

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

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

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

## FEATURES

- Create scalable, highly functioning smart buildings with Platformatics Power over Ethernet controls
- Smoothly accent walls and eliminate dark ceilings with direct and indirect lighting
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Parallel the performance and style of the Williams downlight collection

## 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, tempered glass 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** – 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 damp locations.
- **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)
- Consult factory for design support



**ORDERING EXAMPLE:** 4CSDI - P12/835U/P12/835D - WHT - POE PR - LW/LM - WH - TRIM OPTIONS - WM MOUNT.

## 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, Platformatics-ready
	<b>LUMENS</b> <sup>[3]</sup> <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)	REFLECTOR FINISH <sup>[8]</sup>	TRIM OPTIONS
<b>TRIM TYPE</b> <b>DISTRIBUTION</b>	<b>Downlight Open Trim Types</b>	<b>AD</b> Diffuse acrylic lens <sup>[9]</sup>
<b>Uplight</b> <b>Uplight</b>	<b>CS</b> Clear semi-specular anodize	<b>PD</b> Diffuse 1/8" polycarbonate lens <sup>[10]</sup>
<b>L</b> Flush lens <sup>[11]</sup> <b>W</b> 50° Wide	<b>SG</b> Satin-glow anodize	
<b>M</b> 30° Medium	<b>GD</b> Gold anodize	
<b>Downlight</b>	<b>CG</b> Champagne gold anodize	
<b>O</b> Open reflector <b>Downlight</b>	<b>PW</b> Pewter anodize	
<b>L</b> Flush lens <b>W</b> 50° Wide	<b>SPC</b> Clear specular anodize	
<b>R</b> Regressed lens <b>M</b> 30° Medium	<b>RG</b> Rose gold anodize	
<b>N</b> 20° Narrow <sup>[12]</sup>	<b>Downlight Lens Trim Types</b>	
<b>S</b> 14° Narrow spot <sup>[13]</sup>	<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	

## MOUNTING

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

**WM** Wall mount

## NOTES

- See page 4 for HOUSING FINISH DETAILS.
- See page 4 for NODE CONNECTION DETAILS. For additional PoE info, see [hew.com/poe](http://hew.com/poe)
- 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

DIST.	WATTAGE	DOWNLIGHT						UPLIGHT			
		OPEN REFLECTOR		FLUSH LENS		REGRESSED LENS		WATTAGE	FLUSH LENS		
		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

DIST.	WATTAGE	DOWNLIGHT						UPLIGHT			
		OPEN REFLECTOR		FLUSH LENS		REGRESSED LENS		WATTAGE	FLUSH LENS		
		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	-	-	-	-	-	-	-	-	-	-

#### MULTIPLIER TABLES

CCT	LUMENS	
	STANDARD	TUNABLE WHITE
	2700K	0.92
3000K	0.98	-
3500K	1.00	-
4000K	1.01	-
5000K	1.02	-

CCT	LUMENS	
	STANDARD	TUNABLE WHITE
	2700K	0.76
3000K	0.79	0.96
3500K	0.82	1.02
4000K	0.84	1.00
5000K	0.88	1.02

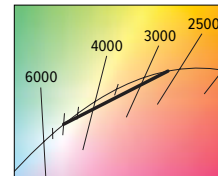
CATALOG NUMBER	CONVERSION FACTOR		
	CS	1.00	
	SG <sup>(1)</sup>	0.92	
GD	0.93		
CG	0.96		
PW	0.86		
SPC	1.02		
RG	0.88		
WH <sup>(1)</sup>	0.89		
BL <sup>(1)</sup>	0.47		

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

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°



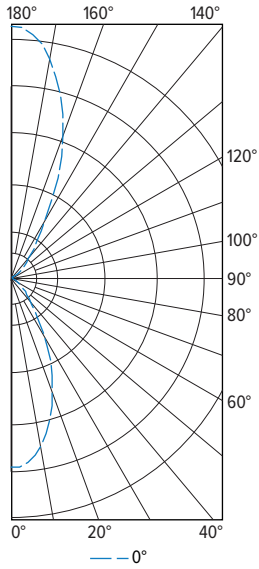
- <sup>1</sup> Distribution will also be affected, consult factory.
- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Standard results based on 3500K/80 CRI and CS (O Trim Type) or WH (L and R Trim Types) Reflector Finish. Actual lumens may vary +/-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.



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

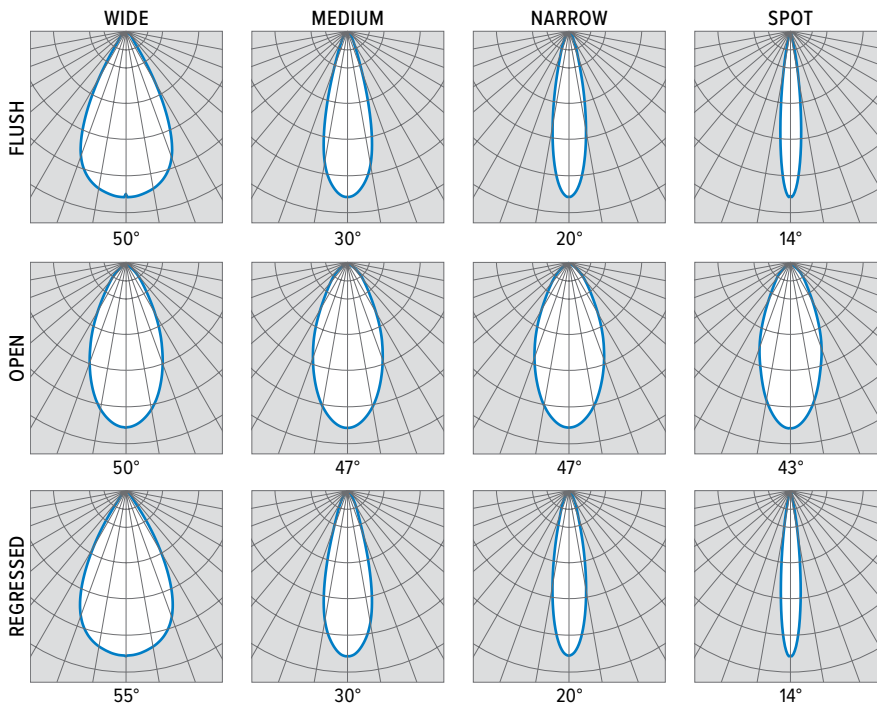
## PHOTOMETRY

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



VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
	0°	
0	1179	
5	1152	106
15	918	254
25	572	261
35	260	170
45	120	95
55	43	44
65	1	6
75	0	0
85	0	0
90	0	
95	1	2
105	1	3
115	3	8
125	40	45
135	130	100
145	275	184
155	686	308
165	1178	322
175	1522	140
180	1563	

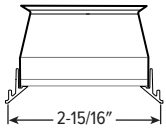
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	621	30
0 - 40	792	39	
0 - 60	931	45	
0 - 90	938	46	
90 - 120	13	1	
90 - 150	342	17	
90 - 180	1113	54	
0 - 180	2051	100	



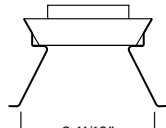
## TRIM TYPE DETAILS

### DOWNLIGHT

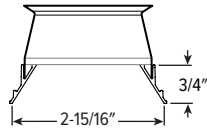
#### FLUSH



#### OPEN

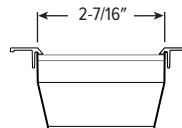


#### REGRESSED



### UPLIGHT

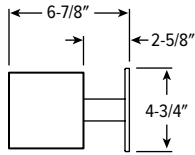
#### FLUSH



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

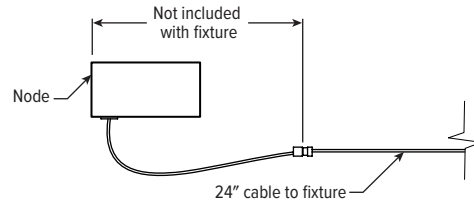
## MOUNTING DETAILS

Mounts to 4" square J-box

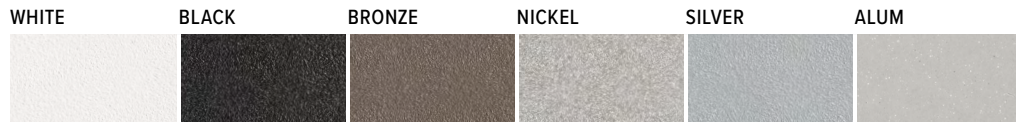


## NODE CONNECTION DETAILS

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)



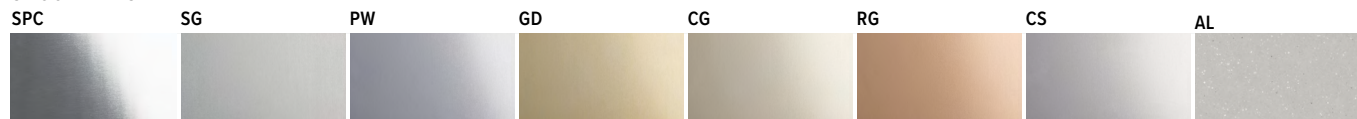
## HOUSING FINISH DETAILS



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



### TEXTURED FINISH

