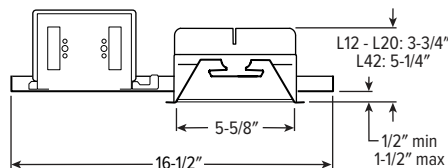


# 6PS tunable WHITE

## 6" Shallow Plenum Downlight – Square



CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_



### NEW CONSTRUCTION AND REMODEL

ORDERING EXAMPLE: 6PS - L20/8TW - OPTIONS - CONTROL/DIM - UNV - LW - OF - WH - TRIM OPTIONS - N - F1

### HOUSING

SERIES	LUMENS <sup>[1]</sup>	COLOR	OPTIONS	CONTROL	DRIVER	VOLTAGE
6PS	L12 1,200lm L20 2,000lm L42 4,200lm	8TW Tunable white (80 CRI, 2700K-5000K)	See page 3 for EMERGENCY BATTERY OPTIONS. See page 3 for APERTURE ADAPTOR ORDERING INFO. ATH Airtight construction CP Chicago plenum (CCEA) <sup>[2]</sup> F Fuse kit	– None AWNRLutron Athena wireless node integral fixture control, RF only <sup>[3]</sup>	See page 3 for DRIVER DETAILS. DALIDriver prewired for DALI applications DIMDimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT DMXDriver prewired for DMX applications LD2Lutron DALI-2 digital driver, 1% <sup>[4]</sup>	UNV 120-277V

### TRIM <sup>[5]</sup>

TRIM TYPE	DISTRIBUTION <sup>[6]</sup>	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens	W 85° Wide M 35° Medium <sup>[7]</sup> N 30° Narrow <sup>[8]</sup>	OF 1/2" standard flange SF 1/4" mud-in flange <sup>[9]</sup>	CS Clear semi-specular powder coat WH White texture powder coat BL Black texture powder coat	IP IP65 rated trim AD Diffuse acrylic lens <sup>[10]</sup> PD Diffuse 1/8" polycarbonate lens <sup>[11]</sup> WET/CC Wet location, covered ceiling listed AM Anti-microbial <sup>[12]</sup>

### MOUNTING

MOUNTING TYPE <sup>[13]</sup>	MOUNTING HARDWARE <sup>[14]</sup>
N Open pan for new construction I IC-rated enclosure for new construction <sup>[15]</sup> R Remodel kit <sup>[16]</sup>	F1 Integral 2-position fixed pan bracket, universal bar hanger included <sup>[17]</sup> BA1 Adjustable butterfly pan bracket, bar hanger not included <sup>[18]</sup> CA1 Adjustable caterpillar pan bracket, universal bar hanger included <sup>[19]</sup>

### NOTES

- <sup>1</sup> Lumen output based on L Trim Type, W Distribution and WH Reflector Finish, 80 CRI/4000K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- <sup>2</sup> I Mounting Type required.
- <sup>3</sup> LD2 Driver only.
- <sup>4</sup> Not available with I Mounting Type.
- <sup>5</sup> Trim ships separately.
- <sup>6</sup> Beam angle based on WH Reflector Finish.
- <sup>7</sup> Not available with L42 lumen package.
- <sup>8</sup> Not available with L42 lumen package.
- <sup>9</sup> 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.
- <sup>10</sup> W Distribution only.
- <sup>11</sup> W Distribution only.
- <sup>12</sup> WH and BL Reflector Finishes only.
- <sup>13</sup> Mounting Hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- <sup>14</sup> Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
- <sup>15</sup> L12 and L20 lumen packages only. Not available with EM batteries.
- <sup>16</sup> Also used in new construction sheetrock ceilings. Pan-less installation.
- <sup>17</sup> N and I Mounting Types only. I Mounting Type requires external brackets.
- <sup>18</sup> N Mounting Type only.
- <sup>19</sup> N Mounting Type only.



# 6PS tunable WHITE

## 6" Shallow Plenum Downlight – Square

### FEATURES

- Slim 5" depth for minimal plenum space applications
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Beam angles ranging from 30° narrow to 85° wide for tailored performance
- 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
- Fully room-side accessible
- New construction mounting pan, IC-rated, or pan-less remodel kit available
- IP65-rated die-cast trim includes easy-to-clean flush lens
- Low UGR meets LEED and WELL requirements
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

### 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, acrylic lens.
- ELECTRICAL** – High-performance Class 2 LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>50,000 hours. Tunable White products use LEDs of multiple CCTs and may produce a perceptibly different shade of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- MOUNTING** – Recessed. 20 ga. galvanized steel mounting pan for new construction or IC-rated enclosure. Remodel kit option includes receiver bracket hardware.

- LISTINGS** –
  - cCSAus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0 for dry and 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.
  - IP65 rated trim when specified with IP 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.
  - IP65 rated trim when specified with IP option.
  - Complies with ASTM-E283 when specified with ATH option.
  - RoHS compliant.
  - Complies with the Buy American Act and other federal regulations. Request certification at [hew.com/baa](http://hew.com/baa).
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

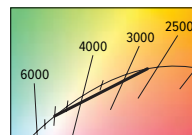
### FIXTURE PERFORMANCE DATA

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L12	W	1267	14.6	87
	M	1203	14.6	82
	N	1154	14.6	79
L20	W	2205	24.0	92
	M	2098	24.0	87
	N	2018	24.0	84
L42	W	4466	46.7	96
	M	–	–	–
	N	–	–	–

### MULTIPLIER TABLES

COLOR TEMPERATURE		
CCT	LUMENS	WATTS
2700K	0.83	1.03
3000K	1.00	1.00
3500K	0.99	0.99
4000K	1.00	1.00
5000K	0.98	1.03

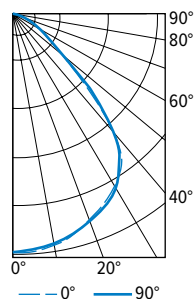
TRIM OPTION	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85



- Photometrics tested in accordance with IESNA LM-79. Results based on L Trim Type, WH Reflector Finish, W Distribution, 80 CRI/4000K CCT, average wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options

### PHOTOMETRY

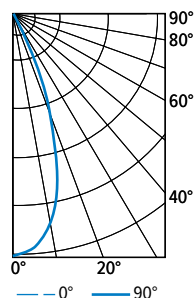
**6PS-L20/8TW-DIM-UNV-LW-OF-WH** Total Luminaire Output: 2205 lumens; 24.0 Watts | Efficacy: 91.9 lm/W | 80.0 CRI; 4000K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1091	1091	1091	
5	1091	1085	1082	103
15	1052	1044	1047	295
25	978	968	976	449
35	868	867	847	533
45	518	654	513	440
55	196	307	188	223
65	94	114	94	104
75	41	44	42	47
85	8	7	8	10
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	848	38
	0 - 40	1380	63
	0 - 60	2043	93
	0 - 90	2205	100
	0 - 180	2205	100

**6PS-L20/8TW-DIM-UNV-LM-OF-WH** Total Luminaire Output: 2098 lumens; 24.0 Watts | Efficacy: 87.4 lm/W | 80.0 CRI; 4000K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	4312	4312	4312	
5	4225	4197	4169	387
15	2964	2989	3007	803
25	967	1014	1011	495
35	289	305	306	203
45	121	130	129	102
55	61	68	61	59
65	30	33	30	31
75	12	13	12	14
85	1	2	1	3
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1686	80
	0 - 40	1889	90
	0 - 60	2050	98
	0 - 90	2098	100
	0 - 180	2098	100

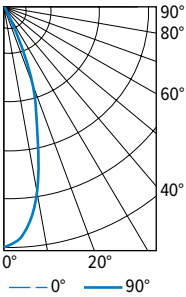
PHOTOMETRY CONTINUED ON NEXT PAGE.



# 6PS tunable WHITE

## 6" Shallow Plenum Downlight – Square

6PS-L20/8TW-DIM-UNV-LN-OF-WH Total Luminaire Output: 2018 lumens; 24.0 Watts | Efficacy: 84.1 lm/W | 80.0 CRI; 4000K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	4898	4898	4898	
5	4658	4622	4619	418
15	2723	2748	2731	749
25	849	907	892	436
35	252	266	271	180
45	120	130	129	100
55	74	85	77	72
65	41	46	42	44
75	15	17	15	18
85	1	1	1	3
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1603	79
	0 - 40	1783	88
	0 - 60	1954	97
	0 - 90	2018	100
	0 - 180	2018	100

### DRIVER DETAILS

DIM	DALI	DMX	LD2
DIM (Int) + DIM (CCT) + DIM -	DALI + DALI -	RJ45 Ports (IN/OUT)	DA + DA -
Fixture 1	Fixture 1	Fixture (Master)	Fixture 1

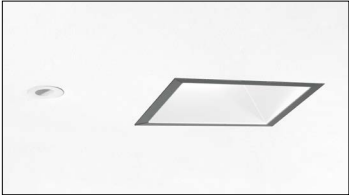
### EMERGENCY BATTERY OPTIONS

Additional limitations apply, see page 1. Specify CEC in the option code when California Energy Commission regulations are required.

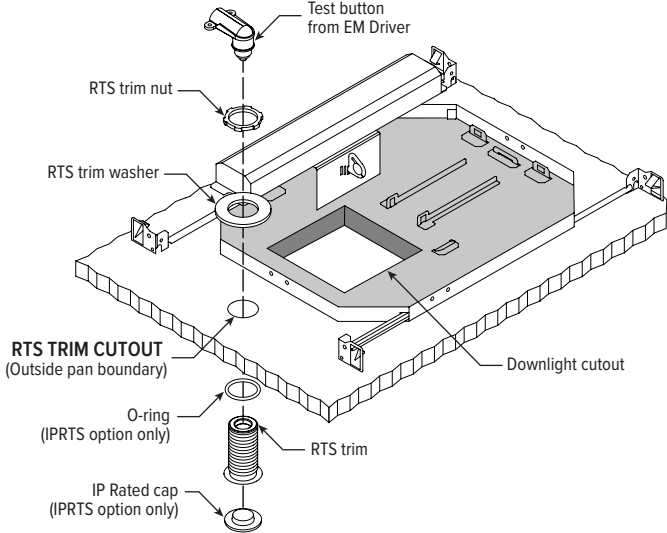
CATALOG NUMBER	DESCRIPTION
EM/7W	7-watt emergency battery <sup>[1]</sup>
EM/7W/RTS	7-watt emergency battery with regressed test switch <sup>[2]</sup>
EM/7W/IPRTS	7-watt emergency battery with IP65 rated regressed test switch
EM/10W	10-watt emergency battery <sup>[1]</sup>
EM/10W/RTS	10-watt emergency battery with regressed test switch <sup>[2]</sup>
EM/10W/IPRTS	10-watt emergency battery with IP65 rated regressed test switch

- <sup>1</sup> Not available with IP Option.  
<sup>2</sup> Not available with IP or WET/CC Options.

### REGRESSED TEST SWITCH DETAILS



Shown Installed



### APERTURE ADAPTOR ORDERING INFO

ORDERING EXAMPLE: 4DR - GR - 0575 - WHT			
SERIES	CATALOG NUMBER	CEILING CUTOUT	FINISH
4AR 6AR 4DR 6DR 4DS 6DS 4PR 6PR 4PS 6PS 4PS 8DR	GR	Specify ceiling cutout in 1/8" increments. Example: 5.75" = 0575  See Kit Components for application limits.	CS Clear semi-specular powder coat WH White texture powder coat BL Black texture powder coat

For use with remodel downlights.  
Additional finishes available, consult factory.  
For limitations and instructions, see [hew.com/aperture-adaptor.pdf](http://hew.com/aperture-adaptor.pdf)

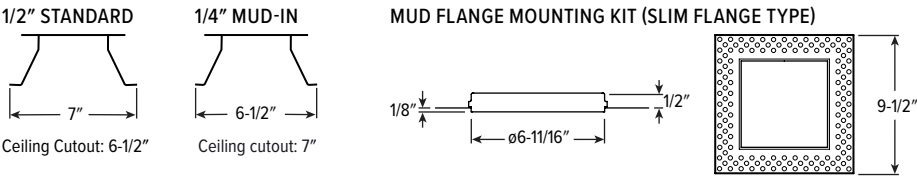


6PS

tunable WHITE

6" Shallow Plenum Downlight – Square

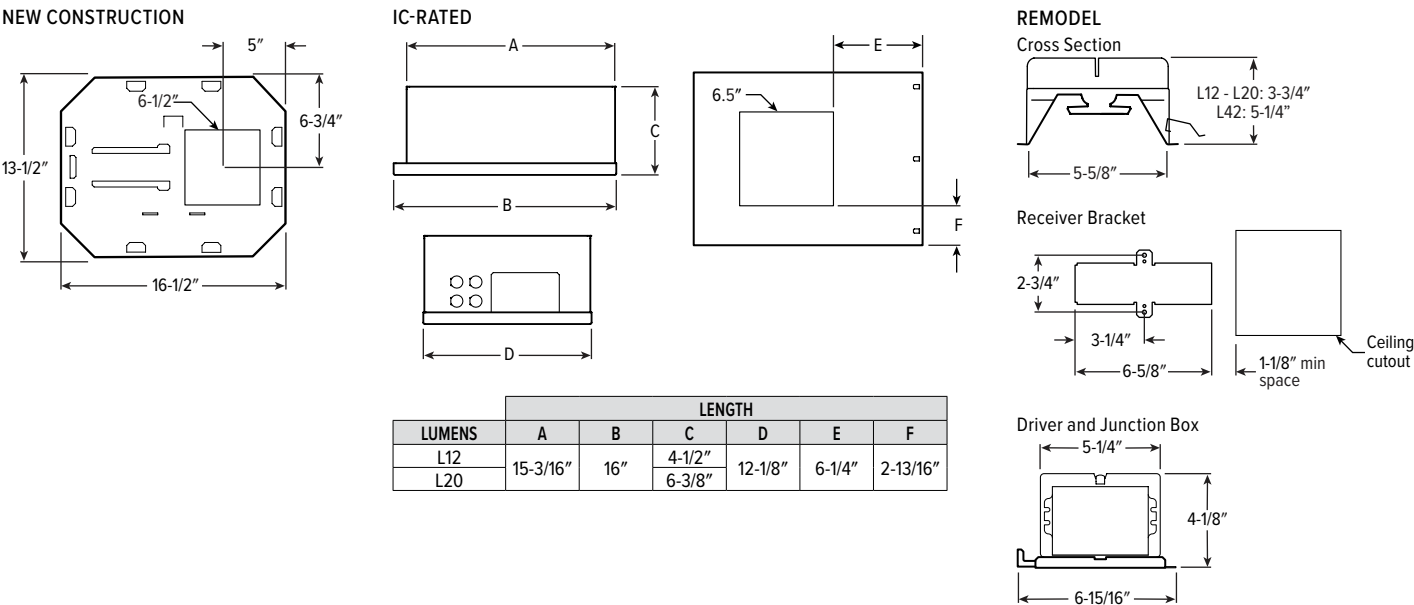
FLANGE TYPE DETAILS



REFLECTOR FINISH DETAILS



MOUNTING TYPE DETAILS



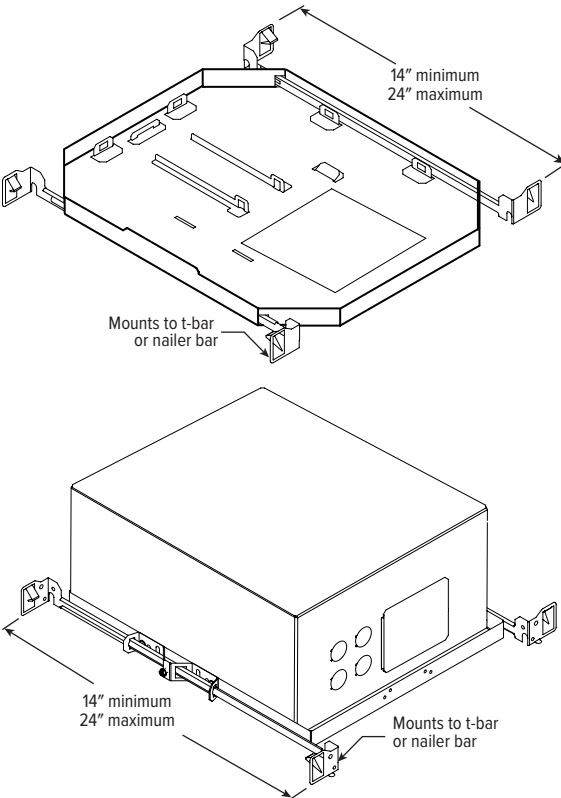
MOUNTING DETAILS CONTINUED ON NEXT PAGE.

# 6PS tunable WHITE

## 6" Shallow Plenum Downlight – Square

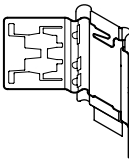
### MOUNTING HARDWARE DETAILS

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

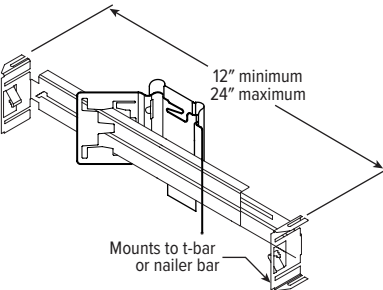


F1 with I Mounting Type

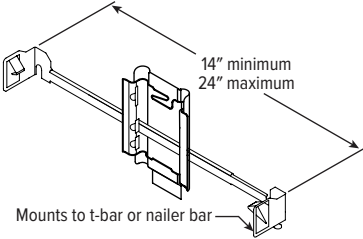
**BA1** Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



**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)

