RSA-MRZ

LED architectural luminaires

RSA

COOPER Lighting Solutions

RSA

MRZ

m· r· z
/[em]-[ahr]-[zee]
noun

A multi-head, recessed, integral LED luminaire that is used in retail, commercial, and hospitality applications to intensify and beautify objects it illuminates. In addition, the option of sophisticated integrated controls systems enables the fixture to understand its environment and you.

A movement

Hospitality - accent

Where old meets new

How far we have come...

from the days of halogen, metal halide, and incandescent lamp sources, to a new era of high performing optical design, elegance, and performance.

One LED form that spans generations of lighting sources.

Lumen range
250 to 1700

"To love beauty is to see light."
– Victor Hugo

Introducing the RSA-MRZ

a new multi-head family of luminaires

Meet the family

The RSA-MRZ family is the next generation of multi-head adjustable, integral LED luminaires offering a wide breadth of options and features that place this family in a class by itself at an economical vantage point.

Available in: one, two, three or four head luminaire configurations

RSA-MRZ-1 One head

RSA-MRZ-2 Two head

RSA-MRZ-3 Three head

RSA-MRZ-4 Four head

Trim it

Choose between two different trim styles: Flanged or Mud-In

"The whole difference between construction and creation is exactly this: that a thing constructed can only be loved after it is constructed, but a thing created is loved before it exists."
– Charles Dickens

The Flanged option comes in a slim 0.75" trim that helps to hide any imperfections from cutouts of ceiling materials.

The Mud-in trim offers a clean line where gypsum meets the housing. A tapered trim of 0.8" helps contractors have minimal depth variance.

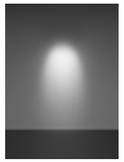
ALL luminaires are **IC** Insulated Ceiling rated.

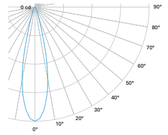
A Chicago Plenum **CP** option is also available for our friends in the Windy City.

A movement of flux

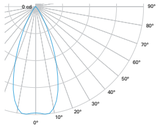
Three different optical distributions are available to accommodate most accenting needs: 25° [narrow flood], 40° [flood], and 55° [wide flood] beam optics. The following is a demonstration of each effect.

25° optic
[narrow flood]

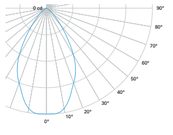




40° optic
[flood]



55° optic
[wide flood]



Illuminance: of a point source

$$E = \frac{I \cos(\theta)}{d^2}$$

I = Luminous Intensity
d = distance
(θ)= incident angle

The chart below shows representative Light Levels using:
4000K, 40° Optical Flood Distribution.

Please view full suite of photometric files for other lumen levels on the website.

1 = 550 lumens @7W @ 97CRI
2 = 700 lumens @9W @ 97CRI
3 = 1000 lumens @12W @ 97CRI
4 = 1300 lumens @16W @ 97CRI

1 = 700 lumens @7W @80CRI
2 = 900 lumens @9W @80CRI
3 = 1300 lumens @12W @80CRI
4 = 1700 lumens @16W @80CRI

Turn it

Each fixture head allows for 45° tilt out of the luminaire and 365° of rotation for full aiming flexibility. Put the light where you want it.

"...visual truth lies in the structure of light"
- Richard Kelly

Retail department store

Connected Buildings solution options: WaveLinx™ or LumaWatt Pro

A movement of color

The RSA-MRZ has several “color” features. They include the housing/ trim color options, the color of the LED (CCT), the color shift in LEDs (CRI), and the color quality as defined by TM-30.

Color rendering index: CRI

CRI: the measure of the degree of color shift objects undergo when illuminated by the light source as compared with the color of those same objects illuminated by a reference source of comparable color temperature.

RSA-MRZ has two choices of CRI:

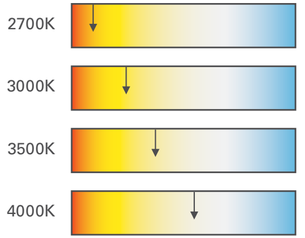
80 = 80 CRI

97 = 97 CRI

Correlated color temperature: CCT

CCT: the absolute temperature of a blackbody whose chromaticity most nearly resembles that of a light source.

Four different color temperatures offered:



Housing color

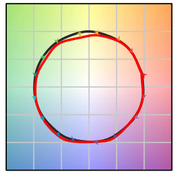
Three different combinations of housing and trim colors to choose.

W = White Housing/ White Trim

B = Black Housing/ Black Trim

BW = Black Housing/ White Trim

Color vector graphic



The RSA-MRZ has excellent color quality in the higher CRI option (97+), resulting in higher quality TM-30 metrics.

TM-30

TM-30 is a method for evaluating light source color rendition. It includes numerous measures that quantify different aspects of color rendering, such as fidelity and gamut.

R_f Fidelity - closeness to a reference.

R_g Gamut - the average increase or decrease in saturation.

Example: The RSA-MRZ TM-30 fidelity and gamut values for a 3500K, 97 CRI Flood is Rf = 90.1 and Rg = 97.2.

“When you can measure what you are speaking about, and express it in numbers, you know something about it”

- Lord Kelvin [1883]

Options with benefits

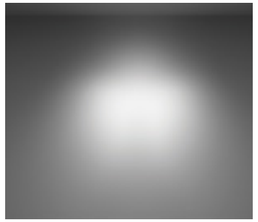
"For the rest of my life, I want to reflect on what light is."
- Albert Einstein [1916]

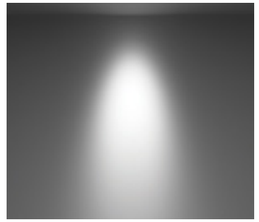
The RSA-MRZ family has many additional options that provide added versatility. A few notable options are emergency battery option (not available in one head version), and a number of shielding media that help designers, shape light.

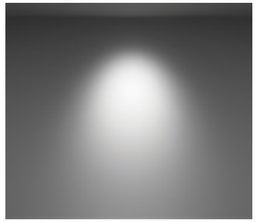
Compliance and Egress

The RSA-MRZ is available with an emergency battery option to aide in fixture conditions needing egress outputs. The battery can be located 2ft from the housing in flex conduit.

Lenses and Louvers - The RSA-MRZ has a variety of industry standard lenses: Linear Spread Lens, Soft Focus Lens, Hex Louver, and Snoot.







Linear spread lens (LSL)

The linear spread lens helps to frame and elongate the beam to highlight rectangular or horizontal shapes. Great for signage and other applications.

Soft focus lens (SFL)

The soft focus lens softens the beam and blends the field angle. Use this to remove hard edges and diffuse the beam edges.

Hex louver (HEX)

The hex louver is a honeycomb lens that helps to cut off the viewing angle into the fixture. Used when glare control is needed.

Snoot (SNT)

The snoot is used when sharp cutoff control is needed and sensitivity to light spill of the beam.

A movement of design

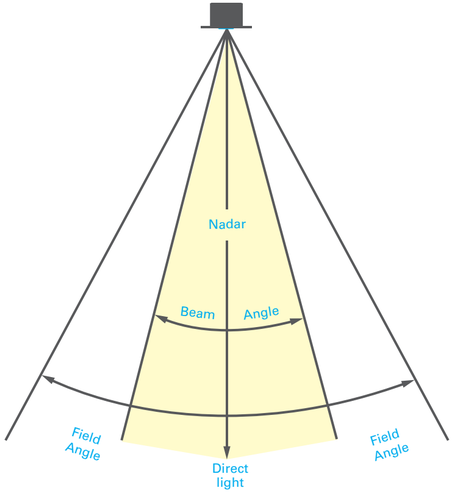
The following information are simple guidelines or considerations on how to light a three dimensional object or flat vertical surface using the RSA-MRZ multi-head fixture. The following guidelines suggest methods to determine the distance away from an object the RSA-MRZ light fixture could be placed, as well as design considerations.

Consider the intensity and spill light of the beam as defined by:

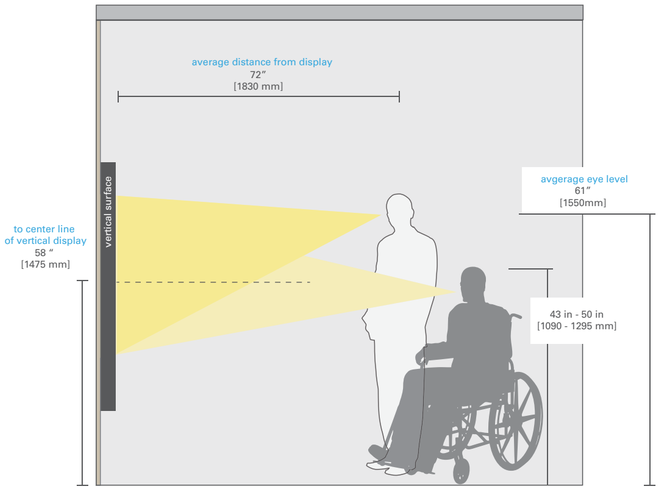
Beam angle - the focused path of light. The angle between two directions where the intensity is 50% of the maximum intensity as measured through the nominal beam centerline.

Field angle - the angle between two directions where the intensity is 10% of the maximum intensity as measured in a plane through the nominal beam centerline.

In lighting artwork or vertical surfaces, lighting generally should provide uniform intensity over an entire vertical surface that is chosen to be illuminated. Below are typical height and distance recommendations. However, actual values should be determined per actual situation and take environment into consideration.



Average viewing heights and distances from flat vertical surfaces:



Reference: ANSI/IES RP-30-17

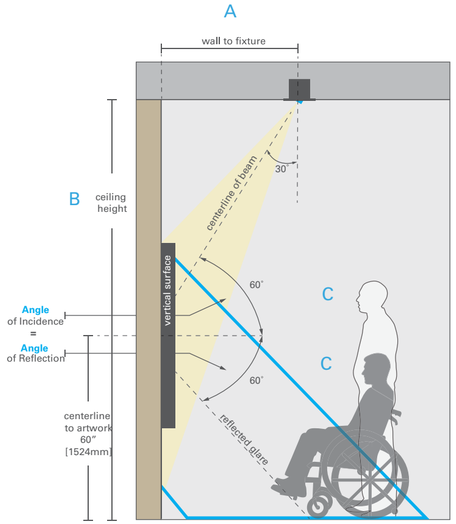
Calculated viewing heights and distances from flat vertical surfaces:

Luminaires positioned so the beams' center axis is 30° from the vertical will produce minimal shadows and glare-free viewing while allowing the viewer to approach the object closely without casting his or her own shadow on the object. The following formula is a guide:

A		B		C
Optimal luminaire distance from wall	=	**[ceiling height - eye level] * 0.577**		

Wall-to-luminaire distances should be increased or decreased as required to avoid shadows, and the angle of incidence and reflection should be calculated to avoid glare to the viewer. Luminaires aimed 30° from the vertical plane, typically reduce glare.

Reference: RP-3-17 [6.1]

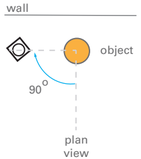


"Lighting is about the aesthetic as it is the analytic."

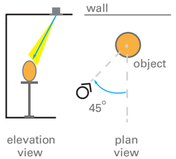
A movement of technique

The features of the RSA-MRZ can help illuminate objects, but where the luminaire is placed, is as important as what beam spread is used. The following are examples of what happens to an object when the luminaire is placed in different positions around the object. There are also factors like glare and reflections to consider when illuminating objects.

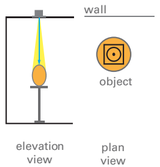
SIDE lighting is effective for revealing the depth and shape of three-dimensional objects, to enhance shadows and create contrast.



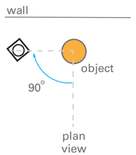
SPOTLIGHT a concentrated beam angle and limiting field angle. Used to highlight objects with intensity and high contrast ratios.



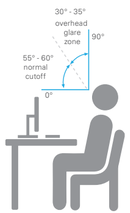
TOP lighting is another method for three-dimensional lighting and for separating an object from the background while adding depth to the object. Consider strong vertical occur.



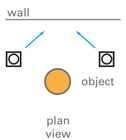
BACK lighting helps to separate an object from the background, with less focus on the object.



Direct **GLARE** is caused by direct line of sight from the viewer to the luminaire, usually caused by the fixture rotated too far from the vertical. This can cause visual discomfort and strain.

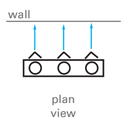


Lighting the **BACKGROUND** creates depth in a space and also aides in separating an object from the background. This is the effect on the object. See WALL WASH to see what happens to the wall.



Veiling **REFLECTIONS**, also known as reflected glare, are specular reflections that appear on the object viewed, making the details difficult to view. This occurs when the luminaire shines onto glass or other highly specular surfaces. Be attentive to the design of surface finishes, especially highly reflective finishes.

WALL WASH lighting can achieve uniform intensity over vertical surfaces from ceiling to floor.



"Light displays its brilliance only against a backdrop of darkness."
- Tadoa Ando

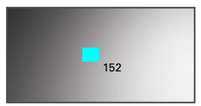
Reference: DG-18-08

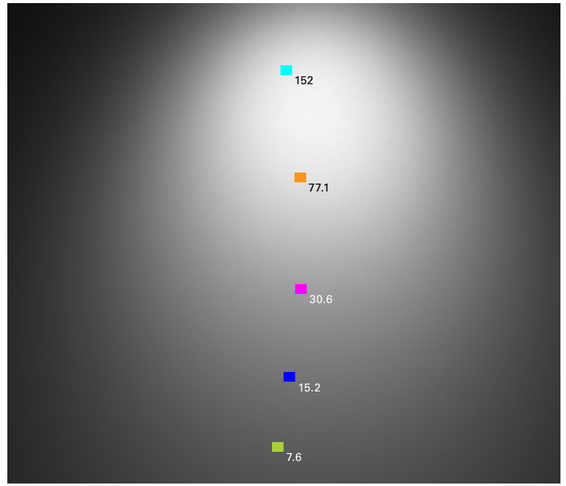
A movement of contrast

To gain a perspective of creating an effect on an object, comparing and contrasting the intensity of light can be used to create this drama or not. Below is a table that shows contrast ratios that compare the illuminance values against one level of intensity. Here, 152 fc is used as the base value to compare to. If the intent is to dramatically illuminate an object, then choose a contrast ratio of 20:1 or 10:1. The image on the right depicts different illuminance values that when compared to the base 152 fc, is that illuminance ratio.

Example:
To highlight a display or a vignette in a department store, using a 10:1 contrast ratio is recommended. So the highest value is 10 times brighter than its surrounding.

Here is how that contrast would look:





Effect Desired	Contrast Ratios of Max to Min for Different Effects				Applications
Strong	Dominant	20:1	152 fc :	7.6 fc	High end retail - poignant displays / House of Worship/ Museums
	Dramatic/Accent	10:1	152 fc :	15.2 fc	Department Store displays and vignettes at store entry. Corporate and Hospitality Lobbies; textured walls
Moderate	Feature	5:1	152 fc :	30.4 fc	Hospitality; destination features such as concierge/ front desk. Retail: Accentuated highlights and feature displays. Wall covering textured materials
Soft	Visual Edge	2:1	152 fc :	77.1 fc	Conference Rooms: art work wall materials, general task illuminance. Reception; artwork wall material features
Subtle	Visual Relief	1:1	152 fc :	152 fc	Office: art work, traditional residence

Reference: IESNA 10th Edition Handbook

Controls, simplified.

Wireless → Cost effective → Easy to install → Controls.

WaveLinx – the simplest controls system you will love. This wireless controls solution gives you all the benefits of standard code compliant systems, for less cost and less labor. Instantly meet energy code as the system default settings meet Title 24 and ASHRAE 90.1. The devices instantly connect to each other with an IEEE 802.15.4 wireless mesh network. Useful for retail and commercial spaces that need simple controls. The RSA-MRZ family of fixtures can now be used to control your space, simply.

There's an easy to use, drag-and-drop **App** for that!

Cost Savings improve by **50%**

All devices **Connect** instantly

Be **Sustainable** and reduce wire runs by **60%**

70% Increased energy savings for ASHRAE 90.1 and Title 24 and **55%** for IECC

Meets **Instant** Code Compliance (Title 24) out of the **Box**

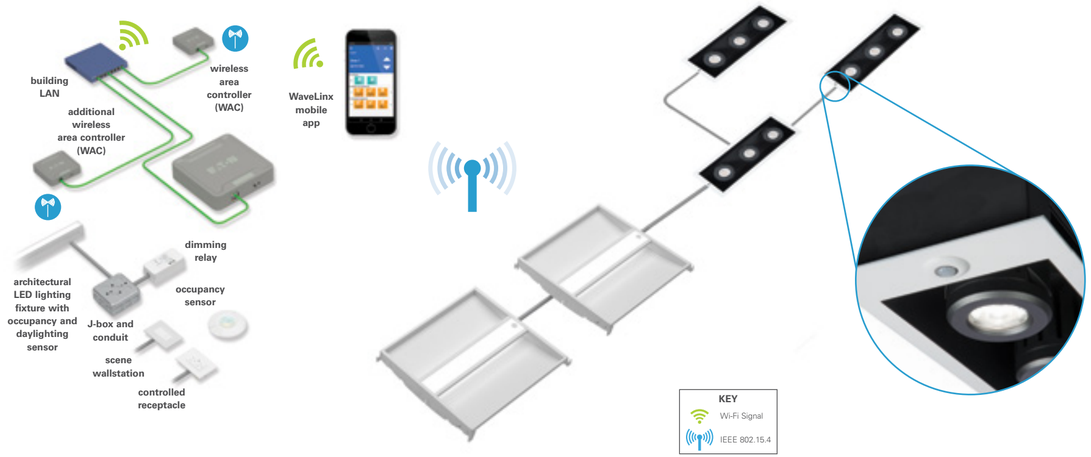
Decrease labor and commissioning time by **40%**

"The history of architecture is the history of man's struggle for light – the history of the window."
- Mies van der Rohe

What's in the box?

Talk to me!

The WaveLinx wireless system is located in devices used throughout your space (light + wall station + receptacle + wireless area controller) and connects to each other instantly. This makes commissioning easy. Automatic code compliance and instant device to device connection out of the box!



Icon-ic
Look what I can do!

Occupancy Sensor · Daylight Control · Manual On/ Auto Off · Tuning Control · Manually Switched ON/OFF · Manual Dimmer · Receptacle Control · Lumen Maintenance Control

Security first!

Demand · Physical · Customer · Device · Network · Network · OTA Update · Eaton COE

For more information about what WaveLinx can do for you, visit the WaveLinx Home Page

Yes, it's that easy!

A confluence of light + technology

LumaWatt Pro powered by Enlighted

Architecture is alive...

Architecture has entered into a new era that is changing and challenging the built space. The evolution of architectural design, is taking a static building to a state of dynamic movement, response, and reaction. This is possible today, with the most sophisticated and advanced system on the market...

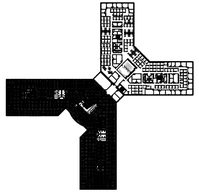
...LumaWatt Pro powered by Enlighted.

Using digital sensors acting as data collection points, the system provides the end user analytical information about their built space unlike ever before. This data collection can provide many layers of solutions for whatever is happening in the space. The sensor resides in the density spacing of a light fixture layout, creating a grid network. The LumaWatt Pro sensor and analytic system has been designed and built to handle large infrastructure enterprises. The RSA-MRZ can encompass this technology for retail and commercial spaces that want to better understand their environment.

Evolution of the built space and how we design...

Hand sketch

AutoCAD



Revit

LumaWatt Pro - The Enlightened Building

The new technology revolution is here. Buildings now have a pulse that can react to its inhabitants in real time, providing end user feedback on what their building is doing. End users pay for outcomes collected by devices positioned strategically, in their homes, retail, or commercial spaces. This outcome provides the services and response reactions to generate Return On Investment retention and monetization from the day it is installed. Whether through data collection or spacial analytics, the architectural space has now grown up.

Data is the new currency that provides end users with information about how their built space reacts to its inhabitants. End users pay for a service that tells them information about their space. Based on their interests, the App can maximize or streamline the efficiency of their space.

A few examples of this return on investment are:
Example 1: In a retail environment, being able to track customers' "virtual paths" is key and critical in understanding how to maximize merchandising locations and for studying traffic flow.
Example 2: Occupants of a building space have "maximized" common spaces like conference rooms or hoteling work spaces, but in reality, the spaces are not being used correctly. The building facility managers can use the LWP system to monitor the occupied to unoccupied ratio, in real time to see if these spaces are truly being used to the buildings' designed capacity levels. Facility managers can redirect the layout to meet maximum spatial efficiency by using the data collected via the sensor system.
Example 3: Reducing expense with janitorial services that may not need to clean low traffic areas daily. By observing the daily traffic usage pattern in large spaces, the cleaning expense can be saved.
Example 4: Track high value equipment in a space. Medical equipment in hospitals are often stowed away by staff and nurses. They can spend more than an hour trying to locate high value equipment. With tracking devices attached to these high value pieces of equipment, they can now be located in real time. This translates into valuable time saved, and maximizing labor efficiency.
Example 5: Fork lifts that have a certain amount of battery life and need to be re-charged, regularly. An owner can see the locations of these fork lifts, and when they are low in battery life have them sent back to their charging stations. This prevents down time and profitability loss.

"The sun never knew how great it was until it struck the side of a building."
– Louis Kahn

A movement of data and information

IoT
Light up the data

The LumaWatt Pro sensor is incorporated into the widest offering of light fixtures on the market under the Cooper Lighting Solutions platform. The sensor sends information back to a central location that stores this activity and information, which can be be analyzed. How this information can be used is endless. However, three market-ready solutions are available today: (Space) app motion, frequency of occupation, and occupied or unoccupied observation through detection. (Where) app - real time location services of monitoring objects in motion. (Aire) app - energy management system.

Space

The movement of a path that defines a space is best explained by:

"...the perceptual thread that links the spaces of a building, to any series of interior or exterior spaces, together. We move through time, through a sequence of spaces, we experience a space in relation to where we've been, and where we anticipate going" - F Ching

The LWP system of Space utilization app lets you know the frequency of people's physical locations, paths taken through a spaces, and how often the space is used.

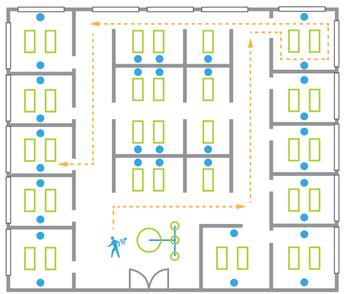
Where

Through the advancement of using devices that can be markers placed on people, places or things, the LumaWatt Pro system enables the end user to track the physical location of that object in real time. Owners of spaces can see how high valued objects are used and where they might be at any given time. This eliminates waste of time, losing high value objects, and time spent looking for these objects. The tracking of people, places, and things can now be observed in real time with the LWP system and the (Where) app.

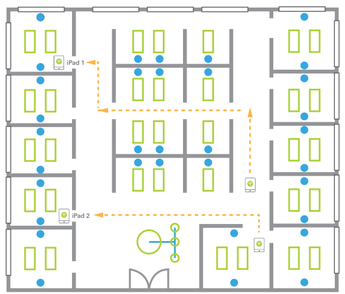
Aire

The LumaWatt Pro system can save you energy by enabling demand-driven heating or cooling. LumaWatt Pro's Aire integrates with your building management system (BMS) by using the data collected by LumaWatt Pro's advanced distributed sensor network and occupancy application. Aire enables facility managers to direct cooling or heating in real-time to the space where occupants are working.

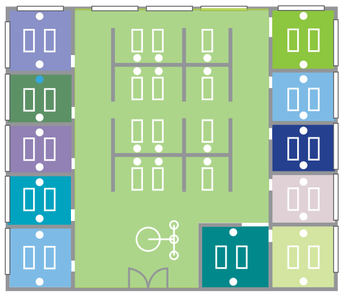
Please visit LumaWatt Pro for more information.



Analyze:
Motion...Usage...Trace



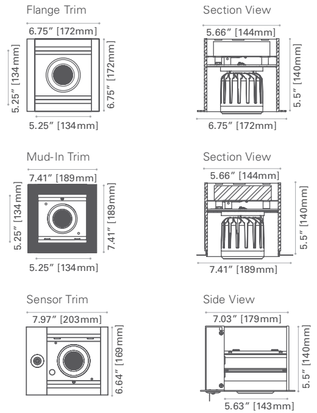
Track:
Assets...Places...Things



Manage:
Engage the data

One head RSA-MRZ

Shown:
Flange Trim
White Housing/ White Trim



Technical specifications

Series
MRZ - Multi-Head Integral LED

Size
1 - 1 Head Integral LED

Mounting
REC - Recessed

Trim Type
FLN - Flanged
MUD - Mud-In

Light Level/Head (@ 4000K and 80 CRI)
1 - 700 Lumens @ 7W
2 - 900 Lumens @ 9W
3 - 1300 Lumens @ 12W
4 - 1700 Lumens @ 16W

Color Temp/Wattage
L27 - 2700K
L30 - 3000K
L35 - 3500K
L40 - 4000K

CRI
80
97

Beam Angle
NFL - 25° Narrow Flood
FL - 40° Flood
WFL - 55° Wide Flood

Voltage
UNV - 120 - 277V

Finish
W - White housing/white trim
B - Black housing/black trim
BW - Black housing/white trim

Drivers
STD - Standard 0-10V (10%-100%)
ELV - Electronic Low Voltage Dimming
HCD - 0-10V (1%-100%)
DCD - 0-10V (0.1%-100%)
5LT - Fifth Light DALI
5LTHD - Fifth Light DALI (1-100%)
LUE - Lutron Ecosystem (1-100%)
LUL - Lutron 3-Wire Line Voltage (1-100%)
LU5 - Lutron Ecosystem (5-100%)
LUH - Lutron H-Series Ecosystem (1-100% Fade to Black)

Integral Control (Optional)
LWIPD1 - LumaWatt Pro Integral Wireless Sensor
SWPD1 - WaveLinx Integral Wireless Senor

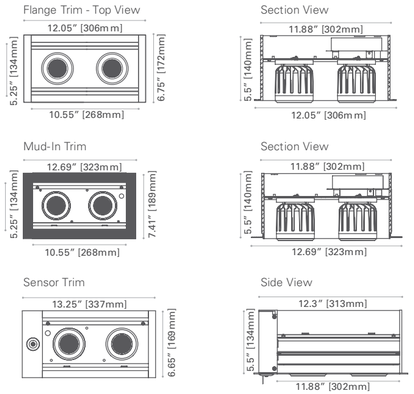
Options (Optional)
REM - Remote Emergency Battery
CP - Chicago Plenum
BF - Butterfly Brackets
LSL - Linear Spread Lens
SFL - Soft Focus Lens
HEX - Hex Louver
SNT - Snoot

Accessories (Optional Optics Kit)
K1 - (1) 25°, (1) 40°, (1) 55° lens kit

REFER TO SPECIFICATION SHEETS FOR ALL TECHNICAL NOTES, EXCEPTIONS, AND THE LATEST INFORMATION.
IES FILES FOR ALL OPTICS, LOUVERS, LENSES, AND SNOOTS AVAILABLE ONLINE.

Two head RSA-MRZ

Shown:
Flange Trim
Black Housing/ Black Trim



Technical specifications

Series
MRZ - Multi-Head Integral LED Head

Size
2 - 2 Head Integral LED

Mounting
REC - Recessed

Trim Type
FLN - Flanged
MUD - Mud In

Light Level/Head (@ 4000K and 80 CRI)
1 - 700 Lumens @ 7W
2 - 900 Lumens @ 9W
3 - 1300 Lumens @ 12W
4 - 1700 Lumens @ 16W

Color Temp./Wattage
L27 - 2700K
L30 - 3000K
L35 - 3500K
L40 - 4000K

CRI
80
97

Beam Angle
NFL - 25° Narrow Flood
FL - 40° Flood
WFL - 55° Wide Flood

Voltage
UNV - 120 - 277V

Finish
W - White housing/white trim
B - Black housing/black trim
BW - Black housing/white trim

Drivers
STD - Standard 0-10V (10%-100%)
ELV - Electronic Low Voltage Dimming
HCD - 0-10V (1%-100%)
DCD - 0-10V (0.1%-100%)
5LT - Fifth Light DALI
5LTHD - Fifth Light DALI (1-100%)
LUE - Lutron Ecosystem (1-100%)
LUL - Lutron 3-Wire Line Voltage (1-100%)
LU5 - Lutron Ecosystem (5-100%)
LUH - Lutron H-Series Ecosystem (1-100% Fade to Black)

Integral Control
LWIPD1 - LumaWatt Pro Integral Wireless Sensor
SWPD1 - WaveLinx Integral Wireless Senor

Options
REM - Remote Emergency Battery
CP - Chicago Plenum
BF - Butterfly Brackets
LSL - Linear Spread Lens
SFL - Soft Focus Lens
HEX - Hex Louver
SNT - Snoot

Accessories
K1 - (1) 25°, (1) 40°, (1) 55° lens kit
K2 - (2) 25°, (2) 40°, (2) 55° lens kit

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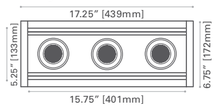
IES FILES FOR ALL OPTICS, LOUVERS, LENSES, AND SNOOTS AVAILABLE ONLINE.

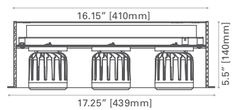
Three head RSA-MRZ

Shown:
Mud-In Trim
White Housing/ White Trim

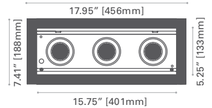
Flange Trim - Top View



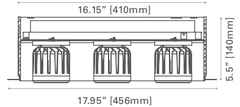
Section View



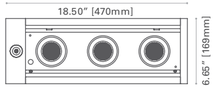
Mud-In Trim



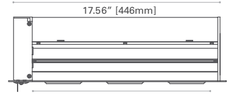
Section View



Sensor Trim



Side View



Technical specifications

Series
MRZ - Multi-Head Integral LED Head

Size
3 - 3 Head Integral LED

Mounting
REC - Recessed

Trim Type
FLN - Flanged
MUD - Mud In

Light Level/Head (@ 4000K and 80 CRI)
1 - 700 Lumens @ 7W
2 - 900 Lumens @ 9W
3 - 1300 Lumens @ 12W
4 - 1700 Lumens @ 16W

Color Temp./Wattage
L27 - 2700K
L30 - 3000K
L35 - 3500K
L40 - 4000K

CRI
80
97

Beam Angle
NFL - 25° Narrow Flood
FL - 40° Flood
WFL - 55° Wide Flood

Voltage
UNV - 120 - 277V
347 - 347V

Finish
W - White housing/white trim
B - Black housing/black trim
BW - Black housing/white trim

Drivers
STD - Standard 0-10V (10%-100%)
ELV - Electronic Low Voltage Dimming
HCD - 0-10V (1%-100%)
DCD - 0-10V (0.1%-100%)
5LT - Fifth Light DALI
5LTHD - Fifth Light DALI (1-100%)
LUE - Lutron Ecosystem (1-100%)
LUL - Lutron 3-Wire Line Voltage (1-100%)
LU5 - Lutron Ecosystem (5-100%)
LUH - Lutron H-Series Ecosystem (1-100% Fade to Black)

Integral Control
LWIPD1 - LumaWatt Pro Integral Wireless Sensor
SWPD1 - WaveLinx Integral Wireless Senor

Options
REM - Remote Emergency Battery
CP - Chicago Plenum
BF - Butterfly Brackets
LSL - Linear Spread Lens
SFL - Soft Focus Lens
HEX - Hex Louver
SNT - Snoot

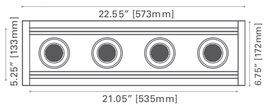
Accessories
K1 - (1) 25°, (1) 40°, (1) 55° lens kit
K2 - (2) 25°, (2) 40°, (2) 55° lens kit
K3 - (3) 25°, (3) 40°, (3) 55° lens kit

REFER TO SPECIFICATION SHEETS FOR ALL TECHNICAL NOTES, EXCEPTIONS, AND THE LATEST INFORMATION.
IES FILES FOR ALL OPTICS, LOUVERS, LENSES, AND SNOOTS AVAILABLE ONLINE.

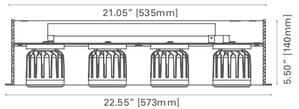
Four head RSA-MRZ

Shown:
Flange Trim
Black Housing/ White Trim

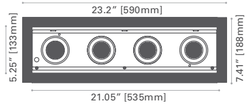
Flange Trim - Top View



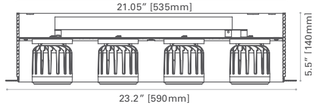
Section View



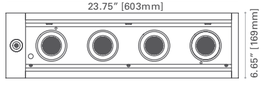
Mud-In Trim



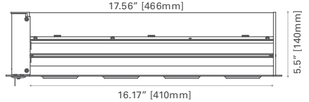
Section View



Sensor Trim



Side View



Technical specifications

Series
MRZ - Multi-Head Integral LED Head

Size
4 - 4 Head Integral LED

Mounting
REC - Recessed

Trim Type
FLN - Flanged
MUD - Mud In

Light Level/Head (@ 4000K and 80 CRI)
1 - 700 Lumens @ 7W
2 - 900 Lumens @ 9W
3 - 1300 Lumens @ 12W
4 - 1700 Lumens @ 16W

Color Temp./Wattage
L27 - 2700K
L30 - 3000K
L35 - 3500K
L40 - 4000K

CRI
80
97

Beam Angle
NFL - 25° Narrow Flood
FL - 40° Flood
WFL - 55° Wide Flood

Voltage
UNV - 120 - 277V
347 - 347V

Finish
W - White housing/white trim
B - Black housing/black trim
BW - Black housing/white trim

Drivers
STD - Standard 0-10V (10%-100%)
ELV - Electronic Low Voltage Dimming
HCD - 0-10V (1%-100%)
DCD - 0-10V (0.1%-100%)
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SWPD1 - WaveLinx Integral Wireless Senor

Options
REM - Remote Emergency Battery
CP - Chicago Plenum
BF - Butterfly Brackets
LSL - Linear Spread Lens
SFL - Soft Focus Lens
HEX - Hex Louver
SNT - Snoot

Accessories
K1 - (1) 25°, (1) 40°, (1) 55° lens kit
K2 - (2) 25°, (2) 40°, (2) 55° lens kit
K3 - (3) 25°, (3) 40°, (3) 55° lens kit
K4 - (4) 25°, (4) 40°, (4) 55° lens kit

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Lighting Product Lines

Ametrix
AtLite
Corelite
Ephesus
Fail-Safe
Halo
Halo Commercial
Invue
io
Iris
Lumark
Lumière
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Metalux
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Neo-Ray
Portfolio
RSA
Shaper
Streetworks
Sure-Lites

Controls Product Lines

Fifth Light Technology
Greengate
iLight (International Only)
iLumin
Zero 88

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HALO Home
iLumin Plus
Enlighted
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www.cooperlighting.com

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Mississauga, Ontario L5R 1B8
P: 905-501-3000
F: 905-501-3172

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