

CATALOG #: _____

TYPE: _____

PROJECT: _____

FEATURES

- Tunable color, including white tuning, from 1650K to 8000K, minimum 90 CRI
- 4 inch aperture is unobtrusive in small scale spaces
- 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 L16, 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] 4DS - L16/9TC - OPTIONS - DIM - UNV - LW - OF - WH - TRIM OPTIONS - N - F1

HOUSING

SERIES	LUMENS ^[2]	COLOR	OPTIONS	CONTROL	VOLTAGE
4DS	L11 1,100lm	9TC Tunable color (90 CRI, 1650K-8000K)	ATH Airtight construction	BTL Bluetooth LE enabled	UNV 120-277V 347 347V
	L16 1,600lm		F Fuse kit	DALI DALI Type 8 enabled	
			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
L Flush lens	W Wide	OF 1/2" standard flange	Open trim types	MWT Textured white trim flange ^[8]
O Open reflector	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	60° Flush		SG Satin-glow anodize	
A Angled lens ^[5]	60° Regressed		GD Gold anodize	IP IP65 rated trim ^[10]
	WW Wall wash ^[6]		CG Champagne gold anodize	
			PW Pewter anodize	AD Diffuse acrylic lens ^[11]
			SPC Clear specular anodize	
			RG Rose gold anodize	WET/CC Wet location, covered ceiling listed ^[12]
			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 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 ATH or IP options.
- 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.
- Not available with O Trim Type.
- Mounting hardware required, ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- See page 5 for MOUNTING HARDWARE DETAILS.



4DS tunable COLOR 4.5" Downlight – Square

FIXTURE PERFORMANCE DATA

OPEN REFLECTOR TRIM TYPE

LED PACKAGE	COLOR	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L11	4000K	W	1021	24.0	42.5
	RED		108	4.1	26.3
	BLUE		48	6.9	7.0
	GREEN		345	10.8	31.9
L16	4000K	W	1561	40.1	38.9
	RED		165	6.8	24.3
	BLUE		74	11.5	6.4
	GREEN		528	18.0	29.3

FLUSH LENS TRIM TYPE

LED PACKAGE	COLOR	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L11	4000K	W	1106	24.0	46.1
	RED		117	4.1	28.5
	BLUE		52	6.9	7.5
	GREEN		374	10.8	34.6
L16	4000K	W	1691	40.1	42.2
	RED		179	6.8	26.3
	BLUE		80	11.5	7.0
	GREEN		572	18.0	31.8

REGRESSED LENS TRIM TYPE

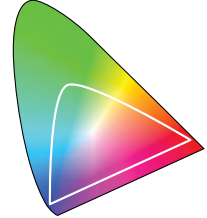
LED PACKAGE	COLOR	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L11	4000K	W	1062	24.0	44.3
	RED		112	4.1	27.3
	BLUE		50	6.9	7.2
	GREEN		359	10.8	33.2
L16	4000K	W	1625	40.1	40.5
	RED		172	6.8	25.3
	BLUE		77	11.5	6.7
	GREEN		549	18.0	30.5

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

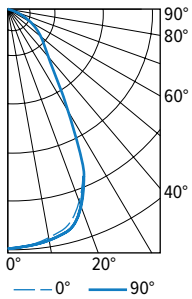
CATALOG NUMBER	REFLECTOR FINISH	CONVERSION FACTOR
CS	Clear semi-specular	1.00
SG	Satin-glow	0.92
GD	Gold	0.93
CG	Champagne Gold	0.96
PW	Pewter	0.86
SPC	Specular	1.02
RG	Rose Gold	0.88
WH	White, textured	0.89
BL	Black, textured	0.79



- 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

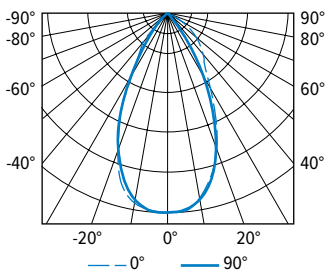
4DS-L16/9TC-DIM-UNV-LW-OF-WH Total Luminaire Output: 1691 lumens; 40.1 Watts | Efficacy: 42.2 lm/W | 97.6 CRI; 3905K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1258	1258	1258	
5	1246	1246	1247	118
15	1175	1192	1200	334
25	912	1033	915	434
35	413	628	405	318
45	261	283	259	213
55	158	162	157	146
65	83	81	81	84
75	35	34	35	38
85	4	3	5	7
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	886	52
	0 - 40	1204	71
	0 - 60	1563	92
	0 - 90	1691	100
	0 - 180	1691	100

4DS-L16/9TC-DIM-UNV-OWW-OF-CS Total Luminaire Output: 1555 lumens; 40.1 Watts | Efficacy: 38.8 lm/W | 97.6 CRI; 3905K CCT



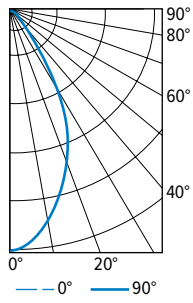
VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
	0°	45°	90°	135°	180°	
0	1646	1646	1646	1646	1646	
5	1644	1636	1637	1639	1638	154
15	1402	1416	1410	1479	1469	399
25	958	1002	917	1045	926	442
35	548	512	361	497	424	300
45	401	236	118	171	158	161
55	242	74	17	27	19	66
65	147	16	0	0	0	26
75	49	0	0	0	0	8
85	0	0	0	0	0	0
90	0	0	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	995	64
	0 - 40	1295	83
	0 - 60	1521	98
	0 - 90	1555	100
	0 - 180	1555	100



4DS tunable COLOR 4.5" Downlight – Square

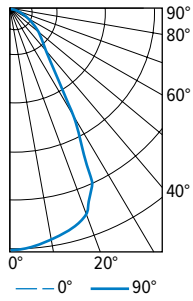
4DS-L16/9TC-DIM-UNV-OW-OF-CS Total Luminaire Output: 1561 lumens; 40.1 Watts | Efficacy: 39.0 lm/W | 97.6 CRI; 3905K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	2006	2006	2006	
5	1949	1931	1921	179
15	1588	1485	1554	428
25	1142	1038	1126	489
35	435	617	410	324
45	124	160	125	114
55	21	27	18	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	1096	70
	0 - 40	1420	91
	0 - 60	1560	100
	0 - 90	1561	100
	0 - 180	1561	100

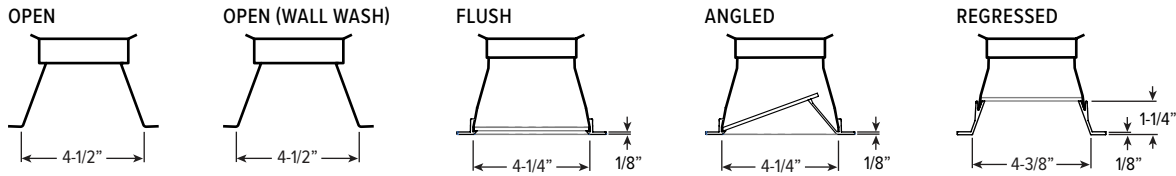
4DS-L16/9TC-DIM-UNV-RW-OF-WH Total Luminaire Output: 1625 lumens; 40.1 Watts | Efficacy: 40.5 lm/W | 97.6 CRI; 3478K CCT



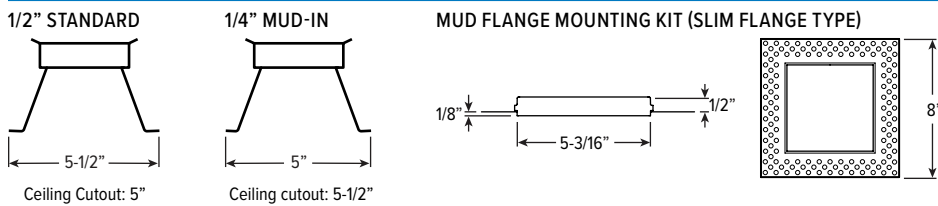
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1240	1240	1240	
5	1233	1232	1237	117
15	1176	1181	1197	333
25	991	1065	988	455
35	370	683	371	320
45	222	247	221	185
55	138	133	136	124
65	66	62	64	65
75	18	20	19	22
85	3	2	3	4
90	0	0	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	906	56
	0 - 40	1225	75
	0 - 60	1534	94
	0 - 90	1625	100
	0 - 180	1625	100

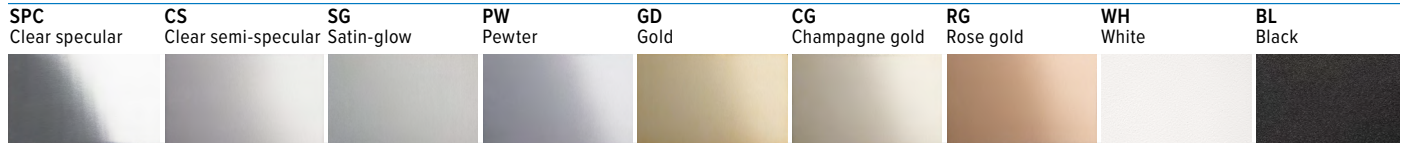
TRIM TYPE DETAILS



FLANGE TYPE DETAILS



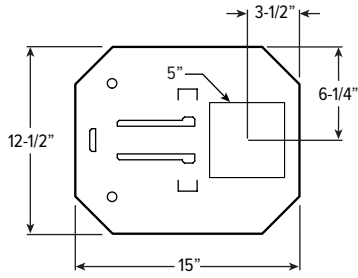
REFLECTOR FINISH DETAILS



4DS tunable COLOR 4.5" Downlight – Square

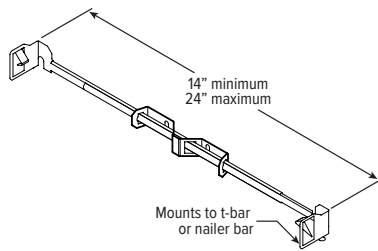
MOUNTING TYPE DETAILS

NEW CONSTRUCTION

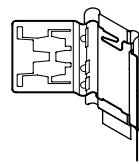


MOUNTING HARDWARE DETAILS

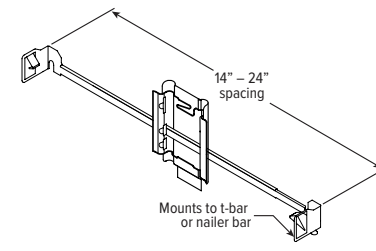
F1 2-Position fixed pan bracket, universal bar hanger included



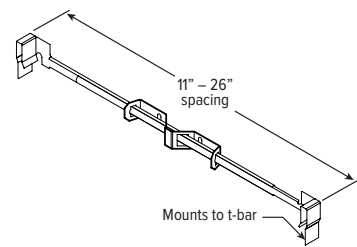
BA1 Adjustable butterfly pan bracket, bar hanger not included



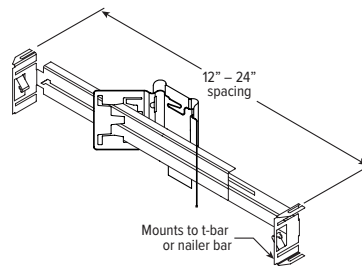
CA1 Adjustable caterpillar pan bracket, universal bar hanger included



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

