6PR tunable WHITE
6″ Shallow Plenum Downlight – Round

Williams®

L10 - L21: 4-1/2″
L43: 5-1/4″

ø5-5/8″

1/2″ min
1-1/4″ max

16-1/2″

CATALOG #: _____

TYPE: _____

PROJECT: _____

BUY AMERICAN ACT COMPLIANT

NEW CONSTRUCTION AND REMODEL

ORDERING EXAMPLE: 6PR - TL - L10/8TW - OPTIONS - DIM - UNV - LW - OF - WH - TRIM OPTIONS - N - F1

— HOUSING — | — TRIM — | MOUNT.

HOUSING

SERIES	LUMENS [1]	COLOR	OPTIONS	CONTROL	VOLTAGE
6PR-TL TrimLock	**L10** 1,000lm **L21** 2,100lm **L43** 4,300lm	**8TW** Tunable white (80 CRI, 2700K-5000K)	*See page 3 for EMERGENCY BATTERY OPTIONS.* **ATH** Airtight construction **CP** Chicago plenum (CCEA) [2] **F** Fuse kit	*See page 3 for CONTROL DETAILS.* **DALI** Driver prewired for DALI applications **DIM** Dimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT **DMX** Driver prewired for DMX applications **PSQ** Lutron T-Series 2-channel tunable white 1%. [3]	**UNV** 120-277V

TRIM [4]

TRIM TYPE	DISTRIBUTION [5]	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
L Flush lens **A** Angled lens [6] **S** Non-conductive flush lens for shower applications [7]	**W** 85° Wide **M** 35° Medium [8] **N** 25° Narrow [9]	**OF** 1/2″ standard flange **SF** 1/4″ mud-in flange [10]	**CS** Clear semi-specular powder coat **WH** White texture powder coat **BL** Black texture powder coat	**IP** IP65 rated trim **AD** Diffuse acrylic lens [11] **PD** Diffuse 1/8″ polycarbonate lens [12] **WET/CC** Wet location, covered ceiling listed [13] **AM** Anti-microbial [14]

MOUNTING

MOUNTING TYPE [15]	MOUNTING HARDWARE [16]
N Open pan for new construction **I** IC-rated enclosure for new construction [17] **R** Remodel kit [18]	**F1** Integral 2-position fixed pan bracket, universal bar hanger included [19] **BA1** Adjustable butterfly pan bracket, bar hanger not included [20] **CA1** Adjustable caterpillar pan bracket, universal bar hanger included [21]

NOTES

[1] Lumen output based on L trim type, W distribution and WH finish, 4000K/80CRI. Actual lumens may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
[2] I Mounting Type required.
[3] Not available with I Mounting Type.
[4] Trim ships separately.
[5] Beam angle based on WH reflector finish and L Trim Type.
[6] Wide distribution only. Diffuse acrylic lens standard.
[7] W Distribution, OF Flange Type, WH Reflector Finish only. Standard with AD diffuse acrylic lens. IP and WET/CC options standard.
[8] Not available with L43 lumen stop.
[9] Not available with L43 lumen stop.
[10] 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.

[11] L Trim Type only. W distribution only.
[12] W distribution only.
[13] Not available with PD trim option.
[14] WH and BL Reflector Finishes only. Not available with S Trim Type.
[15] Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
[16] Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
[17] L10 and L21 lumen packages only. Not available with EM batteries.
[18] Also used in new construction sheetrock ceilings. Pan-less installation.
[19] N and I Mounting Types only. I Mounting requires external brackets.
[20] N Mounting Type only.
[21] N Mounting Type only.

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Downlights
Page 1 of 5

6PR tunable WHITE
6" Shallow Plenum Downlight – Round

FEATURES

TrimLock®

- Innovative TrimLock reflector retention system ensures trim remains flush with ceiling plane
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Slim 5" depth for minimal plenum space applications
- Beam angles ranging from 25º narrow to 85º wide for tailored performance
- Die-cast trim with flush or angled 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
- Optional non-conductive lens for shower applications
- IP65-rated die-cast trim includes easy-to-clean flush lens

SPECIFICATIONS

- HOUSING – Spun housing with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Mounting clips allow for ceiling thickness from 1/2"– 1-1/4" (consult factory for additional ceiling thicknesses).
- TRIMLOCK – Innovative TrimLock reflector retention system ensures the trim remains flush with the ceiling plane.
- 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.
  - 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.
  - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- WARRANTY – 5-year limited warranty, see hew.com/warranty.

FIXTURE PERFORMANCE DATA

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L10	W	1148	14.6	79
L10	M	1164	14.6	80
L10	N	1175	14.6	81
L21	W	2152	24.0	90
L21	M	2182	24.0	91
L21	N	2107	24.0	88
L43	W	4352	46.7	93
L43	M	–	–	–
L43	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

CATALOG NUMBER	CONVERSION FACTOR
S	0.85
AD	0.85
PD	0.85
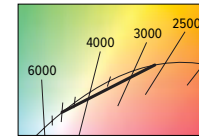
- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25ºC ambient temperature.
- Wattage shown is based on 120V input.
- Results based on 4000K, 80 CRI, actual lumens may vary +/-5%
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
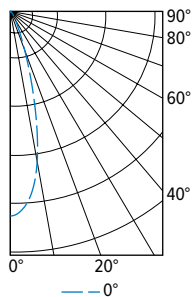- Use multiplier tables to calculate additional options.

PHOTOMETRY

6PR-TL-L10/8TW-DIM-UNV-LW-OF-WH Total Luminaire Output: 1148 lumens; 14.6 Watts | Efficacy: 78.6 lm/W | 80.0 CRI; 4000K CCT
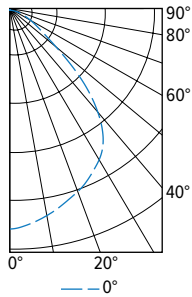
VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	608	
5	597	56
15	559	158
25	514	237
35	447	276
45	289	219
55	116	108
65	58	58
75	26	28
85	6	7
90	0	

ZONE	LUMENS	% FIXTURE
0 - 40	728	63
0 - 60	1055	92
0 - 90	1148	100
0 - 180	1148	100

6PR-TL-L10/8TW-DIM-UNV-LM-OF-WH Total Luminaire Output: 1164 lumens; 14.6 Watts | Efficacy: 79.7 lm/W | 80.0 CRI; 4000K CCT
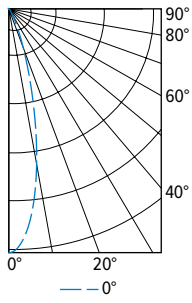
VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	2679	
5	2574	236
15	1685	453
25	533	254
35	158	104
45	70	55
55	36	33
65	19	19
75	9	9
85	2	2
90	0	

ZONE	LUMENS	% FIXTURE
0 - 40	1047	90
0 - 60	1134	97
0 - 90	1164	100
0 - 180	1164	100

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6PR-TL-L10/8TW-DIM-UNV-LN-OF-WH Total Luminaire Output: 1175 lumens; 14.6 Watts | Efficacy: 80.5 lm/W | 80.0 CRI; 4000K CCT

VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	4341	
5	3924	341
15	1682	463
25	401	195
35	110	73
45	56	44
55	34	31
65	19	19
75	8	9
85	2	2
90	0	

LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0 - 40	1071	91
0 - 60	1145	97
0 - 90	1175	100
0 - 180	1175	100

EMERGENCY BATTERY OPTIONS

Additional limitations apply, see page 1. Specify CEC in the option code when California Energy Commission regulations are required.
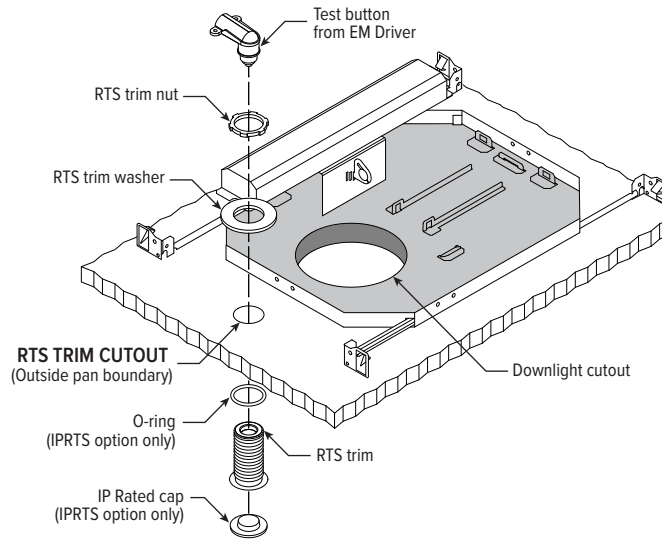
CATALOG NUMBER	DESCRIPTION
EM/7W	7-watt emergency battery [1]
EM/7W/RTS	7-watt emergency battery with regressed test switch [2]
EM/7W/IPRTS	7-watt emergency battery with IP65 rated regressed test switch
EM/10W	10-watt emergency battery [1]
EM/10W/RTS	10-watt emergency battery with regressed test switch [2]
EM/10W/IPRTS	10-watt emergency battery with IP65 rated regressed test switch

1 Not available with S Trim Type or IP Option.
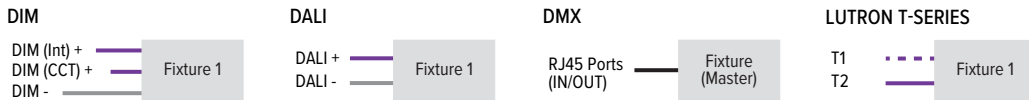2 Not available with S Trim Type, IP or WET/CC Options.
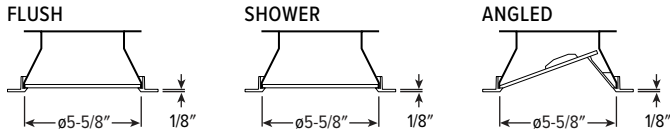
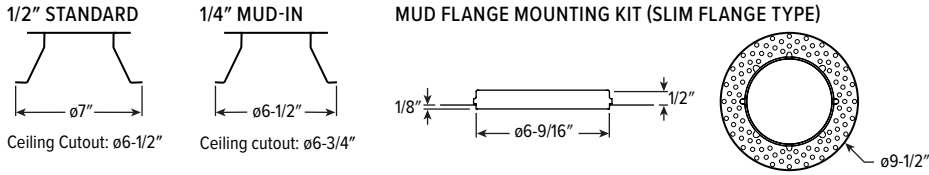## REGRESSED TEST SWITCH DETAILS

Shown Installed

Test button from EM Driver

RTS trim nut

RTS trim washer

RTS TRIM CUTOUT
(Outside pan boundary)

O-ring
(IPRTS option only)

RTS trim

IP Rated cap
(IPRTS option only)

Downlight cutout

CONTROL DETAILS

DIM
DIM (Int) +
DIM (CCT) +
DIM -
Fixture 1

DALI
DALI +
DALI -
Fixture 1

DMX
RJ45 Ports
(IN/OUT)
Fixture
(Master)

LUTRON T-SERIES
T1
T2
Fixture 1

TRIMLOCK DETAILS

TWIST

PULL

RELEASE

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Downlights
Page 3 of 5

6PR tunable WHITE
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TRIM TYPE DETAILS

FLUSH
ø5-5/8″   1/8″

SHOWER
ø5-5/8″   1/8″

ANGLED
ø5-5/8″   1/8″

FLANGE TYPE DETAILS

1/2″ STANDARD
ø7″
Ceiling Cutout: ø6-1/2″

1/4″ MUD-IN
ø6-1/2″
Ceiling cutout: ø6-3/4″

MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)
1/8″   ø6-9/16″   1/2″
ø9-1/2″

REFLECTOR FINISH DETAILS

CS Clear semi-specular   **WH** White   **BL** Black
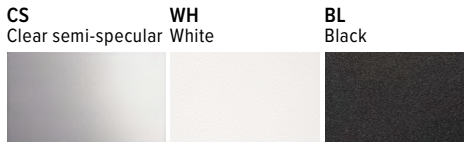
MOUNTING TYPE DETAILS

NEW CONSTRUCTION
5″
ø6-1/2″
6-3/4″
13-1/2″
16-1/2″
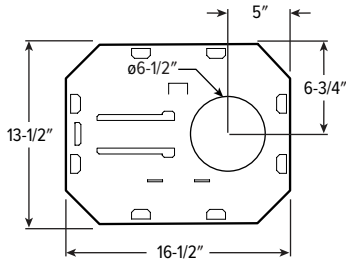
IC-RATED
A
C
B
D
ø6.5″
F
E
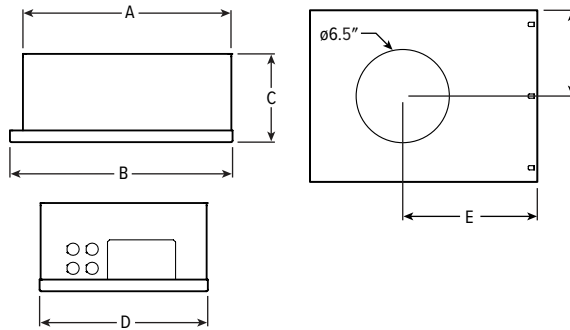
LENGTH						
LUMENS	A	B	C	D	E	F
L10	15-1/16″	16″	4-1/2″	12-1/8″	9-1/2″	6″
L21	15-3/16″		6-3/8″			

REMODEL
Cross Section
L10 - L21: 4-1/2″
L43: 5-1/4″
ø5-5/8″

Receiver Bracket
2-3/4″
3-1/4″
6-5/8″
1-1/8″ min space
Ceiling cutout

Driver and Junction Box
5-1/4″
4-1/8″
6-15/16″
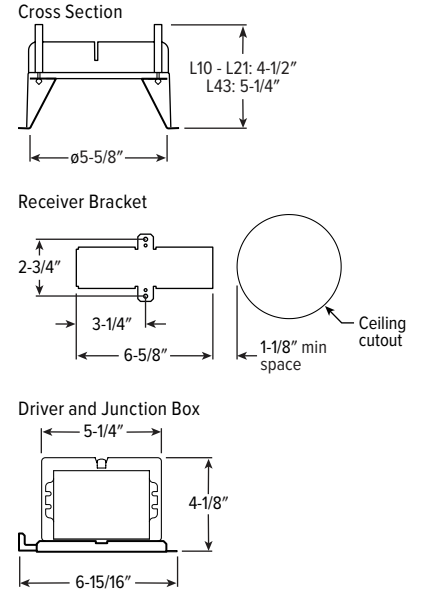
APERTURE ADAPTOR ORDERING INFO

ORDERING EXAMPLE: 4DR - GR - 0575 - WHT			
SERIES	CATALOG NUMBER	CEILING CUTOUT	FINISH
4AR 6AR 4DR 6DR 4DS 6DS 4PR 6PR 4PS 6PS 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

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Downlights
Page 4 of 5

MOUNTING HARDWARE DETAILS

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

14″ minimum
24″ maximum

Mounts to t-bar
or nailer bar

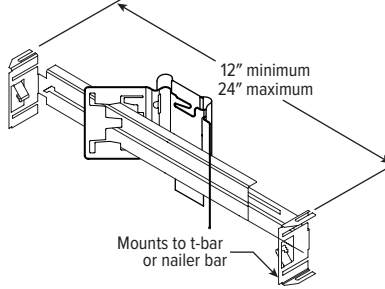14″ minimum
24″ maximum

Mounts to t-bar
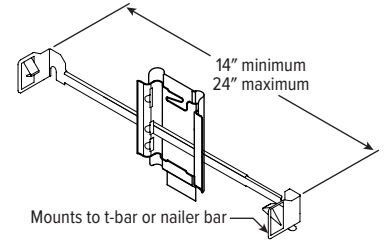or nailer bar
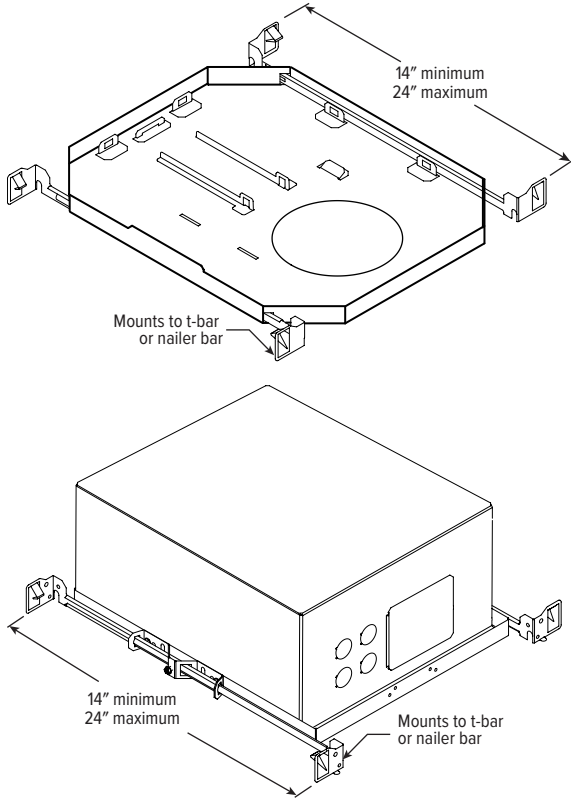
F1 with I Mounting Type

BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)
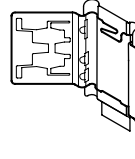
BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)

12″ minimum
24″ maximum

Mounts to t-bar
or nailer bar

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

14″ minimum
24″ maximum

Mounts to t-bar or nailer bar

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

11″ minimum
26″ maximum

Mounts to t-bar