

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

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

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



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
- Ensure a simple and secure installation with TwistLock™ surface mount technology
- Precision illumination with 8° narrow spot to 70° wide optics
- 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.
- 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 C.O.B. LED array. Modular quick-connect plug for easy field-connection of LED light assembly to node. Reported L70>55,000 hours. Reported L90>49,000 hours. Estimated L70 = 179,000 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.
  - 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: **4CR - 08 - P20/835 - WHT - POE PR** - HOUSING - **OW - CS - TRIM OPTIONS** - TRIM - **CM** MOUNT.

## HOUSING

SERIES	HEIGHT	LUMENS <sup>[1]</sup>	CRI	CCT	HOUSING FINISH <sup>[2]</sup>	CONTROL <sup>[3]</sup>
4CR	08 8"	P5 500lm	8 80 <sup>[4]</sup>	27 2700K	ALUM Silver sparkle aluminum	POE PR Power over Ethernet-ready
		P7 700lm	9 90	30 3000K	BLK Textured black	
		P9 900lm		35 3500K	BRZ Textured bronze	
		P12 1,200lm		40 4000K	NKL Textured nickel	
		P15 1,500lm		50 5000K	SLV Textured silver	
		P20 2,000lm		TW Tunable white (90 CRI, 2700K-5000K) <sup>[5]</sup>	WHT Textured white	
		P23 2,300lm				

## TRIM

TRIM TYPE	DISTRIBUTION <sup>[6]</sup>	REFLECTOR FINISH <sup>[7]</sup>	TRIM OPTIONS
O Open reflector	W 70° Wide	Open Trim Types	AD Diffuse acrylic lens <sup>[10]</sup>
L Flush lens	M 40° Medium	CS Clear semi-specular anodize	PD Diffuse 1/8" polycarbonate lens <sup>[11]</sup>
R Regressed lens	N 15° Narrow <sup>[8]</sup>	SG Satin-glow anodize	TD Diffuse polycarbonate lens media at top of open reflector <sup>[12]</sup>
	S 8° Narrow spot <sup>[9]</sup>	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	
		<b>Lens Trim Types</b>	
		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	

## MOUNTING

### MOUNTING TYPE <sup>[13]</sup>

- CM\_\_ Adjustable aircraft cable mount, 24", 48", 96", or 144" only, must specify. Example: 24" cable = **CM24** <sup>[14]</sup>
- PM\_\_ Pendant mount. Example: 24" pendant = **PM24** <sup>[15]</sup>
- SM TwistLock surface mount to octagonal J-box
- WM Wall mount

## NOTES

- Lumen output based on O Trim Type, W Distribution and CS Reflector Finish, 3500K/80 CRI for single CCT and 4000K/90 CRI for TW. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- See page 3 for HOUSING FINISH DETAILS.
- For additional PoE connection details, consult factory.
- Not available with Tunable White.
- Not available with P20 or P23 lumen packages, or S Distribution.
- Beam angle based on O Trim Type and CS Reflector Finish. Trim Type affects beam angle. See page 2 for FIXTURE PERFORMANCE DATA.
- See page 3 for REFLECTOR FINISH DETAILS.
- Not available with P23 lumen package when specified with L or R Trim Types. Not available with P15 lumen package when specified with Tunable White and L or R Trim Types.
- Not available with P20 or P23 lumen packages, Tunable White, or 950 CRI/CCT.
- Not available with O Trim Type. W Distribution only.
- Not available with O Trim Type. W Distribution only.
- O Trim Type only.
- See page 4 for MOUNTING DETAILS.
- Canopy painted white unless specified otherwise.
- Specify length in 1" increments, minimum 6". Canopy and pendant match fixture housing color unless specified otherwise.



### 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)
P5	W	4.2	516	123	540	129	535	127
	M	4.2	499	119	532	127	509	121
	N	4.2	407	97	528	126	515	123
	S	5.4	452	84	583	108	562	104
P7	W	5.9	706	120	739	125	732	124
	M	5.9	682	116	728	123	697	118
	N	5.9	557	94	722	122	704	119
	S	7.6	587	77	813	107	784	103
P9	W	7.9	910	115	953	121	943	119
	M	7.9	879	111	938	119	898	114
	N	7.9	718	91	931	118	908	115
	S	11.1	807	73	1041	94	1004	90
P12	W	11.5	1267	110	1327	115	1313	114
	M	11.5	1224	106	1307	114	1250	109
	N	11.5	1000	87	1296	113	1264	110
	S	15.3	1000	65	1382	90	1332	87
P15	W	14.7	1571	107	1645	112	1628	111
	M	14.7	1518	103	1620	110	1550	105
	N	14.7	1240	84	1607	109	1567	107
	S	22.7	1325	58	1711	75	1650	73
P20	W	20.6	2063	100	2160	105	2138	104
	M	20.6	1993	97	2127	103	2035	99
	N	20.6	1629	79	2110	102	2058	100
	S	-	-	-	-	-	-	-
P23	W	23.7	2281	96	2388	101	2364	100
	M	23.7	2204	93	2352	99	2251	95
	N	23.7	1801	76	-	-	-	-
	S	-	-	-	-	-	-	-

#### 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)
P5	W	7.3	570	78	597	82	591	81
	M	7.3	575	79	614	84	587	80
	N	7.3	440	60	571	78	557	76
	S	-	-	-	-	-	-	-
P7	W	10.1	761	75	797	79	789	78
	M	10.1	768	76	819	81	784	78
	N	10.1	588	58	762	75	743	74
	S	-	-	-	-	-	-	-
P9	W	14.6	1062	73	1112	76	1101	75
	M	14.6	1071	73	1144	78	1094	75
	N	14.6	821	56	1063	73	1037	71
	S	-	-	-	-	-	-	-
P12	W	19.3	1306	68	1368	71	1353	70
	M	19.3	1318	68	1406	73	1346	70
	N	19.3	1009	52	1308	68	1275	66
	S	-	-	-	-	-	-	-
P15	W	23.7	1462	62	1531	65	1515	64
	M	23.7	1475	62	1574	66	1506	64
	N	23.7	1130	48	-	-	-	-
	S	-	-	-	-	-	-	-

- <sup>1</sup> Distribution will also be affected, consult factory.
- 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/90CRI, 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.

#### MULTIPLIER TABLES

	COLOR TEMPERATURE		
	CCT	LUMENS	
		STANDARD	TUNABLE WHITE
80 CRI	2700K	0.92	-
	3000K	0.98	-
	3500K	1.00	-
	4000K	1.01	-
	5000K	1.02	-
90 CRI	2700K	0.76	0.87
	3000K	0.79	0.96
	3500K	0.82	1.02
	4000K	0.84	1.00
	5000K	0.88	1.02

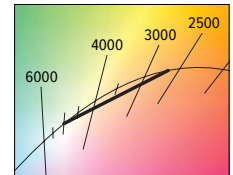
	REFLECTOR FINISH	
	CATALOG NUMBER	CONVERSION FACTOR
O TRIM	CS	1.00
	SG <sup>[1]</sup>	0.92
	GD	0.93
	CG	0.96
	PW	0.86
	SPC	1.02
	RG	0.88
	WH <sup>[1]</sup>	0.89
	BL <sup>[1]</sup>	0.47

R TRIM	WH	1.00
	CS <sup>[1]</sup>	0.98
	BL <sup>[1]</sup>	0.79
	BZ <sup>[1]</sup>	0.76
	NK <sup>[1]</sup>	0.81
	SV <sup>[1]</sup>	0.81
	AL <sup>[1]</sup>	0.86

TRIM OPTIONS	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.85
PD	0.85
TD	0.67

#### BEAM ANGLE

	TRIM TYPE		
	OPEN	FLUSH	REGRESSED
W	70°	50°	55°
M	40°	30°	30°
N	15°	20°	20°
S	8°	14°	14°



PHOTOMETRY CONTINUED ON NEXT PAGE.

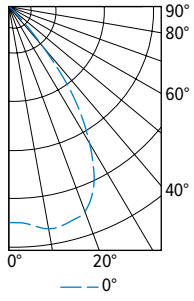


# 4CR PoE | tunable WHITE

## 4" Compact Cylinder – Round

### PHOTOMETRY

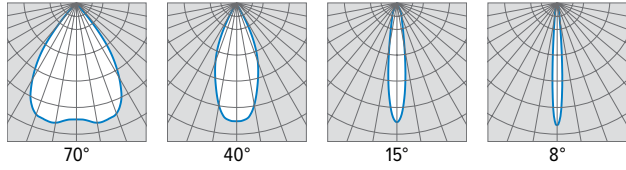
4CR-P15/835-POE PR-OW-CS Total Luminaire Output: 1571 lumens; 14.7 Watts | Efficacy: 107 lm/W | 80 CRI; 3500K CCT



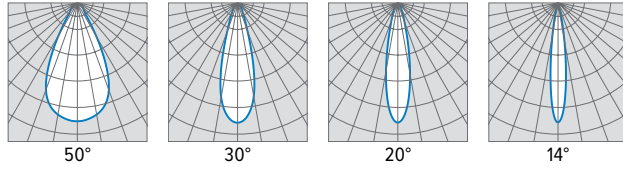
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1274	
	5	1288	125
	15	1323	374
	25	1178	532
	35	690	415
	45	95	96
	55	22	21
	65	7	8
	75	1	2
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1445	92
	0 - 60	1562	99
	0 - 90	1571	100
	0-180	1571	100

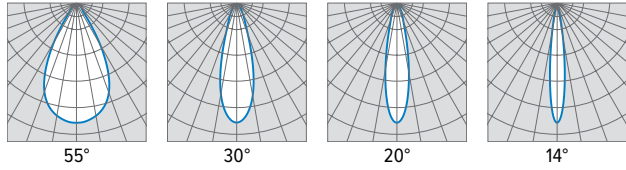
#### OPEN



#### FLUSH

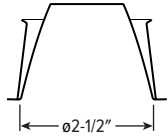


#### REGRESSED

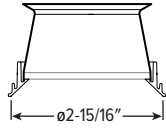


### TRIM TYPE DETAILS

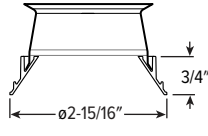
#### OPEN



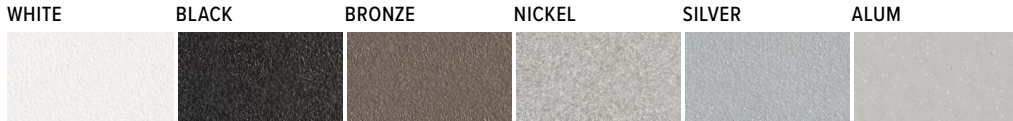
#### FLUSH



#### REGRESSED



### HOUSING FINISH DETAILS



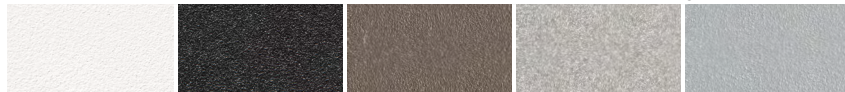
For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

### REFLECTOR FINISH DETAILS

#### Smooth Finish SPC



#### Textured Finish WH



# 4CR PoE | tunable WHITE

## 4" Compact Cylinder – Round

### MOUNTING DETAILS

#### PENDANT MOUNT (PM\_\_)



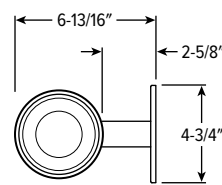
Provided with:

- 45° Swivel canopy
- 3/8" IPS Threaded stem
- Specify length of stem, 6" minimum, 24" default length

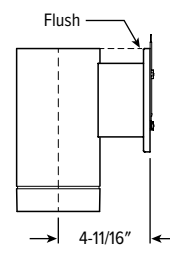
#### WALL MOUNT (WM)



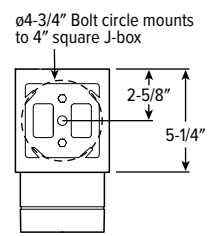
#### TOP VIEW



#### 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.
- One 5" canopy
- T-bar clip with 1/4-20 stud
- Hard ceiling anchor provided by others

