HOSEDOWN SERIES 2.0

Vapor Tight LED Fixtures

Project Name	
Date	
Cat. Number	
Type	

The improved Hosedown Series features LED low bay and high bay fixtures for use in demanding environments requiring vapor tight seals.

Each model includes an injection molded fiberglass body with a sturdy lens to withstand environments where extreme dust and moisture are factors. IP65, IP66, IP67 and IP69K rated and certified to meet NSF Splash Zone 2 and NSF/ANSI STD2.

APPLICATIONS: Food/beverage processing, cold storage warehouses, garden centers, and industrial facilities.

5 YEAR LUMEN MAINTENANCE WARRANTY

Housing	Lumen Output [2]	Efficacy	Watts	Part Number	Available Lenses
2N 2' Narrow	5882	142	42	HD20S-A1-06K-2N-xx-xx-BC	Clear, Frosted, Clear Ribbed, Frosted Ribbed
	12065	158	76	HD20S-A1-12K-2N-xx-xx-BC	
4N 4' Narrow	6021	149	40	HD20S-A1-06K-4N-xx-xx-CL	Clear, Frosted, Clear Ribbed, Frosted Ribbed
	12112	147	83	HD20S-A1-12K-4N-xx-xx-CL	
	24419	168	146	HD20S-A1-24K-4N-xx-xx-CL	
2W 2' Wide	18275	163	112	HD20S-A1-18K-2W-xx-xx-CL	Clear, Frosted
	24355	163	149	HD20S-A1-24K-2W-xx-xx-CL	
	30782	163	189	HD20S-A1-30K-2W-xx-xx-CL	

[2] 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

FEATURES & SPECIFICATIONS

- **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.

- **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).

- **Mounting:** Cable ready, Surface and Threaded 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.

- **LED:** 3500K[14], 4000K and 5000K standard, other CCT available.

- **Lenses:** UV stabilized acrylic, Clear, Frosted, Clear Ribbed and Frosted Ribbed (depending on model). Polycarbonate lens options available as an option (PC).

- **Warranty:** 5-year standard. Up to 10-year optional.

POWER & CONTROL

- **Power Input:** 120-277V or 347-480V (50/60Hz), typical, depending on model.

- **Dimming:** 0-10V standard. Capable of dimming down to 10%.

- **Power Factor:** Greater than 0.9 (0.96–0.99 typical).

- **Occupancy Sensors:** Optional - factory installed microwave sensors for motion and daylight harvesting.

- **Emergency Battery Backup:** Initial lumen output is 2200-2400 lumens, thereafer EMB produces 1900-2000 lumens for a minimum of 90 minutes. 16 watts initial output. EMB fixtures 0°C to 45°C (32°F to 122°F). Not to exceed ambient of fixture.[15]

ORDERING EXAMPLE

Base Fixture: HD20S-A1-12K-2N-50-80-BF-LV-MLT-10V

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

DLC Number: HD20S-A1-12K-2N-50-80-BF-LV-(xxx)-10V

SELECT ONE		SELECT ONE	SELECT ONE	SELECT ONE	SELECT ONE
Series-Compliance-Model		**Color Temp[4]**	**CRI**	**Lens**	**Voltage**
HD20S-A1-06K-2N[13]	HD20S-A1-18K-2W	**35**[14] 3500K	**80** (Standard)	**CL** Clear Lens, 4N and 2W housings only	**LV** 120-277V
HD20S-A1-06K-4N	HD20S-A1-24K-2W	**40** 4000K	Other CRI available upon request[7]	**FR** Frosted Lens, 4N and 2W housings only	**HV**[18] 347-480V
HD20S-A1-12K-2N[13]	HD20S-A1-30K-2W[15]	**50** 5000K		**BC**[9] Clear Ribbed Lens, 2N and 4N housings only	
HD20S-A1-12K-4N		Other CCT available upon request		**BF**[9] Frosted Ribbed Lens, 2N and 4N housings only	
HD20S-A1-24K-4N					

SELECT ONE	SELECT ONE IF APPLICABLE, IF NONE, LEAVE BLANK AND MOVE TO CORD & PLUG	SELECT ONE IF APPLICABLE, IF NONE, LEAVE BLANK, MOVE TO OPTION		SELECT AS MANY AS APPLICABLE, SEPARATE EACH WITH "-". IF NONE, LEAVE BLANK, MOVE TO DIMMING	10V
Mounting	**Occupancy Sensors – No OCC sensor (Standard)**	**Cord & Plug – No cord/plug (Standard)**[4,8]		**Option**[4]	**Dimming**
Narrow Body Housing, 2N and 4N only	**MWOCC**[4,13,16,18] Microwave OCC Sensor, with photocell, 10-20' mounting height	**6' 18AWG CORD, WHITE WITH THE FOLLOWING-**	**6', 10' OR 15' 18AWG FOOD GRADE CORD, YELLOW, WITH THE FOLLOWING-**	**EMB**[1,4,8,15] Emergency battery back-up. LV Only.	**10V** 0–10V Interface (Standard)
MLT[3,5,9] Multi Mount Bracket is stainless steel and Includes hangers and ability to flush mount, cable mount or accept threaded rod. 2N and 4N ONLY.	**DOCC**[4,13,16,18] High Frequency Doppler Occ Sensor, with ambient light sensing, 10-30' mounting height	**CW**[4,7] Cord, 15A, no plug	**CWF**[4,7] Food Grade, yellow cord, 15A, no plug	**QDC**[4] Driver Quick Disconnect	
	HV units with MWOCC and DOCC have a High Voltage Transformer installed. HV sensors only available on 4N and 2W housings.	**15' 18AWG CORD, WHITE WITH THE FOLLOWING-**	**10CWF**[4,7] Food Grade, yellow cord, 15A, no plug	**SRG**[4] Fixture installed Surge Protector, 10kA	
		15CW[4,7] Cord, 15A, no plug	**15CWF**[4,7] Food Grade, yellow cord, 15A, no plug	**WPSLV**[4] Waterproof sleeve	
		15DW[4,7] Dimming cord, 15A, 5-wire, no plug	**15EWF**[4,7] Food Grade, yellow cord, 15A, 4 wire for EMB, no plug	**WPPLG**[4,12] Waterproof plug end for cords. Plug option selected is waterproof.	
Wide Body Housing 2W Only		**15CL515**[4,7] Cord, 15A, locking plug 120V (L5–15P)		**LNT**[4,10] Lens Tether	
CRM[5,10] Cable-ready (standard) 2W Only		**15CL715**[4,7] Cord, 15A, locking plug 277V (L7–15P)	**15CL715F**[4,7] Food Grade, yellow cord, 15A, locking plug 277V (L7–15P)	**SSLCH**[4] Stainless steel latches	
		15CL720[4,7] Cord, 20A, locking plug 277V (L7–20P)	**15CL720F**[4,7] Food Grade, yellow cord, 20A, locking plug	**HZLOC**[15,16] C1D2 and C2D2	
Other mounting options available. Please see Accessories.		**15CL2420**[4,7] Cord, 20A, locking plug 347V (L24–20P)		**PC** Chosen Lens made from Polycarbonate	
		15CL820[4,7] Cord, 20A, locking plug 480V (L8–20P)	Other cord options available, contact factory	**CTRLR**[4,6,15] Control Ready 5-wire harness (factory installed)	
				CTRL[4,6,15,17,18] Fixture installed EnOcean Control module. 120-277V Wire-in Relay, 16A, 0-10V. HV units with CTRL will have a High Voltage Transformer installed.	

When submitting for utility incentives and rebates, please use catalog numbers

When ordering OPTIONS, separate each option with a "-". Catalog number always ends with dimming selection "10V"

ACCESSORIES

Must be ordered separately. Packaged separately.

Type	Part Number	Description
Flush Mount Bracket (2W only) [10]	FM2WSS	Flush mounting bracket for 2W body only, stainless steel
Hanger (2W only) [10]	VHOOK2WSS	2W body only. Kit includes two stainless steel V hangers. Order fixture with CRM mounting option.
Rigid Pendant Mount (2W only) [10]	PENDSS	Rigid mounting bracket for 2W body style only. Allows for pendant mount. Qty 2 each.
45 Degree Angle Mount (2N, 4N only)	45M	45 Degree Mounting Bracket, 1 Pair (2N and 4N housings only)
Cable Kit	CABLEKIT	Kit includes two, 10ft. aircraft "Y" cables and snap hooks (one pair).
Cable Kit 2P [9]	CABLEKIT2P	Kit includes two, 10ft. aircraft straight cables. For use with Narrow Body fixtures only, 2N and 4N. Can be used with wide body, provided V Hangers are also purchased (sold separately).
Stainless Steel Cable Kit	CABLEKITSS	Kit includes two, 10ft. aircraft "Y" cables and snap hooks (one pair). Stainless Steel.
Stainless Steel Cable Kit 2P [9]	CABLEKIT2PSS	Kit includes two, 10ft. aircraft straight cables. For use with Narrow Body fixtures only, 2N and 4N. Can be used with wide body, provided V Hangers are also purchased (sold separately). Stainless Steel.
Stainless Steel Plate Mount	PLATESS	Includes stainless steel plate and 4 stainless steel cables for stem mounting.
Replacement Power Supply		Contact factory for details.
EnOcean Controls (for use with EnOcean control module, CTRL)		
Single Rocker	ENSR	EnOcean Control Single Rocker
Double Rocker	ENDR	EnOcean Control Double Rocker
Wall Occupancy Sensor	ENWLOCC	EnOcean Control Wall OCC
Ceiling Occupancy Sensor	ENCLOCC	EnOcean Control Ceiling OCC
Ceiling Daylight Sensor	ENDAY	EnOcean Control Daylight Sensor
Software	ENSFT	EnOcean Control Navigan Commissioning Software

END NOTES

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. We recommend not turning units off if used in continual -20°C to -40°C environment, dim to 10% if needed.

2. 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

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, 600V, and white. 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 Step Down Transformer (HVT) utilizes the transformer and LV drivers to 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. 3500K is not DLC listed.

15. EMB not available on HD20S-A1-30K-2W and 2N models. EMB, CTRL, CTRLR not available with C1D2.

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. MWOCC and DOCC not available with C1D2

17. CTRL additional accessories required for full functionality. See ACCESSORIES for available add-on options.

18. SRG (10kA protection) is standard option on all HV fixtures.

PROJECTED LUMEN MAINTENANCE

TM-21 from initial lumens (based on 24/7 operation)

HD20S-A1-06K-2N / HD20S-A1-06K-4N

Ambient	Year 1	Year 5	Year 10	L70 (calculated)
25°C	99.91%	95.48%	90.44%	295,000 hours
40°C	99.50%	94.49%	88.57%	247,000 hours

HD20S-A1-12K-2N

Ambient	Year 1	Year 5	Year 10	L70 (calculated)
25°C	99.55%	97.70%	88.98%	256,000 hours
40°C	99.24%	93.57%	86.93%	216,000 hours

HD20S-A1-12K-4N / HD20S-A1-24K-4N

Ambient	Year 1	Year 5	Year 10	L70 (calculated)
25°C	99.44%	94.16%	87.97%	235,000 hours
40°C	99.11%	92.96%	85.80%	194,000 hours

HD20S-A1-18K-2W / HD20S-A1-24K-2W

Ambient	Year 1	Year 5	Year 10	L70 (calculated)
25°C	99.44%	94.16%	87.97%	235,000 hours
40°C	99.03%	92.56%	85.07%	189,000 hours

HD20S-A1-30K-2W

Ambient	Year 1	Year 5	Year 10	L70 (calculated)
25°C	99.63%	95.09%	89.07%	274,000 hours
35°C	99.49%	94.41%	88.42%	274,000 hours

LUMEN AMBIENT TEMPERATURE FACTOR

Ambient Temp.	35°C	40°C	45°C
Lumen Multiplier	0.99	0.98	0.98

LISTINGS & CERTIFICATIONS

- ETL listed (UL 1598), CSA 22.2
- DesignLights™ Consortium (DLC) Premium Listed
- 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 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

AMBIENT RANGE OPERATION[1]

-40°C to 40°C (-13°F to 104°F) for xxK-2N, 18K-2W, 24K-2W and xxK-4N
-40°C to 35°C (-13°F to 95°F) for 30K-2W

Surface mounting reduces ambient range by 5°C for HD20S-A1-18K-2W and by 10°C for HD20S-A1-12K-2N, HD20S-A1-12K-4N, HD20S-A1-24K-2W, HD20S-A1-30K-2W.

HAZARDOUS LOCATION

Class I, Division 2, Groups A, B, C, D
Class II, Division 2, Groups F, G; Class III

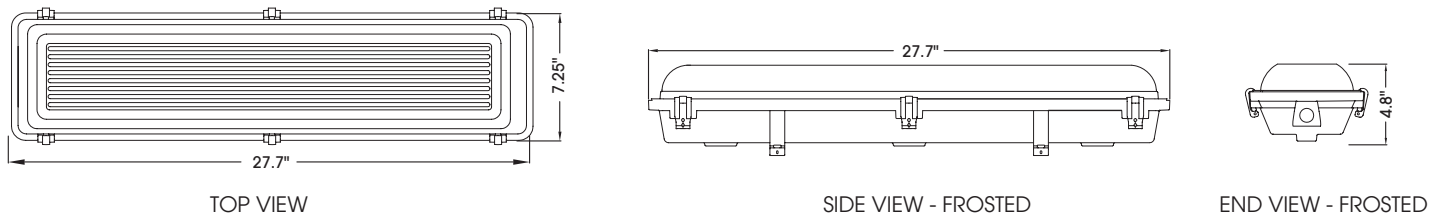T5, -25°C to 40°C (-13°F to 104°F) for 18K-2W, xxK-2N and xxK-4N

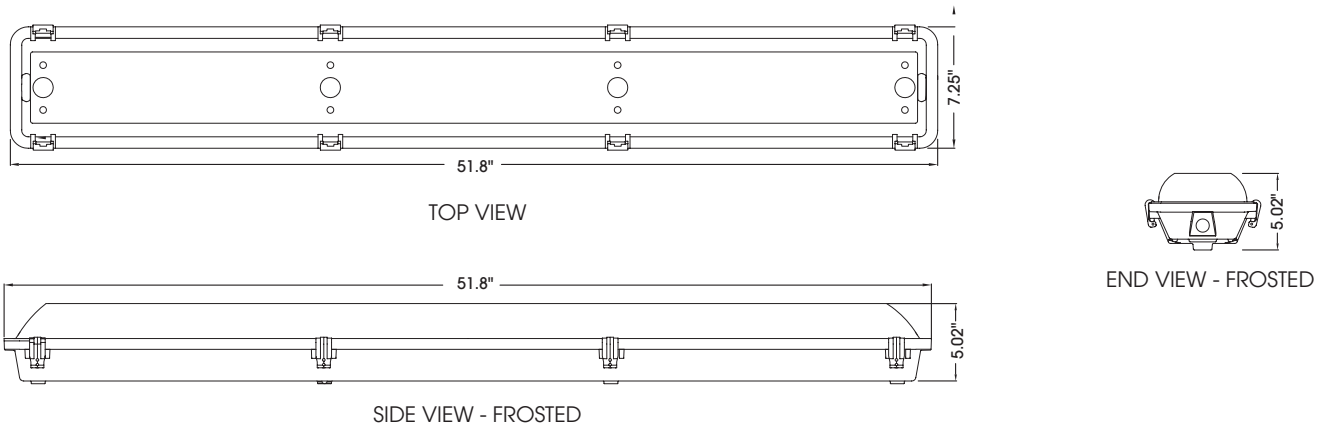T5, -25°C to 35°C (-13°F to 95°F) for 24K-2W and 30K-2W

DIMENSIONS & DRAWINGS

Model	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

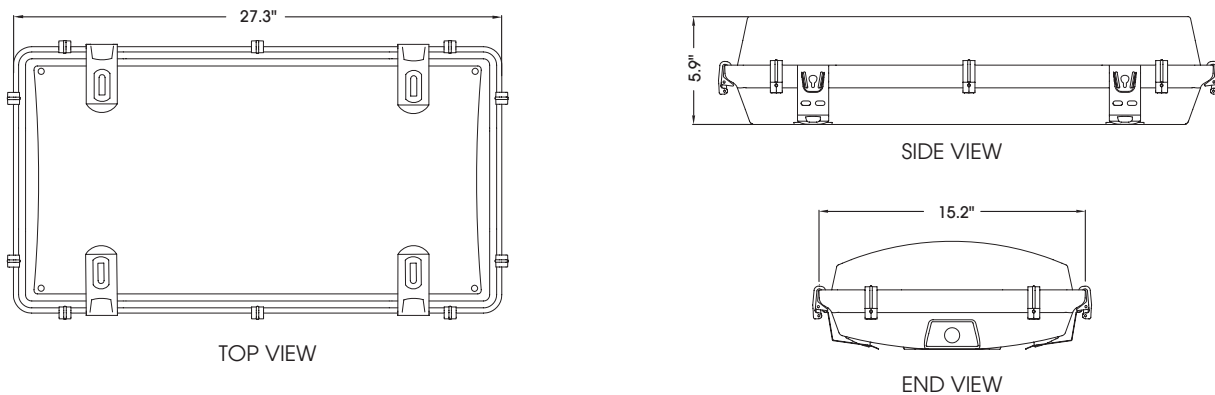Weights are approximate and vary by model, if weight is a concern, please contact factory.

2N

TOP VIEW

SIDE VIEW - FROSTED

END VIEW - FROSTED

4N

TOP VIEW

END VIEW - FROSTED

SIDE VIEW - FROSTED

2W

TOP VIEW

SIDE VIEW

END VIEW

flex

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