MX4R LED
4" Continuous – Recessed

Williams

3-3/4"

4"

MX4RG Shown

CATALOG #: _____

TYPE: _____

PROJECT: _____

BUY AMERICAN ACT COMPLIANT · CCEA Approved · WET/CC · BIOS ILLUMINATED

FEATURES

- Create elegant spaces with a seamless, continuous row of illumination
- Specify in one inch increments to create a perfect fit
- High-performance up to 121 lm/W
- Linear extrusion contains snap-in light rails for ease of installation and maintenance
- Versatile MX4 system includes recessed, surface, suspended and in-wall mounting, see hew.com
- Corner configurations available, see Product Builder at hew.com/product-builder
- Diffuse acrylic lens provides uniform illumination for visual comfort
- Wireless in-fixture control solutions available
- Available with BIOS® SkyBlue® technology to support proper daytime circadian stimulus
- Made Right Here® in the USA

SPECIFICATIONS

- **HOUSING** – Extruded aluminum.
- **SHIELDING** – Extruded, flat, diffuse acrylic lens.
- **FINISH** – 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- **ELECTRICAL** – High-quality mid-power LED boards. L70 >60,000 hours per IES TM-21.
- **MOUNTING** – MX4RT: Drywall mount allowing for ceiling materials 1/4" - 1-1/4" thick. Fixture to be installed prior to drywall or finished ceiling material. MX4RG: NEMA Type "G" 15/16" or 1" grid standard.
- **LISTINGS** –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - City of Chicago Environmental Air approved when specified with CP option.
  - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- **WARRANTY** – 5-year limited warranty, see hew.com/warranty.

ORDERING EXAMPLE: MX4RTR - 8'00 - L8/835 - F - OPTIONS - CONTROL/DIM - UNV

SERIES	FIXTURE STYLE	LENGTH
MX4R	**TR** Drywall or Hard Surface - Trim	Lengths specified in feet and inches using 1" increments, 2' minimum. Example: **8'00** = 8'-0"
	TL Drywall or Hard Surface - Trimless	
	G Grid [1]	

Product Builder

Easily build shapes & simplify ordering with the Williams Linear Product Builder at hew.com/product-builder [2]

LUMENS [3]	CRI	CCT	SHIELDING
L8 800lm	**8** 80	**27** 2700K	**F** Flat, diffuse acrylic
L12 1200lm	**9** 90 [5]	**30** 3000K	
L15 1500lm		**35** 3500K	
		40 4000K	
		50 5000K	

OPTIONS [4]

EM/10W	10-watt emergency battery [6]
EM/10WRM	Remote mount 10-watt emergency battery
V90R	Vertical 90° corner, recessed [7]
V90G	Vertical 90° corner, grid [8]
CP	Chicago Plenum (CCEA)
ASY	Asymmetric distribution [9]
(L__)	Additional lower lumen packages available [10] Example: 600 lumens = MX4RTR-8'00-L8/835-**(L6)**
WET/CC	Wet location under covered ceiling

CONTROL [11]
See page 5 for ADDITIONAL CONTROL OPTIONS.

–	None
AVI-LVFA	Avi-on wireless fixture control [12]
AVI-LVFA-CS2-PIR	Avi-on wireless fixture control with PIR motion and daylight sensor [13]
AWNR	Lutron Athena wireless node integral fixture control, RF only [14]
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing [15]

DRIVER
See page 6 for ADDITIONAL DRIVER OPTIONS.

DIM	Driver with external dimming wires
DRV	Driver without external dimming wires
DA	Driver with 12V auxiliary power, without external dimming wires [16]
DSR	Sensor-ready driver without external dimming wires (D4i DALI-2) [17]

VOLTAGE

120	120V
277	277V
UNV	120-277V
347	347V [18]

NOTES

1. Earthquake clips provided.
2. See page 3 for CORNER DETAILS.
3. Lumens per foot output based on F shielding, 80 CRI/3500K CCT. Actual performance per foot may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
4. See page 3 for CORNER DETAILS. See Technical Info for Power Entry details.
5. Extended lead times may apply. Consult factory for availability.
6. Not available with fixtures less than 4'.
7. Connects MX4RT to vertically mounted MX4RT. Ships separately. Extended lead times may apply. Consult factory for availability.
8. Connects MX4RG to vertically mounted MX4RT. Extended lead times may apply. Consult factory for availability.
9. Available with F shielding only. Creates uneven lens illumination. See page 2 for CROSS SECTIONS.
10. (L4) lumen package minimum. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
11. Reduces portion of lit fixture, consult factory. See page 3 for SENSOR & NODE PLACEMENT DETAILS. See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
12. DA driver only.
13. DA driver only.
14. DA and DSR Drivers only.
15. DA and DSR Drivers only.
16. Avi-on and Lutron Athena Controls only.
17. Lutron Vive and Athena Controls only.
18. Not available with EM batteries, control sensors, DA, or DSR Drivers.

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MX4R LED
4″ Continuous – Recessed

FIXTURE PERFORMANCE DATA

|	MX4RTL/MX4RTR: PER FOOT		
	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L8	874	7.3	120
L12	1289	10.9	118
L15	1601	13.7	117

- Photometrics tested in accordance with IESNA LM-79. Results based on F shielding, 80 CRI/3500K CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier table to calculate additional options.

MULTIPLIER TABLE

|	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.97
	3000K	0.99
	3500K	1.00
	4000K	1.03
	5000K	1.06
90 CRI	2700K	0.80
	3000K	0.82
	3500K	0.83
	4000K	0.86
	5000K	0.89

PHOTOMETRY

MX4RG-4′00-L8/835-F-DIM Total Luminaire Output: 3496 lumens; 29.2 Watts | Efficacy: 120 lm/W | 80 CRI; 3500K CCT
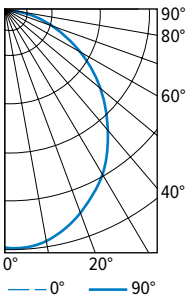
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1431	1431	1431	
5	1439	1413	1411	135
15	1373	1339	1331	379
25	1227	1207	1189	555
35	1053	1021	1003	643
45	844	826	792	634
55	634	596	586	540
65	394	380	368	378
75	180	178	180	191
85	28	28	28	41
90	2	0	0	

ZONE	LUMENS	% FIXTURE
0 - 30	1069	31
0 - 40	1712	49
0 - 60	2886	83
0 - 90	3496	100
0 - 180	3496	100

MX4RG MX4D-4′00-L8/835-F-ASY Total Luminaire Output: 3197 lumens; 29.2 Watts | Efficacy: 109 lm/W | 80 CRI; 3500K CCT
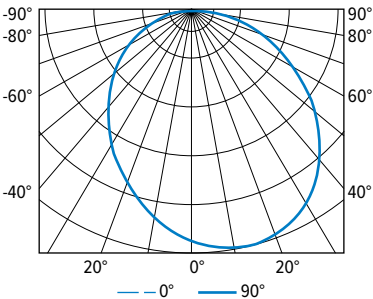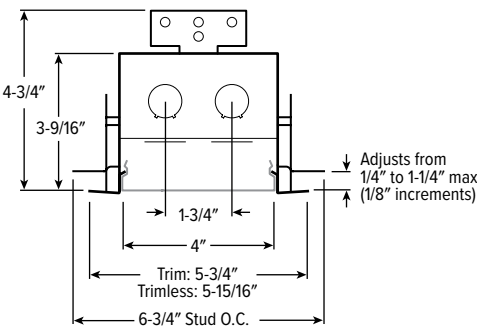

VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
	0°	45°	90°	135°	180°	
0	1153	1153	1153	1153	1153	
5	1149	1175	1188	1175	1149	109
15	1101	1185	1221	1185	1101	311
25	1011	1135	1187	1135	1011	468
35	881	1024	1083	1024	881	556
45	726	868	922	868	726	566
55	560	684	730	684	560	507
65	384	481	516	481	384	387
75	203	275	300	275	203	227
85	50	86	100	86	50	67
90	2	13	19	13	2	

ZONE	LUMENS	% FIXTURE
0 - 30	887	28
0 - 40	1443	45
0 -60	2516	79
0 - 90	3197	100
0 - 180	3197	100

CROSS SECTIONS

MX4RT

4-3/4″
3-9/16″
Adjusts from 1/4″ to 1-1/4″ max (1/8″ increments)
1-3/4″
4″
Trim: 5-3/4″
Trimless: 5-15/16″
6-3/4″ Stud O.C.

ASY OPTION

MX4RG

4-7/8″
3-3/4″
4″
4-15/16″
T-bar 5″ O.C.

ASY OPTION

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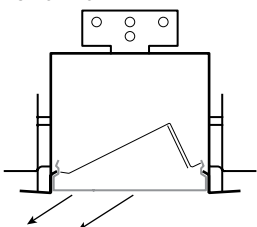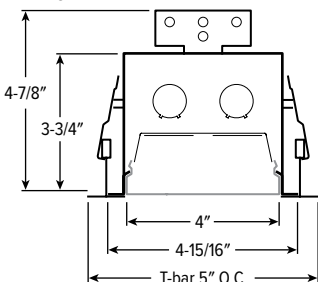
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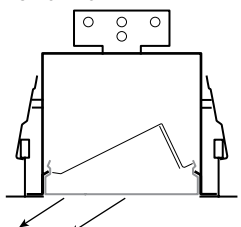
MX4R LED
4" Continuous – Recessed

FIXTURE DETAILS

BACK VIEWS

MX4RT

(8) ø1/4" mounting holes (bracket slides to desired location)

Backer flange (both sides)
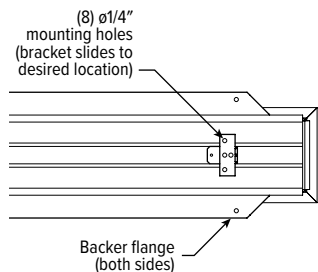
MX4RG
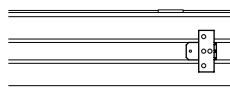
TRIM FINISH DETAILS (MX4RT only)

Trimless

Backer flange

Ceiling material

Mud, texture & paint

1/2" max. trim flange coverage

Trim

Backer flange

Ceiling material

Texture & paint

7/16" max. trim flange coverage
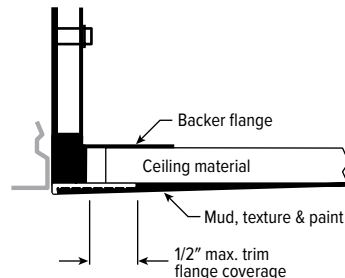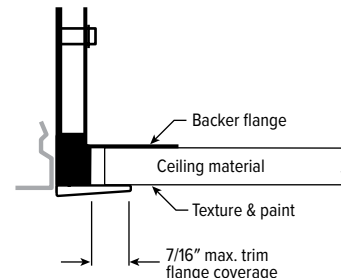
ROUGH-IN DIMENSIONS

▪ Framing allowance for width (stand-alone) is 5-3/4" ± 1/4".
▪ Framing allowance for length (All Types) is length plus 1-1/2" minimum.

CORNER DETAILS

Note: Corner orientation determined in field. Feeder corner end cap shipped separately.
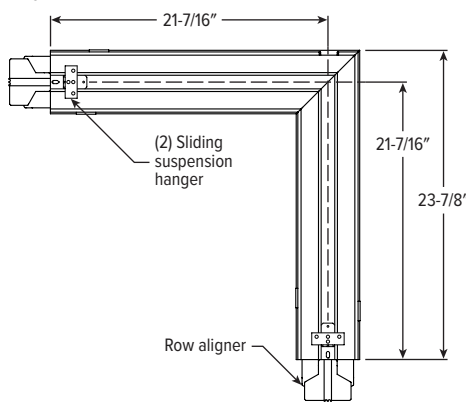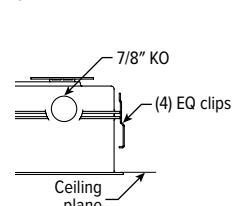
MX4R90T

BACK VIEW

21-1/2"

(2) Sliding suspension hanger

(4) Backer flange

Row aligner

SIDE VIEW

7/8" KO

Ceiling plane

21-1/2"

23-7/8"

MX4R90G

BACK VIEW

21-7/16"

(2) Sliding suspension hanger

Row aligner

SIDE VIEW

7/8" KO

(4) EQ clips

Ceiling plane

21-7/16"

23-7/8"
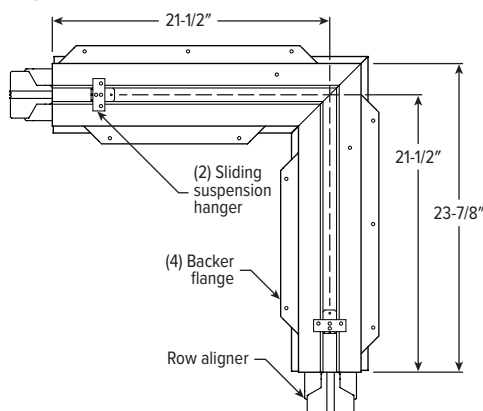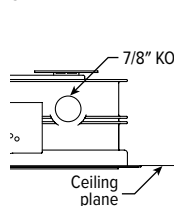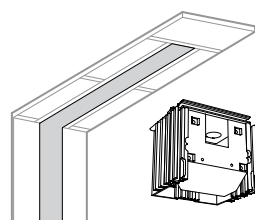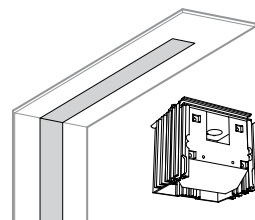
TRANSITION CORNERS

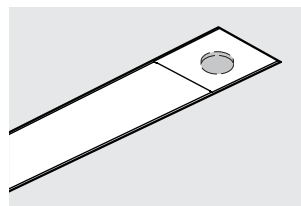Includes tamper resistent lens bracket for lower end of vertical fixture.

V90G

V90R

SENSOR & NODE PLACEMENT DETAILS

MX4R LED
4″ Continuous – Recessed

AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

FEATURES

Simple
- Gateway-free distributed control
- Factory pre-commissioning
- Contractor friendly installation
- Occupancy/vacancy/daylight sensing

Scalable
- Virtually unlimited network size
- Spans small offices to large warehouses
- Flexible control strategies

Secure
- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

COMMISSIONING & INSTALLATION TOOLS

Avi-on mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers. Live commissioning training and on-site or remote support by Avi-on must be ordered separately through Avi-on.
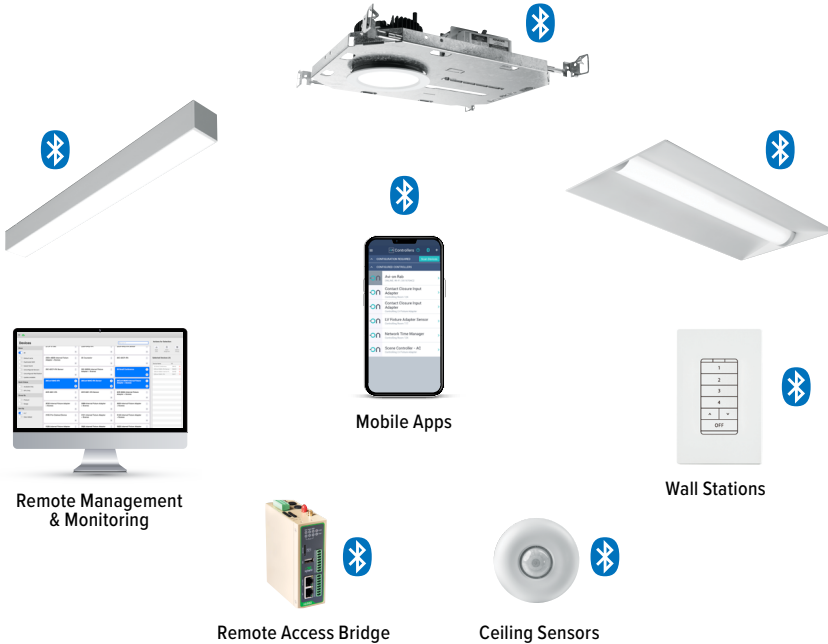
Commissioning Mobile App

Zone Scanner Web App

Commissioning Pro App

SYSTEM COMPONENTS

Remote Management & Monitoring

Mobile Apps

Wall Stations

Remote Access Bridge

Ceiling Sensors

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ACCESSORIES

WALL STATIONS	
AVI-2401AC	Scene controller - numbered 1-4, 120-277VAC
AVI-2402BAT	Scene controller - numbered 1-4, battery powered
AVI-2401AC-2	Dimmer with presets - percentages, 120-277VAC
AVI-2402BAT-2	Dimmer with presets - percentages, battery powered
AVI-2401AC-3	On/off/dimming, 120-277VAC
AVI-2402BAT-3	On/off/dimming, battery powered

NETWORK	
AVI-RAB-LTE	Remote access bridge
AVI-KIT-NTM	Network time manager with battery backup

CEILING MOUNT SENSORS	
AVI-KIT-SEN-DUCM	PIR motion and ultrasonic sensor kit
AVI-KIT-SEN-ICM	PIR motion and photocell sensor kit

For load controllers and additional accessory info, see hew.com/avi-on

AVI-LVFA-CS2-PIR Avi-on wireless fixture control with PIR motion and daylight sensor. DA Driver only.

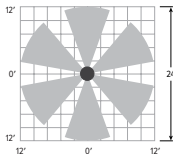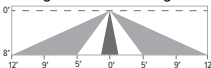| SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8′ – 10′
DETECTION ANGLE	360°
TEMPERATURE RANGE	-30° to 50°C
RELATIVE HUMIDITY	10 to 80% non-condensing
IP RATING	IP20
MANUFACTURER	Avi-On

AVI-ON
Bluetooth® Lighting Controls

SENSOR COVERAGE PATTERNS

Side View
8′ height: ø24′ coverage

SENSOR DETAIL

Dimensions: 13/16″ x 2-1/4″

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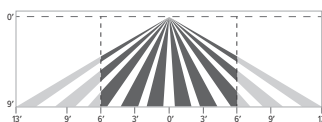
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ADDITIONAL CONTROL OPTIONS

AWNS Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing. DA and DSR Drivers only.

SPECIFICATIONS	
TYPE	Radio Frequency
MOUNTING HEIGHT	8′ – 12′
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 55°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	Clear Connect gateway – Type X with app (iOS or Android)
MANUFACTURER	Lutron
	🏵 **LUTRON**

SENSOR COVERAGE PATTERNS

9′ height: ø12′ coverage

Motion Sensor Coverage

CEILING HEIGHT	COVERAGE AREA (SQ FT)
8′	114
9′	144
10′	178
12′	256

SENSOR DETAIL

Dimensions: ø1-1/8″

ATHENA CONTROL OPTIONS

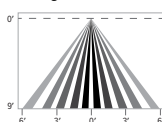| CATALOG NUMBER	DESCRIPTION
AWNR	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power
AWNR-BL	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish
AWNS-BL	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish

VDO Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC). DSR or LDE Drivers only. LDE drivers require driver interface

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8′ – 12′
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 55°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	App (iOS or Android)
MANUFACTURER	Lutron

SENSOR COVERAGE PATTERNS

9′ height: ø12′ coverage

Motion Sensor Coverage

CEILING HEIGHT	COVERAGE AREA (SQ FT)
8′	114
9′	144
10′	178
12′	256

SENSOR DETAIL

Dimensions: 2-11/16″ x 1″

VIVE CONTROL OPTIONS

| CATALOG NUMBER	DESCRIPTION
VRF	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), for use with sensor-ready driver
VDO	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC), for use with sensor-ready driver
VRF/DBI	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver
VDO/DBI	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver

OCCWS-FS-305-L6-PP-120/277 Wattstopper PIR motion and daylight hold off sensor with power pack, 120/277V
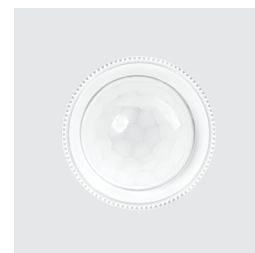
SPECIFICATIONS	
TYPE	PIR Motion + Daylight Hold Off
MOUNTING HEIGHT	8′
LENS	Indoor, non-wet location use
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 55°C
RELATIVE HUMIDITY	5% to 95%, non-condensing
COMMISSIONING	Dials under lens

SENSOR COVERAGE PATTERNS

8′ height: ø20′ coverage
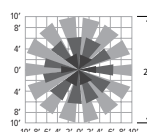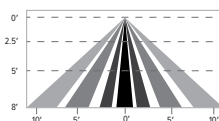
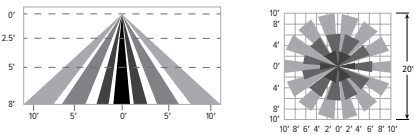### SENSOR DETAIL

Dimensions: ø1-5/16″

MX4R
LED
4″ Continuous – Recessed

OCCWS-LMFS-601-PP-120/277 Wattstopper PIR motion and daylight sensor with power pack, 120/277V

SPECIFICATIONS

TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8′ – 12′
LENS	Up to 300 sq/ft coverage
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 50°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	App (iOS or Android)

SENSOR COVERAGE PATTERNS

8′ height: ø20′ coverage

SENSOR DETAIL

Dimensions: ø1-5/16″

ADDITIONAL DRIVER OPTIONS

Note: Lumen restrictions apply, consult product builder at hew.com/product-builder.

CATALOG NUMBER	DESCRIPTION
DRV	Driver prewired for non-dimming applications
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC	Line voltage dimming driver (TRIAC compatible, 120V only)
DA	Driver with 12V auxiliary power
DSR	Sensor-ready driver (D4i DALI-2)
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver

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