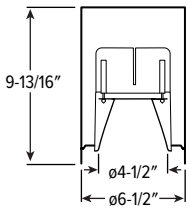
6CR PoE | tunable WHITE
6.5″ Compact Cylinder – Round



CATALOG #:

TYPE:

PROJECT:

BAA & BABA COMPLIANT | Low UGR | TrimLock® | TwistLock™

FEATURES

- Deliver scalable, data-driven smart buildings with PoE-enabled fixtures and controls
- Engineered to deliver great performance in a sleek, space-saving design
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Parallel the performance and style of the Williams downlight collection
- Superior optical control with beams as narrow as 10° and field changeable optics as wide as 65°
- Low UGR meets LEED and WELL requirements

SPECIFICATIONS

- HOUSING – Extruded aluminum with die-cast aluminum accent ring.
- FINISH – Polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- TRIMLOCK – Innovative TrimLock® reflector retention system ensures trim remains secure.
- 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 – Surface, cable, pendant, or wall mount. Indoor applications only.
- LISTINGS –
  - cCSAus conforms to UL STD 1598 and UL STD 8750. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for dry and damp locations.
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american.
- 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: 6CR - TL - 10 - P28/835 - WHT - POE PR - OW - CS - TRIM OPTIONS - CM

HOUSING | TRIM | MOUNT.

HOUSING

SERIES	HEIGHT	LUMENS [1]	CRI	CCT	HOUSING FINISH [2]	CONTROL [3]
6CR - TL TrimLock	**10** 10″	**P15** 1,500lm **P28** 2,800lm **P44** 4,400lm **P62** 6,200lm	**8** 80 **9** 90 [4]	**27** 2700K **30** 3000K **35** 3500K **40** 4000K **50** 5000K **TW** Tunable white (80 CRI, 2700K–5000K)	**ALUM** Silver sparkle aluminum **BLK** Textured black **BRZ** Textured bronze **NKL** Textured nickel **SLV** Textured silver **WHT** Textured white	**POE PR** Power over Ethernet-ready

TRIM

TRIM TYPE

- **O** Open reflector
- **F** Open reflector with frosted top diffuser [6]
- **L** Flush lens [7]
- **R** Regressed lens [8]

DISTRIBUTION

See page 2 for BEAM ANGLE.

- **W** Wide
- **M** Medium [9]
- **N** Narrow [10]

REFLECTOR FINISH [5]

Open Trim Types

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

Lens Trim Types

- **CS** Clear semi-specular powder coat
- **WH** White texture powder coat
- **BL** Black texture powder coat
- **BZ** Bronze texture powder coat
- **NK** Nickel texture powder coat
- **SV** Silver texture powder coat
- **AL** Silver sparkle aluminum

TRIM OPTIONS

- **AD** Diffuse acrylic lens [11]
- **PD** Diffuse 1/8″ polycarbonate lens [12]

MOUNTING

MOUNTING TYPE [13]

- **CM__** Adjustable aircraft cable mount, 24″, 48″, 96″, or 144″ only, must specify. Example: 24″ cable = **CM24** [14]
- **PM__** Pendant mount. Example: 24″ pendant = **PM24** [15]
- **SM** TwistLock surface mount to octagonal J-box
- **WM** Wall mount

NOTES

1. Lumen output based on O Trim Type, W Distribution and CS Reflector Finish, 80 CRI, 3500K for single CCT and 4000K for TW. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
2. See page 3 for HOUSING FINISH DETAILS.
3. For additional PoE connection details, consult factor
4. Not available with Tunable White.
5. See page 3 for REFLECTOR FINISH DETAILS.
6. Not available with P62 lumen package.
7. Not available with P62 lumen package.
8. Not available with P62 lumen package.
9. Not available with P44 lumen package when specified with L or R Trim Types.
10. Not available with P44 lumen package when specified with L or R Trim Types.
11. Not available with O or F Trim Types. W Distribution only.
12. Not available with O or F Trim Types. W Distribution only.
13. See page 4 for MOUNTING DETAILS.
14. Canopy painted white unless specified otherwise.
15. Specify length in 1″ increments, minimum 6″. Canopy and pendant match fixture housing color unless specified otherwise.

6CR PoE | tunable WHITE
6.5" Compact Cylinder – Round

FIXTURE PERFORMANCE DATA

STATIC WHITE

			OPEN REFLECTOR		FLUSH LENS		REGRESSED LENS	
	DIST.	WATTAGE	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
P15	W	12.3	1537	125	1196	97	1208	98
	M	12.3	1480	120	1356	110	1361	111
	N	12.3	1426	116	1365	111	1372	112
P28	W	25.0	2835	113	2196	88	2219	89
	M	25.0	2719	109	2491	100	2499	100
	N	25.0	2619	105	2507	100	2520	101
P44	W	37.5	4408	118	3430	91	3466	92
	M	37.5	4234	113	–	–	–	–
	N	37.5	4039	108	–	–	–	–
P62	W	50.0	6151	123	–	–	–	–
	M	50.0	5822	116	–	–	–	–
	N	50.0	5612	112	–	–	–	–

TUNABLE WHITE

			OPEN REFLECTOR		FLUSH LENS		REGRESSED LENS	
	DIST.	WATTAGE	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
P15	W	12.3	1311	107	1020	83	1031	84
	M	12.3	1263	103	1157	94	1161	94
	N	12.3	1216	99	1164	95	1170	95
P28	W	25.0	2649	106	2061	82	2083	83
	M	25.0	2544	102	2337	93	2345	94
	N	25.0	2427	97	2353	94	2364	95
P44	W	37.5	3473	93	2664	71	2691	72
	M	37.5	3367	90	–	–	–	–
	N	37.5	3222	86	–	–	–	–
P62	W	43.5	4028	93	–	–	–	–
	M	43.5	3905	90	–	–	–	–
	N	43.5	3738	86	–	–	–	–

MULTIPLIER TABLES

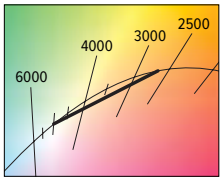
	COLOR TEMPERATURE	LUMENS	
	CCT	STANDARD	TUNABLE WHITE
80 CRI	2700K	0.92	0.83
	3000K	0.98	1.00
	3500K	1.00	0.99
	4000K	1.01	1.00
	5000K	1.02	0.98
90 CRI	2700K	0.76	–
	3000K	0.79	–
	3500K	0.82	–
	4000K	0.84	–
	5000K	0.88	–

	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
	WH [1]	0.89
	BL [1]	0.47
R TRIM	WH	1.00
	CS [1]	0.98
	BL [1]	0.79
	BZ [1]	0.76
	NK [1]	0.81
	SV [1]	0.81
	AL [1]	0.86

TRIM OPTIONS	
CATALOG NUMBER	CONVERSION FACTOR
F	0.75
AD	0.85
PD	0.85

BEAM ANGLE

	TRIM TYPE [2]			
	O	F	L	R
W	65°	60°	50°	50°
M	45°	50°	35°	30°
N	10°	25°	25°	25°

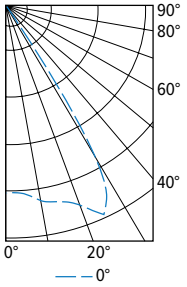


1 Distribution will also be affected, consult factory.
2 Beam angle based on CS or WH Reflector Finish.

- Photometrics tested in accordance with IESNA LM-79. Results based on CS (O Trim Type) or WH (L and R Trim Types) Reflector Finish, W Distribution, static white 3500K/80 CRI or tunable white 4000K/80CRI, and 25°C ambient temperature. Actual performance may vary +/-5%.
- Wattage and efficacy data shown do not account for node losses.
- Use multiplier tables to calculate additional options.

PHOTOMETRY

6CR-TL-P28/835-POE PR-OW-CS Total Luminaire Output: 2835 lumens; 25.0 Watts | Efficacy: 113.4 lm/W | 80 CRI; 3500K CCT



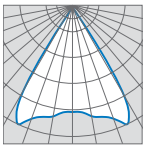
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
	0	2559	
	5	2636	252
	15	2771	786
	25	3155	1460
	35	434	273
	45	62	47
	55	16	14
	65	1	2
	75	0	0
	85	0	0
	90	0	

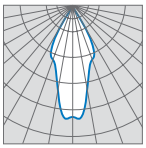
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2770	98
	0 - 60	2834	100
	0 - 90	2835	100
	0-180	2835	100

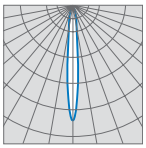
PHOTOMETRY CONTINUED ON NEXT PAGE.

6CR PoE | tunable WHITE
6.5" Compact Cylinder – Round

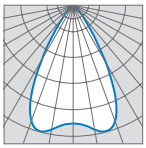
OPEN (O)

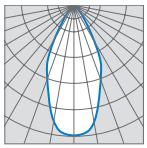

65° Wide

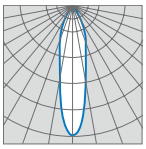

45° Medium


10° Narrow

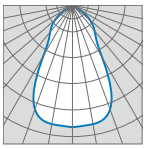
OPEN TOP DIFFUSER (F)

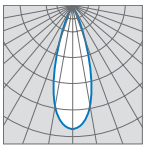

60° Wide

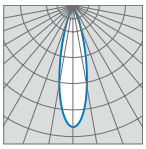

50° Medium


25° Narrow

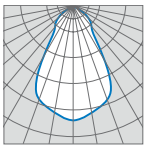
FLUSH (L)

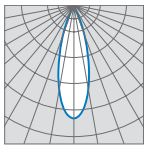

50° Wide

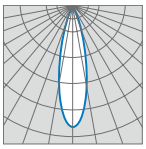

35° Medium


25° Narrow

REGRESSED (R)


50° Wide


30° Medium


25° Narrow

TRIMLOCK DETAILS

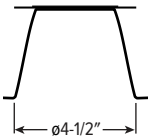
TWIST

PULL

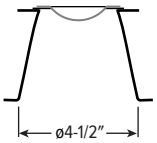
RELEASE

TRIM TYPE DETAILS

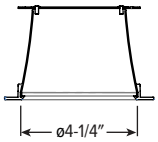
OPEN



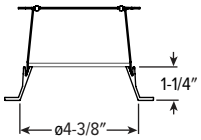
OPEN TOP DIFFUSER



FLUSH

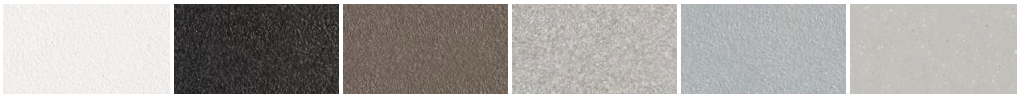


REGRESSED



HOUSING FINISH DETAILS

WHITE | **BLACK** | **BRONZE** | **NICKEL** | **SILVER** | **ALUM**

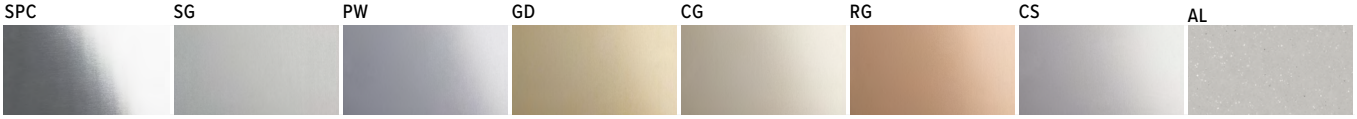


For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

REFLECTOR FINISH DETAILS

Smooth Finish

SPC | **SG** | **PW** | **GD** | **CG** | **RG** | **CS** | **AL**



Textured Finish

WH | **BL** | **BZ** | **NK** | **SV**

6CR PoE | tunable WHITE
6.5″ Compact Cylinder – Round

MOUNTING DETAILS

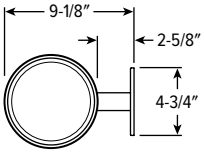
PENDANT MOUNT (PM__)

Provided with:

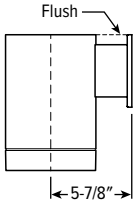
- 38° Swivel canopy
- 3/8″ IPS Threaded stem
- Specify length of stem, 6″ minimum, 24″ default length

WALL MOUNT (WM)

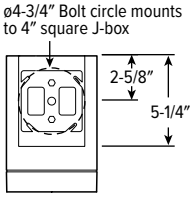
TOP VIEW



SIDE VIEW



BACK VIEW



SURFACE MOUNT (SM)

TwistLock™

Simple lift-and-twist mounting secures fixture to J-box.

CABLE MOUNT (CM__)

Provided with:

- Adjustable length aircraft cable, must specify length in 24″, 48″, 96″, or 144″ inches.
- 18-gauge cord, see Cord Options for ordering info.
- One 5″ canopy
- T-bar clip with 1/4-20 stud
- Hard ceiling anchor provided by others

POWER CORD MOUNT (PC)

Provided with:

- 18-gauge cord, see Cord Options for ordering info.
- One 5″ canopy
- Power cord mounting adaptor