

## IPML1

### Applications

The ISON™ IPML1 unit circulates airflow and increases the number of air turnovers in a space, contributing to better air quality and comfort. It is also equipped with high efficiency LED components to provide even light distribution. Ideal for new construction or retrofit projects that require a recessed, surface or suspended mounted fan/light.



IPML1A24C1UNVFD840MWHCRM-SP

### Features

- High efficiency LED solution
- Quiet fans provide up to 45 CFM airflow each
- Britex™ coating suppresses the growth of bacteria or fungi on the surface and interior of the device
- Aluminum construction provides nice aesthetics and efficient heat dissipation.
- Multiple mounting methods
- Available in 2' x 2' and 2' x 4' sizes
- 20kV/10kA surge protection available

### Electrical

- Available in 120v-277v input range
- LED full dimming [0-10v]

### Ambient Operating Range

- 0°C to 25°C [32°F to 77°F]

### Fixture Certification & Listings

- UL/cUL Listed for damp locations
- Buy American Act Compliant
- EPA Establishment #94844-WI-1

### Rated Life

LEDs see table on Page 2  
 Drivers - 50,000 hours  
 Fans - 50,000 hours

### Warranty

See Orion's [Product Limited Warranty](#) for more details and information



### Performance Information, 120v<sup>2</sup>

Nominal Lumen Code	Actual Lumens	Fan Wattage	LED Wattage	System Wattage	LED Efficacy LPW	CCT	Input Current
2' x 2'							
A1	2,282lm	7w	15w	22w	148	4000K	0.125A
B1	3,200lm	7w	22w	29w	146	4000K	0.183A
C1	4,182lm	7w	29w	36w	144	4000K	0.241A
2' x 4'							
B1	3,334lm	12w	20w	32w	163	4000K	0.167A
C1	4,351lm	12w	27w	39w	163	4000K	0.225A
D1	6,537lm	12w	42w	54w	156	4000K	0.35A

### Lumen Maintenance

Fixture Size	Operating Temperature	Calculated Lumen Maintenance		
		L70	L80	L90
2' x 2'	25°C	189,000	117,000	54,000
2' x 4'	25°C	238,000	149,000	71,000

### Planning Guide for Applications

#### Air Movement Planning Guide 7 ACH\*

Ceiling Height	Room Size sqft	One 2x4 fixture per 150sqft	Number of 2x4 Fixtures Needed	Number of 2x2 Fixtures Needed
10 ft.	120	150	1	2
10 ft.	144	150	1	2
10 ft.	225	150	2	3
10 ft.	300	150	2	4
10 ft.	400	150	3	6
10 ft.	500	150	4	7
10 ft.	600	150	4	8
10 ft.	700	150	5	10
10 ft.	900	150	6	12
10 ft.	1000	150	7	14
10 ft.	1500	150	10	20
10 ft.	2000	150	14	27
10 ft.	3000	150	20	40
10 ft.	4000	150	27	53
10 ft.	5000	150	34	67
10 ft.	6000	150	40	80
10 ft.	7000	150	47	93
10 ft.	8000	150	54	107
10 ft.	9000	150	60	120
10 ft.	10000	150	67	133

CDC and ASHRAE recommend ≥6 \*Air Changes per Hour in healthcare facilities

### Ordering Information Example (NOTE: No dashes or spaces unless noted below)

Series	Model	Fixture Size	Lumen Code	Voltage	Dimming	CRI & CCT	Lens	Housing Color	Mounting	Fixture Options	Sensor Options	Packaging Options
IPML1	A	24	C1	UNV	FD	840	M	WH	CRM	[Blank]	[Blank]	-SP

### Ordering Information

Series	Model	Fixture Size	Lumen Code	Voltage	Dimming	CRI & CCT	Lens	Housing Color	Mounting	Fixture Options	Sensor Options	Packaging Options
<b>IPML1=</b> ISON PureMotion Light, Gen 1	<b>A=</b> Model A	<b>22=</b> 2' x 2' <b>24=</b> 2' x 4'	<b>2' x 2'</b> <b>A1=</b> 2,000lm <b>B1=</b> 3,000lm <b>C1=</b> 4,000lm <b>2' x 4'</b> <b>B1=</b> 3,000lm <b>C1=</b> 4,000lm <b>D1=</b> 6,000lm	<b>UNV=</b> 120v-277v	<b>FD=</b> Factory Wired for Full Dimming	<b>835=</b> 80CRI; 3500K <b>840=</b> 80CRI; 4000K <b>850=</b> 80CRI; 5000K	<b>M=</b> Acrylic Matte	<b>WH=</b> White	<b>CRM=</b> Recessed Mount <b>SFM=</b> Surface Mount <b>SM=</b> Suspended Moun <sup>13</sup>	<b>[blank]=</b> No Options <b>TS=</b> 20kV/ 10kA Surge Protec- tion	<b>[blank]=</b> No Sensor Options	<b>-SP=</b> Single Pack

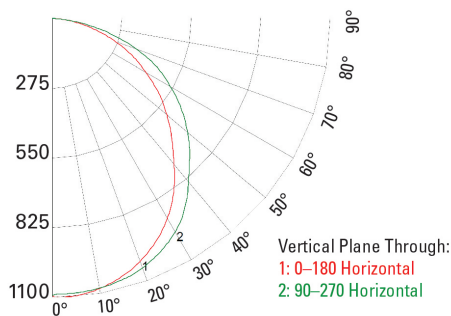
### Physical Information

Nominal Lumen Code	Fixture Size	Length	Width	Depth	Weight
A1/B1/C1	2' x 2'	23.75"	23.75"	4.00"	11-13lbs.
B1/C1/D1	2' x 4'	47.75"	23.75"	4.00"	23-25lbs.

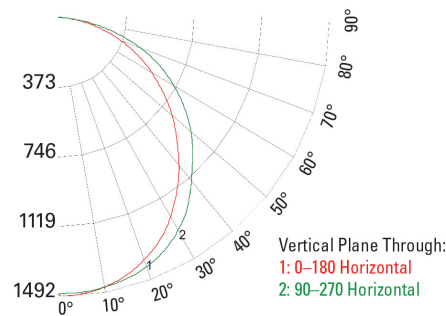
### Photometrics

Visit [orionlighting.com](http://orionlighting.com) to obtain all .IES files

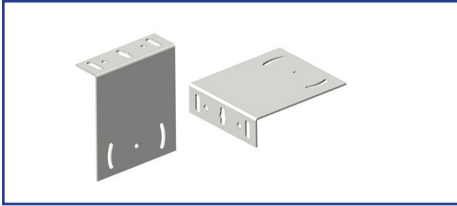
#### B1 840



#### C1 840



Fixture Options (Field Installed)



Surface Mount (SFM)



Suspended Mount (SM)

Additional Specification Information

<sup>1</sup> For actual lumens, see performance table

<sup>2</sup> Actual performance may vary by up to ±10% of values listed; facility factors and fixture options can affect performance values.

<sup>3</sup> Suspended mount kit ships with the HW-FC008