



HID to LED Upgrade Kits



LED UPGRADE KITS



*What if we could fragment the HID arc tube?
And control each individually?
And aim each one?*

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KIM LIGHTING

Kim Lighting is known throughout the world as the premier designer and manufacturer of quality, high performance, and architecturally relevant outdoor lighting solutions. Kim Lighting is a division of Hubbell Lighting, Inc.



"Meeting the needs of the present without compromising the ability of the future generations to meet their own needs." - United States, EPA definition



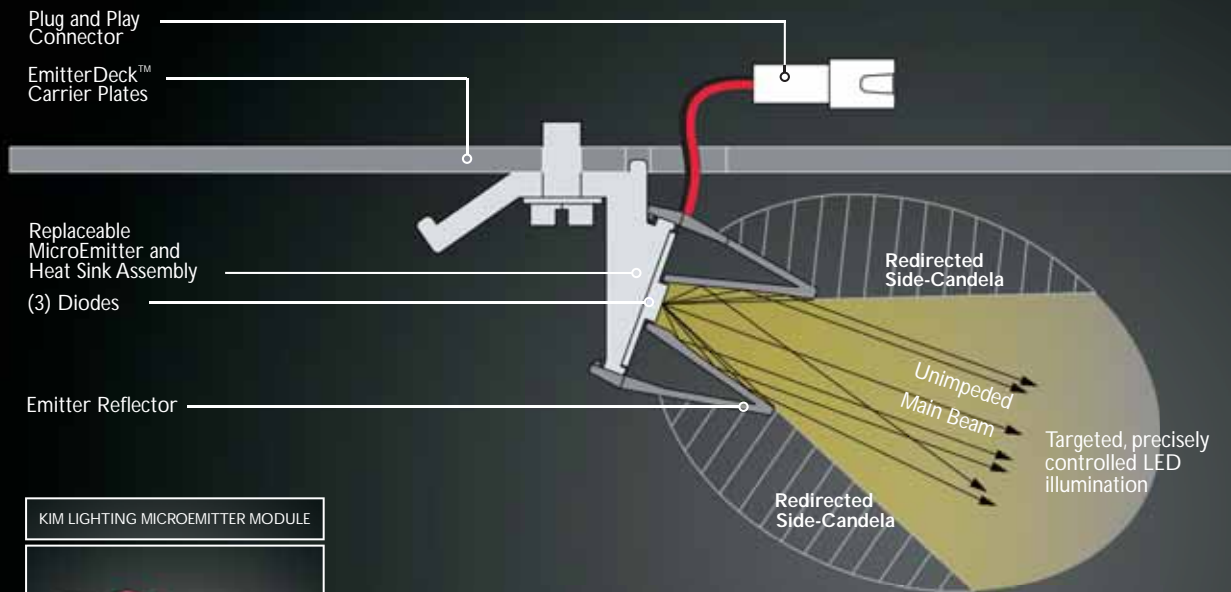
Ultimate Sustainable Solutions

SUSTAINABILITY (sus-tain-a-bil-i-ty) *noun - The capacity to maintain, support, endure and remain productive over time.*

- Reduces energy consumption up to 50% compared to original HID source
- Maintains architectural relevance, application integrity and extends asset value
- 0-10V dimming interface, allowing 0-100% illumination output options
- Full palette of lighting distributions and color temperatures to match existing installations
- EmitterDeck™ can be replaced as LED technology advances
- Preserves applicable UL/CSA/ETL product listing and manufacturer's warranty
- Compatible driver options for renewable energy systems
- Includes exclusive +1 Guarantee housing extended warranty
- Qualifies for many rebates and tax incentives

This is LED lighting perfection. This is Kim Lighting.

MicroEmitter™ Optics



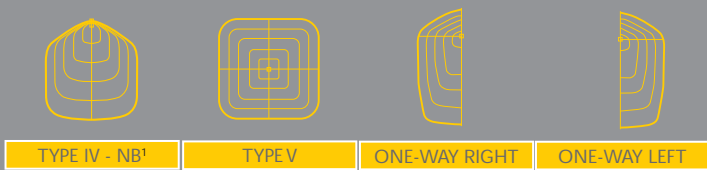
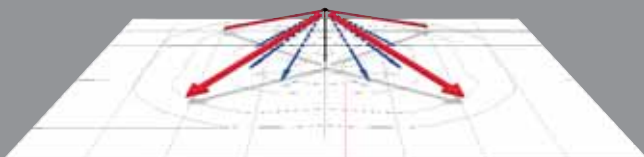
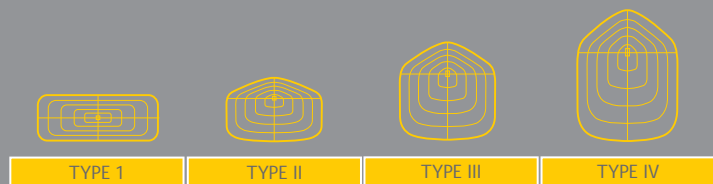
KIM LIGHTING MICROEMITTER MODULE



PATENT PENDING

Distribution Flexibility

Kim Lighting's MicroEmitter™ Reflector Module optical technology opens new possibilities and redefines the science of light distribution patterns. MicroEmitters allow for a full palette of IES Type I, II, III, IV and V distributions to achieve a more precise match to existing installations in placing light where it is needed. One-way and custom distributions also available.

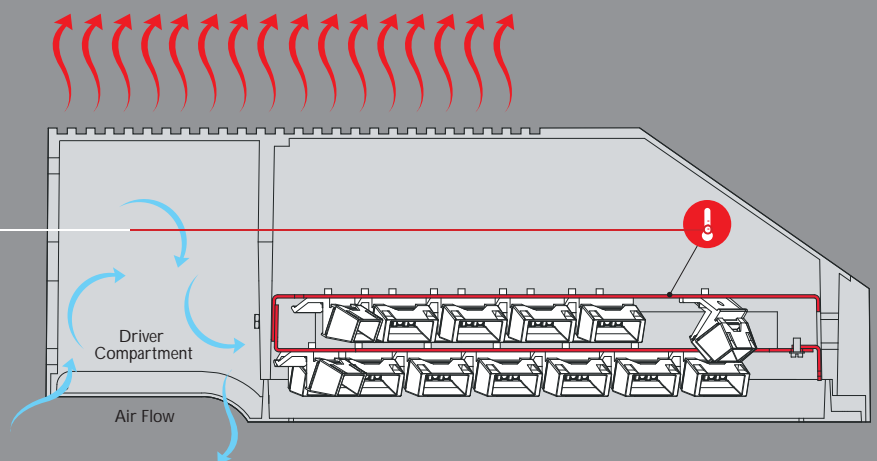


¹TYPE IV-NB IS ONLY AVAILABLE FOR WARP9 LED

Preserving Diode Life and Performance

Dual Heat Management with LifeShield® Protection System

The natural heat sink of the aluminum housing is augmented by the use of conduction and convection to disperse heat away from the diodes. To maintain lumen performance, each luminaire employs the exclusive LifeShield Temperature Control System to minimize lumen depreciation in extreme and fluctuating environmental conditions.



Sustainable Attributes



One-piece silicone gasket



Reliability, Longevity and Integrity

For over seven decades, Kim Lighting has manufactured the most reliable housings available. Kim luminaire housings are produced with solid die-cast, low copper alloy (<0.6%) aluminum for superior durability. One piece silicone gaskets achieve an IP66 rated optical compartment and assure lens integrity over time. Kim Lighting only uses the finest stainless steel hardware to properly secure all components within the housing, and provides safe pole attachment durability in extreme weather conditions.

Kim Lighting's state-of-the-art powder coat paint system is engineered to provide the highest quality finish with absolute paint adhesion over years. For over the past two decades, Kim Lighting's Super TGIC finish has exceeded the ANSI B117 salt fog test, enduring over 2500 hours without failure.

Kim Lighting's LED Upgrade Kit solution preserves the original luminaire construction attributes, maintains architectural relevance, avoids landfill dumping, prolongs your asset value and creates the ultimate sustainable solution.

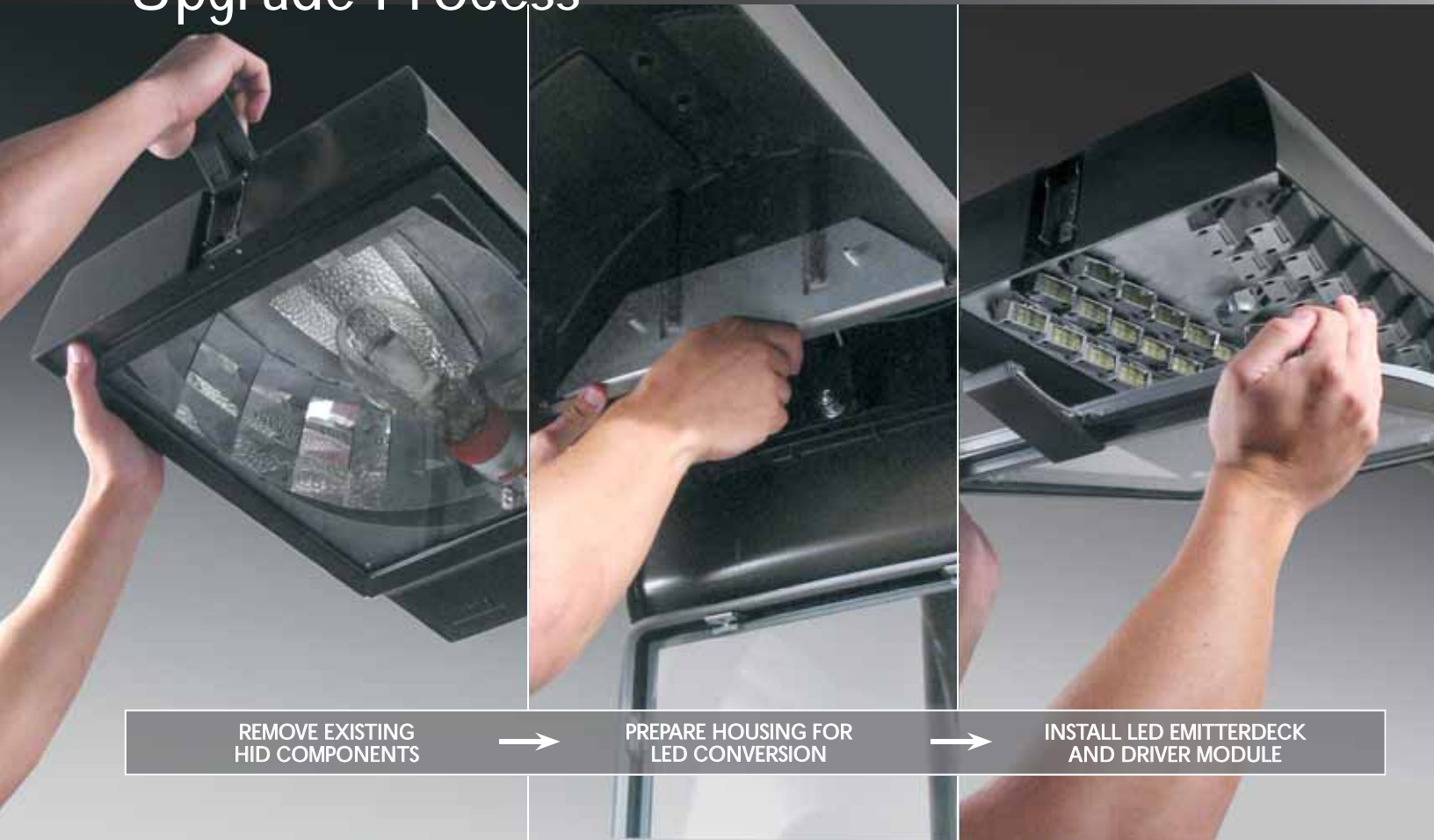


Stainless Steel Hardware



Super TGIC finish

Upgrade Process



Upgrading to a MicroEmitter LED System

Kim's Upgrade Kit installs in just minutes, providing a value-added upgrade solution. As a Kim Lighting product, the upgrade kit preserves the applicable UL/CSA/ETL listing of the product and its warranty... something third party retrofits cannot do.

Visit www.kimlighting.com or contact your sales representative for photometric data or more information.



Serve your community by recycling your HID components (reflector, ballast and lamp) at your local collection agency. For lamp disposals, visit www.lamprecycle.org.

LED UPGRADE KIT WITH DRILLED TEMPLATES



WARP9®, Structural, Archetype®, Wall Director® (Shown)

LED UPGRADE KIT WITHOUT DRILLED TEMPLATES



Curvilinear, Era® (Shown)

The Archetype® / SAR-LED-KIT / AR-LED-KIT

Scan code to view
The Archetype HID to
LED upgrade video



ORDERING EXAMPLE: AR-LED-KIT / 120L5K240

ORDERING INFORMATION

Catalog Number	Distribution ¹	No. of LED Diodes	Color Temp ²	Voltage
SAR-LED-KIT	2 / 3 / 4 / 5 / L / R	60L	3K / 5K / 2K	120 / 208 / 240 / 277 / 347 / 480
AR-LED-KIT	2 / 3 / 4 / 5 / L / R	120L	3K / 5K / 2K	120 / 208 / 240 / 277 / 347 / 480

¹2 = Type II, 3 = Type III, 4 = TYPE IV, 5 = TYPE V, L = ONE WAY LEFT, R = ONE WAY RIGHT

²3K = 3500K, 5K = 5100K, 2K = 580nm. 4300K and 6500K are also available on an Engineered-To-Order (ETO) basis

APPLICATION COMPARISON

Catalog Number	Input Watts	Avg. FC	Max. FC	Min. FC	Avg. to Min.	Max. to Min.
AR-LED-KIT	140	2.25	3.75	1.06	2.12:1	3.57:1
AR-250PMH	291	3.82	6.30	1.35	2.83:1	4.67:1

ENERGY SAVINGS:
+50%

Criteria:

Type III distribution. Mounting height is 20', street width is 35', and spacing is 100'.
10' grid dimension shown. Luminaires are staggered on each side of the street.
Mean lumens and photopic equipment were used for this data.

HID
OPTIC

LED
OPTIC

3.37 4.46 5.29 5.33 5.20 4.94

1.45 2.18 3.29 3.78 3.78 3.54

Structural / STS-LED-KIT / STL-LED-KIT



ORDERING EXAMPLE: STS-LED-KIT5 / 60L5K240

ORDERING INFORMATION

Catalog Number	Distribution ¹	No. of LED Diodes	Color Temp ²	Voltage
STS-LED-KIT	2 / 3 / 4 / 5 / L / R	60L	3K / 5K / 2K	120 / 208 / 240 / 277 / 347 / 480
STL-LED-KIT	2 / 3 / 4 / 5 / L / R	120L	3K / 5K / 2K	120 / 208 / 240 / 277 / 347 / 480

¹2 = Type II, 3 = Type III, 4 = TYPE IV, 5 = TYPE V, L = ONE WAY LEFT, R = ONE WAY RIGHT

²3K = 3500K, 5K = 5100K, 2K = 580nm. 4300K and 6500K are also available on an Engineered-To-Order (ETO) basis

APPLICATION COMPARISON

Catalog Number	Input Watts	Avg. FC	Max. FC	Min. FC	Avg. to Min.	Max. to Min.
STL-LED-KIT	140	2.25	3.75	1.06	2.12:1	3.57:1
STL-250PMH	291	3.82	6.30	1.35	2.83:1	4.67:1

ENERGY SAVINGS:
+50%

Criteria:

Type III distribution. Mounting height is 20', street width is 35', and spacing is 100'. 10' grid dimension shown. Luminaires are staggered on each side of the street. Mean lumens and photopic equipment were used for this data.

HID
OPTIC

LED
OPTIC

3.37 4.46 5.29 5.33 5.20 4.94

1.45 2.18 3.29 3.78 3.78 3.54

WARP9® / WP9S-LED-KIT / WP9L-LED-KIT



ORDERING EXAMPLE: WP9S-LED-KIT1 / 60L5K240
1 2

ORDERING INFORMATION

Catalog Number	Distribution ¹	No. of LED Diodes	Color Temp ²	Voltage
WP9S-LED-KIT	1 / 2 / 3 / 4 / 4NB / 5 / L / R	60L	3K / 5K / 2K	120 / 208 / 240 / 277 / 347 / 480
WP9L-LED-KIT	1 / 2 / 3 / 4 / 4NB / 5 / L / R	120L	3K / 5K / 2K	120 / 208 / 240 / 277 / 347 / 480

¹1 = Type I, 2 = Type II, 3 = Type III, 4 = TYPE IV, 4NB = TYPE IV, No Backlight, 5 = TYPE V, L = ONE WAY LEFT, R = ONE WAY RIGHT
²3K = 3500K, 5K = 5100K, 2K = 580nm. 4300K and 6500K are also available on an Engineered-To-Order (ETO) basis

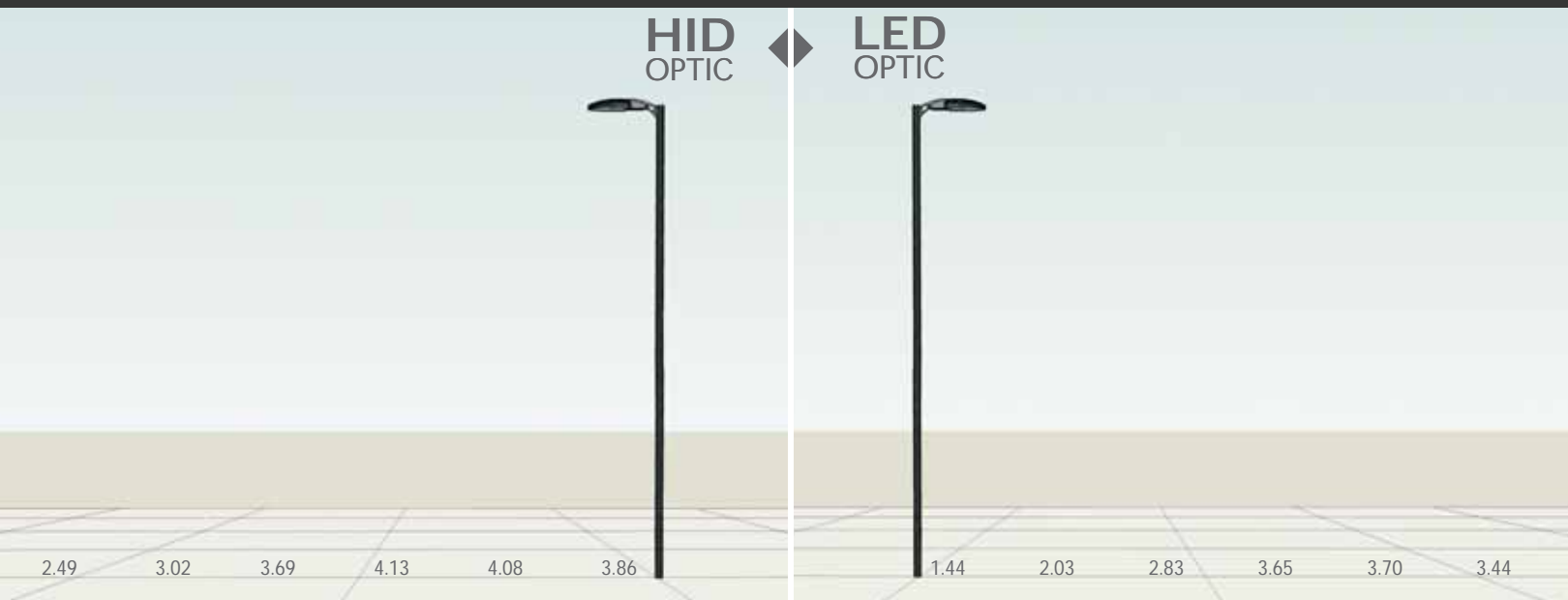
APPLICATION COMPARISON

Catalog Number	Input Watts	Avg. FC	Max. FC	Min. FC	Avg. to Min.	Max. to Min.
WP9L-LED-KIT	140	2.08	3.70	1.01	2.06:1	3.66:1
WP9L-250PMH	291	3.06	5.07	0.99	3.09:1	5.12:1

ENERGY SAVINGS:
+50%

Criteria:

Type III distribution. Mounting height is 25', street width is 40', and spacing is 115'.
 10' grid dimension shown. Luminaires are staggered on each side of the street.
 Mean lumens and photopic equipment were used for this data.



Era® / RA17-LED-KIT / RA25-LED-KIT



Scan code to view
Era HID to LED
upgrade video



ORDERING EXAMPLE: RA17-LED-KIT3 / 60L5K240

1 2

ORDERING INFORMATION

Catalog Number	Distribution ¹	No. of LED Diodes	Color Temp ²	Voltage
RA17-LED-KIT	1 / 2 / 3 / 4 / 5 / L / R	60L	3K / 5K / 2K	120 / 208 / 240 / 277 / 347 / 480
RA25-LED-KIT	1 / 2 / 3 / 4 / 5 / L / R	120L	3K / 5K / 2K	120 / 208 / 240 / 277 / 347 / 480

¹1 = Type I, 2 = Type II, 3 = Type III, 4 = TYPE IV, 5 = TYPE V, L = ONE WAY LEFT, R = ONE WAY RIGHT

²3K = 3500K, 5K = 5100K, 2K = 580nm. 4300K and 6500K are also available on an Engineered-To-Order (ETO) basis

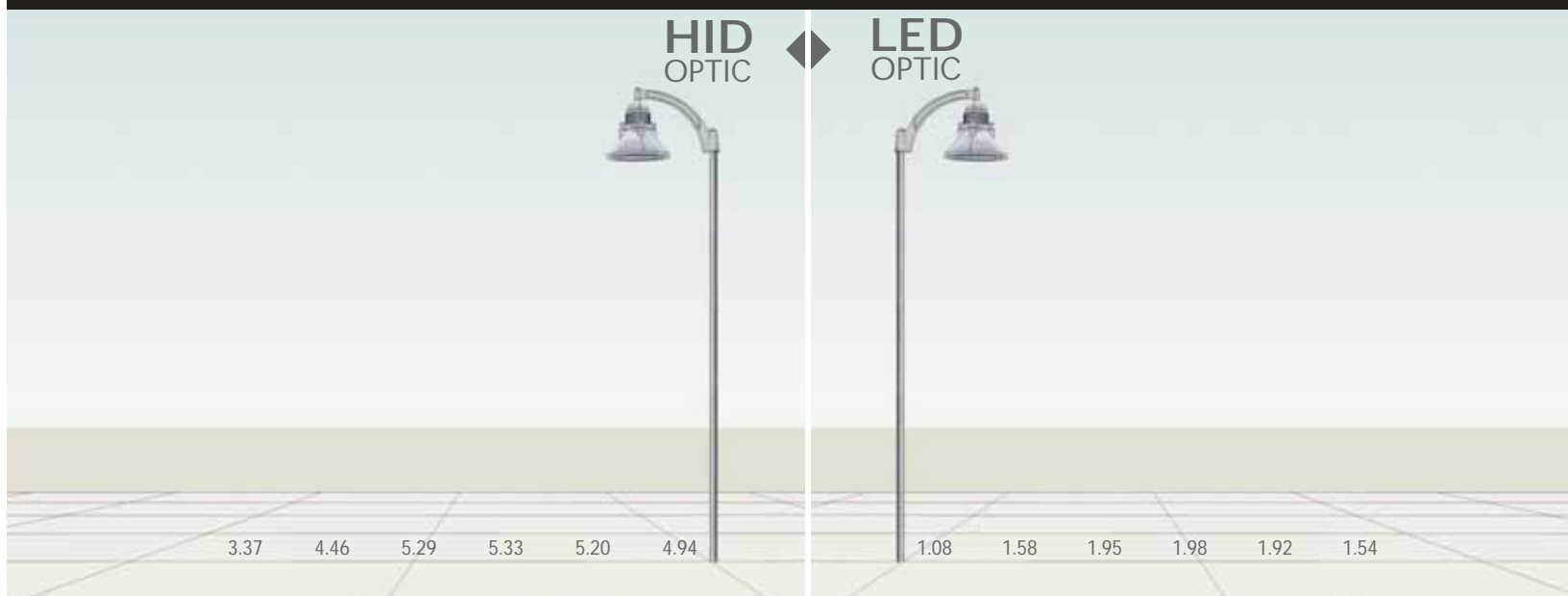
APPLICATION COMPARISON

Catalog Number	Input Watts	Avg. FC	Max. FC	Min. FC	Avg. to Min.	Max. to Min.
RA25-LED-KIT	132	1.14	2.23	.57	2.01:1	3.91:1
RA25-250PMH	291	3.82	6.30	1.35	2.83:1	4.67:1

**ENERGY
SAVING
+50%**

Criteria:

Type III distribution. Mounting height is 20', street width is 35', and spacing is 100'.
10' grid dimension shown. Luminaires are staggered on each side of the street.
Mean lumens and photopic equipment were used for this data.



Era[®] Bell / Era[®] Acorn / BE17-LED-KIT / BE21-LED-KIT / AE17-LED-KIT / AE21-LED-KIT



Era Acorn
AE17, AE21

Era Bell
BE17, BE21

Scan code to view
Era Bell HID to LED
upgrade video



ORDERING EXAMPLE: AE17-LED-KIT5 / 60L5K240
1 2

ORDERING INFORMATION

Catalog Number	Distribution ¹	No. of LED Diodes	Color Temp ²	Voltage
AE17-LED-KIT / BE17-LED-KIT	1 / 2 / 3 / 4 / 5 / L / R	60L	3K / 5K / 2K	120 / 208 / 240 / 277 / 347 / 480
AE21-LED-KIT / BE21-LED-KIT	1 / 2 / 3 / 4 / 5 / L / R	120L	3K / 5K / 2K	120 / 208 / 240 / 277 / 347 / 480

¹ 1 = Type I, 2 = Type II, 3 = Type III, 4 = TYPE IV, 5 = TYPE V, L = ONE WAY LEFT, R = ONE WAY RIGHT
² 3K = 3500K, 5K = 5100K, 2K = 580nm. 4300K and 6500K are also available on an Engineered-To-Order (ETO) basis

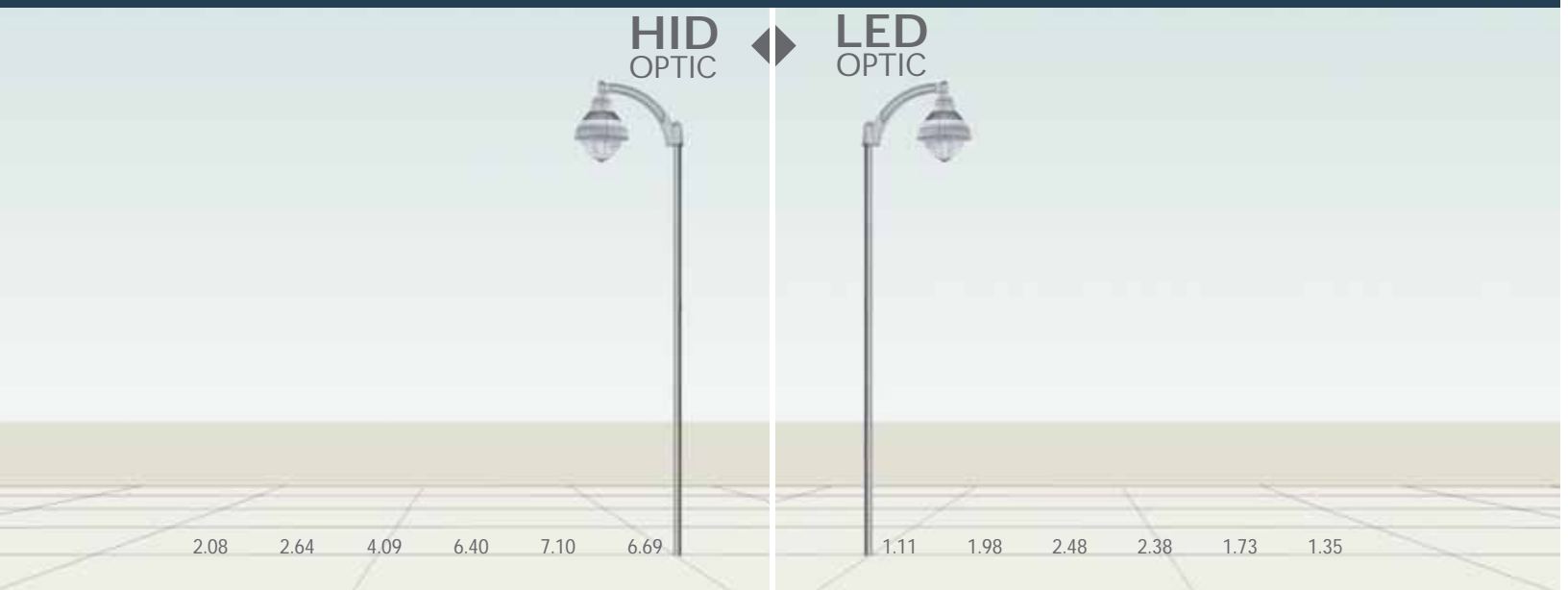
APPLICATION COMPARISON

Catalog Number	Input Watts	Avg. FC	Max. FC	Min. FC	Avg. to Min.	Max. to Min.
AE21-LED-KIT	133	2.19	2.91	1.11	1.97:1	2.62:1
AE21-250PMH	291	4.79	7.90	1.62	2.96:1	4.88:1

ENERGY SAVINGS:
+50%

Criteria:

Type III distribution. Mounting height is 20', street width is 35', and spacing is 100'.
 10' grid dimension shown. Luminaires are staggered on each side of the street.
 Mean lumens and photopic equipment were used for this data.



Curvilinear / CC17-LED-KIT / CC21-LED-KIT



Scan code to view
Curvilinear HID to
LED upgrade video



ORDERING EXAMPLE: CC17-LED-KIT5 / 60L5K240

ORDERING INFORMATION

Catalog Number	Distribution ¹	No. of LED Diodes	Color Temp ²	Voltage
CC17-LED-KIT	1 / 2 / 3 / 4 / 5 / L / R	60L	3K / 5K / 2K	120 / 208 / 240 / 277 / 347 / 480
CC21-LED-KIT	1 / 2 / 3 / 4 / 5 / L / R	120L	3K / 5K / 2K	120 / 208 / 240 / 277 / 347 / 480

¹1 = Type I, 2 = Type II, 3 = Type III, 4 = TYPE IV, 5 = TYPE V, L = ONE WAY LEFT, R = ONE WAY RIGHT
²3K = 3500K, 5K = 5100K, 2K = 580nm. 4300K and 6500K are also available on an Engineered-To-Order (ETO) basis

APPLICATION COMPARISON

Catalog Number	Input Watts	Avg. FC	Max. FC	Min. FC	Avg. to Min.	Max. to Min.
CC21-LED-KIT	132	1.14	2.23	.57	2.02:1	3.91:1
CC21-250PMH	291	3.82	6.30	1.35	2.83:1	4.67:1

ENERGY SAVINGS:
+50%

Criteria:

Type III distribution. Mounting height is 20', street width is 35', and spacing is 100'.
10' grid dimension shown. Luminaires are staggered on each side of the street.
Mean lumens and photopic equipment were used for this data.

HID
OPTIC

LED
OPTIC

3.37 4.46 5.29 5.33 5.20 4.94

1.12 1.77 2.08 2.21 2.19 1.76

Solitaire/ SRS1-LED-KIT



ORDERING EXAMPLE: SRS1-LED-KIT5 / 60L5K240
1 2

ORDERING INFORMATION

Catalog Number	Distribution ¹	No. of LED Diodes	Color Temp ²	Voltage
SRS1-LED-KIT	1 / 2 / 3 / 4 / 5 / L / R	60L	3K / 5K / 2K	120 / 208 / 240 / 277 / 347 / 480

¹1 = Type I, 2 = Type II, 3 = Type III, 4 = TYPE IV, 5 = TYPE V, L = ONE WAY LEFT, R = ONE WAY RIGHT
²3K = 3500K, 5K = 5100K, 2K = 580nm. 4300K and 6500K are also available on an Engineered-To-Order (ETO) basis

APPLICATION COMPARISON

Catalog Number	Input Watts	Avg. FC	Max. FC	Min. FC	Avg. to Min.	Max. to Min.
SRS1-LED-KIT	71	4.4	6.45	3.2	1.38:1	2.02:1
100 PMH	129	6.35	9.5	2.57	2.47:1	3.70:1

ENERGY SAVINGS:
+40%

Criteria:

Mounting height is 12', on a walkway width of 12', and spacing is 60' apart.
 Luminaire are staggered on each side of the walkway.
 Mean lumens and photopic equipment were used for this data.

HID
OPTIC



LED
OPTIC



Wall Director® / WD14-LED-KIT / WD18-LED-KIT



Scan code to view
Wall Director HID to
LED upgrade video



ORDERING EXAMPLE: WD18-LED-KIT3 / 120L5K240

ORDERING INFORMATION

Catalog Number	Distribution ¹	No. of LED Diodes	Color Temp ²	Voltage
WD14-LED-KIT	2 / 3 / 4	60L	3K / 5K / 2K	120 / 208 / 240 / 277 / 347 / 480
WD18-LED-KIT	2 / 3 / 4	120L	3K / 5K / 2K	120 / 208 / 240 / 277 / 347 / 480

¹2 = Type II, 3 = Type III, 4 = TYPE IV

²3K = 3500K, 5K = 5100K, 2K = 580nm. 4300K and 6500K are also available on an Engineered-To-Order (ETO) basis

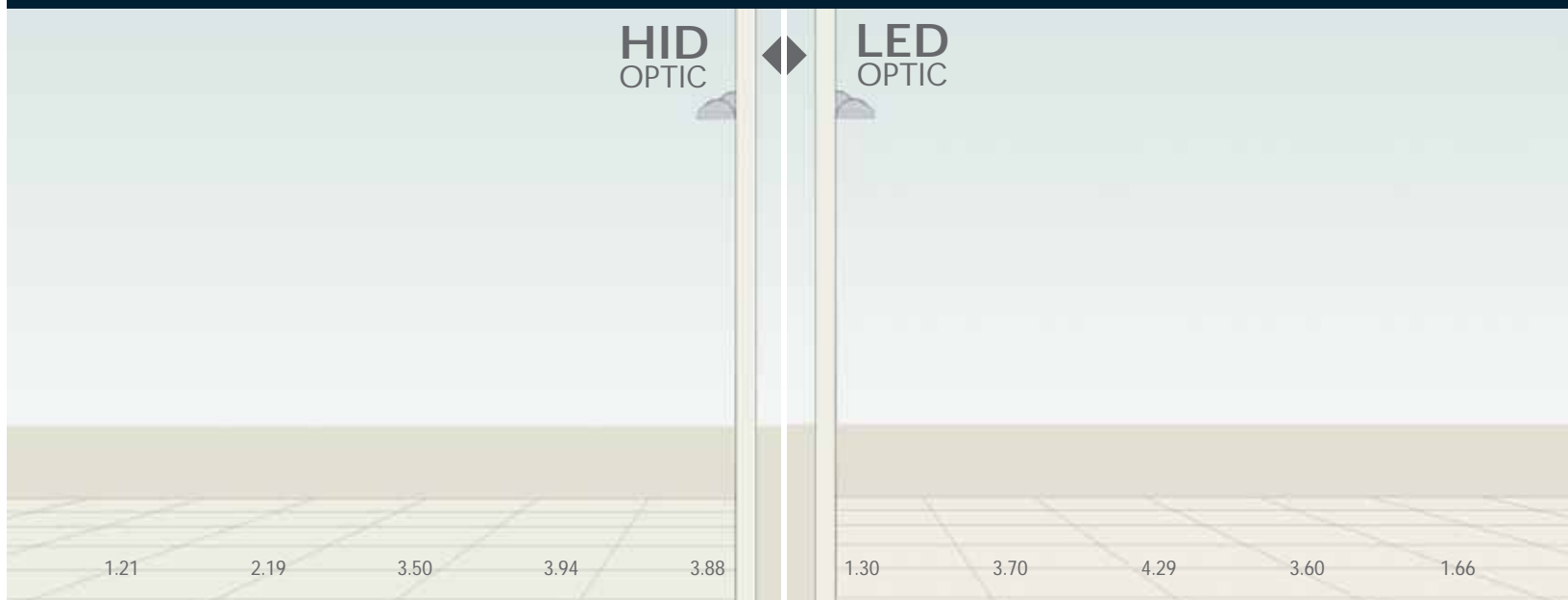
APPLICATION COMPARISON

Catalog Number	Input Watts	Avg. FC	Max. FC	Min. FC	Avg. to Min.	Max. to Min.
WD18-LED-KIT	140	2.07	4.41	1.21	1.71:1	3.64:1
WD18-250PMH	291	2.92	4.39	1.21	2.42:1	3.63:1

**ENERGY
SAVINGS:
+50%**

Criteria:

Type III distribution. Mounting height is 20', and spacing is 80'.
5' grid dimension shown. Mean lumens and photopic equipment were used for this data.



HID to LED Upgrade Kits

Specifications

ELECTRONIC MODULE: All electrical components are UL recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Module includes driver, surge protector and LifeShield® Temperature Control System. Electrical module attaches to housing with hinges and latches, accessible by opening the lens frame only. Driver is rated for -40°F starting and has a 0-10V dimming interface for multi-level illumination options.

OPTICAL MODULE: Precision, replaceable MicroEmitter™ Reflector Modules are positioned to achieve directional control toward desired task. The entire EmitterDeck fastens to the housing as a one-piece module.

WARRANTY: Kim Lighting warrants LED Upgrade Kit products ("Product(s)") sold by Kim Lighting to be free from defects for (i) a period of six (6) years for LED Light Engines (MicroEmitters), (ii) a period of five (5) years for LED power components (LED Driver, LifeShield Device, Surge Protector), and (iii) for a period of one (1) year for the re-used metal housing components of the existing luminaire from the date of sale of the LED Upgrade Kit to the buyer as specified in Kim Lighting shipment documents for each Product(s). Conditions and limitations of the re-used metal housing component warranty apply. See spec sheets and installation instructions for complete warranty provisions.

CAUTION: Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.



Kim Lighting offers an exclusive "plus one" guarantee on any LED housing that is upgraded with a new Kim Lighting LED EmitterDeck. Customers will enjoy an additional 1-year housing warranty, free of charge.¹

¹Participation rules apply. See complete warranty provisions for further details.

Additional Kim Lighting Premium LED Families



WARP9® LED
SITE / ROADWAY



Structural LED
SITE / ROADWAY



The Archetype® LED
SITE / ROADWAY



Era® LED
SITE / ROADWAY



Era® Bell/Era® Acorn LED
SITE / ROADWAY



Solitaire LED
SITE / ROADWAY



Curvilinear LED
SITE / ROADWAY



Wall Director® LED
WALL MOUNTED



PGL7 LED
PARKING STRUCTURE



All Inclusive LED
LANDSCAPE COLLECTION