.8
		BLUE	55	6.9	8.0
L18	W	4000K	1771	40.1	44.2
		RED	187	6.8	27.5
		BLUE	84	11.5	7.3
L31	W	4000K	3008	74.9	40.2
		RED	319	12.8	24.9
		BLUE	142	21.5	6.6
		GREEN	1018	33.7	30.2

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

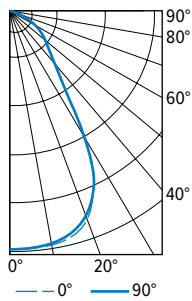
CATALOG NUMBER	REFLECTOR FINISH	CONVERSION FACTOR
CS	Clear semi-specular	1.00
SG	Satin-glow	0.92
GD	Gold	0.93
CG	Champagne Gold	0.96
PW	Pewter	0.86
SPC	Specular	1.02
RG	Rose Gold	0.88
WH	White, textured	0.89
BL	Black, textured	0.79



- 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

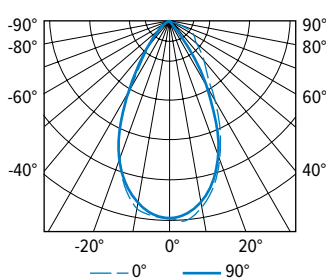
6DS-L31/9TC-DIM-UNV-LW-OF-WH Total Luminaire Output: 3137 lumens; 74.9 Watts | Efficacy: 41.9 lm/W | 97.6 CRI; 3905K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	2119	2119	2119	
5	2125	2114	2117	201
15	2076	2049	2049	579
25	1729	1907	1737	809
35	791	1276	794	637
45	480	554	470	405
55	304	311	300	275
65	156	156	151	156
75	60	59	57	65
85	5	3	6	11
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1590	51
	0 - 40	2227	71
	0 - 60	2906	93
	0 - 90	3137	100
	0 - 180	3137	100

6DS-L31/9TC-DIM-UNV-OWW-OF-CS Total Luminaire Output: 2813 lumens; 74.9 Watts | Efficacy: 37.6 lm/W | 97.6 CRI; 3905K CCT



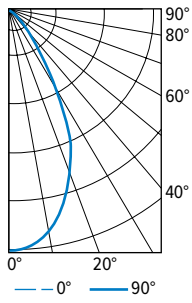
VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
	0°	45°	90°	135°	180°	
0	2941	2941	2941	2941	2941	
5	2978	2946	2889	2881	2910	274
15	2573	2552	2505	2558	2567	708
25	1815	1839	1717	1833	1628	808
35	1036	995	669	895	676	543
45	717	418	217	290	275	278
55	491	115	27	44	48	119
65	396	21	0	0	3	60
75	156	2	0	0	0	22
85	0	0	0	0	0	1
90	0	0	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1790	64
	0 - 40	2333	83
	0 - 60	2730	97
	0 - 90	2813	100
	0 - 180	2813	100



6DS tunable COLOR 6" Downlight – Square

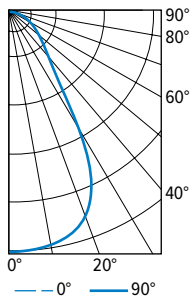
6DS-L31/9TC-DIM-UNV-OW-OF-CS Total Luminaire Output: 2924 lumens; 74.9 Watts | Efficacy: 39.0 lm/W | 97.6 CRI; 3905K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	3367	3367	3367	
5	3343	3322	3308	312
15	2871	2877	2849	800
25	2004	2079	1974	920
35	824	1131	805	607
45	236	365	230	238
55	27	48	27	44
65	0	0	0	1
75	0	0	0	0
85	0	0	0	0
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	2032	70
	0 - 40	2640	90
	0 - 60	2922	100
	0 - 90	2924	100
	0 - 180	2924	100

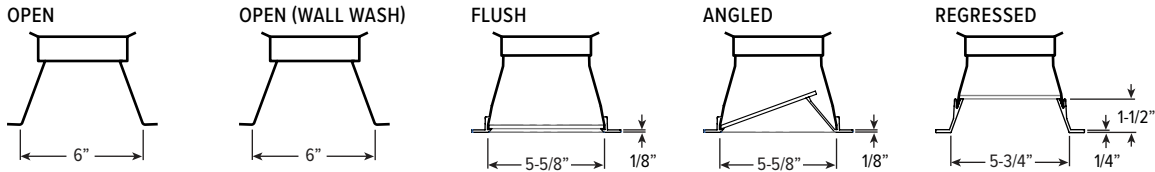
6DS-L31/9TC-DIM-UNV-RW-OF-WH Total Luminaire Output: 3008 lumens; 74.9 Watts | Efficacy: 40.2 lm/W | 97.6 CRI; 3905K CCT



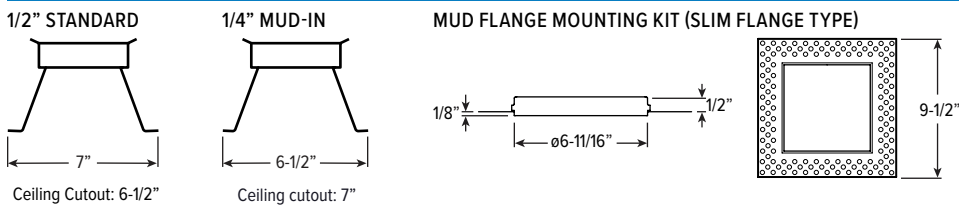
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	2138	2138	2138	
5	2137	2128	2128	203
15	2067	2072	2055	582
25	1723	1884	1726	810
35	749	1293	772	629
45	432	501	430	368
55	266	254	261	237
65	134	121	131	128
75	36	39	35	43
85	5	5	5	8
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1595	53
	0 - 40	2224	74
	0 - 60	2829	94
	0 - 90	3008	100
	0 - 180	3008	100

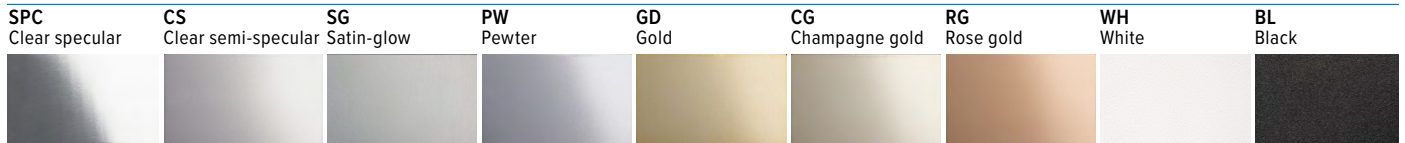
TRIM TYPE DETAILS



FLANGE TYPE DETAILS

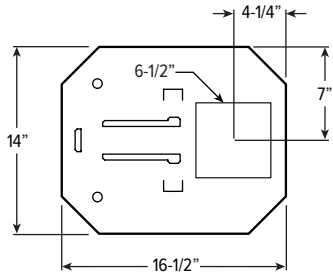


REFLECTOR FINISH DETAILS



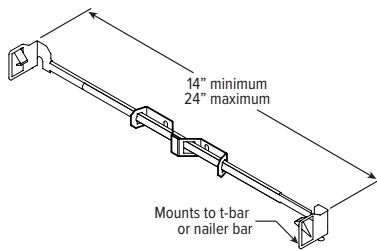
MOUNTING TYPE DETAILS

NEW CONSTRUCTION

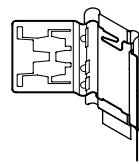


MOUNTING HARDWARE DETAILS

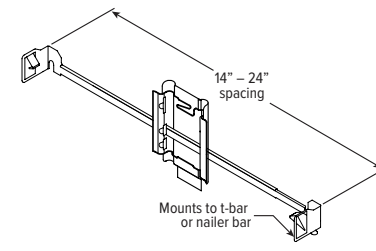
F1 2-Position fixed pan bracket, universal bar hanger included



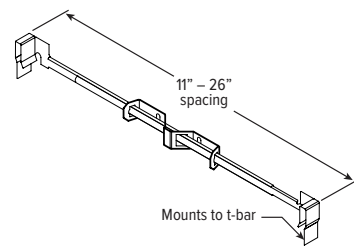
BA1 Adjustable butterfly pan bracket, bar hanger not included



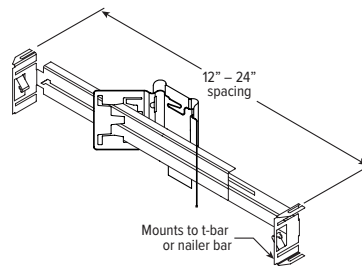
CA1 Adjustable caterpillar pan bracket, universal bar hanger included



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

