

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

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" - 1-1/4" (consult factory for additional ceiling thicknesses).
- OPEN REFLECTOR** – Low-iridescent anodized aluminum with top diffuser.
- LENSED TRIM** – Die-cast aluminum frame with micro-prismatic, tempered glass lens.
- ELECTRICAL** – Five color, mid-power ERP-Lumenetix araya5 LED modules and contols. 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.

SYSTEM REQUIREMENTS

- Fixtures are shipped with factory default settings, iOS mobile app required for proper commissioning
- For additional info, see **APPLICATION NOTES** at erp-power.com/design-resources/technical-documentation

ORDERING EXAMPLE: 6DS - L18/9TC - OPTIONS - DIM - 120 - LW - OF - WH - TRIM OPTIONS - N - F1
 HOUSING TRIM MOUNT

HOUSING

SERIES	LUMENS ^[1]	COLOR	OPTIONS	CONTROL	VOLTAGE
6DS	L12 1,200lm L18 1,800lm	9TC Tunable color (90 CRI, 1650K-8000K)	F Fuse kit	DALI DALI Type 8 enabled DIM (1) 0-10V signal to control dimming; (1) 0-10V signal to control either CCT or select up to five preset colors	120 120V 277 277V
				DMX DMX enabled LUT Lutron Ecosystem enabled ^[2] WS Wattstopper DLM enabled ^[3]	

TRIM ^[4]

TRIM TYPE	DISTRIBUTION ^[5]	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		CS Clear semi-specular anodize	IP IP65 rated trim ^[9]
R Regressed lens	65° Flush		SG Satin-glow anodize	AD Diffuse acrylic lens ^[10]
A Angled lens ^[6]	65° Regressed		GD Gold anodize	PD Diffuse 1/8" polycarbonate lens ^[11]
	WW Wall wash ^[7]		CG Champagne gold anodize	WET/CC Wet location, covered ceiling listed ^[12]
			PW Pewter anodize	AM Anti-microbial ^[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	
			MB Black texture splay with white flange ^[14]	

MOUNTING

MOUNTING TYPE ^[15]

N Open pan for new construction

MOUNTING HARDWARE ^[16]

F1 Factory-installed 2-position fixed pan bracket, universal bar hanger included ^[17]
 BA1 Adjustable butterfly pan bracket, bar hanger not included
 CA1 Adjustable caterpillar pan bracket, universal bar hanger included

NOTES

- 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.
- CCT control only.
- CCT control only.
- Trim ships separately.
- Beam angle based on CS or WH reflector finish.
- Available with WW Distribution only.
- O and A Trim Types only.
- Not available with WH Reflector Finish or L Trim Type.
- L and R trim types only.
- Not available with O trim type. W distribution only.
- Not available with O trim type. W distribution only.
- Not available with O Trim Type.
- WH and BL Reflector Finishes only.
- R Trim Type only.
- Mounting hardware required, ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- Additional mounting hardware options available. See page 4 for MOUNTING HARDWARE DETAILS.
- Universal bar hanger ships uninstalled.



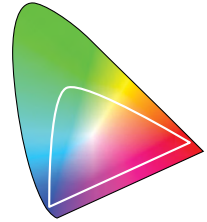
FIXTURE PERFORMANCE DATA

OPEN REFLECTOR TRIM TYPE

	COLOR	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L12	4000K	W	1133	24.0	47.2
	RED		120	4.1	29.3
	BLUE		54	6.9	7.8
	GREEN		383	10.8	35.5
L18	4000K	W	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

	COLOR	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L12	4000K	W	1205	24.0	50.2
	RED		127	4.1	31.0
	BLUE		57	6.9	8.3
	GREEN		408	10.8	37.8
L18	4000K	W	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

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

MULTIPLIER TABLES

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

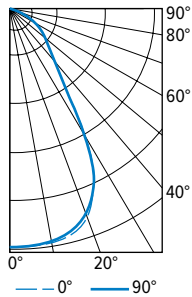
OPEN REFLECTOR FINISH		
CATALOG NUMBER	REFLECTOR FINISH	CONVERSION FACTOR
CS	Clear semi-specular	1.00
SG	Satin-glow	0.92
GD	Gold	0.93
CG	Champagne Gold	0.96
PW	Pewter	0.86
SPC	Specular	1.02
RG	Rose Gold	0.88
WH	White, textured	0.89
BL	Black, textured	0.79

TRIM	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85

- 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

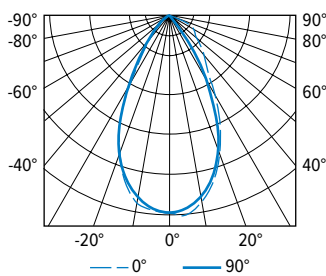
6DS-L18/9TC-DIM-120-LW-OF-WH Total Luminaire Output: 1667 lumens; 40.1 Watts | Efficacy: 41.6 lm/W | 97.6 CRI; 3905K CCT



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



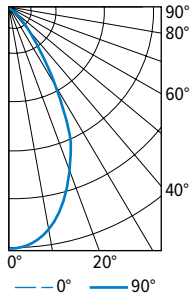
VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
	0°	45°	90°	135°	180°	
0	1742	1742	1742	1742	1742	
5	1763	1745	1711	1706	1723	162
15	1524	1511	1484	1515	1520	419
25	1075	1089	1017	1086	964	479
35	613	589	396	530	401	322
45	425	248	129	172	163	165
55	291	68	16	26	29	71
65	234	13	0	0	2	35
75	92	1	0	0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

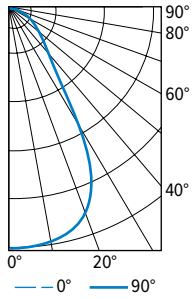
6DS-L18/9TC-DIM-120-OW-OF-CS Total Luminaire Output: 1732 lumens; 40.1 Watts | Efficacy: 43.2 lm/W | 97.6 CRI; 3905K CCT



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	

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

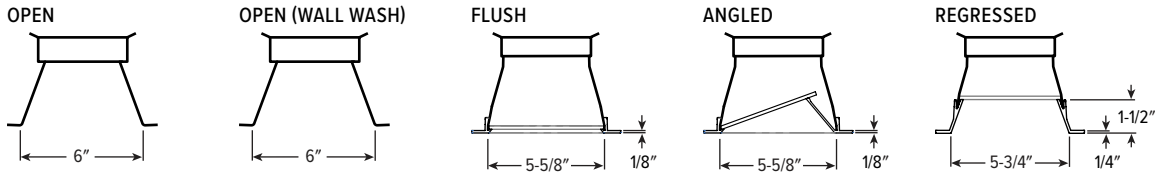
6DS-L18/9TC-DIM-120-RW-OF-WH Total Luminaire Output: 1771 lumens; 40.1 Watts | Efficacy: 44.2 lm/W | 97.6 CRI; 3905K CCT



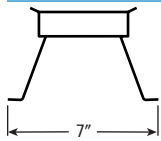
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	1259	1259	1259	
	5	1258	1253	1253	119
	15	1217	1220	1210	343
	25	1014	1110	1016	477
	35	441	761	454	370
	45	254	295	253	217
	55	156	149	154	140
	65	79	71	77	76
	75	21	23	20	25
	85	3	3	3	5
	90	0	0	0	

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

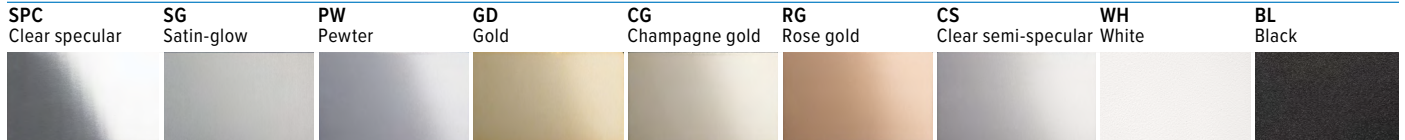


FLANGE TYPE DETAILS

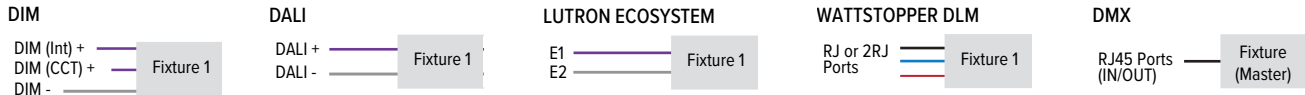


Ceiling Cutout: 6-1/2"

REFLECTOR FINISH DETAILS



CONTROL DETAILS

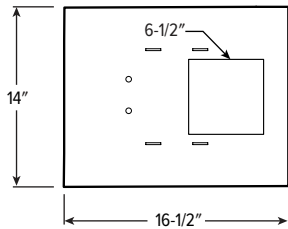


PROTOCOL	(1) DIMMING ^[1]	(2) CCT	(3) SATURATION	(4) HUE
0-10V DIM ^[4]	1%	1650 - 8000K	[2]	[2]
DALI TYPE 8	0.1%	—	—	—
LUTRON ECOSYSTEM ^[3]	0.1%	1650 - 8000K	—	—
WATTSTOPPER DLM ^[3]	0.1%	1650 - 8000K	—	—
DMX512-A-RDM ^[3]	0.1%	1650 - 8000K	1 - 100%	1 - 60°

- 100 – 0.1% dimming is available when connected to 0.1% dimming capable digital controls. 100 – 1% dimming is available with analog 0 – 10V control.
- Two 0 – 10V lines can be used to control DIM and CCT independently, or program Scenes – in any combination of DIM, CCT, HUE and SAT – and recall them with five 0 - 10V presets.
- May be limited to 1% dimming by controller; see control system specification for details.
- 1 – 10V signal dims module to approximately 1%. In-line power relay required to achieve 0% output.

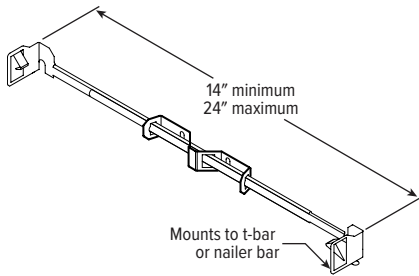
MOUNTING TYPE DETAILS

NEW CONSTRUCTION

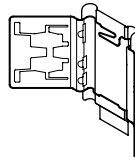


MOUNTING HARDWARE DETAILS

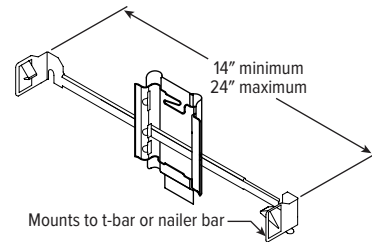
F1 Factory-installed 2-position fixed pan bracket, universal bar hanger included, ships uninstalled



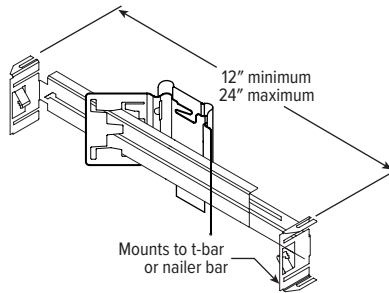
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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



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



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

