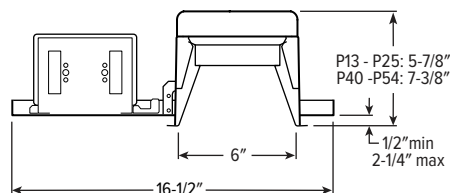


## NEW CONSTRUCTION AND REMODEL



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

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

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



## FEATURES

- Deliver scalable, data-driven smart buildings with PoE-enabled fixtures and controls
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Made Right Here® in the USA

## 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 field adjust for ceiling thickness from 1/2" – 2-1/4".
- OPEN REFLECTOR** – Low-iridescent anodized aluminum.
- 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. Low-voltage DC fixture, to be fed by Class 2 power supply. 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](http://hew.com/baa).
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

## SYSTEM REQUIREMENTS

- PoE-ready luminaires are connected to building power systems through network integration and require other components for complete PoE lighting system
- For additional PoE info, see [hew.com/poe](http://hew.com/poe)

ORDERING EXAMPLE: **6DS - P25/835 - OPTIONS - POE PR - LW - OF - WH - TRIM OPTIONS - N - F1**

## HOUSING

SERIES	LUMENS <sup>[1]</sup>	CRI	CCT	OPTIONS	CONTROL <sup>[2]</sup>
6DS	P13 1,300lm	8 80	27 2700K	ATH Airtight construction	POE PR Power over Ethernet-ready
	P25 2,500lm	9 90 <sup>[4]</sup>	30 3000K	CP Chicago plenum (CCEA) <sup>[5]</sup>	
	P40 4,000lm		35 3500K		
	P54 5,400lm <sup>[3]</sup>		40 4000K		
			50 5000K		
			TW Tunable white (80 CRI, 2700K–5000K)		

## TRIM <sup>[6]</sup>

TRIM TYPE	DISTRIBUTION <sup>[7]</sup>	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
O Open reflector	W Wide	OF 1/2" standard flange	Open trim types	MWT Smooth matte white trim flange <sup>[13]</sup>
L Flush lens	55° Open	SF 1/4" mud-in flange <sup>[12]</sup>	CS Clear semi-specular anodize	IP IP65 rated trim <sup>[14]</sup>
R Regressed lens	65° Flush		SG Satin-glow anodize	AD Diffuse acrylic lens <sup>[15]</sup>
A Angled lens <sup>[8]</sup>	65° Regressed		GD Gold anodize	PD Diffuse 1/8" polycarbonate lens <sup>[16]</sup>
	M Medium <sup>[9]</sup>		CG Champagne gold anodize	WET/CC Wet location, covered ceiling listed <sup>[17]</sup>
	50° Open		PW Pewter anodize	
	35° Flush		SPC Clear specular anodize	AM Anti-microbial <sup>[18]</sup>
	35° Regressed		RG Rose gold anodize	
	N Narrow <sup>[10]</sup>		Lens trim types	
	45° Open		CS Clear semi-specular powder coat	
	25° Flush		WH White texture powder coat	
	25° Regressed		BL Black texture powder coat	
WW Wall wash <sup>[11]</sup>			MB Black texture splay with white flange <sup>[19]</sup>	

## MOUNTING

### MOUNTING TYPE <sup>[20]</sup>

- N Open pan for new construction
- I IC-rated enclosure for new construction <sup>[22]</sup>
- R Remodel kit <sup>[23]</sup>

### MOUNTING HARDWARE <sup>[21]</sup>

- F1 Integral 2-position fixed pan bracket, universal bar hanger included <sup>[24]</sup>
- BA1 Adjustable butterfly pan bracket, bar hanger not included <sup>[25]</sup>
- CA1 Adjustable caterpillar pan bracket, universal bar hanger included <sup>[26]</sup>

## NOTES

- Lumen output based on L Trim Type, W Distribution and WH Reflector Finish, 80 CRI, 3500K for single CCT and 4000K for TW. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- For additional PoE connection details, consult factory.
- N Mounting Type only. W Distribution only.
- Extended lead times may apply. Consult factory for availability.
- Not available with Tunable White.
- I Mounting Type required.
- Trim ships separately.
- Beam angle based on CS or WH Reflector Finish.
- Available with WW Distribution only.
- Not available with P54 or tunable white P40, P54 lumen stops.
- Not available with P54 or tunable white P40, P54 lumen stops.
- O and A Trim Types only.
- 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.
- Not available with WH Reflector Finish or L Trim Type.
- L and R Trim Types only.
- Not available with O trim type. W and WW Distributions only.
- Not available with O trim type. W and WW Distributions only.
- Not available with O Trim Type.
- WH and BL Reflector Finishes only.
- R Trim Type only. Not available with MWT.
- Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
- P13 and P25 lumen packages only.
- Also used in new construction sheetrock ceilings. Pan-less installation. P13 and P25 lumen packages only.
- N and I Mounting Types only. I Mounting requires external brackets.
- N Mounting Type only.
- N Mounting Type only.



### FIXTURE PERFORMANCE DATA

#### STANDARD

##### OPEN REFLECTOR TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P13	W	1238	12.3	101.0
	M	1006	12.3	82.2
	N	992	12.3	81.0
P25	W	2306	25.0	92.2
	M	1875	25.0	75.0
	N	1849	25.0	74.0
P40	W	3725	37.5	99.3
	M	3026	37.5	80.7
	N	2909	37.5	77.6
P54	W	5029	50.0	100.6

##### FLUSH LENS TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P13	W	1317	12.3	107.5
	M	1349	12.3	110.1
	N	1314	12.3	107.3
P25	W	2454	25.0	98.2
	M	2515	25.0	100.6
	N	2449	25.0	98.0
P40	W	3965	37.5	105.7
	M	4057	37.5	108.2
	N	3851	37.5	102.7
P54	W	5353	50.0	107.1

##### REGRESSED LENS TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P13	W	1266	12.3	103.3
	M	1313	12.3	107.2
	N	1307	12.3	106.7
P25	W	2358	25.0	94.3
	M	2447	25.0	97.9
	N	2436	25.0	97.4
P40	W	3809	37.5	101.6
	M	3949	37.5	105.3
	N	3831	37.5	102.2
P54	W	5143	50.0	102.9

#### TUNABLE WHITE

##### OPEN REFLECTOR TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P13	W	1088	12.3	88.8
	M	881	12.3	71.9
	N	869	12.3	70.9
P25	W	2157	22.0	98.0
	M	1752	22.0	79.6
	N	1684	22.0	76.5
P40	W	3285	37.5	87.6
P54	W	3810	43.5	87.6

##### FLUSH LENS TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P13	W	1153	12.3	94.1
	M	1181	12.3	96.4
	N	1150	12.3	93.9
P25	W	2295	22.0	104.3
	M	2349	22.0	106.8
	N	2230	22.0	101.4
P40	W	3496	37.5	93.2
P54	W	4056	43.5	93.2

##### REGRESSED LENS TRIM TYPE

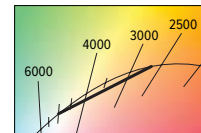
	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P13	W	1108	12.3	90.4
	M	1150	12.3	93.8
	N	1144	12.3	93.4
P25	W	2205	22.0	100.2
	M	2287	22.0	103.9
	N	2218	22.0	100.8
P40	W	3359	37.5	89.6
P54	W	3897	43.5	89.6

#### MULTIPLIER TABLES

COLOR TEMPERATURE			
	CCT	LUMENS	
		STANDARD	TUNABLE WHITE
80 CRI	2700K	0.92	0.83
	3000K	0.98	1.00
	3500K	1.00	0.99
	4000K	1.01	1.00
	5000K	1.02	0.98
90 CRI	2700K	0.76	–
	3000K	0.79	–
	3500K	0.82	–
	4000K	0.84	–
	5000K	0.88	–

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



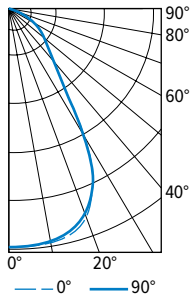
- Photometrics tested in accordance with IESNA LM-79. Results based on L Trim Type, W Distribution and WH Reflector Finish, and 25°C ambient temperature. Static white results based on 80 CRI/3500K CCT. Tunable white results based on 80 CRI/4000K CCT. Actual performance may vary +/-5%.
- Use multiplier tables to calculate additional options.

PHOTOMETRY CONTINUED ON NEXT PAGE.



### PHOTOMETRY

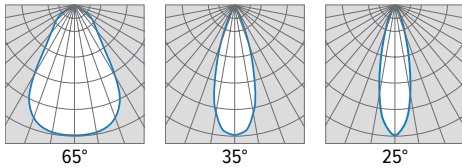
6DS-P25/835-POE PR-LW-OF-WH Total Luminaire Output: 2454 lumens; 25.0 Watts | Efficacy: 98.2 lm/W | 80 CRI; 3500K CCT



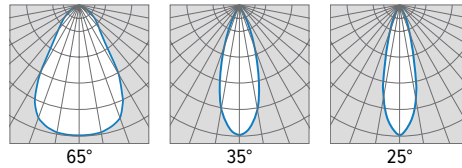
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	1658	1658	1658	
	5	1662	1654	1656	157
	15	1624	1603	1603	453
	25	1353	1492	1359	633
	35	619	998	621	498
	45	376	434	367	317
	55	237	243	235	215
	65	122	122	118	122
	75	47	46	45	51
	85	4	2	5	8
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1244	51
	0 - 40	1742	71
	0 - 60	2274	93
	0 - 90	2454	100
	0 - 180	2454	100

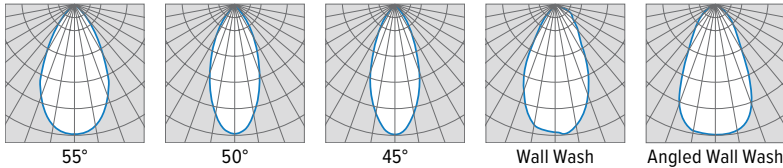
### FLUSH



### REGRESSED



### OPEN



### APERTURE ADAPTOR ORDERING INFO

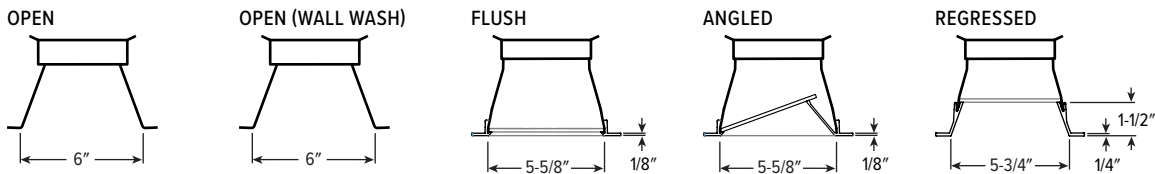
ORDERING EXAMPLE: 4DR - GR - 0575 - WHT			
SERIES	CATALOG NUMBER	CEILING CUTOUT	FINISH
4AR 6AR 4DR 6DR 4DS 6DS 4PR 6PR 4PS 6PS 4PS 8DR	GR	Specify ceiling cutout in 1/8" increments. Example: 5.75" = 0575 See Kit Components for application limits.	CS Clear semi-specular powder coat WH White texture powder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

For use with remodel downlights.

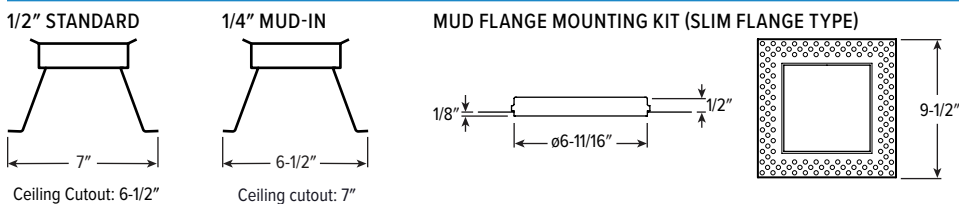
Additional finishes available, consult factory.

For limitations and instructions, see [hew.com/aperture-adaptor.pdf](http://hew.com/aperture-adaptor.pdf)

### TRIM TYPE DETAILS




### FLANGE TYPE DETAILS



6DS

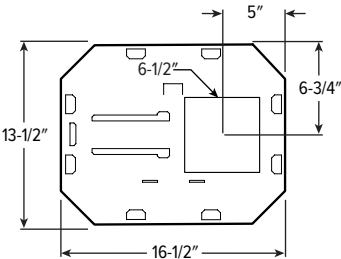
PoE | tunable **WHITE**  
6" Downlight – Square

REFLECTOR FINISH DETAILS

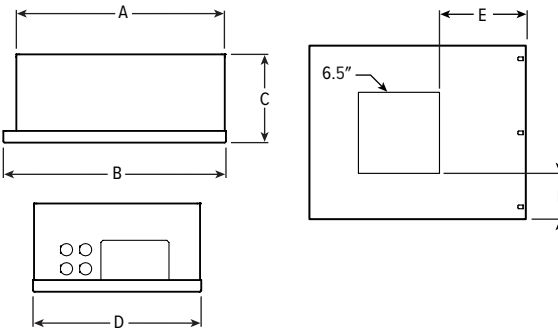
SPC	SG	PW	GD	CG	RG	CS	WH	BL
Clear specular	Satin glow	Pewter	Gold	Champagne gold	Rose gold	Clear semi-specular	White	Black
								

MOUNTING TYPE DETAILS

NEW CONSTRUCTION

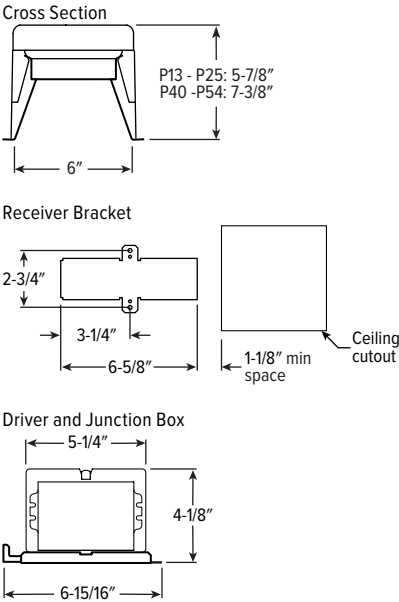


IC-RATED



LUMENS	LENGTH					
	A	B	C	D	E	F
P13	15-3/16"	16"	6-3/8"	12-1/8"	6-1/4"	2-7/8"
P25	16-5/8"	17-1/2"	7-7/8"	14"	7"	3-3/4"

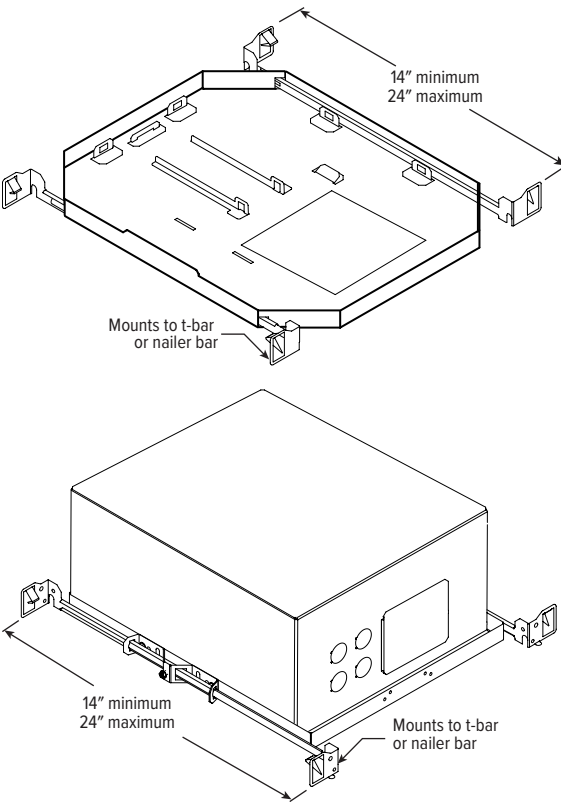
REMODEL



MOUNTING DETAILS CONTINUED ON NEXT PAGE

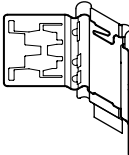
MOUNTING HARDWARE DETAILS

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

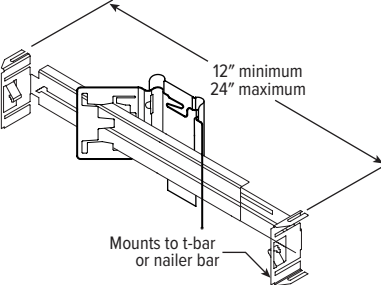


F1 with I Mounting Type

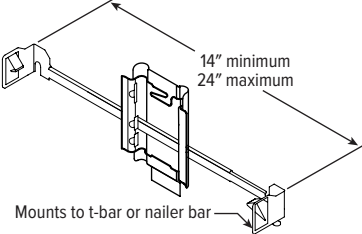
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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)

