# S LED 4.5" Shallow Plenum Downlight – Square



MOUNT.



# L10 - L20: 3-3/4" L30 - L40: 5-1/4" 1/2" min 1-1/2" max 15

CATALOG #: \_ TYPF. PROJECT: \_

\_\_\_ TRIM \_\_\_

### **NEW CONSTRUCTION AND REMODEL**

#### **FEATURES**

- Slim 5" depth for minimal plenum space applications
- Beam angles ranging from 30° narrow to 75° wide for tailored performance
- 4 inch aperture is unobtrusive in small scale spaces
- Square shape accentuates architectural styles
- Spring clip retention system eliminates trim sag
- Die cast trim with flush lens provides glare-free illumination for a soft ceiling appearance
- Industry-leading efficacies as high as
- Fully room-side accessible

#### **SPECIFICATIONS**

- HOUSING Formed steel housing with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Mounting clips allow for ceiling thickness from 1/2" - 1-1/2" (consult factory for additional ceiling thicknesses).
- LENSED TRIM Die-cast aluminum frame with micro-prismatic, tempered glass
- 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 L40 lumen package.
- 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.
  - 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.
- WARRANTY 5-year limited warranty, see hew.com/warranty.

# **HOUSING**

SERIES	LUMENS [1]	CRI	ССТ	OPTIONS		CONTROL <sup>[2]</sup>	VOLTAGE
4PS	<b>L10</b> 1,000lm	8 80 9 90 [3]	<b>27</b> 2700K <b>30</b> 3000K	EM/7W	7-watt emergency battery <sup>[4]</sup>	DIM Dimming driver, 0-10V	UNV 120-277V 347 347V [9]
	<b>L15</b> 1,500lm <b>L20</b> 2,000lm	9 90 101	<b>35</b> 3500K	EM/10W	10-watt emergency battery [5]	DIM1 1% Dimming driver, 0-10V	<b>347</b> 347V (3)
	<b>L30</b> 3,000lm <b>L40</b> 4,000lm		<b>40</b> 4000K <b>50</b> 5000K	EM/10W/RTS	5 10-watt emergency battery with regressed test switch [6]	2, 2	
				ATH	Airtight construction		
				СР	Chicago plenum (CCEA) <sup>[7]</sup>		
				F	Fuse kit		
				SDT	Stepdown transformer [8]		

ORDERING EXAMPLE: 4PS - L40/835 - OPTIONS - DIM - UNV - LW - OF - WH - TRIM OPTIONS -

— HOUSING –

#### TRIM [10]

TRIM TYPE	DISTRIBUTION [11]	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens	W 75° Wide M 35° Medium N 30° Narrow	OF 1/2" standard flange SF 1/4" mud-in flange [12]	CS Clear semi-specular powder coat  WH White texture powder coa  BL Black texture powder coa	I D Dilluse I/O
				WET/CC Wet location, covered ceiling listed
				AM Anti-microbial [15]

#### MOUNTING

#### MOUNTING TYPE [16]

- N Open pan for new construction
- I IC-rated enclosure for new construction [18]
- R Remodel kit [19]

#### MOUNTING HARDWARE [17]

- Integral 2-position fixed pan bracket, universal bar hanger included [20]
- BA1 Adjustable butterfly pan bracket, bar hanger not included [21] Adjustable caterpillar pan bracket, universal bar hanger included [22]

# **NOTES**

- Lumen output based on L trim type, W distribution and WH finish, 3500K/80CRI. Actual lumens may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- See page 3 for ADDITIONAL CONTROL OPTIONS.

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  Extended lead times may apply. Consult factory for availability.

  N and R Mounting Types only.

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  Not available with WET/CC, ATH or IP options. N and R Mounting Types only. See page 4 for EM/10W/RTS DETAILS.

  I Mounting Type required.

  May be required for 347V, see product builder at hew.com/product-builder

  Not available with FM batteries or DMX controls

- Not available with EM batteries or DMX controls.
- Trim ships separately.
   Beam angle based on WH reflector finish.

- <sup>12</sup> For use with mud-in plaster construction only, supplied with mud flange installation kit. See page 3 for FLANGE TYPE DETAILS. Not available with ATH or IP options.
- Wide distribution only.

- Wide distribution only.
   Wide distribution only.
   WH and BL Reflector Finishes only.
   Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 3 for MOUNTING TYPE DETAILS.
- Additional mounting hardware options available. See page 4 for MOUNTING HARDWARE DETAILS.
- L20 lumen package max.
- L20 lumen package max.
   Also used in new construction sheetrock ceilings.
   N and I Mounting Types only.

- N Mounting Type only.
  N Mounting Type only.

### FIXTURE PERFORMANCE DATA

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)
	W	1029	10.7	96.0
은	M	1064	10.7	99.2
	N	1030	10.7	96.0
	W	1581	17.2	91.8
13	М	1634	17.2	94.8
	N	1581	17.2	91.8
	W	2058	23.5	87.7
2	M	2127	23.5	90.6
	N	2059	23.5	87.7
	W	3087	33.2	92.9
8	M	3191	33.2	96.1
	N	3088	33.2	93.0
	W	4116	44.7	92.0
용	M	4261	44.7	95.3
	N	4122	44.7	92.2

#### **MULTIPLIER TABLES**

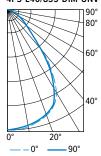
	COLOR TEMPERATURE			
	CCT CONVERSION FACTOR			
	2700K	0.92		
≂	3000K	0.98		
80 CRI	3500K	1.00		
	4000K	1.01		
	5000K	1.02		
	2700K	0.76		
~	3000K	0.79		
90 CRI	3500K	0.82		
8	4000K	0.84		
	5000K	0.88		

Т	TRIM		
CATALOG CONVERSION NUMBER 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.
- Wattage shown is based on I trim type, W distribution and WH finish, 3500K/80CRI, actual lumens may vary +/-5%
  Use multiplier tables to calculate additional options.

# **PHOTOMETRY**

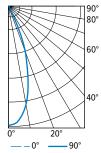
4PS-L40/835-DIM-UNV-LW-OF-WH Report #: 20339; 04/25/18 | Total Luminaire Output: 4116 lumens; 44.7 Watts | Efficacy: 92.0 lm/W | 82.8 CRI; 3431K CCT



	VERTICAL ANGLE	HORIZ	ZONTAL A	ZONAL LUMENS	
	VERTICAL ANGLE	0°	45°	90°	ZUNAL LUMENS
8	0	2316	2316	2316	
5	5	2315	2303	2302	220
문	15	2232	2221	2214	629
S	25	2087	2092	2065	964
2	35	1483	1764	1441	1016
8	45	667	1028	644	620
CANDLEPOWER DISTRIBUTION	55	382	429	367	358
ᅙ	65	208	205	203	205
S	75	88	87	87	93
	85	13	12	10	12
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
₹	0 - 30	1813	44
S	0 - 40	2829	69
핇	0 - 60	3806	93
ട്ട	0 - 90	4116	100
_	0 - 180	4116	100

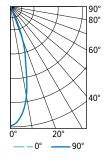
4PS-L40/835-DIM-UNV-LM-OF-WH Report #: 20341; 04/24/18 | Total Luminaire Output: 4261 lumens; 44.7 Watts | Efficacy: 95.3 lm/W | 82.8 CRI; 3431K CCT



	VEDTICAL ANCLE	HORIZ	ZONTAL A	ZONAL LUMENS	
	VERTICAL ANGLE	0°	45°	90°	ZUNAL LUMENS
DISTRIBUTION	0	9143	9143	9143	
5	5	8842	8817	8847	842
農	15	6053	6054	6011	1714
S	25	2094	2085	2088	967
쯢	35	611	616	649	388
8	45	226	244	238	182
CANDLEPOWER	55	100	111	103	93
를	65	48	52	52	50
S	75	21	21	24	22
	85	1	3	2	2
	90	0	0	0	

HIMEN CHMMADY	AKI	ZONE	LUMENS	% FIXTURE
Z		0 - 30	3523	83
=	5	0 - 40	3911	92
		0 - 60	4186	98
1	5	0 - 90	4261	100
		0 - 180	4261	100

4PS-L40/835-DIM-UNV-LN-OF-WH Report #: 20342; 04/24/18 | Total Luminaire Output: 4122 lumens; 44.7Watts | Efficacy: 92.2 lm/W | 82.8 CRI; 3431K CCT



	VERTICAL ANGLE	HORIZ	ZONTAL A	ZONAL LUMENS	
	VERTICAL ANGLE	0°	45°	90°	ZUNAL LUMENS
8	0	10746	10746	10746	
5	5	10121	10033	10007	958
CANDLEPOWER DISTRIBUTION	15	5673	5741	5643	1618
S	25	1750	1904	1859	850
2	35	485	522	550	324
No.	45	208	221	228	170
Œ,	55	118	129	125	112
ᅙ	65	57	67	63	63
CA	75	22	26	26	26
	85	0	2	3	2
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
ĭ	0 - 30	3425	83
S	0 - 40	3750	91
딟	0 - 60	4031	98
1	0 - 90	4122	100
	0 - 180	4122	100

### ADDITIONAL CONTROL OPTIONS

Lumen restrictions apply: L30 max for DMX driver, L30 max for Lutron drivers, L40 max for DIM LINE driver. 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

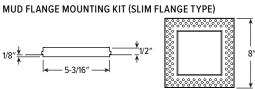
# **FLANGE TYPE DETAILS**









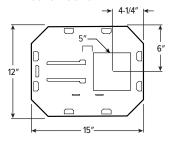


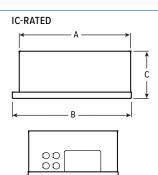
# **REFLECTOR FINISH DETAILS**



# **MOUNTING TYPE DETAILS**







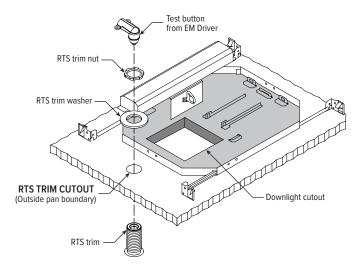
	LENGTH			
LUMENS	Α	В	С	D
L10 - L20	15-1/16"	16"	4-1/2"	12-1/8"

#### REMODEL Cross Section Driver and Junction Box - 5-1/4" -L10 - L20: 3-3/4" L30 - L40: 5-1/4" 4-1/8 4-1/4" Receiver Bracket 6-15/16" 2-3/4" 3-1/4″ ← Ceiling 1-1/8" min cutout -6-5/8"

### EM/10W/RTS DETAILS

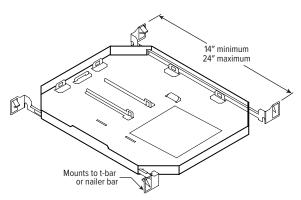


Shown Installed



### MOUNTING HARDWARE DETAILS

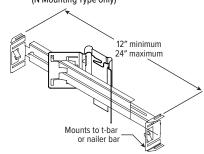
F1 Integral 2-position fixed pan bracket, universal bar hanger included



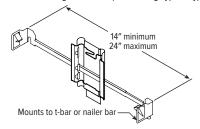
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



**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)

