

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

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

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

## NEW CONSTRUCTION AND REMODEL

### FEATURES

#### TrimLock®

- Create scalable, highly functioning smart buildings with Platformatics Power over Ethernet 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.
- 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/platformatics](http://hew.com/platformatics)
- Consult factory for design support

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

### HOUSING

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

### TRIM <sup>[7]</sup>

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

### MOUNTING

#### MOUNTING TYPE <sup>[23]</sup>

- N Open pan for new construction
- I IC-rated enclosure for new construction <sup>[25]</sup>
- R Remodel kit <sup>[26]</sup>

#### MOUNTING HARDWARE <sup>[24]</sup>

- F1 Integral 2-position fixed pan bracket, universal bar hanger included <sup>[27]</sup>
- BA1 Adjustable butterfly pan bracket, bar hanger not included <sup>[28]</sup>
- CA1 Adjustable caterpillar pan bracket, universal bar hanger included <sup>[29]</sup>

### 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.
- See page 5 for NODE CONNECTION DETAILS. For additional PoE info, see [hew.com/platformatics](http://hew.com/platformatics).
- 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, ATH 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.



### 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	131.5	1344	109.7	1301	106.2
	M	12.3	1563	127.6	1449	118.3	1409	115.0
	N	12.3	1495	122.1	1457	119.0	1420	115.9
P29	W	25.0	2947	117.9	2454	98.2	2375	95.0
	M	25.0	2855	114.0	2645	105.8	2573	103.9
	N	25.0	2731	109.0	2661	106.4	2593	103.7
P46	W	37.5	4582	122.2	3818	101.8	3695	98.5
	M	37.5	4442	118.5	-	-	-	-
	N	37.5	4252	113.4	-	-	-	-
P62	W	50.0	6158	123.2	5145	102.9	4980	99.6
	M	50.0	5970	119.4	-	-	-	-
	N	50.0	5715	114.3	-	-	-	-

#### TUNABLE WHITE

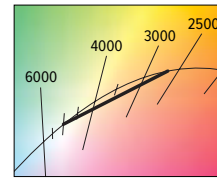
	DIST.	WATTAGE	OPEN REFLECTOR		FLUSH LENS		REGRESSED LENS	
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
P16	W	12.3	1343	109.6	1120	91.4	1084	88.5
	M	12.3	1303	106.4	1207	98.6	1175	95.9
	N	12.3	1246	101.7	1215	99.2	1184	96.6
P29	W	25.0	2728	109.1	2273	90.9	2200	88.0
	M	25.0	2645	105.8	2450	98.0	2383	95.3
	N	25.0	2531	101.2	2464	98.6	2402	96.1
P46	W	37.5	4070	108.5	3400	90.7	3291	87.8
	M	37.5	3945	105.2	-	-	-	-
	N	37.5	3776	100.7	-	-	-	-
P62	W	43.5	4721	108.5	3944	90.7	3817	87.8
	M	43.5	4576	105.2	-	-	-	-
	N	43.5	4381	100.7	-	-	-	-

#### 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 <sup>1</sup>	0.92
	GD	0.93
	CG	0.96
	PW	0.86
	SPC	1.02
R TRIM	RG	0.88
	WH <sup>1</sup>	0.89
	BL <sup>1</sup>	0.47
	WH	1.00
	CS	0.98
	BL	0.79

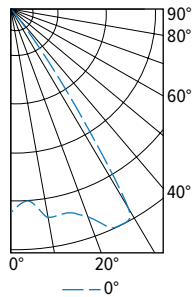
TRIM	
CATALOG NUMBER	CONVERSION FACTOR
S	0.85
AD	0.85
PD	0.85
TD	0.75
WET/CC <sup>2</sup>	0.85



- 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

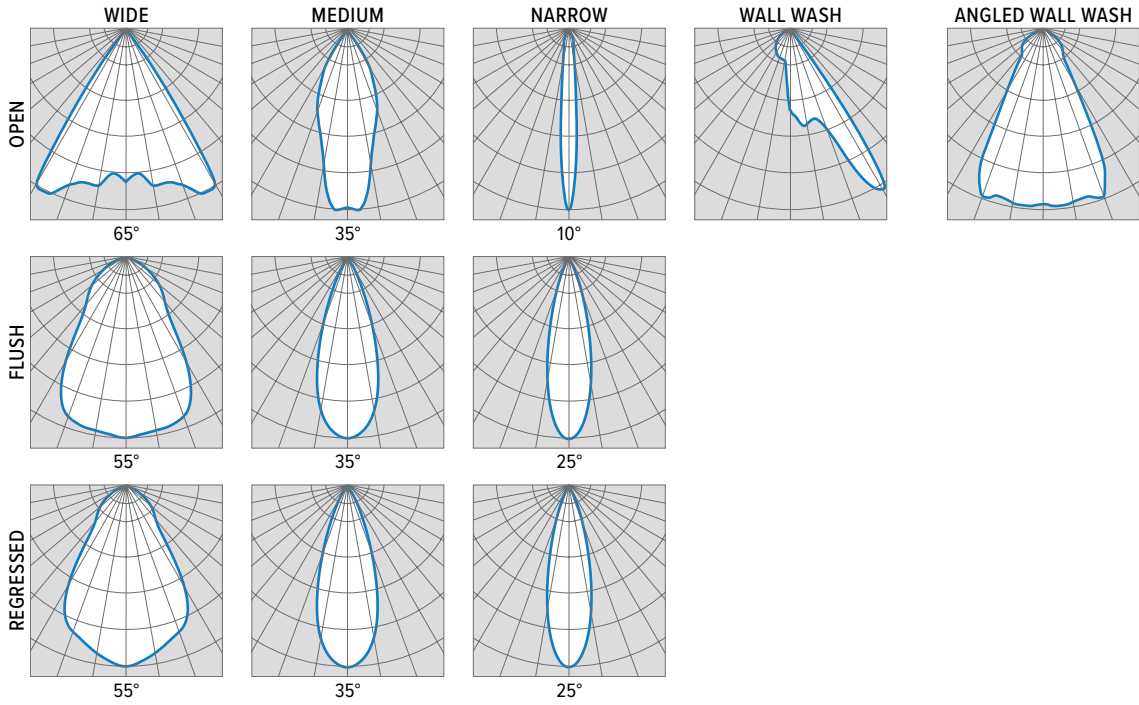


CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	2479	
	5	2341	224
	15	2572	729
	25	2938	1360
	35	895	563
	45	68	53
	55	19	17
	65	3	2
	75	0	0
	85	0	0
	90	0	0

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



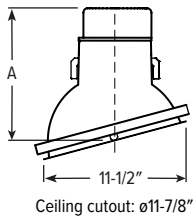
# 6DR PoE | tunable WHITE 6" Downlight – Round



## TRIMLOCK DETAILS



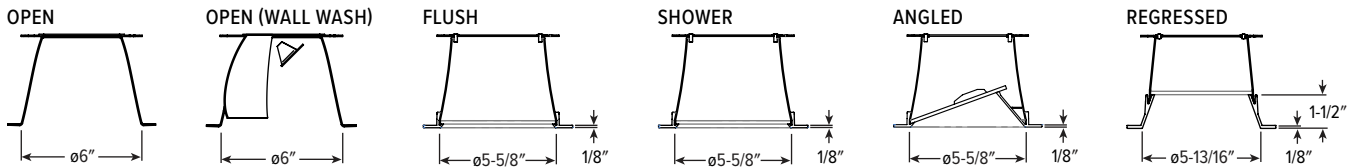
## SLOPED CEILING ADAPTOR DETAILS



LUMENS	A (HEIGHT)						PLENUM HEIGHT
	5°	10°	15°	20°	25°	30°	
P16 - P46	10-11/16"	10-7/8"	10-15/16"	10-7/8"	10-13/16"	10-5/8"	11-1/4"
P62	11-7/16"	11-9/16"	11-5/8"	11-5/8"	11-1/2"	11-1/4"	12"

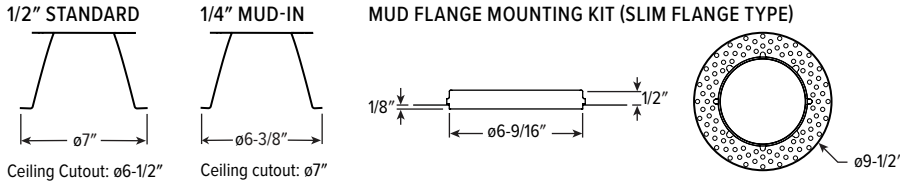
15° Shown

## TRIM TYPE DETAILS

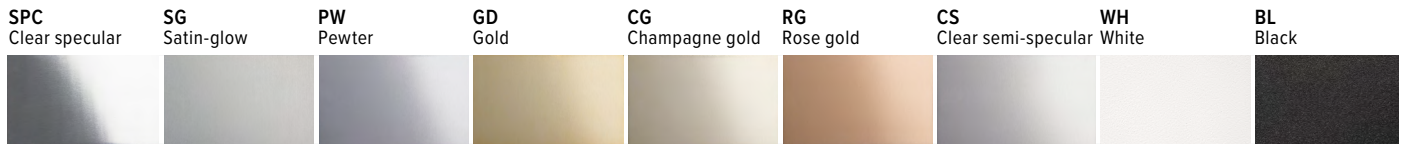


# 6DR PoE | tunable **WHITE** 6" Downlight – Round

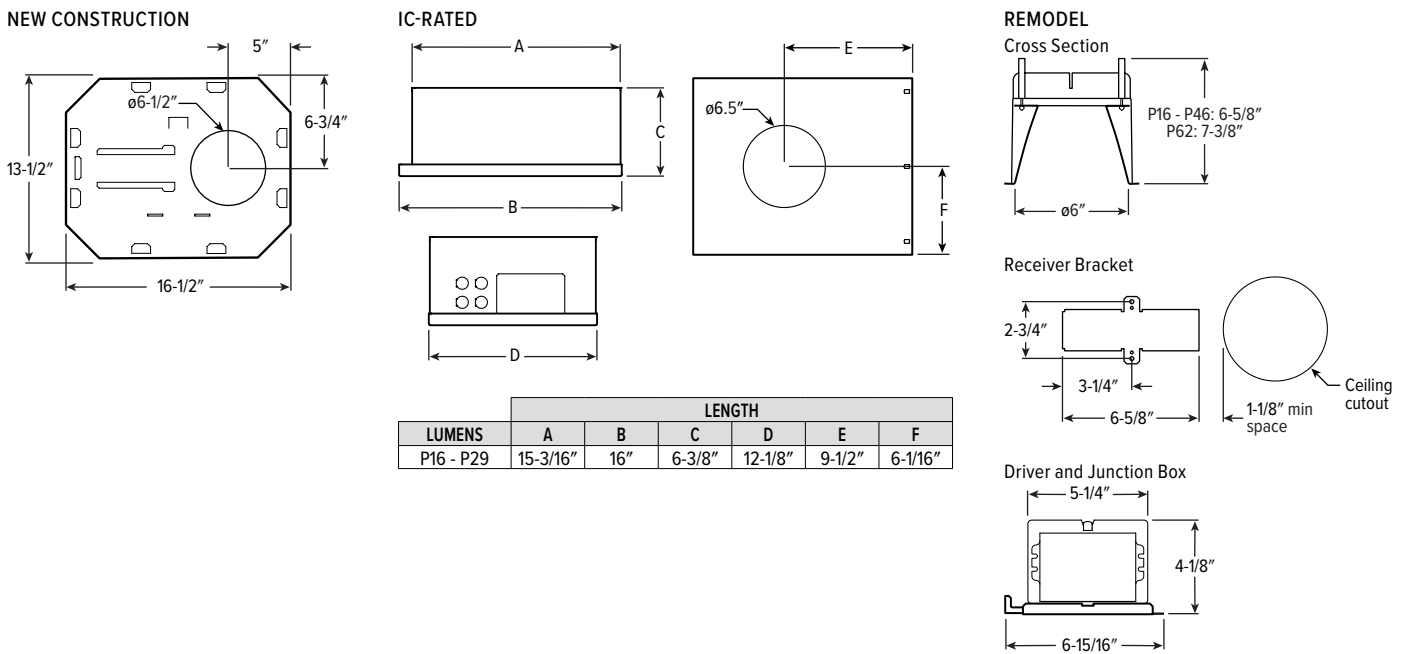
## FLANGE TYPE DETAILS



## REFLECTOR FINISH DETAILS



## MOUNTING TYPE DETAILS



## APERTURE ADAPTOR ORDERING INFO

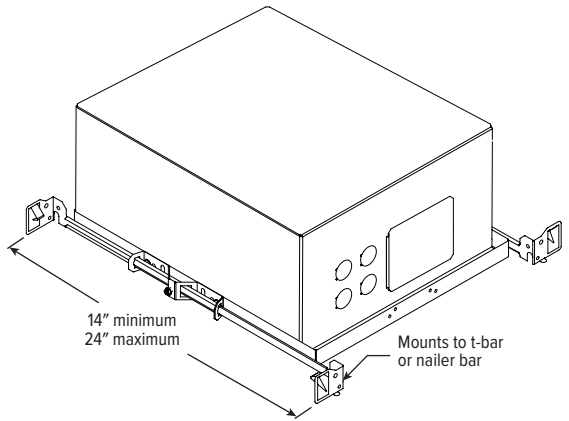
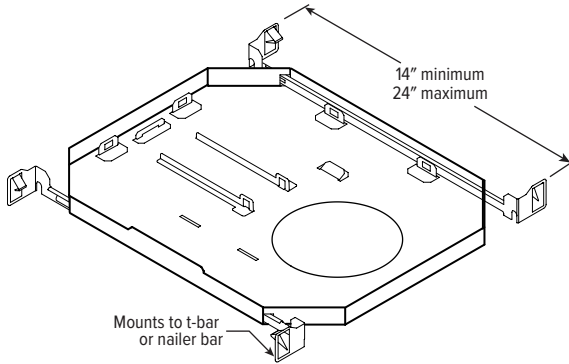
ORDERING EXAMPLE: 4DR - GR - 0575 - WHT			
SERIES	CATALOG NUMBER	CEILING CUTOUT	FINISH
4AR 6AR 4DR 6DR 4DS 6DS 4PR 6PR 4PS 6PS 8DR	GR	Specify ceiling cutout in $1/8"$ increments. Example: $5.75" = 0575$ See Kit Components for application limits.	CS Clear semi-specular powder coat WH White texture powder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

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

# 6DR PoE | tunable WHITE 6" Downlight – Round

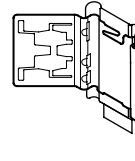
## MOUNTING HARDWARE DETAILS

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

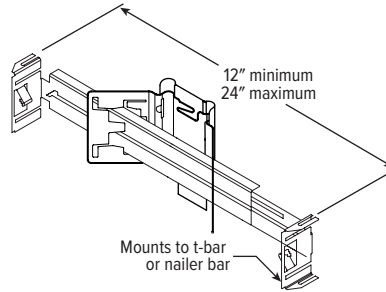


F1 with I Mounting Type

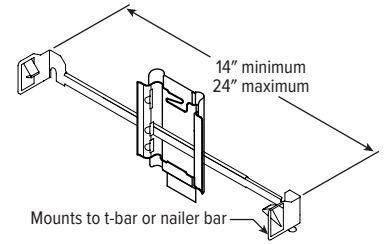
**BA1** Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



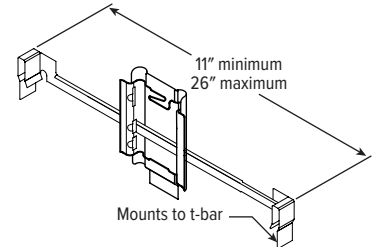
**BA2** Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)



**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)



## NODE CONNECTION DETAILS

Includes 24" cable with 4-position mating connector for Platformatics POE-LN2 node. See node spec sheet for details: [platformatics.com/product/poe-ln2](http://platformatics.com/product/poe-ln2)

