

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

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

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

## FEATURES

- Deliver scalable, data-driven smart buildings with PoE-enabled fixtures and controls
- Slim profile for unobtrusive illumination
- Smoothly accent walls and eliminate dark ceilings with direct and indirect lighting
- Parallel the performance and style of the Williams downlight collection
- Superior optical control with beams as narrow as 14° and field changeable optics as wide as 50°



## 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 lens (acrylic downlight, tempered glass uplight).
- 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** – Wall mount. Indoor applications only. Max weight 6-1/4 lbs.
- 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: 4CSDI - P12/835U/P12/835D - WHT - POE PR - LW/LM - WH - TRIM OPTIONS - WM

## HOUSING

SERIES	LUMEN PACKAGE (Example: P12/835U/P9/835D)	HOUSING FINISH <sup>[1]</sup>	CONTROL <sup>[2]</sup>
4CSDI	Specify lumen packages: <b>U</b> for Uplight and <b>D</b> for Downlight	<b>ALUM</b> Silver sparkle aluminum	<b>POE PR</b> Power over Ethernet-ready
	<b>LUMENS <sup>[3]</sup></b> <b>CRI</b> <b>CCT</b> <b>U OR D</b>	<b>BLK</b> Textured black	
	<b>P5</b> 500lm <b>8</b> 80 <sup>[4]</sup> <b>27</b> 2700K <b>U</b> Uplight	<b>BRZ</b> Textured bronze	
	<b>P7</b> 700lm <b>9</b> 90 <sup>[5]</sup> <b>30</b> 3000K <b>D</b> Downlight	<b>NKL</b> Textured nickel	
	<b>P9</b> 900lm <b>35</b> 3500K	<b>SLV</b> Textured silver	
	<b>P12</b> 1,200lm <b>40</b> 4000K	<b>WHT</b> Textured white	
	<b>P15</b> 1,500lm <b>50</b> 5000K		
	<b>P20</b> 2,000lm <b>TW</b> Tunable white (90 CRI, 2700K-5000K) <sup>[6]</sup>		

## TRIM

### TRIM TYPE AND DISTRIBUTION <sup>[7]</sup>

(Example Uplight/Downlight: LW/LM)

TRIM TYPE	DISTRIBUTION
<b>Uplight</b>	<b>Uplight</b>
<b>L</b> Flush lens <sup>[11]</sup>	<b>W</b> 50° Wide
	<b>M</b> 30° Medium
<b>Downlight</b>	<b>Downlight</b>
<b>O</b> Open reflector	<b>W</b> 50° Wide
<b>L</b> Flush lens	<b>M</b> 30° Medium
<b>R</b> Regressed lens	<b>N</b> 20° Narrow <sup>[12]</sup>
	<b>S</b> 14° Narrow spot <sup>[13]</sup>

### REFLECTOR FINISH <sup>[8]</sup>

Downlight Open Trim Types
<b>CS</b> Clear semi-specular anodize
<b>SG</b> Satin-glow anodize
<b>GD</b> Gold anodize
<b>CG</b> Champagne gold anodize
<b>PW</b> Pewter anodize
<b>SPC</b> Clear specular anodize
<b>RG</b> Rose gold anodize

### Downlight Lens Trim Types

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

### TRIM OPTIONS

<b>AD</b> Diffuse acrylic lens <sup>[9]</sup>
<b>PD</b> Diffuse 1/8" polycarbonate lens <sup>[10]</sup>

## MOUNTING

### MOUNTING TYPE <sup>[14]</sup>

**WM** Wall mount

## NOTES

- See page 4 for HOUSING FINISH DETAILS.
- For additional PoE connection details, consult factory.
- Lumen output based on L trim type, W distribution and WH finish, 3500K/80 CRI for single CCT and 4000K/90 CRI for TW. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- Not available with Tunable White.
- Extended lead times may apply for single CCT. Consult factory for availability.
- Not available with S Distribution or P20 lumen package.
- Beam angle based on L Trim Type and WH Reflector Finish. Trim Type affects beam angle. See page 2 for FIXTURE PERFORMANCE DATA.
- Specified for Downlight Trim Type only. See page 4 for REFLECTOR FINISH DETAILS.

- Not available with O trim type. Downlight only. W distribution only.
- Not available with O trim type. Downlight only. W distribution only.
- Trim finish matches Housing Finish. Other colors available, consult factory.
- Not available with P15 lumen package when specified with Tunable White.
- Not available with P20 lumen package, Tunable White, or 950 CRI/CCT.
- See page 4 for MOUNTING DETAILS.



### FIXTURE PERFORMANCE DATA

#### STATIC WHITE

		DOWNLIGHT							UPLIGHT		
		WATTAGE	OPEN REFLECTOR		FLUSH LENS		REGRESSED LENS		WATTAGE	FLUSH LENS	
DIST.	DELIVERED LUMENS		EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS		EFFICACY (lm/W)	
P5	W	4.2	381	91	526	125	530	126	4.2	599	143
	M	4.2	361	86	528	126	520	124	4.2	601	143
	N	4.2	372	89	511	122	511	122	—	—	—
	S	5.4	435	81	607	112	609	113	—	—	—
P7	W	5.9	521	88	720	122	725	123	5.9	820	139
	M	5.9	494	84	722	122	711	121	5.9	822	139
	N	5.9	509	86	699	118	699	118	—	—	—
	S	7.6	565	74	789	104	792	104	—	—	—
P9	W	7.9	672	85	928	117	935	118	7.9	1056	134
	M	7.9	637	81	931	118	917	116	7.9	1060	134
	N	7.9	656	83	901	114	901	114	—	—	—
	S	11.1	777	70	1085	98	1089	98	—	—	—
P12	W	11.5	936	81	1292	112	1302	113	11.5	1471	128
	M	11.5	886	77	1296	113	1277	111	11.5	1475	128
	N	11.5	914	79	1254	109	1255	109	—	—	—
	S	15.3	936	61	1345	88	1349	88	—	—	—
P15	W	14.7	1160	79	1602	109	1614	110	14.7	1824	124
	M	14.7	1099	75	1607	109	1583	108	14.7	1829	124
	N	14.7	1133	77	1555	106	1556	106	—	—	—
	S	22.7	1276	56	1783	79	1789	79	—	—	—
P20	W	20.6	1523	74	2104	102	2119	103	20.6	2395	116
	M	20.6	1443	70	2110	102	2079	101	20.6	2404	117
	N	20.6	1488	72	2042	99	2043	99	—	—	—
	S	—	—	—	—	—	—	—	—	—	—

#### TUNABLE WHITE

		DOWNLIGHT							UPLIGHT		
		WATTAGE	OPEN REFLECTOR		FLUSH LENS		REGRESSED LENS		WATTAGE	FLUSH LENS	
DIST.	DELIVERED LUMENS		EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS		EFFICACY (lm/W)	
P5	W	7.3	421	58	581	80	586	80	7.3	661	91
	M	7.3	416	57	609	83	600	82	7.3	693	95
	N	7.3	402	55	552	76	553	76	—	—	—
	S	—	—	—	—	—	—	—	—	—	—
P7	W	10.1	562	56	776	77	782	77	10.1	883	87
	M	10.1	556	55	813	80	801	79	10.1	925	92
	N	10.1	537	53	737	73	738	73	—	—	—
	S	—	—	—	—	—	—	—	—	—	—
P9	W	14.6	784	54	1083	74	1091	75	14.6	1233	84
	M	14.6	776	53	1134	78	1117	77	14.6	1291	88
	N	14.6	750	51	1029	70	1030	71	—	—	—
	S	—	—	—	—	—	—	—	—	—	—
P12	W	19.3	964	50	1332	69	1342	70	19.3	1516	79
	M	19.3	954	49	1395	72	1374	71	19.3	1588	82
	N	19.3	922	48	1265	66	1266	66	—	—	—
	S	—	—	—	—	—	—	—	—	—	—
P15	W	23.7	1080	46	1491	63	1502	63	23.7	1697	72
	M	23.7	1068	45	1562	66	1538	65	23.7	1778	75
	N	—	—	—	—	—	—	—	—	—	—
	S	—	—	—	—	—	—	—	—	—	—
P20	W	—	—	—	—	—	—	—	—	—	—
	M	—	—	—	—	—	—	—	—	—	—
	N	—	—	—	—	—	—	—	—	—	—
	S	—	—	—	—	—	—	—	—	—	—

- Distribution will also be affected, consult factory.
- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Standard results based on 3500K/80 CRI and CS (O Trim Type) or WH (L and R Trim Types) Reflector Finish. Actual lumens may vary +/-5%.
- Tunable white results based on 4000K/90CRI and CS (O Trim Type) or WH (L and R Trim Types) Reflector Finish. Actual lumens may vary +/-5%.
- Wattage is for downlight or uplight components. Add wattages together for selected lumen packages to find total fixture wattage.
- Wattage and efficacy data shown do not account for node losses.
- Use multiplier tables to calculate additional options.

#### MULTIPLIER TABLES

		COLOR TEMPERATURE	
		LUMENS	
CCT		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

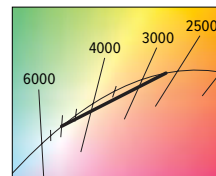
CCT	REFLECTOR FINISH	
	CATALOG NUMBER	CONVERSION FACTOR
	CS	1.00
O TRIM	SG <sup>(1)</sup>	0.92
	GD	0.93
	CG	0.96
	PW	0.86
	SPC	1.02
	RG	0.88
	WH <sup>(1)</sup>	0.89
	BL <sup>(1)</sup>	0.47

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

#### BEAM ANGLE

	TRIM TYPE		
	FLUSH	OPEN	REGRESSED
W	50°	50°	55°
M	30°	47°	30°
N	20°	47°	20°
S	14°	43°	14°

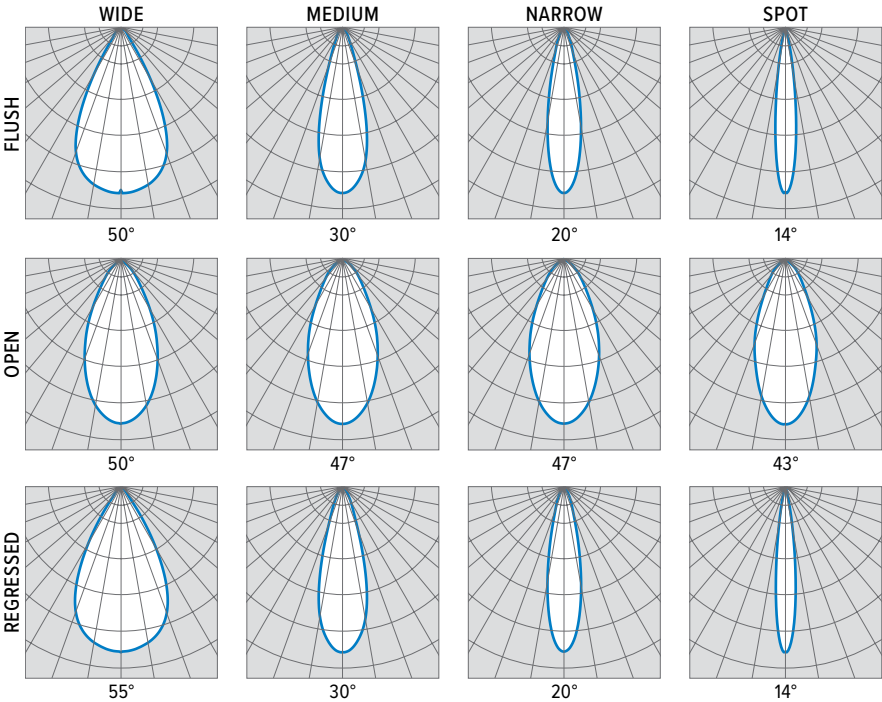
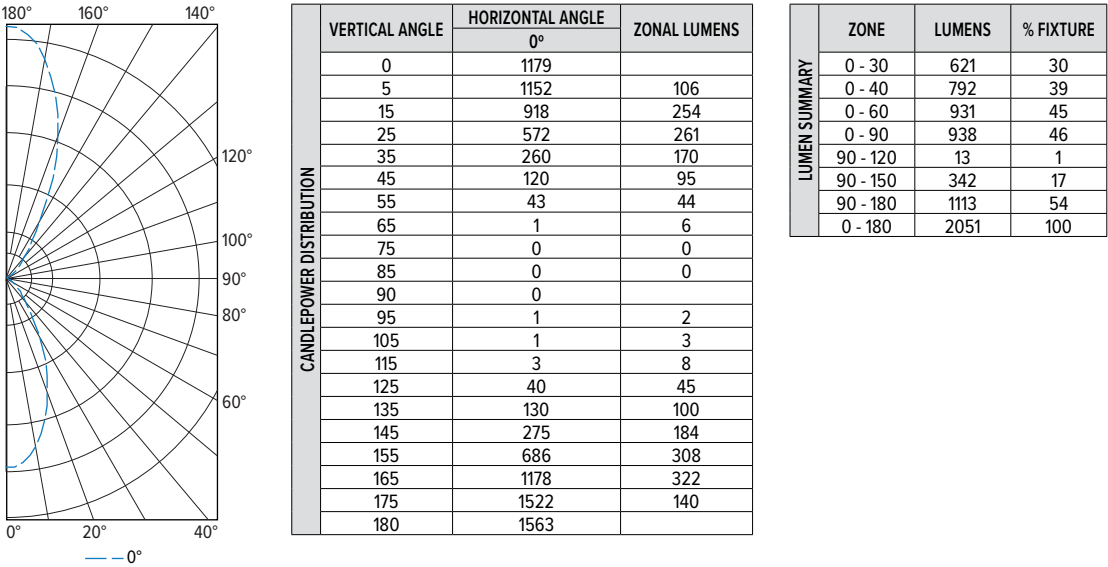


4CSDI

PoE | tunable **WHITE**  
4" Direct/Indirect Cylinder – Square

PHOTOMETRY

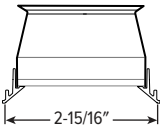
4CSDI-P12/835U/P12/835D-WHT-POE PR-OW/OW-CS-WM Total Luminaire Output: 2051 lumens; 23 Watts | Efficacy: 89 lm/W | 80 CRI; 3500K CCT



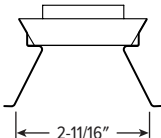
TRIM TYPE DETAILS

DOWNLIGHT

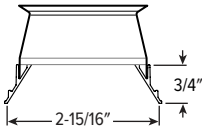
FLUSH



OPEN

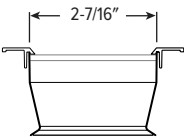


REGRESSED



UPLIGHT

FLUSH

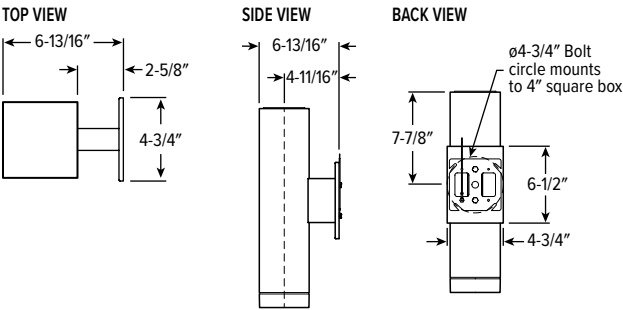


4CSDI

PoE | tunable **WHITE**  
4" Direct/Indirect Cylinder – Square

MOUNTING DETAILS

Mounts to 4" square J-box



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

