

20-VTSR-211816L-3CCT

VAPOR TIGHT SENSOR READY LUMEN & KELVIN SELECTABLE

PROJECT
TYPE
CATALOG #

HOUSING

- Light gray polycarbonate housing with stainless steel latches.

ELECTRICAL

- Operating temperature (ambient): -40°C to 43°C (-40°F to 109°F).
- Universal 120-277V AC voltage (50-60Hz) is standard.
- 0-10VDC dimming drivers are standard.
- Emergency driver option available.
- Input transient surge protection = 2.5kV.
- Power factor > 0.90.
- Total Harmonic distortion < 20%.

OPTICAL SYSTEM

- Polycarbonate lens.
- Field selectable 3500K (warm white), 4000K (neutral white) and 5000K (cool white) color temperatures*.
- Tri-lumen selectable delivers 16,000 to 21,000 nominal lumens*.
- Long-life LEDs provide 178,000 hours of operation with at least 70% of initial lumen output (L70), and 54,000 hours with at least 90% of initial lumen output (L90)**.
- Sensor-ready receptacle standard.
- Screw in sensor ready. Remote control required for programming (Sensor and remote control sold separately).
- LED color maintenance < -0.0016 chromaticity shift ($\Delta u'v'$) over the initial 6,000 hours of operation.
- Color rendering index > 80.

MOUNTING

- Surface mount kit is standard and v-hooks included. (Chain supplied by others.)
- Optional cable mount kit provides luminaire suspension.
- Easy installation in new construction or retrofit applications.

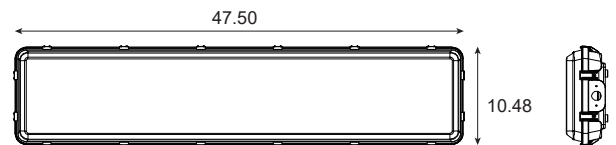
CODE COMPLIANCE

- cULus listed for wet locations.
- Complies with FCC part 15, class A.
- IP66 rated for ingress protection.
- IK10 rated for impact protection.
- Complies with NEMA 4X.
- NSF listed.

WARRANTY

- 5-year warranty on all electronics and housing.

* Default kelvin temperature 4000k and highest lumen output.
** L70 & L90 hours are IES TM-21-11 calculated hours.



Model	Size (inches) & Weight (lbs)			
	L (in)	W (in)	H (in)	Weight
20-VTSR-211816L-3CCT	47.50	10.48	4.53	14.81



PRODUCT PARAMETERS

SERIES	NOMINAL LUMEN OUTPUT (Selectable)	KELVIN (Selectable)	EMERGENCY DRIVER
20-VTSR	211816L =21,000 / 18,000 / 16,000 lm	3CCT 3500K / 4000K / 5000K	EM10 10W Emergency Driver EM13 13W Emergency Driver Blank No Emergency Driver



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ACCESSORIES (order separately)

Sensor

22-HD07VR-PH-1-90	=	Passive infrared sensor with 90° elbow adapter- maximum mounting height = 39FT.
22-HD07VR-MH-B-1-90	=	Microwave step-dimming sensor with 90° elbow adapter - maximum mounting height = 49FT.
22-HD09VR-PH5-1-90*	=	Passive infrared sensor with 90° elbow adapter- maximum mounting height = 39FT.
22-HD09VR-MH5-1-90*	=	Microwave step-dimming sensor with 90° elbow adapter - maximum mounting height = 49FT.
22-HD05R	=	Remote control for 20-HD07VR-PH-1-90, 20-HD07VR-MH-B-1-90, 20-HD09VR-PH5-1-90 and 20-HD09VR-MH5-1-90 (required for 20-HD07VR models to change factory settings)

***20-HD09VR series has 5-dial setting capability.**

Factory settings for Sensor : detection area =100%, hold time = 5 sec, stand-by period = 0 sec, stand-by dimming level = 10%, daylight threshold = disabled

Lens

ZZ-LENS-VTSR-211816L	=	Replacement lens for VTSR-211816L-3CCT
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Mounting Option

20-CMK3	=	3 Meter cable mount kit
20-CMK5	=	5 Meter cable mount kit

Remote Mount EM Drivers

20-BLEM-CP-10C	=	10W Emergency driver
20-BLEM-CP-13C	=	13W Emergency driver

COMPATIBLE EMERGENCY DRIVERS - INSTALLED

Emergency Driver Part Number	EM10		EM13	
Model	Watts	EM Lumens	Watts	EM Lumens
20-VTSR-211816L-3CCT	10	1600	13	2080

COMPATIBLE DIMMERS & CONTROLS

Manufacturer	Model Number	Dimmer Range	Load Switching Capacity
Best Lighting	DWS-010V-T	10%-100%	600W
Best Lighting	DWS-010V-D	10%-100%	600W
Leviton	IP710-LFZ	10%-100%	1200W
Lutron	DVSTV	10%-100%	450W

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ELECTRICAL DATA

Series	Mea- sure- ments	Low Lumens			Mid Lumens			High Lumens		
		3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
20-VTSR- 211816L- 3CCT	Lumens	15,773	16,261	16,264	17,538	18,257	18,276	20,359	21,066	21,001
	Watt	98.58	95.48	97.59	112.21	109.07	112.12	130.57	125.32	129.16
	Efficacy	160.00	170.31	166.66	156.30	167.39	163.00	155.92	168.10	162.60
	Input Current (A)	120V = 0.82	120V = 0.80	120V = 0.81	120V = 0.94	120V = 0.91	120V = 0.93	120V = 1.09	120V = 1.04	120V = 1.08
		240V = 0.41	240V = 0.40	240V = 0.41	240V = 0.47	240V = 0.45	240V = 0.47	240V = 0.54	240V = 0.52	240V = 0.54
		277V = 0.36	277V = 0.34	277V = 0.35	277V = 0.41	277V = 0.39	277V = 0.40	277V = 0.47	277V = 0.45	277V = 0.47

PHOTOMETRIC DATA

20-VTSR-211816L-3CCT

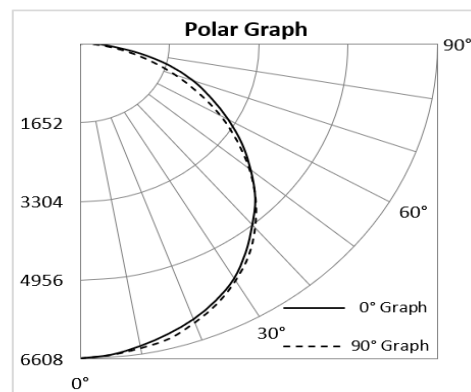
Luminaire Data

Description	4' H.O. Vapor Tight Lumen and Kelvin Select
Total Lumens	21,001
Input Wattage	129
Efficacy (lm/W)	163
Spacing Criterion (0-180°)	1.28
Spacing Criterion (90-270°)	1.3

Photometrics calculated at 4000k
and highest lumen setting.

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20°	2,424	11.5%
0-30°	5,191	24.7%
0-40°	8,586	40.9%
20-50°	9,727	46.3%
40-70°	9,422	44.9%
0-60°	15,422	73.4%
0-80°	19,685	93.7%
0-90°	20,372	97.0%
90-180°	628	3.0%
0-180°	21,001	100.0%





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CORDS & PLUGS

When ordering a plug, use the following suffix choices. Example:

20-VTSR-765L-3CCT-10C3

Note: Cords & plugs do not affect the ability to install sensors.

Part number suffix	Description	For use with
6C3	6' cord - 3 conductor (black/white/green)	Standard
6C4	6' cord - 4 conductor (black/white/green/red)	EM driver
6C5	6' cord - 5 conductor (black/white/green/purple/pink)	Dimming
6C6	6' cord - 6 conductor (black/white/green/red/purple/pink)	Dimming & EM driver
10C3	10' cord - 3 conductor (black/white/green)	Standard
10C4	10' cord - 4 conductor (black/white/green/red)	EM driver
10C5	10' cord - 5 conductor (black/white/green/purple/pink)	Dimming
10C6	10' cord - 6 conductor (black/white/green/red/purple/pink)	Dimming & EM driver
15C3	15' cord - 3 conductor (black/white/green)	Standard
15C4	15' cord - 4 conductor (black/white/green/red)	EM driver
15C5	15' cord - 5 conductor (black/white/green/purple/pink)	Dimming
15C6	15' cord - 6 conductor (black/white/green/red/purple/pink)	Dimming & EM driver
6P515	6' cord - 3 conductor (black/white/green) - NEMA 5-15 plug (120V/15A)	Standard luminaire
6P615	6' cord - 3 conductor (black/white/green) - NEMA 6-15 plug (240V/15A)	Standard luminaire
6P715	6' cord - 3 conductor (black/white/green) - NEMA 7-15 plug (277V/15A)	Standard luminaire
6P520	6' cord - 3 conductor (black/white/green) - NEMA 5-20 plug (120V/20A)	Standard luminaire
6P620	6' cord - 3 conductor (black/white/green) - NEMA 6-20 plug (277V/20A)	Standard luminaire
6P515L	6' cord - 3 conductor (black/white/green) - NEMA L5-15 plug (120V/15A locking)	Standard luminaire
6P615L	6' cord - 3 conductor (black/white/green) - NEMA L6-15 plug (240V/15A locking)	Standard luminaire
6P715L	6' cord - 3 conductor (black/white/green) - NEMA L7-15 plug (277V/15A locking)	Standard luminaire
6P520L	6' cord - 3 conductor (black/white/green) - NEMA L5-20 plug (120V/20A locking)	Standard luminaire
6P620L	6' cord - 3 conductor (black/white/green) - NEMA L6-20 plug (240V/20A locking)	Standard luminaire
6P720L	6' cord - 3 conductor (black/white/green) - NEMA L7-20 plug (277V/20A locking)	Standard luminaire
10P515	10' cord - 3 conductor (black/white/green) - NEMA 5-15 plug (120V/15A)	Standard luminaire
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DIMENSIONAL DRAWINGS

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