

CATALOG #: _____

TYPE: _____

PROJECT: _____

NEW CONSTRUCTION AND REMODEL

FEATURES

TrimLock®

- Deliver scalable, data-driven smart buildings with PoE-enabled fixtures and controls



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".
- TRIMLOCK** – Innovative TrimLock reflector retention system ensures the trim remains flush with the ceiling plane.
- OPEN REFLECTOR** – Low-iridescent anodized aluminum. Clear semi-specular finish standard.
- 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. Minimum 24" O.C. marked spacing required for P46 and P62 lumen packages.
- 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 or TD options.
 - 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.

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

ORDERING EXAMPLE: 6DR - TL - P29/835 - OPTIONS - POE PR - OW - OF - CS - TRIM OPTIONS - N - F1

HOUSING

SERIES	LUMENS ⁽¹⁾	CRI	CCT	OPTIONS	CONTROL ⁽²⁾
6DR - TL	P16 1,600lm	8 80	27 2700K	SCA_ Sloped ceiling adapter ⁽⁵⁾	POE PR Power over Ethernet-ready
TrimLock	P29 2,900lm	9 90 ⁽³⁾	30 3000K	ATH Airtight construction	
	P46 4,600lm		35 3500K	CP Chicago plenum (CCEA) ⁽⁶⁾	
	P62 6,200lm		40 4000K		
			50 5000K		
			TW Tunable white (80 CRI, 2700K–5000K) ⁽⁴⁾		

TRIM ⁽⁷⁾

TRIM TYPE	DISTRIBUTION ⁽⁸⁾	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
O Open reflector	W Wide	OF 1/2" standard flange	Open trim types	MWT Textured white trim flange ⁽¹⁵⁾
L Flush lens	65° Open	SF 1/4" mud-in flange ⁽¹⁴⁾	CS Clear semi-specular anodize	IP IP65 rated trim ⁽¹⁶⁾
R Regressed lens	55° Flush		SG Satin-glow anodize	AD Diffuse acrylic lens ⁽¹⁷⁾
A Angled lens ⁽⁹⁾	55° Regressed		GD Gold anodize	PD Diffuse 1/8" polycarbonate lens ⁽¹⁸⁾
S Non-conductive flush lens for shower applications ⁽¹⁰⁾	M Medium ⁽¹¹⁾		CG Champagne gold anodize	TD Diffuse polycarbonate lens media at top of open reflector ⁽¹⁹⁾
	35° Open		PW Pewter anodize	WET/CC Wet location, covered ceiling listed ⁽²⁰⁾
	35° Flush		SPC Clear specular anodize	AM Anti-microbial ⁽²¹⁾
	35° Regressed		RG Rose gold anodize	
	N Narrow ⁽¹²⁾		WH White texture powder coat	
	10° Open		BL Black texture powder coat	
	25° Flush		MB Black texture splay with white flange ⁽²²⁾	
	25° Regressed			
	WW Wall wash ⁽¹³⁾			
			Lens trim types	
			CS Clear semi-specular powder coat	
			WH White texture powder coat	
			BL Black texture powder coat	
			MB Black texture splay with white flange ⁽²²⁾	

MOUNTING

MOUNTING TYPE ⁽²³⁾

- N Open pan for new construction
- I IC-rated enclosure for new construction ⁽²⁵⁾
- R Remodel kit ⁽²⁶⁾

MOUNTING HARDWARE ⁽²⁴⁾

- F1 Integral 2-position fixed pan bracket, universal bar hanger included ⁽²⁷⁾
- BA1 Adjustable butterfly pan bracket, bar hanger not included ⁽²⁸⁾
- CA1 Adjustable caterpillar pan bracket, universal bar hanger included ⁽²⁹⁾

NOTES

- Static white lumen output based on O trim type, W distribution and CS finish, 80 CRI, 3000K for single CCT and 4000K for TW. See page 2 for FIXTURE PERFORMANCE DATA.
- For additional PoE connection details, consult factory.
- Extended lead times may apply. Consult factory for availability. Not available with Tunable White.
- Not available with lumen stops P46 and higher when specified with flush or regressed trim types.
- 11-1/2" aperture, specify degrees of slope in 5° increments, 05°-30°. Not available with I Mounting Type, S Trim Type, ATH, IP, or WET/CC Options. Painted white. Other colors available, consult factory. See page 3 for SLOPED CEILING ADAPTOR DETAILS.
- I Mounting Type required.
- Trim ships separately.
- Beam angle based on W distribution with CS or WH reflector finish. See page 2 for FIXTURE PERFORMANCE DATA.
- Available with WW Distribution only.
- W Distribution, OF Flange Type, and WH Reflector Finish only. AD diffuse acrylic lens, IP and WET/CC options standard.
- Not available with lumen stops P46 and higher when specified with flush or regressed trim types.
- Not available with lumen stops P46 and higher when specified with flush or regressed trim types.
- 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.
- Not available with WH Reflector Finish, L or S Trim Types.
- L and R trim types only.
- L and R Trim Types only. W and WW distributions only.
- Not available with O Trim Type. W and WW distributions only.
- O Trim Type only. WET/CC standard unless ordered with EM/RTS.
- Not available with PD trim option.
- WH and BL Reflector Finishes only. Not available with S Trim Type.
- 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.
- P16 lumen package only. P29 available, wide distribution only for lensed trims.
- Also used in new construction sheetrock ceilings. Pan-less installation. P29 lumen package max.
- N and I Mounting Types only. I Mounting requires external brackets.
- N Mounting Type only.
- N Mounting Type only.



6DR PoE | tunable WHITE

6" Downlight – Round

FIXTURE PERFORMANCE DATA

STATIC WHITE

	DIST.	WATTAGE	OPEN REFLECTOR		FLUSH LENS		REGRESSED LENS	
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
P16	W	12.3	1611	131	1344	109	1301	106
	M	12.3	1563	127	1449	118	1409	115
	N	12.3	1495	122	1457	118	1420	115
P29	W	25.0	2947	118	2454	98	2375	95
	M	25.0	2855	114	2645	106	2573	103
	N	25.0	2731	109	2661	106	2593	104
P46	W	37.5	4582	122	3818	102	3695	99
	M	37.5	4442	119	—	—	—	—
	N	37.5	4252	113	—	—	—	—
P62	W	50.0	6158	123	5145	103	4980	100
	M	50.0	5970	119	—	—	—	—
	N	50.0	5715	114	—	—	—	—

TUNABLE WHITE

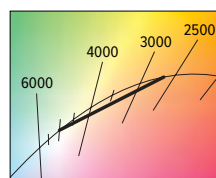
	DIST.	WATTAGE	OPEN REFLECTOR		FLUSH LENS		REGRESSED LENS	
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
P16	W	12.3	1343	109	1120	91	1084	88
	M	12.3	1303	106	1207	98	1175	96
	N	12.3	1246	101	1215	99	1184	96
P29	W	25.0	2728	109	2273	91	2200	88
	M	25.0	2645	106	2450	98	2383	95
	N	25.0	2531	101	2464	99	2402	96
P46	W	37.5	4070	109	3400	91	3291	88
	M	37.5	3945	105	—	—	—	—
	N	37.5	3776	101	—	—	—	—
P62	W	43.5	4721	109	3944	91	3817	88
	M	43.5	4576	105	—	—	—	—
	N	43.5	4381	101	—	—	—	—

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	—

	REFLECTOR FINISH	
	CATALOG NUMBER	CONVERSION FACTOR
O TRIM	CS	1.00
	SG ¹	0.92
	GD	0.93
	CG	0.96
	PW	0.86
	SPC	1.02
	RG	0.88
R TRIM	WH ¹	0.89
	BL ¹	0.47
	WH	1.00
	CS	0.98
	BL	0.79

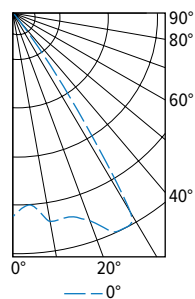
TRIM	
CATALOG NUMBER	CONVERSION FACTOR
S	0.85
AD	0.85
PD	0.85
TD	0.75
WET/CC ²	0.85



- Distribution will also be affected, consult factory.
 - Use multiplier when specified with O Trim Type.
- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
 - Standard results based on 3500K/80 CRI, actual lumens may vary +/-5%
 - Tunable white results based on 4000K/80 CRI, actual lumens may vary +/-5%
 - Use multiplier tables to calculate additional options.

PHOTOMETRY

6DR-TL-P29/835-POE PR-OW-OF-CS Total Luminaire Output: 2947 lumens; 25.0 Watts | Efficacy: 117.9 lm/W | 80 CRI; 3500K CCT



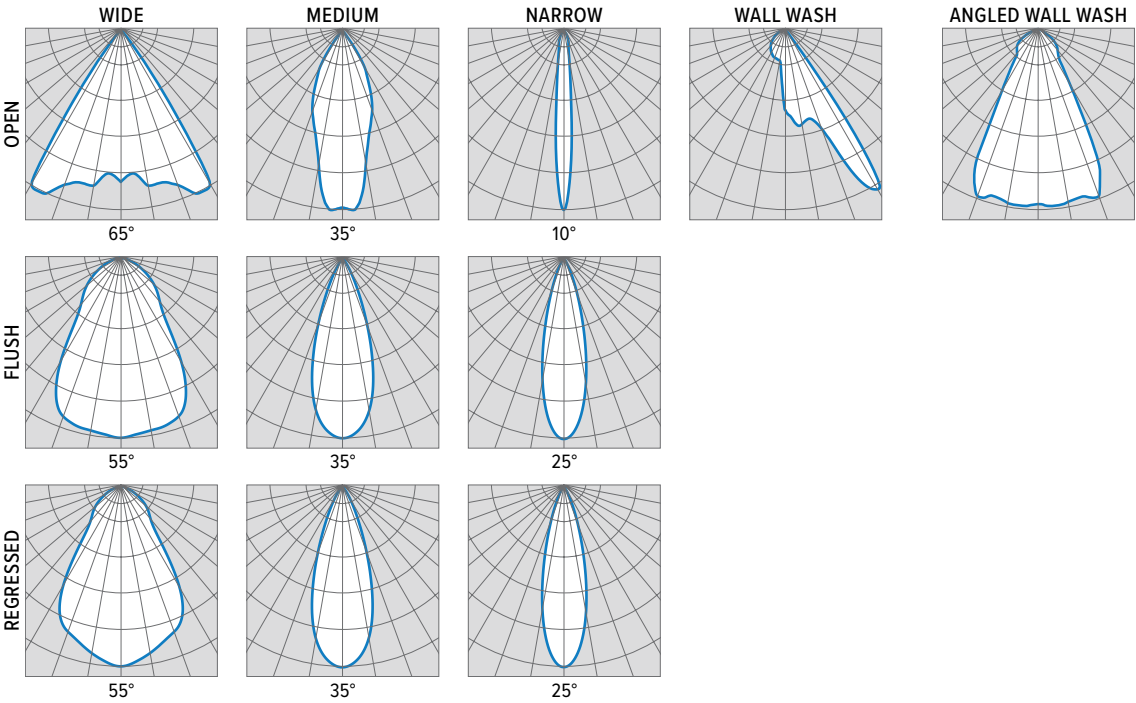
	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
CANDLEPOWER DISTRIBUTION	0	2479	
	5	2341	224
	15	2572	729
	25	2938	1360
	35	895	563
	45	68	53
	55	19	17
	65	3	2
	75	0	0
	85	0	0
	90	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2870	98
	0 - 60	2945	100
	0 - 90	2947	100
	0 - 180	2947	100



6DR PoE | tunable WHITE

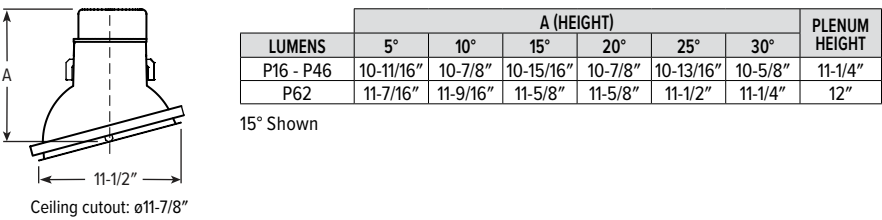
6" Downlight – Round



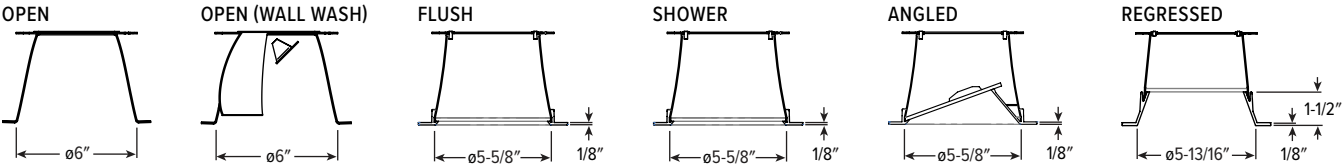
TRIMLOCK DETAILS



SLOPED CEILING ADAPTOR DETAILS



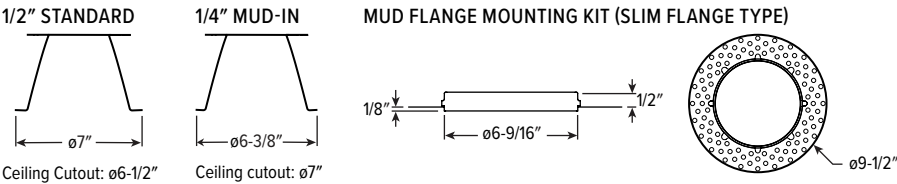
TRIM TYPE DETAILS



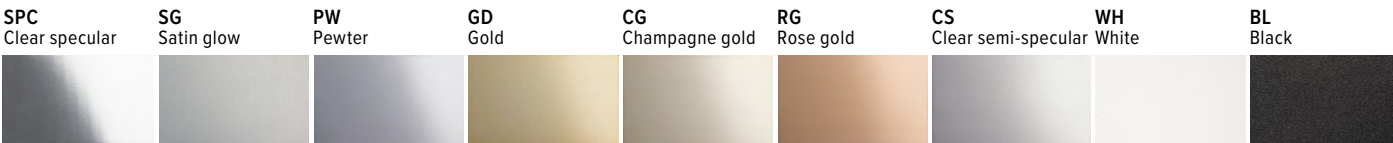
6DR PoE | tunable WHITE

6" Downlight – Round

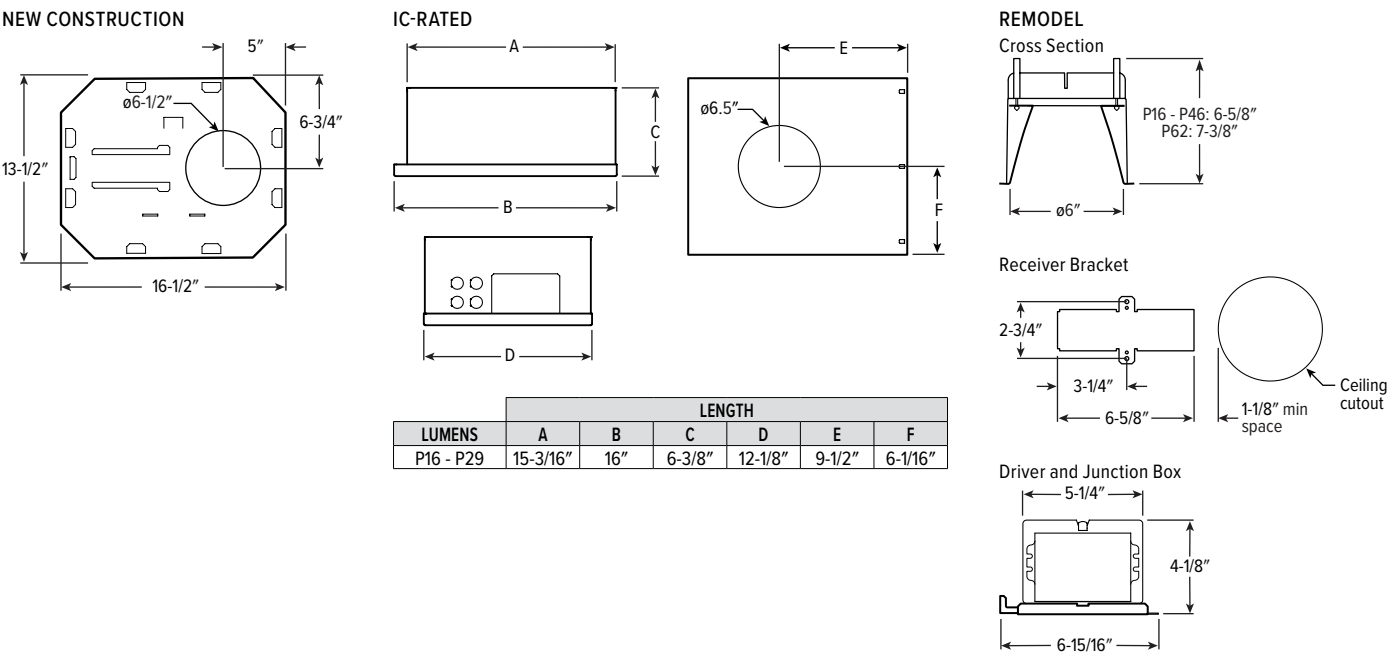
FLANGE TYPE DETAILS



REFLECTOR FINISH DETAILS



MOUNTING TYPE DETAILS



APERTURE ADAPTOR ORDERING INFO

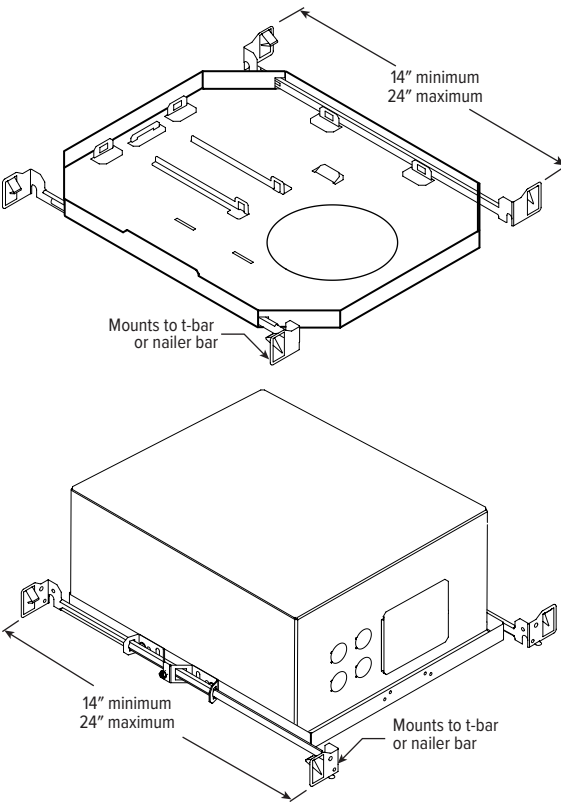
ORDERING EXAMPLE: 4DR - GR - 0575 - WHT			
SERIES	CATALOG NUMBER	CEILING CUTOUT	FINISH
4AR 6AR 4DR 6DR 4DS 6DS 4PR 6PR 4PS 6PS 8DR	GR	Specify ceiling cutout in 1/8" increments. Example: 5.75" = 0575 See Kit Components for application limits.	CS Clear semi-specular powder coat WH White texture powder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



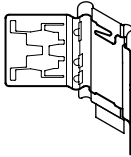
MOUNTING HARDWARE DETAILS

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

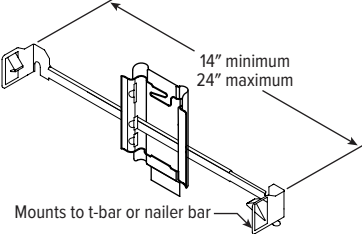


F1 with I Mounting Type

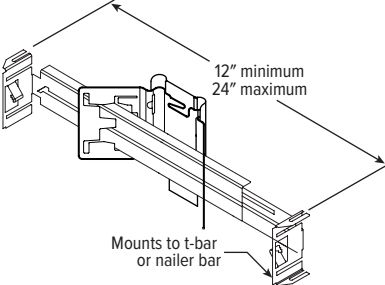
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



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



BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)



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

