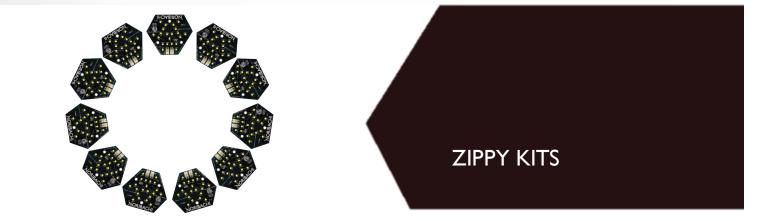
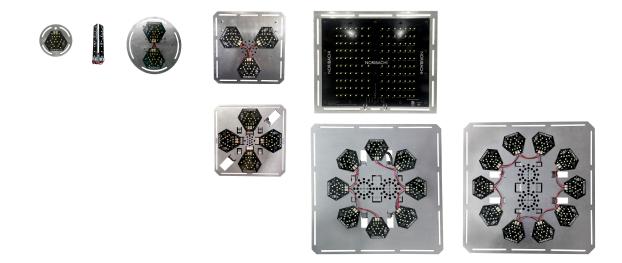
NORIBACHI



NORIBACHI PRODUCT FAMILY BROCHURE





Zippy Kits! are an industry-leading retrofit solution. These are the only retrofit kits available on the market that comply with UL standard 1598 out of the box. They come in high lumen packages and are a one for one replacement with HID, MH or HPS bulbs. **Available in 72 Hours! Free Shipping!**

Zippy Kits! Highlights:

- L70 rated at +100,000 hours
- CRI 70 minimum
- Operating temp: -40°C to +60°C
- Non-toxic chemical/ROHS compliant
- ETL certified, meets UL and CSA safety standards
- Manufactured in the US
- Up to 140 LPW
- No UV or IR
- Mercury free, lead free

Ordering:

- Available in 72 hours
- Free shipping

Electrical Characteristics:

- Standard AC input 120/277V
- EMI: Compliance to EN61000-4-2,3,4,5,6,8,11
- FCC Title 47, Part 2, Part 15, Class A
- Power factor: >0.9
- Total harmonic distortion: <20%

Warranty:

- 5-year manufacturer's warranty
- First year includes labor
- Optional I0-year manufacturer's warranty
- U.S. manufacturing and quality control

Appearance:

- High lumen packages: 4862 47,463 lumens
- 5700 (CW) LEDs standard
- LED light engine mounted on sturdy aluminum plate
- Magic tabs ensure flexible mounting options
- Also includes wire connectors, fastening hardware, spacers and zip-ties for easy installation
- I 20 degree beam angle standard

Light Engine Upgrades:

- Neutral white or warm white LEDs
- RGBW options
- Tight bins
- 40 and 80 degree beam angle optics

Electrical Upgrades:

- Wireless networking and controls
- Enhanced surge protection
- 0-10V, step, line voltage and bi-level dimming
- Occupancy sensor
- Photocell
- Daylight harvesting sensor
- Emergency battery backup
- 6' or 10' SO cord with twist lock plugs

At-A-Glance

Order Code	Lumens	Watts	Voltage	Color Temp	Replaces
ZIPPY-021	4,862	35	120 - 277VAC	5700K (cool white)	100-150W
ZIPPY-024	5,557	40	120 - 277VAC	5700K (cool white)	90-185W
ZIPPY-042	9,724	69	120 - 277VAC	5700K (cool white)	200-250W
ZIPPY-063	14,586	104	120 - 277VAC	5700K (cool white)	250-400W
ZIPPY-084	19,448	139	120 - 277VAC	5700K (cool white)	400-500W
ZIPPY-140	30,870	221	120 - 277VAC	5700K (cool white)	700-I000W
ZIPPY-168	37,970	271	120 - 277VAC	5700K (cool white)	750-1250W
ZIPPY-210	47,463	339	120 - 277VAC	5700K (cool white)	1000-1500W

Physical Dimensions							
	MountingPlate	Mounting	Voltage			Weight	Shipping
Order Code	Dimensions	Plate Shape	Length	Width	Depth	(lbs.)	Weight (lbs.)
ZIPPY-021	5.25" dia.	circle	5.25" - 13"	5.25" - 13"	3" (min)	1.06	2.81
ZIPPY-024	2" dia.	cob	3" (min)	3" (min)	8" (min)	1.71	3.48
ZIPPY-042	9" dia.	circle	9" - 24"	9" - 24"	3" (min)	1.62	3.38
ZIPPY-063	11"W x 11"L	square	11.25" - 33"	11.25" - 33"	4" (min)	3.86	5.65
ZIPPY-084	11"W x 11"L	square	11.25" - 33"	11.25" - 33"	4" (min)	3.94	5.74
ZIPPY-140	12.75"W x 15.5"L	rectangle	5.75" - 42.75"	15.75" - 42.75"	5" (min)	5.73	7.54
ZIPPY-168	20" W x 20" L	square	20" - 60"	20" - 60"	5" (min)	8.72	11.91
ZIPPY-210	20" W x 20" L	square	20" - 60"	20" - 60"	9.5" (min)	8.77	11.95

Application	Applications									
Order Code	Common Replacements for:	Arealights	Bollard	Canopy	Cans	Cobraheads	Downlights	Floodlights	Post tops	Wallpacks
ZIPPY-021	I 00W MH, I 50W HPS	×	×	×	×	x	x	x	x	x
ZIPPY-024	90W MH, 185W HPS	x	×						x	
ZIPPY-042	200W MH, 250W HPS	x		×	х	x	x	x	x	x
ZIPPY-063	250 - 400W MH	x		x	х	x	x	x	x	x
ZIPPY-084	400 - 500W MH	x			х	x	x	x	x	x
ZIPPY-140	700 - 1000W MH	x		×				x	x	
ZIPPY-168	750 - I 250W MH	x						x	x	
ZIPPY-210	1000 - 1500W MH	x						x	x	



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ZIPPY-021



ZIPPY-021 is ideal for interior can lights as well as any location where space is at a premium.

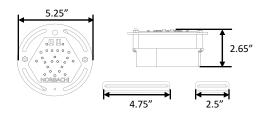


ZIPPY-021









Product Information Product Order Code:

DLC Order Code: Common Replacement: ZIPPY-021-CW-MT L-C-CUS-21-REC-B-CW-MT 100W MH, 150W HPS

The Zippy-021 retrofit kit can be used in Arealight, Bollard, Canopy, Cobrahead, Downlight, Floodlight, Post Top and Wallpack lighting fixtures.

Performance Ratings and Certifications

UL 1598 UL 8750 CSA C22.2#250.0 CSA C22.2#250.13

Performance Summary

Lumens:4,862 lumensLumens Per Watt (Typical):140 LPWPower Consumption:35 WLight Engine:L70 Rated Lifetime of 100,000+ hours.CRI:Minimum 70 CRI. Custom CRI available upon request.CCT (Typical):3000K, 4000K, 5700KManufactured in the U.S. with parts from U.S. and imported.

Fixture Information

Mounting Plate: Mounting: Length: Width: Depth: Weight: Shipping Weight: Aluminum 3003 Universal mounting kit with four 2.5" and four 4.75" magic tabs 5.25" 5.25" 2.65" 1.06 lbs. 2.81 lbs.

Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level

I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P -

I/P-O/P, I/P-FG, O/P-FG:100M Ohms /

PF > 0.98/115VAC, PF > 0.92/277VAC

All-Around Protection: OVP, SCP, OLP.

Protects against surges according to IEEE C62.41.2 C and ANSI C136.2

Optional upgrades available.

Fits Luminaires with Internal Dimensions of

5.25" - 13" 5.25" - 13" 3" (minimum)

Electrical System Characteristics / Data

AC Input: 120/277 VAC (standard), 480 VAC (upgrade) FCC: Title 47, Part 2, Part 15, Class A EM: Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (60% load); EN61000-3-3

FG:1.5KVAC

THD < 20%

(surge 4KV), criteria A

500VDC / 25 / 70% RH

EM Immunity:

Length:

Width: Depth:

Withstand Voltage:

Isolation Resistance:

Power Factor: Total Harmonic Distortion: Standard Surge Protection: Enhanced Surge Protection:

Emergency Batt. Backup:

Optional Controls: Wireless Controls:

Dimming: Daylight Harvesting Sensor: Occupancy Sensor: Optional via Pulse Wireless Mesh Network Standard: 0-10V Optional: step, line voltage or bi-level Optional Optional

Warranty

3-Month Limited Warranty. Optional 5-Year Manufacturer's Warranty Available. Full Warranty Terms Available At www.noribachi.com/products/warranty



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ZIPPY-024

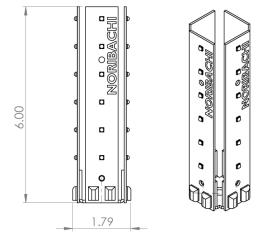


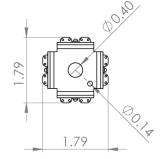
ZIPPY-024 is an easy retrofit for bollards or other cob-style applications.



ZIPPY-024







Product Information Product Order Code:

Common Replacement:

DLC Order Code:

ZIPPY-024-CW-MT L-C-CUS-24-REC-B-CW-MT I 50W MH

The Zippy-024 retrofit kit can be used in Arealight, Bollard and Post Top lighting fixtures.

Performance Ratings and Certifications

UL 1598 UL 8750 CSA C22.2#250.0 CSA C22.2#250.13

Performance Summary

Lumens:5,557 lumensLumens Per Watt (Typical):140 LPWPower Consumption:40 WLight Engine:L70 Rated Lifetime of 100,000+ hours.CRI:Minimum 70 CRI. Custom CRI available upon request.CCT (Typical):3000K, 4000K, 5700KManufactured in the U.S. with parts from U.S. and imported.

Fixture Information

Mounting Plate: Mounting: Length: Width: Depth: Weight: Shipping Weight: Aluminum 3003 Universal mounting kit with 6" all-thread 6.00" not including all-thread 1.79"" 1.79" 1.71 lbs. 3.48 lbs.

Fits Luminaires with Internal Dimensions of

Length:	3" (minimum)
Width:	3" (minimum)
Depth:	8" (minimum)

Electrical System Characteristics / Data AC Input: 120/277 VAC (standard), 480 VAC (upgrade)

AC Input: FCC: EM:

EM Immunity:

Withstand Voltage:

Isolation Resistance:

Power Factor: Total Harmonic Distortion: Standard Surge Protection: Enhanced Surge Protection:

Emergency Batt. Backup:

Optional Controls:

Wireless Controls: Dimming: Daylight Harvesting Sensor: Occupancy Sensor: Title 47, Part 2, Part 15, Class A Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (60% load); EN61000-3-3 Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P -FG:1.5KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25 / 70% RH PF > 0.98/115VAC, PF > 0.92/277VAC THD < 20% All-Around Protection: OVP, SCP, OLP. Protects against surges according to IEEE C62.41.2 C and ANSI C136.2 Optional upgrades available.

Optional via Pulse Wireless Mesh Network Standard: 0-10V Optional: step, line voltage or bi-level. Optional Optional

Warranty

3-Month Limited Warranty. Optional 5-Year Manufacturer's Warranty Available. Full Warranty Terms Available At www.noribachi.com/products/warranty

BES



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ZIPPY-042

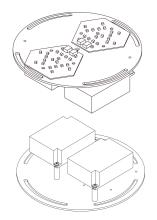


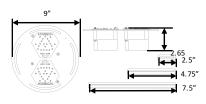
ZIPPY-042 is a flexible solution for a variety of indoor and low bay applications



ZIPPY-042







Product Information

Product Order Code: DLC Order Code: Common Replacement: ZIPPY-042-CW-MT L-C-CUS-42-REC-B-CW-MT 200W MH, 250W HPS

The Zippy-042 retrofit kit can be used in Arealight, Canopy, Cans, Cobrahead, Downlight, Floodlight, Post Top and Wallpack lighting fixtures.

Performance Ratings and Certifications

UL 1598 UL 8750 CSA C22.2#250.0 CSA C22.2#250.13

Performance Summary

Lumens:9,724 lumensLumens Per Watt (Typical):140 LPWPower Consumption:69 WLight Engine:L70 Rated Lifetime of 100,000+ hours.CRI:Minimum 70 CRI. Custom CRI available upon request.CCT (Typical):3000K, 4000K, 5700KManufactured in the U.S. with parts from U.S. and imported.

Fixture Information

Mounting Plate: Mounting:

Length: Width:

Depth:

Length: Width: Depth: Weight: Shipping Weight: Aluminum 3003 Universal mounting kit with four 2.5" four 4.75" and four 7.5" magic tabs 9" 9" 2.65" 1.62 lbs. 3.38 lbs.

Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level

I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P -

I/P-O/P, I/P-FG, O/P-FG:100M Ohms /

PF > 0.98/115VAC, PF > 0.92/277VAC

All-Around Protection: OVP, SCP, OLP.

Protects against surges according to IEEE C62.41.2 C and ANSI C136.2

Optional upgrades available.

Fits Luminaires with Internal Dimensions of

9" – 24" 9" – 24" 3" (minimum)

Electrical System Characteristics / Data

AC Input: 120/277 VAC (standard), 480 VAC (upgrade) FCC: Title 47, Part 2, Part 15, Class A EM: Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (60% load); EN61000-3-3

FG:1.5KVAC

THD < 20%

(surge 4KV), criteria A

500VDC / 25 / 70% RH

EM Immunity:

Withstand Voltage:

Isolation Resistance:

Power Factor: Total Harmonic Distortion: Standard Surge Protection: Enhanced Surge Protection:

Emergency Batt. Backup:

Optional Controls:

Wireless Controls: Dimming: Daylight Harvesting Sensor: Occupancy Sensor: Optional via Pulse Wireless Mesh Network Standard: 0-10V Optional: step, line voltage or bi-level. Optional Optional

Warranty

3-Month Limited Warranty. Optional 5-Year Manufacturer's Warranty Available. Full Warranty Terms Available At www.noribachi.com/products/warranty



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ZIPPY-063



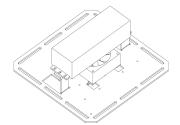
ZIPPY-063 can be used in near to medium distance lighting applications such as parking garages and lobbies.

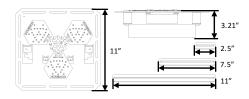


ZIPPY-063









Product Information

Product Order Code: DLC Order Code: Common Replacement: ZIPPY-063-CW-MT L-C-CUS-63-REC-B-CW-MT 250 - 400W MH

The Zippy-063 retrofit kit can be used in Arealight, Canopy, Cans, Cobrahead, Downlight, Floodlight, Post Top and Wallpack lighting fixtures.

Performance Ratings and Certifications

UL 1598 UL 8750 CSA C22.2#250.0 CSA C22.2#250.13

Performance Summary

Lumens: 14,586 lumens Lumens Per Watt (Typical): 140 LPW 104 W Power Consumption: Light Engine: L70 Rated Lifetime of 100,000+ hours. Minimum 70 CRI. Custom CRI available upon request. CRI: 3000K, 4000K, 5700K CCT (Typical): Manufactured in the U.S. with parts from U.S. and imported.

Fixture Information

Mounting Plate: Aluminum 3003 Mounting: Universal mounting kit with four 2.5" four 4.75" and four 11" magic tabs 11" Length: 11" Width: 3.21" Depth: 3.86 lbs. Weight: Shipping Weight: 5.65 lbs.

Fits Luminaires with Internal Dimensions of

11.25 - 33"
11.25 - 33"
4" (minimum)

Electrical System Characteristics / Data

120/277 VAC (standard), 480 VAC (upgrade) AC Input: FCC: Title 47, Part 2, Part 15, Class A EM: Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (60% load); EN61000-3-3 Compliance to EN61000-4-2,3,4,5,6,8,11,

EM Immunity:

Length: Width: Depth:

Withstand Voltage:

Isolation Resistance:

Power Factor: Total Harmonic Distortion: Standard Surge Protection: Enhanced Surge Protection:

Emergency Batt. Backup:

Optional Controls:

Wireless Controls: Dimming: Daylight Harvesting Sensor: Occupancy Sensor:

Optional via Pulse Wireless Mesh Network Standard: 0-10V Optional: step, line voltage or bi-level. Optional Optional

EN61547, EN55024, light industry level

I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P -

I/P-O/P, I/P-FG, O/P-FG:100M Ohms /

PF > 0.98/115VAC, PF > 0.92/277VAC

All-Around Protection: OVP, SCP, OLP.

Protects against surges according to

IEEE C62.41.2 C and ANSI C136.2

Optional upgrades available.

(surge 4KV), criteria A

500VDC / 25 / 70% RH

FG:1.5KVAC

THD < 20%

Warranty

3-Month Limited Warranty. Optional 5-Year Manufacturer's Warranty Available. Full Warranty Terms Available At www.noribachi.com/products/warranty



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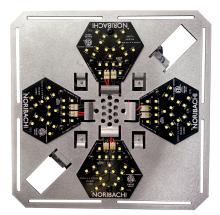
ZIPPY-084

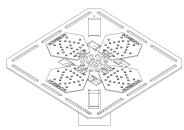


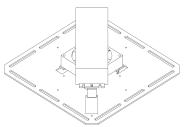
ZIPPY-084 is an excellent mid-power solution for larger spaces or outdoor applications.

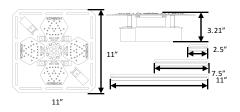


ZIPPY-084









Product Information

Product Order Code: DLC Order Code: Common Replacement: ZIPPY-084-CW-MT L-C-CUS-84-REC-B-CW-MT 400 – 500W MH

The Zippy-084 retrofit kit can be used in Arealight, Canopy, Cans, Cobrahead, Downlight, Floodlight, Post Top and Wallpack lighting fixtures.

Performance Ratings and Certifications

UL 1598 UL 8750 CSA C22.2#250.0 CSA C22.2#250.13

Performance Summary

Lumens:19,448 lumensLumens Per Watt (Typical):140 LPWPower Consumption:139 WLight Engine:L70 Rated Lifetime of 100,000+ hours.CRI:Minimum 70 CRI. Custom CRI available upon request.CCT (Typical):3000K, 4000K, 5700KManufactured in the U.S. with parts from U.S. and imported.

Fixture Information

Mounting Plate:

Shipping Weight:

Mounting:

Length:

Width:

Depth: Weight:

Length: Width: Depth: Aluminum 3003 Universal mounting kit with four 2.5" four 7.5" and four 11" magic tabs 11" 11" 3.21" 3.94 lbs. 5.74 lbs.

Fits Luminaires with Internal Dimensions of

11.3	25 - 33"
11.3	25 - 33"
4"	(minimum)

Electrical System Characteristics / Data

Lieurical System Characteristics / Data				
	AC Input:	120/277 VAC (standard), 480 VAC (upgrade)		
	FCC:	Title 47, Part 2, Part 15, Class A		
	EM:	Compliance to EN55015, EN55022		
		(CISPR22) Class B, EN61000-3-2		
		Class C (60% load); EN61000-3-3		

FG:1.5KVAC

THD < 20%

(surge 4KV), criteria A

500VDC / 25 / 70% RH

EM Immunity:

Withstand Voltage:

Isolation Resistance:

Power Factor: Total Harmonic Distortion: Standard Surge Protection: Enhanced Surge Protection:

Emergency Batt. Backup:

Optional Controls:

Wireless Controls: Dimming: Daylight Harvesting Sensor: Occupancy Sensor: Optional via Pulse Wireless Mesh Network Standard: 0-10V Optional: step, line voltage or bi-level. Optional Optional

Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level

I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P -

I/P-O/P, I/P-FG, O/P-FG:100M Ohms /

PF > 0.98/115VAC, PF > 0.92/277VAC

All-Around Protection: OVP, SCP, OLP.

Protects against surges according to IEEE C62.41.2 C and ANSI C136.2

Optional upgrades available.

Warranty

3-Month Limited Warranty. Optional 5-Year Manufacturer's Warranty Available. Full Warranty Terms Available At www.noribachi.com/products/warranty



ZIPPY KITS!

PRODUCT FAMILY BROCHURE

ZIPPY-140

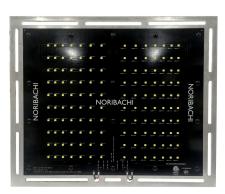


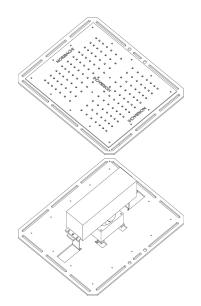
ZIPPY-140 is suited for larger indoor spaces, such as basketball courts; and to medium sized outdoor spaces.

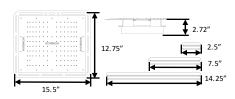


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ZIPPY-140







Product Information

Product Order Code: DLC Order Code: Common Replacement: ZIPPY-140-CW-MT L-C-CUS-140-REC-B-CW-MT 700-1000W MH

The Zippy-140 retrofit kit can be used in Arealight, Canopy, Floodlight and Post Top lighting fixtures.

Performance Ratings and Certifications

UL 1598 UL 8750 CSA C22.2#250.0 CSA C22.2#250.13

Performance Summary

Lumens:30,870 lumensLumens Per Watt (Typical):140 LPWPower Consumption:221 WLight Engine:L70 Rated Lifetime of 100,000+ hours.CRI:Minimum 70 CRI. Custom CRI available upon request.CCT (Typical):3000K, 4000K, 5700KManufactured in the U.S. with parts from U.S. and imported.

Fixture Information

Mounting Plate:AlurMounting:Univ
fourLength:12.7Width:15.5Depth:2.72Weight:5.73Shipping Weight:7.54

Aluminum 3003 Universal mounting kit with four 2.5", four 7.5" and four 14.25" magic tabs 12.75" 15.5" 2.72" 5.73 lbs. 7.54 lbs

Compliance to EN61000-4-2,3,4,5,6,8,11,

EN61547, EN55024, light industry level

I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P -

I/P-O/P, I/P-FG, O/P-FG:100M Ohms /

PF > 0.98/115VAC, PF > 0.92/277VAC

All-Around Protection: OVP, SCP, OLP.

Protects against surges according to

IEEE C62.41.2 C and ANSI C136.2

Optional upgrades available.

Fits Luminaires with Internal Dimensions of

Length:	15.75" – 42.75"
Width:	15.75" – 42.75"
Depth:	5" (minimum)

Electrical System Characteristics / Data

Liecti ical System Characteristics / Data				
AC Input:	120/277 VAC (standard), 480 VAC (upgrade)			
FCC:	Title 47, Part 2, Part 15, Class A			
EM:	Compliance to EN55015, EN55022			
	(CISPR22) Class B, EN61000-3-2			
	Class C (60% load); EN61000-3-3			

FG:1.5KVAC

THD < 20%

(surge 4KV), criteria A

500VDC / 25 / 70% RH

EM Immunity:

Withstand Voltage:

Isolation Resistance:

Power Factor: Total Harmonic Distortion: Standard Surge Protection: Enhanced Surge Protection:

Emergency Batt. Backup:

Optional Controls:

Wireless Controls: Dimming: Daylight Harvesting Sensor: Occupancy Sensor: Optional via Pulse Wireless Mesh Network Standard: 0-10V Optional: step, line voltage or bi-level. Optional Optional

Warranty

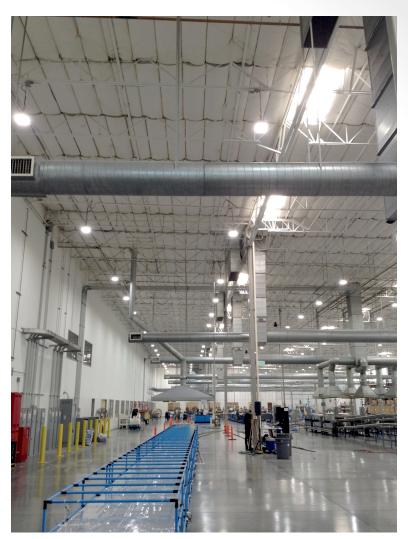
3-Month Limited Warranty. Optional 5-Year Manufacturer's Warranty Available. Full Warranty Terms Available At www.noribachi.com/products/warranty



ZIPPY KITS!

PRODUCT FAMILY BROCHURE

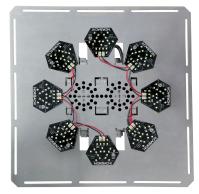
ZIPPY-168

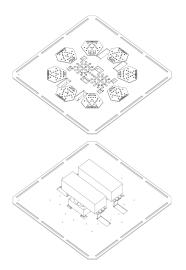


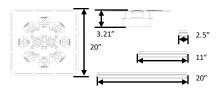
ZIPPY-168 is ideal for large scale applications, such as manufacturing floors and distribution centers.



ZIPPY-168







Product Information

Product Order Code: DLC Order Code: Common Replacement: ZIPPY-168-CW-MT L-C-CUS-168-REC-B-CW-MT 750 - 1250W MH

The Zippy-168 retrofit kit can be used in Arealight, Floodlight and Post Top lighting fixtures.

Performance Ratings and Certifications

UL 1598 UL 8750 CSA C22.2#250.0 CSA C22.2#250.13

Performance Summary

Lumens: 37,970 lumens 140 LPW Lumens Per Watt (Typical): Power Consumption: 271 W L70 Rated Lifetime of 100,000+ hours. Light Engine: CRI: Minimum 70 CRI. Custom CRI available upon request. CCT (Typical): 3000K, 4000K, 5700K Manufactured in the U.S. with parts from U.S. and imported.

Fixture Information

Mounting Plate: Mounting:

Length: Width: Depth: Weight: Shipping Weight:

Length:

Width: Depth:

FCC:

EM:

Aluminum 3003 Universal mounting kit with four 2.5", four 11" and four 20" magic tabs 20" 20" 3.21" 8.72 lbs. 11.91 lbs.

Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level

I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P -

I/P-O/P, I/P-FG, O/P-FG:100M Ohms /

PF > 0.98/115VAC, PF > 0.92/277VAC

All-Around Protection: OVP, SCP, OLP.

Protects against surges according to

IEEE C62.41.2 C and ANSI C136.2

Optional upgrades available.

(surge 4KV), criteria A

500VDC / 25 / 70% RH

FG:1.5KVAC

THD < 20%

Fits Luminaires with Internal Dimensions of

20" - 60" 20" - 60" 5" (minimum)

Electrical System Characteristics / Data

AC Input: 120/277 VAC (standard), 480 VAC (upgrade) Title 47, Part 2, Part 15, Class A Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (60% load); EN61000-3-3

EM Immunity:

Withstand Voltage:

Isolation Resistance:

Power Factor: Total Harmonic Distortion: Standard Surge Protection: Enhanced Surge Protection:

Emergency Batt. Backup:

Optional Controls:

Wireless Controls: Dimming: Daylight Harvesting Sensor: Occupancy Sensor:

Optional via Pulse Wireless Mesh Network Standard: 0-10V Optional: step, line voltage or bi-level. Optional Optional

Warranty

3-Month Limited Warranty. Optional 5-Year Manufacturer's Warranty Available. Full Warranty Terms Available At www.noribachi.com/products/warranty

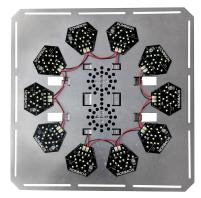
ZIPPY-210

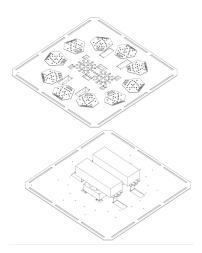


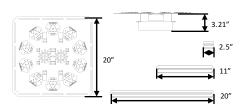
ZIPPY-210 is our largest Zippy Kit! Puts out enough light to retrofit athletic fields and other large venues.



ZIPPY-210







Product Information Product Order Code:

DLC Order Code: Common Replacement: ZIPPY-210-CW-MT L-C-CUS-210-REC-B-CW-MT 1000 - 1500W MH

The Zippy-210 retrofit kit can be used in Arealight, Floodlight and Post Top lighting fixtures.

Performance Ratings and Certifications

UL 1598 UL 8750 CSA C22.2#250.0 CSA C22.2#250.13

Performance Summary

Lumens: 47,463 lumens 140 LPW Lumens Per Watt (Typical): Power Consumption: 339 W L70 Rated Lifetime of 100,000+ hours. Light Engine: Minimum 70 CRI. Custom CRI available upon request. CRI: CCT (Typical): 3000K, 4000K, 5700K Manufactured in the U.S. with parts from U.S. and imported.

Fixture Information

Mounting Plate: Mounting:

Length: Width: Depth: Weight: Shipping Weight:

Length:

Width: Depth:

EM:

Aluminum 3003 Universal mounting kit with four 2.5", four 11" and four 20" magic tabs 20" 20" 3.21" 8.77 lbs. 11.95 lbs.

Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level

I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P -

I/P-O/P, I/P-FG, O/P-FG:100M Ohms /

PF > 0.98/115VAC, PF > 0.92/277VAC

All-Around Protection: OVP, SCP, OLP.

Protects against surges according to

IEEE C62.41.2 C and ANSI C136.2

Optional upgrades available.

(surge 4KV), criteria A

500VDC / 25 / 70% RH

FG:1.5KVAC

THD < 20%

Fits Luminaires with Internal Dimensions of

20" - 60" 20" - 60" 5" (minimum)

Electrical System Characteristics / Data

AC Input: 120/277 VAC (standard), 480 VAC (upgrade) FCC: Title 47, Part 2, Part 15, Class A Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (60% load); EN61000-3-3

EM Immunity:

Withstand Voltage:

Isolation Resistance:

Power Factor: Total Harmonic Distortion: Standard Surge Protection: Enhanced Surge Protection:

Emergency Batt. Backup:

Optional Controls:

Wireless Controls: Dimming: Daylight Harvesting Sensor: Occupancy Sensor:

Optional via Pulse Wireless Mesh Network Standard: 0-10V Optional: step, line voltage or bi-level. Optional Optional

Warranty

3-Month Limited Warranty. Optional 5-Year Manufacturer's Warranty Available. Full Warranty Terms Available At www.noribachi.com/products/warranty



Optics Specifications

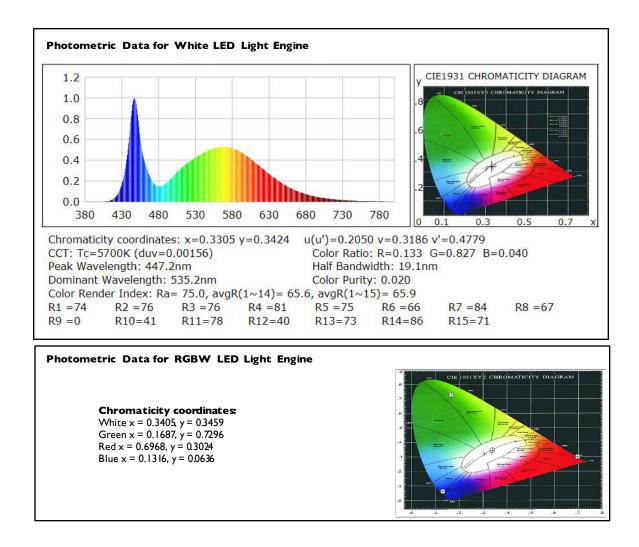
White LED Optics

High brightness, high efficiency LEDs. Standard color temperature is Cool White (5700K typical). Neutral White (4000K typical) and Warm White (3000K typical) also available. All with minimum 70 CRI. Tight bins (<+/-50degK variability) also available – recommended for WW installations as the eye is sensitive to variations in this color range. 40deg and 80deg beam angle optional (n/a for RGBW).

RGBW Light Engine Optics

RGBW light engine also available, compatible with DMX controller. RGBW colors, to allow changing from pure white light to any hue available. Multiple channels of LEDS produce a full spectrum of light anywhere from deepest red to farthest violet. CRI great than 75 in the 2700K – 4000K range.

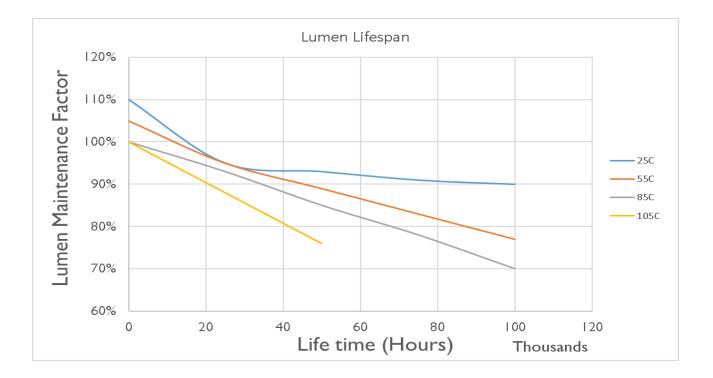
Single color light engines also available. Red=630 nanometers, Green=525 nanometers. Blue=475 nanometers.





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Lumen Performance



Lumen M	Lumen Maintenance Factors (B Drive)				
T _J (Junction Temp)	INITIAL LMF	25K HR PROJECTED LMF	50K HR P ROJ E CTE D LMF	75K HR PROJECTED LMF	I 00K HR PROJECTED LMF
25°c	1.10	0.95	0.93	0.91	0.90
55°c	1.05	0.95	0.89	0.83	0.77
85°c	1.00	0.93	0.85	0.78	0.70
105°c	1.00	0.88	0.76	N/A	N/A

Each temperature hasan independent initial value. In
accordance with IESNA
TM021011, Projected Values
represent interpolated value
based on time durations that are
within six times (6X) the IESNA
LM-80-08 total test duration (in
hours) for the device under
testing (DUT) i.e. the packaged LED chip). In accordance with IESNA TM-21-11, Calculated
Values represent time durations
that exceed six times (6X) the IESNA LM-80-08 total test
duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip)

Lumen Multiplier				
AMBIENT TEMPERATURE	LUMEN MULTIPLIER			
10°C	1.032			
15°C	1.021			
25°C	1.000			
40°C	0.968			
50°C	0.946			

Electrical System Specifications

Electrical System

Standard AC input of 120 - 277VAC. Optional upgrade to 480VAC. Driver meets maximum harmonic distortion (THD) of 20% and is ROHS compliant Power Factor = > 0.9. Standard Surge protection according to EC/EN 61000-4-5 EMC test standard and can protect against up to 4KV transient surge. Optional, enhanced Surge Protection protects Line-Ground, Line-Neutral, and Neutral-Ground. Protects against surges according to EEE C62.41.2 C(10kA and 10kV) and ANSI C136.2.

Controls

Optional controls include: 0-10V (010V), Step, line voltage and Bi-Level Dimming functionality (not guaranteed to work with all dimming systems). Occupancy and Daylight Harvest Sensors available. Optional Emergency Battery Backup: Nickel-Cadmium Batteries, 5W, 600 Lumens for 90 minutes. Optional Cold Emergency Battery Backup: 23W, 2000 Lumens for 90 minutes. The battery has a 7-10 year lifespan.

Driver

All LED drivers provide constant current to give flicker free lighting. Two different drive currents are provided; A (350 mA) and B (525 mA). Highly reliable. Suitable for dry, damp and wet locations. Compliant to worldwide safety regulations for lighting.

Ambient Temperature

We provide fixtures that can sustain ambient temperature ranging from -40F to 140F (-40C to 60C).

Wireless Control Options

Optional wireless networking using the Noribachi Pulse Wireless controller. Pulse is an Arduino-based hardware platform that provides communication between fixtures and a base station using Digi's XBEE based mesh network. Pulse controls up to 16 independent LED lighting fixtures using an FCC approved 900 MHz frequency with up to 200 Kbps data transmission speed. Transmit power output 50 mW. Data transmission rate is 156.25 kbps. 128 bit AES Encryption.

Occupancy Sensor and Daylight Harvesting

Sensor provides 60' diameter coverage from a 40° height. Time can be set from 30 seconds to 30 minutes.

RGBW Controls

Optional RGBW controls with communication to fixture via DMX512 or DMX256 and four channel controls. Four channel control uses red, green, blue and white (to control intensity). DMX controller optional, either software DMX master (via CD and USB adapter) or a physical DMX master. 2.4 GHz wireless DMX networking optional. Other frequencies available upon request.

Testing Compliance

Noribachi complies with and exceeds standards set forth by UL and CSA. All luminaires comply with UL 1598 (CSA C22.2#250.13), and UL 8750 (CSA C22.2#250.0) standards for safety.

Performance testing is done in accordance with LM-79 color measurements and LM-79 distribution measurements, and LM-80 lumen maintenance testing.

Manufacturing

Manufactured in beautiful Harbor Gty, CA. ARRA Compliant. NAFTA Compliant. Test and burn-in of 100% of all luminaries before shipment. No less than 8-years experience in manufacturing LED-based products.

Warranty

Standard limited 3-month warranty, first year includes labor. Optional 5-year warranty available. See details at www.Noribachi.com.

Note

All safety tests and performance data is done in ambient (STP) conditions. Specifications subject to change without notice. Actual performance may differ as a result of end-user environment application. Actual wattage may differ by +/- 8%. Lumen values may vary within compliance with ANSI C78-377 (unless specifying tight color bins).

Ordering

In stock and ready to ship in 72 hours!



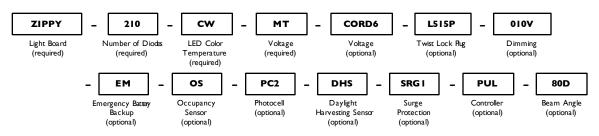
Electrical System Specifications

Order Code	Common Replacements for:			1	Lumens	Input Power	Destance
	(Amps@ 120V)	(Amps@ 277V)	(Amps@ 480V)	Lumens	per Watt	· (\\)	Replaces
ZIPPY-021	0.29	0.13	0.07	4,862	140	35	100-150VV
ZIPPY-024	0.33	0.14	0.08	5,557	140	40	90-185W
ZIPPY-042	0.58	0.25	0.14	9,724	140	69	200-250VV
ZIPPY-063	0.87	0.38	0.22	14,586	140	104	250-400VV
ZIPPY-084	1.16	0.50	0.29	19,448	140	139	400-500VV
ZIPPY-140	I.84	0.80	0.46	30,870	140	221	700-1000₩
ZIPPY-168	2.26	0.98	0.57	37,970	140	271	750-1250W
ZIPPY-210	2.83	1.22	0.71	47,463	140	339	1000-1500VV



How to Order

Sample Order Code: Only include the optional upgrades you need.



For Rebates, use DLC order code. Ex: L-C-CUS-210-REC-B-CW-MT

lumbering Order	Specification	Required or Optional	Allowed Values	Description
I	Light Board	Required	ZIPPY	For all
2	Number of Diodes	Required	021	For ZIPPY-021
			024	For ZIPPY-024
			042	For ZIPPY-042
			063	For ZIPPY-063
			084	For ZIPPY-084
			140	For ZIPPY-140
			168	For ZIPPY-168
			210	For ZIPPY-210
		Required	CW	Standard Cool White LEDs (5700K)
			NW	Neutral White LEDs (4000K)
			WW	Warm White LEDs (3000K)
3	LED Color Temperature		[Specific degree Kelvin]	Specific color temp LEDs [Specific degree Kelvin]
3			TBI [Specific degree Kelvin]	
			TB2 [Specific degree Kelvin]	
			RGBW*	Red/Green/Blue/White light engine
			SC [R, G, B]*	Red, Green, or Blue light engine
			MT	Standard AC input: 120VAC - 277VAC
4	Voltage	Required	HVI	High Voltage (480VAC) option for up to 150W
			HV2	High Voltage (480VAC) option for greater than 150W
5	Cord	Optional	CORD6	6' 16/3 STW Cord
5	Cord	Optional	CORD10	10' 16/3 STW Cord
		Optional	L5 I 5 P	L515P 125V Twist Lock Plug
			L6 I 5 P	L615P 250V Twist Lock Plug
6	Twist Lock Plug		L7 5 P	L715P 277V Twist Lock Plug
0	I WIST LOCK I TUg		L720P	L720P 277V Twist Lock Plug
			L820P	L820P 480V Twist Lock Plug
			L830P	L830P 480V Twist Lock Plug
	Dimming	Optional	010V	0 - IOV dimming
7			STEP	Step dimming
,			LVDIM	Line Voltage dimming
			BLD	Bi-level dimming
8	Emergency Battery Backup	Optional	EM	Emergency Battery Backup
0	Emergency Battery Backup		EMC	Emergency Battery Backup - Cold
9	Occupancy Sensor	Optional	OS	Occupancy Sensor
10	Photocell	Optional	PCI	Photocell for 120V applications
		Opuonai	PC2	Photocell for 277V applications
11	Daylight Harvesting Sensor	Optional	DHS	Daylight Harvesting Sensor
12	Surge Protection	Optional	SRGI	Enhanced Surge Protection 120-277VAC
	5		SRG2	Enhance Surge Protection 480VAC
13	Controller	Optional	PUL	Pulse Wireless Controller
14	Beam Angle	Optional	80D	80degree beam angle optics
			40D	40degree beam angle optics (n/a for ZIPPY-024 and ZIPPY-14



Additional Options

Specification	Required or Optional	Allowed Values	Description
LED CLU*	Optional	06	CLU-LIN
		021	CLU-HEX
		140	CLU-SQUARE
LED DRIVER*	Optional	25	DRIVE-25
		40	DRIVE-40
		67	DRIVE-67
		100	DRIVE-100
		150	DRIVE-150
		240	DRIVE-240
			*These items are not on the DLC QPL



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