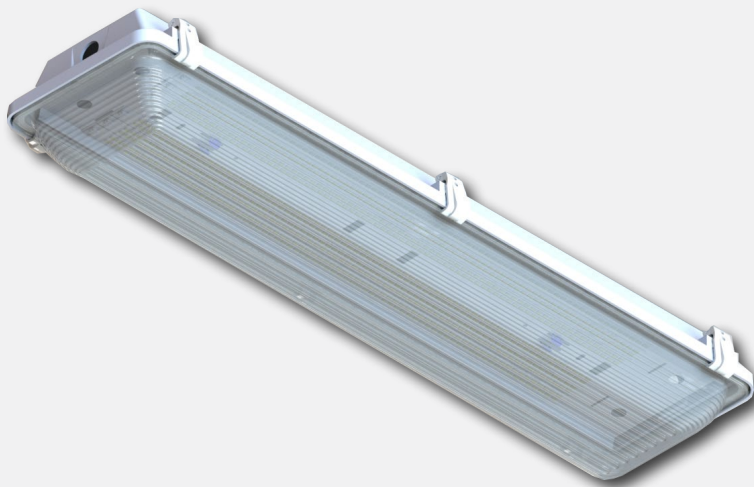


PROJECT NAME		DATE	
CAT. NUMBER			
NOTES			

SPEC SHEET

# Hosedown 2.0 (HD2)

## VAPOR TIGHT LED FIXTURE



### Guaranteed Performance

Performance of the light fixture is guaranteed for 5 years, including lumen output (L70), color temperature, and LED driver.



### IP Rated

IP65, IP66, IP67 and IP69K<sup>21</sup> rated. Meets NSF Splash Zone 2 and NSF/ANSI STD2. Handles high pressure water up to 1500psi.



### Hazardous Location Options

Simultaneous use in: Hazloc Class I, Division 2, Groups A, B, C, D; Class II, Division 2, Groups F, G; Class III.

### KEY FEATURES

- 6,000 to 30,000 lumens
- Up to 168 LPW
- New compact design
- Up to 40°C ambient
- Guaranteed light levels for 5 years
- Dimmable 0-10V (standard)
- 6KV surge protection (10KV optional)

# FEATURES & SPECIFICATIONS

## CONSTRUCTION

- **Housing:** UL 94 5VA fiberglass housing (will not melt or burn). Weatherability (f1) rated. Suitable for outdoor use with respect to exposure to ultraviolet light, water exposure and immersion in accordance with UL 746. Capable of handling high pressure water up to 1500psi.
- **Latches:** Fixtures come standard with plastic latches. Stainless Steel latches available as an option (SSLCH).

## ELECTRICAL

- **Power Input:** 120-277V or 347-480 (50/60Hz), typical, depending on model.
- **Power Factor:** Greater than 0.9 (0.96–0.99 typical).
- **Total Harmonic Distortion:** Less than 20%, 10% typical.
- **Surge Protection:** Standard is 6kV for drivers. Additional surge protection is available. All HV orders will have 10kV SRG automatically added (contact sales for questions).
- **Emergency Battery Backup (EMB):** EMB produces ~2000 lumens for a minimum of 90 minutes. EMB has 16 watts output. EMB fixtures 0°C to 45°C (32°F to 122°F). Not to exceed ambient of fixture.<sup>15</sup>

## OPERATION

- **Environment:** Wet, high pressure hosedown, interior or exterior applications. HazLoc Class I, Division 2 available. Suitable for simultaneous use in: Class I, Division 2, Groups A, B, C, D; Class II, Division 2, Groups F, G; Class III.
- **Ambient Range Operation:** -40°C to 40°C (-40°F to 104°F) for xxK-2N, 18K-2W, 24K-2W and xxK-4N-40°C to 35°C (-40°F to 95°F) for 30K-2W.<sup>1</sup>

## OPTICS

- **CCT:** 3500K<sup>14</sup>, 4000K and 5000K standard, other CCT available (extended lead time).
- **CRI:** 80 standard, other CRI available (extended lead time).
- **Lenses:** UV stabilized acrylic, Clear, Frosted, Clear Ribbed and Frosted Ribbed (depending on model). Polycarbonate lens options available as an option (PC).

## MOUNTING

- **Mounting:** Cable Ready, Surface and Threaded 1/4" Rod mounting options. Surface mounting reduces ambient range by 5°C for HD20S-A1-18K-2W when mounted flush to a surface and reduces 10°C for HD20S-A1-12K-2N, HD20S-A1-12K-4N, HD20S-A1-24K-2W, HD20S-A1-30K-2W. Cable kit sold separately. MBR for 2W body sold separately.

## CONTROLS

- **Dimming:** 0-10V standard. Dimming range 100% to 10%.
- **Occupancy Sensors:** Optional - factory installed microwave sensors for motion and daylight harvesting.
- **UltraLink Bluetooth® Controls:** Advanced wireless controls available. Requires commissioning in the field, contact factory.

## WARRANTY

- **5 Year Performance Warranty:** Performance of the light fixture is guaranteed for 5 years, including lumen maintenance (L70), color temperature, and LED driver. "Defective" is considered if ten percent (10%) or more of the LEDs, per product, are non-operating LEDs, total lumen depreciation exceeds 30% (L70), or color temperature has shifted more than 500° Kelvin within the warranty period. See terms and conditions at <https://linmoreled.com/warranty>

## LISTINGS & CERTIFICATIONS

- ETL listed (UL 1598), CSA 22.2 .
- Suitable for wet location. Covered ceiling not required to maintain wet location listing or IP ratings.
- NSF/ANSI STD2.
- IP65, IP66, IP67 and IP69K rated.
- Rated and certified to meet NSF Splash Zone 2.
- NEMA 4X rated.
- IK07 rated.
- EMI: Title 47 CFR 15 Class A, ICES-005.
- RoHS compliant.
- LM-79, LM 80 and TM-21 tests and reports are performed in accordance to IESNA standards, per TM-21.
- DesignLights™ Consortium Listed<sup>14</sup>.



# TECHNICAL SPECS

HOUSING	LUMEN OUTPUT <sup>2</sup>	EFFICACY	WATTS	PART NUMBER	AVAILABLE LENSES
<b>2N</b> 2' Narrow	5,882	142	42	HD20S-A1-06K-2N-xx-xx-BC	Clear (CL), Clear Ribbed (BC), Frosted (FR), Frosted Ribbed (BF)
	12,065	158	76	HD20S-A1-12K-2N-xx-xx-BC	
<b>4N</b> 4' Narrow	6,021	149	40	HD20S-A1-06K-4N-xx-xx-CL	Clear (CL), Clear Ribbed (BC), Frosted (FR), Frosted Ribbed (BF)
	12,112	147	83	HD20S-A1-12K-4N-xx-xx-CL	
	24,419	168	146	HD20S-A1-24K-4N-xx-xx-CL	
<b>2W</b> 2' Wide	18,275	163	112	HD20S-A1-18K-2W-xx-xx-CL	Clear (CL), Frosted (FR)
	24,355	163	149	HD20S-A1-24K-2W-xx-xx-CL	
	30,782	163	189	HD20S-A1-30K-2W-xx-xx-CL	

<sup>2</sup> Typical (±10%) at 277V (LV), 25°C, 4000K/5000K, Clear Lens, CRI 80+. Lumen Multipliers: 3500K = 0.93; Frosted Lens = 0.98; Clear Ribbed Lens (BC) = 0.95; Frosted Ribbed Lens (BF) = 0.94

## Lumen Multipliers

Allows to calculate the actual lumen output for your application.

LUMENS VS AMBIENT TEMP			COLOR TEMP <sup>2</sup>		COLOR RENDERING		LIGHT DISTRIBUTION	
C°	F°	Multiplier	CCT	Multiplier	CRI	Multiplier	Lens	Multiplier
35	95	0.99	5000	1.000	80	1.000	CL	1.000
40	104	0.98	4000	1.000			FR	0.980
			3500	0.930			BC	0.950
							BF	0.940

**Example:** How to calculate the actual lumen output of the model 12K at these conditions: 40°C ambient temp, 3500K, CRI80, Frosted Lens.

$$\begin{array}{ccccccccccc}
 12,112 & \times & 0.98 & \times & 0.93 & \times & 1.000 & \times & 0.980 & = & 10,818 \\
 \text{Lumens} & & \text{Temp.} & & \text{CCT} & & \text{CRI} & & \text{Lens} & & \text{Actual lumens}
 \end{array}$$

## LUMEN MAINTENANCE

All fixtures come with our Standard Warranty, covering **L70 light levels for 5 years**. That's 43,800 hours of guaranteed life based on a 24/7 operation.



Ambient Temp.		Lumen Maintenance in Hours			Lumen Maintenance Factor			Reported Life (6X)	
C°	F°	L90	L80	L70	50Khrs	75Khrs	100Khrs	Tested Time	Extrapolated
25	77	73K	149K	235K	93	90	86	9,000 hrs	> 54,000 hrs
30	86	69K	141K	222K	93	89	86	LEDs tested for 13,000 hrs based on LM-80.	
35	95	65K	133K	210K	92	88	85	Extrapolating as per TM-21: 13,000 hrs x 6 = 78,000 hrs of reported life.	
40	104	61K	126K	199K	92	88	84		

All values calculated in accordance to IESNA standards, per TM-21.LM-79, LM 80 tests and reports are performed in accordance to IESNA standards, per TM-21. Lumen maintenance in hours (L70 via TM-21) based on 24/7 operation.

# ORDERING

SERIES MODEL - COMPLIANCE - LUMENS - SIZE	COLOR TEMP	CRI	LENS	VOLTAGE	MOUNTING
HD20S-A1-06K-2N <sup>13,14</sup>	35 <sup>14</sup> 3500K	80 80+ CRI (Standard)	CL Clear lens	LV 120-277V	<b>Narrow Body Housing, 2N and 4N Only</b>
HD20S-A1-06K-4N <sup>14</sup>	40 4000K	Other CRI available upon request <sup>7</sup>	FR Frosted lens	HV <sup>17</sup> 347-480V	MLT <sup>3,5,9</sup> Multi Mount Bracket is stainless steel and includes hangers and ability to flush mount, cable mount or accept threaded 1/4" rod. 2N and 4N only.
HD20S-A1-12K-2N <sup>13,14</sup>	50 5000K		BC <sup>9</sup> Clear Ribbed Lens, 2N and 4N housings only		<b>Wide Body Housing 2W Only</b>
HD20S-A1-12K-4N <sup>14</sup>	Other CCT available upon request		BF <sup>9</sup> Frosted Ribbed Lens, 2N and 4N housings only		CRM <sup>5,10</sup> Cable-ready (standard) 2W only
HD20S-A1-24K-4N <sup>14</sup>					Other mounting options available. Please see Accessories.
HD20S-A1-18K-2W <sup>14</sup>					
HD20S-A1-24K-2W					
HD20S-A1-30K-2W <sup>15</sup>					

BLUETOOTH® CONTROLS <sup>4,15,18,19,20</sup>	CORD & PLUG – NO CORD/PLUG (STANDARD) <sup>4,8</sup>	OPTIONS <sup>4</sup>	DIMMING
<b>ULTRALINK</b>			
<b>ULTRA</b> Linmore UltraLink Bluetooth mesh Controls installed	<b>6' 18AWG cord with the following</b>  CW <sup>4,7</sup> Cord, 15A, no plug	<b>6', 10' or 15' 18AWG food-grade cord with the following</b>  CWF <sup>4,7</sup> Food Grade, yellow cord, 15A, no plug	<b>EMB<sup>14,6,8,15</sup></b> Emergency battery back-up. LV only.
<b>ULTRAMW</b> Linmore UltraLink Bluetooth mesh Controls installed with microwave sensor	<b>15' 18AWG CORD WITH THE FOLLOWING</b>  15CW <sup>4,7</sup> Cord, 15A, no plug	<b>10CWF<sup>4,7</sup></b> Food Grade, yellow cord, 15A, no plug	<b>QDC<sup>4</sup></b> Driver Quick Disconnect
<b>ULTRAHGA</b> Linmore UltraLink Bluetooth mesh Controls installed with High-Gain antenna	<b>15DW<sup>4,7</sup></b> Dimming cord, 15A, 5-wire, no plug	<b>15CWF<sup>4,7</sup></b> Food Grade, yellow cord, 15A, no plug	<b>SRG<sup>4</sup></b> Fixture installed Surge Protector, 10kA
Contact factory. UltraLink requires commissioning in the field via iOS app.	<b>15CL515<sup>4,7</sup></b> Cord, 15A, locking plug 120V (L5-15P)	<b>15EWF<sup>4,7</sup></b> Food Grade, yellow cord, 15A, 4 wire for EMB, no plug	<b>WPSLV<sup>4</sup></b> Waterproof sleeve
<b>OCCUPANCY SENSORS – NO OCC SENSOR (STANDARD)</b>	<b>15CL715<sup>4,7</sup></b> Cord, 15A, locking plug 277V (L7-15P)	<b>15CL715F<sup>4,7</sup></b> Food Grade, yellow cord, 15A, locking plug 277V (L7-15P)	<b>WPPLG<sup>4,12</sup></b> Waterproof plug end for cords. Plug option selected is waterproof.
<b>MWOCC<sup>4,13,15,16</sup></b> Microwave Occupancy Sensor, with photocell, 10-20' mounting height	<b>15CL720<sup>4,7</sup></b> Cord, 20A, locking plug 277V (L7-20P)	<b>15CL720F<sup>4,7</sup></b> Food Grade, yellow cord, 20A, locking plug	<b>LNT<sup>4,10</sup></b> Lens Tether
HV units with MWOCC have a High Voltage Transformer installed. HV sensors only available on 4N and 2W housings. Units are set to 75% sensitivity, 10-minute delay from the factory.	<b>15CL2420<sup>4,7</sup></b> Cord, 20A, locking plug 347V (L24-20P)	Other cord options available, contact factory	<b>SSLCH<sup>4</sup></b> Stainless steel latches, priced per chassis
<b>EZ10MW<sup>13,15,16</sup></b> Microwave Occupancy and Daylight Sensor with EZ-Connect Adapter (EZ10), On/Off/Dim, 40' Max Mounting Height, IP65. Factory installed. Sensor can be re-programmed with remote SEN-PROG (sold separately, see Accessories).	<b>15CL820<sup>4,7</sup></b> Cord, 20A, locking plug 480V (L8-20P)		<b>HZLOC<sup>15,16</sup></b> C1D2 and C2D2
			<b>PC</b> Chosen Lens made from Polycarbonate
			<b>CTRLR<sup>4,6,15</sup></b> Control Ready 5-wire harness (factory installed)

## ORDERING EXAMPLES

**Standard:** HD20S-A1-12K-2N-50-80-BF-LV-MLT-10V

**With Options:** HD20S-A1-12K-2N-50-80-BF-LV-MLT-MWOCC-15CL715-WPPLG-SSLCH-10V

# ACCESSORIES

Must be ordered separately. Packaged separately.

## FIXTURE ACCESSORIES

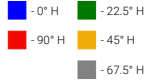
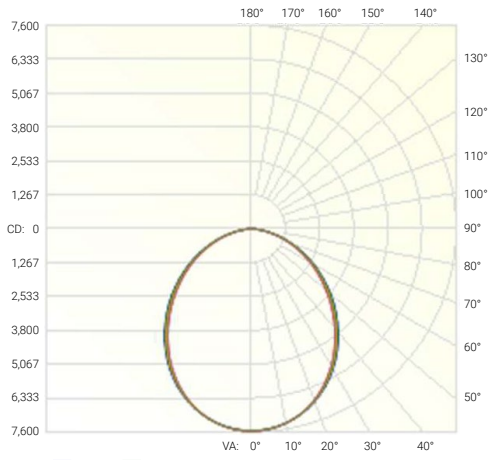
Part Number	Type	Description
<b>FM2WSS</b>	Flush Mount Bracket (2W only) <sup>10</sup>	Flush Mounting Bracket (2W only), stainless steel.
<b>VHOOK2WSS</b>	Hanger (2W only) <sup>10</sup>	V Hanger (2W only). Includes two stainless steel V hangers. Order fixture with CRM mounting option.
<b>PENDSS</b>	Rigid Pendant Mount (2W only) <sup>10</sup>	Rigid Pendant Mount (2W only). Rigid Mounting Bracket for pendant mount. Consists of two brackets. One PENDSS needed per fixture for mounting.
<b>45M</b>	45° Angle Mount (2N, 4N only)	45 Degree Mounting Bracket, 1 Pair (2N and 4N only).
<b>CABLEKIT</b>	Cable Kit	Gripple Cable Kit. Includes two, 10ft. aircraft "Y" cables and snap hooks (one pair).
<b>CABLEKIT2P</b>	Cable Kit 2P <sup>9</sup>	Kit includes two, 10ft. aircraft straight cables. For use with 2N and 4N fixtures only. Can be used with 2W, provided V Hangers are also purchased (sold separately).
<b>CABLEKITSS</b>	Stainless Steel Cable Kit	Kit includes two, 10ft. aircraft "Y" stainless steel cables and snap hooks (one pair).
<b>CABLEKIT2PSS</b>	Stainless Steel Cable Kit 2P <sup>9</sup>	Kit includes two, 10ft. aircraft stainless steel straight cables. For use with 2N and 4N only. Can be used with 2W, provided V Hangers are also purchased (sold separately).
<b>PLATESS</b>	Stainless Steel Plate Mount	Includes stainless steel plate and 4 stainless steel cables for stem mounting.
	Power Supply Replacement	Power supply replacement available upon request. Contact factory for details.

## LIGHTING CONTROLS<sup>4,18,19,20</sup>

Part Number	Type	Description
<b>ULTRAGATEWAY</b>	UltraLink Bluetooth® Gateway	Optional wireless gateway for use with UltraLink. Needed for energy monitoring, scheduling, astronomical clock and heat mapping.
<b>ULTRASR</b>	UltraLink Bluetooth® Switch	Bluetooth Wireless, self-powered Dimming Wall Switch, Single Rocker, On/Off/Dim, for use with UltraLink
<b>ULTRADR</b>	UltraLink Bluetooth® Switch	Bluetooth Wireless, self-powered Dimming Wall Switch, Double Rocker, On/Off/Dim/ Scenes, for use with UltraLink
<b>ULTRAAC</b>	UltraLink Bluetooth® Service	UltraLink Factory Activation, Zone Identification on Packaging. For use with all Bluetooth Ready Fixtures / Systems
<b>ULTRADESIGN</b>	UltraLink Bluetooth® Service	UltraLink System Design Services
<b>ULTRADASH</b>	UltraLink Bluetooth® Service	Dashboards for Energy, Occupancy Heat Mapping, and Energy Heat Mapping. Gateway (ULTRAGATEWAY) required, Sold Separately
<b>ULTRATIME</b>	UltraLink Bluetooth® Accessory	Battery Backup Bluetooth Node, includes outdoor rated enclosure and long range antenna. For use to keep time during a power outage and for in node scheduling
<b>SEN-PROG</b>	Remote Programmer	Infrared Remote Programmer for Occupancy Sensors. Required to change default settings, modes of operation, and detection sensitivity for all EZ10 / EZ35 / EZ40 basic sensors, LOCCDIM12, LOCCDIM40, and AH1-SEN-PIR-SK. Only required for EZ10 / EZ35 / EZ40 UltraLink sensors and ULTRAPIR40-AH1 to change detection sensitivity. Batteries not included, requires 2 x AAA 1.5V batteries.

## FROSTED

Polar Graph



### Zonal Lumen Summary

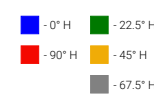
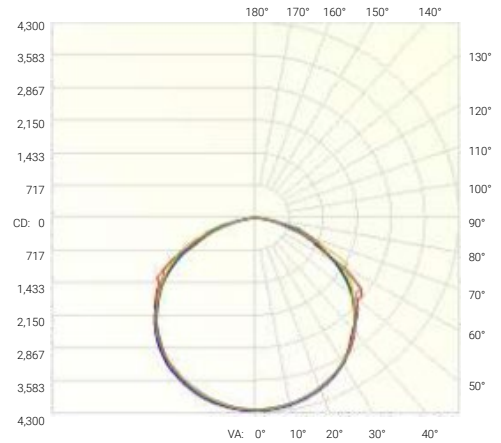
HD20S-Ax-24K-4N-40-80-FR-LV-[xxx]-10V

Zone	Lumens	% Lamp	% Fixt.
0-30	6141.7	25.9	25.9
0-40	10089.0	42.5	42.5
0-60	17862.4	75.3	75.3
60-90	5374.1	22.7	22.7
0-90	23236.5	98.0	98.0
90-180	482.7	2.0	2.0
0-180	23719.2	100.0	100.0

Total luminaire efficiency = 100.00%

## CLEAR RIBBED

Polar Graph



### Zonal Lumen Summary

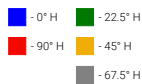
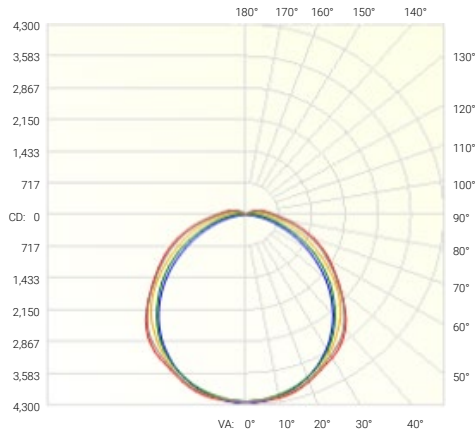
HD20S-Ax-12K-4N-40-80-BC-LV-[xxx]-10V

Zone	Lumens	% Lamp	% Fixt.
0-30	2609.5	23.6	23.6
0-40	4407.7	39.9	39.9
0-60	8123.0	73.4	73.4
60-90	2463.8	22.3	22.3
0-90	10586.8	95.7	95.7
90-180	472.7	4.3	4.3
0-180	11059.5	100.0	100.0

Total luminaire efficiency = 100.00%

## CLEAR

Polar Graph



### Zonal Lumen Summary

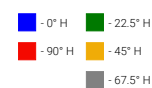
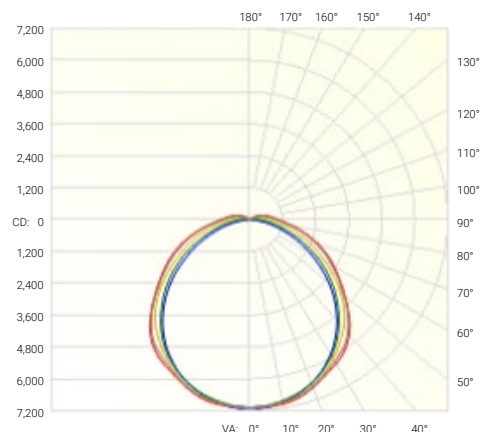
HD20S-Ax-12K-4N-40-80-CL-LV-[xxx]-10V

Zone	Lumens	% Lamp	% Fixt.
0-30	3329.8	26.5	26.5
0-40	5506.1	43.9	43.9
0-60	9973.5	79.4	79.4
60-90	2554.7	20.3	20.3
0-90	12528.2	99.8	99.8
90-180	27.8	0.2	0.2
0-180	12556.0	100.0	100.0

Total luminaire efficiency = 100.00%

## FROSTED RIBBED

Polar Graph



### Zonal Lumen Summary

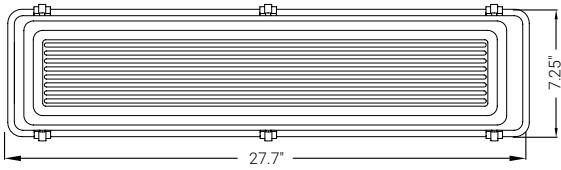
HD20S-Ax-24K-4N-40-80-BF-LV-[xxx]-10V

Zone	Lumens	% Lamp	% Fixt.
0-30	5532.1	24.5	24.5
0-40	9098.1	40.2	40.2
0-60	16066.4	71.0	71.0
60-90	5376.3	23.8	23.8
0-90	21442.8	94.8	94.8
90-180	1180.1	5.2	5.2
0-180	22622.8	100.0	100.0

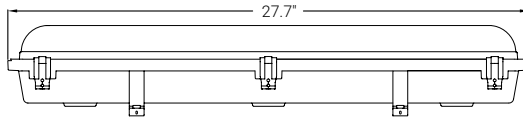
Total luminaire efficiency = 100.00%

# DIMENSIONS & DRAWINGS

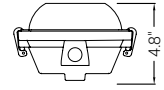
## 2N



TOP VIEW

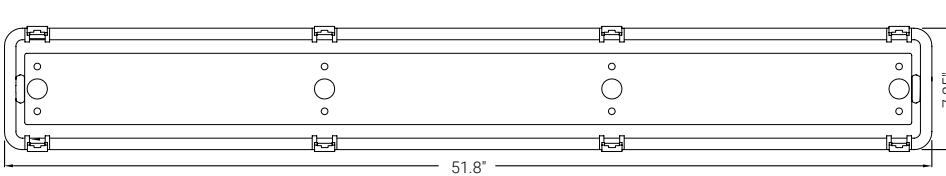


SIDE VIEW - FROSTED

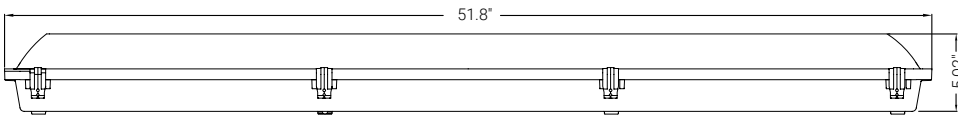


END VIEW - FROSTED

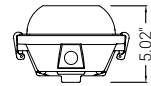
## 4N



TOP VIEW

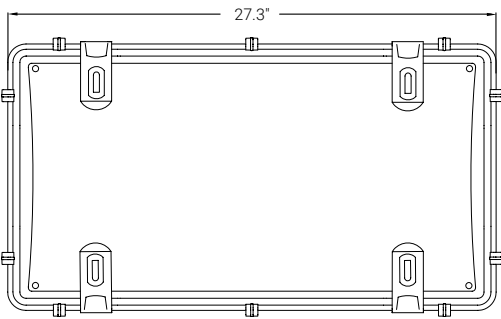


SIDE VIEW - FROSTED

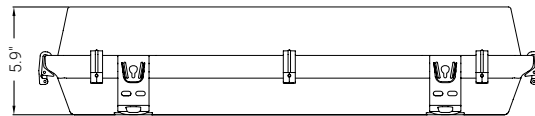


END VIEW - FROSTED

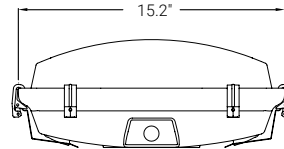
## 2W



TOP VIEW



SIDE VIEW



END VIEW

### DIMENSIONS

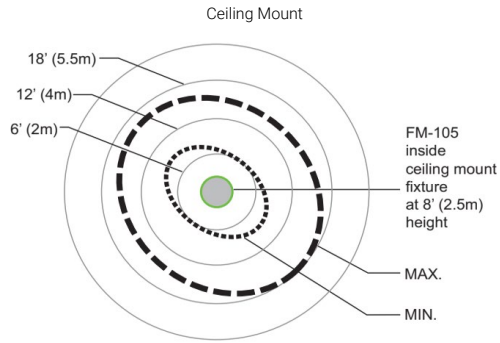
Size	Length (in)	Width (in)	Height (in)	Weight (lb)
2N	27.7	7.25	4.8	~9
4N	51.8	7.25	5.02	~14
2W	27.3	15.2	5.9	~17

Weights are approximate and vary by model, if weight is a concern, please contact factory.

# OCCUPANCY SENSORS

## WATTSTOPPER

### MWOCC



# FOOTNOTES

1. EMB fixture operating temperature is 32°F to 122°F (0°C to 45°C). Not to exceed Max Ambient of fixture. Limited switch cycles under -20°C. Paired with any sensor, fixture must remain on at least at a minimum dim level of 10%.
2. Typical ( $\pm 10\%$ ) at 277V (LV), 25°C, 4000K/5000K, Clear Lens, CRI 80+. Lumen Multipliers: 3500K = 0.93 ; Frosted Lens = 0.98 ; Clear Ribbed Lens (BC) = 0.95 ; Frosted Ribbed Lens (BF) = 0.94
3. Threaded rod and/or cables not included. Optional CABLEKIT2P available.
4. Optional add-on. See price list for pricing.
5. Optional CABLEKIT ordered separately. See ACCESSORIES.
6. 120-277V only.
7. All cords are 18/3 AWG and 600V. Food Grade Cords 18/3 AWG (18/4 for 15EWF), SEOW/SOOW, 600V and yellow. Food grade cords have waterproof plugs.
8. Consult factory for orders requiring EMB. 12K and 6K lumen version only available in 4N chassis.
9. 2N and 4N housing only.
10. 2W housing only.
11. Dimensions listed are for the fixture only. See dimensional drawings for measurements with mounting hardware. Weights are approximate and vary by model, if weight is a concern, please contact factory. Weight changes when battery backup is added.
12. WPPLG not available for L-820 configuration.
13. High Voltage (347-480V) applications using sensors will utilize a High Voltage Step Down Transformer (HVT). The transformer and LV drivers allow optional sensor use in HV (347-480V) applications. Increases wattage ~8%. Units using the HVT are not DLC listed. When used with 24K-2W and 30K-2W, max ambient is 35°C (95°F). The sensor will be set from the factory at 75% sensitivity and a 10-minute delay. Not available on 2N frame.
14. Fixtures not DLC listed:
  - All 3500K CCT models and fixtures below:  
HD20S-A1-06K-xx-xx-xx-xx-[xxx]-10V  
HD20S-A1-12K-2N-40-80-BF-[xxx]-10V  
HD20S-A1-12K-4N-40-80-BC-[xxx]-10V  
HD20S-A1-12K-4N-40-80-CL-[xxx]-10V  
HD20S-A1-12K-4N-50-80-BC-[xxx]-10V  
HD20S-A1-12K-4N-50-80-CL-[xxx]-10V  
HD20S-A1-12K-4N-50-80-FR-[xxx]-10V  
HD20S-A1-18K-2W-40-80-CL-[xxx]-10V  
HD20S-A1-18K-2W-40-80-FR-[xxx]-10V  
HD20S-A1-18K-2W-50-80-CL-[xxx]-10V  
HD20S-A1-18K-2W-50-80-FR-[xxx]-10V  
HD20S-A1-24K-4N-40-80-BF-[xxx]-10V
15. EMB not available on HD20S-A1-30K-2W and 2N models. EMB and/or lighting controls not available with HZLOC.
16. C1D2 and C2D2 ratings as follows:  
Class I, Division 2, Groups A, B, C, D  
Class II, Division 2, Groups F, G; Class III  
T5, -25°C to 40°C (-13°F to 104°F) for 18K-2W, xxK-2N and xxK-4N  
T5, -25°C to 35°C (-13°F to 95°F) for 24K-2W and 30K-2W.  
EMB and/or lighting controls not available with C1D2 or C2D2.
17. SRG (10kA protection) is standard option on all HV fixtures.
18. Extended lead time.
19. UltraLink controls require commissioning in the field via its iOS app, contact factory.
20. When using UltraLink, drivers are 0-10V dimming, DIM to OFF via the Aux output. Without controls, the fixture is 0-10V dimming only.
21. IP69K rating only for 2W housing with stainless steel latches (SSLCH option).

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