# LED-8087E-A 30W LED for HID Retrofit for Shoebox/Wallpack

### **Models**

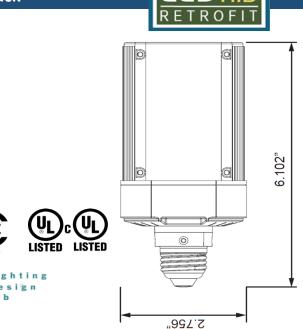
LED-8087EXX-A, 120-277VAC, cULus, 3000K, 4000K or 5700K CCT, E26 LED-8087EXXC-A, 347VAC, cUL, 4000K or 5700K CCT, E26

## **Features**

- > 30W LED Replaces 100W MH or HPS HID Lamps
- > Rotatable base enables user to accurately direct output to target
- > Designed for Horizontal installations
- > UL approved for damp environments and enclosed fixtures
- > Advanced active cooling: Active cooling and dynamic temperature control
- > 50,000 hour rated LED life (supported by LM80 and ISTMT reports (see website)
- > 5 Year Limited Warranty see website for details
- > Rated for enclosed fixture

Technical SpecificationsModels US/CAN						
CCT         3000K         4000K         5700K         4000K         5700K           Power Consumption $3000K$ 4000K         5700K         4000K         5700K           Replaces $120 - 277VAC$ USA)         347VAC         (CANADA)           Mounting $120 - 277VAC$ (USA)         347VAC         (CANADA)           LED Type $2835$ $2835$ $347VAC$ (CANADA)           LED Type $2835$ $8eam$ Angle $VOItage$ $VOItage$ $VOItage$ Operating Temp $-40^\circ F - +122^\circ F$ $VOItage$ $VOItage$ $VOItage$ Marranty $Vers$ $Vers$ $Vers$ $Vers$ Warranty $Vers$ $Yers$ $Yers$ $Yers$ LM79 Specifications         Yers         Yers $Yers$ $Yers$ $Yers$ Power (W) $3248$ $32.85$ $32.79$ $31.23$ $31.26$ CCT $2912$ $4041$ $5636$ $4046$ $5636$ Light Output $3482.8$ $4171$ $4225$ $3992$	Techni	ical Spe	ecificat	tions		
Power Consumption         30 watts           Replaces         30 watts           Replaces         100 MH/HPS           Mounting         E26           Voltage         120-277VAC (USA) 347VAC (CANADA)           LED Type         2835           Beam Angle         Type V           Dimmable         No           Operating Temp         -40°F - +122°F           Rated R70 Life         Up to 50,000 Hrs.           Warranty         Stear Limited*           Mathematical R70 Specifications         Yes         Yes         Yes           LM79 Specifications         Yes         Yes         Yes         Yes         Yes           Power (W)         3248         32.79         31.23         31.26           CCT         2912         4041         5636         Light Output         3420%           Efficacy         107.23         126.97         128.85         127           THD @ 277V         0.92         0.96         0.97	Models US/CAN	LED-8087E30-A	LED-8087E40-A	LED-8087E57-A	LED-8087E40C- A	LED-8087E57C- A
Replaces         100 MH/HPS           Mounting         E26           Woltage         120-277VAC (USA) 347VAC (CANADA)           LED Type         2835           Beam Angle         Type V           Dimmable         No           Operating Temp         -40°F - +122°F           Rated R70 Life         Up to 50,000 Hrs.           Warranty         S Yes         Yes           LM79 Specifications         Yes         Yes         Yes         Yes           Power (W)         3248         32.85         32.79         31.23         31.26           CCT         2912         4041         5636         4046         5636           Light Output         3482.8         4171         4225         3992         4058           Efficacy         107.23         126.97         128.85         127         129           THD @ 277V         0.9322         0.92         0.96         0.97           CRI:         81.4         83.5         84.4         83.8         84.6           R9         4         11         9         12         12           Duv	ССТ	3000K	4000K	5700K	4000K	5700K
Mounting       E26         Voltage       120-277VAC (USA) 347VAC (CANADA)         LED Type       2835         Beam Angle       Type V         Dimmable       No         Operating Temp       -40°F - +122°F         Rated R70 Life       Up to 50,000 Hrs.         Warranty       Seem (W)         Specifications       Yes       Yes       Yes       Yes         Power (W)       3248       32.85       32.79       31.23       31.26         CCT       2912       4041       5636       4046       5636         Light Output       3482.8       4171       4225       3992       4058         Efficacy       107.23       126.97       128.85       127       129         THD @ 277V       0.9322       0.92       0.92       0.92       20%         PF @ 277V       0.9322       0.92       0.92       0.92       0.92       0.92       0.92       0.93         Duv       -0.0006       0.0005       0.0034       0.004       0.0018         PF @ 277V       0.0006       0.0005       0.0034       0.0018         Packagin	Power Consumption	30 watts				
Voltage       120-277VAC (USA) 347VAC (CANADA)         LED Type       2835         Beam Angle       Type V         Dimmable       No         Operating Temp $-40^{\circ}F - 1122^{\circ}F$ Rated R70 Life       Up to 50,000 Hrs.         Warranty       Yes       Yes       Yes       Yes         LM79 Specifications       Yes       Yes       Yes       Yes       Yes         Power (W)       3248       32.85       32.79       31.23       31.26         CCT       2912       4041       5636       4046       5636         Light Output       3482.8       4171       4225       3992       4058         Efficacy       107.23       12.6.97       12.8.55       12.7       1299         THD @ 277V       0.9322       0.92       0.92       0.92       20%         PF @ 277V       0.9322       0.92       0.92       0.92       212%         Duv       -0.0006       0.0005       0.0034       0.0018         Packaging       9       12       12       12       12         Duv       -0.0006       0.0005       0.0034       0.0018       0.0018         <	Replaces		10	00 МН/Н	PS	
Voltage       347VAC (CANADA)         LED Type       2835         Beam Angle       Type V         Dimmable       No         Operating Temp       -40°F - +122°F         Rated R70 Life       Up to 50,000 Hrs.         Warranty       Segment Limited*         Warranty       Yes       Yes       Yes       Yes       Yes         LM79 Specifications       Yes       Yes       Yes       Yes       Yes       Yes       Yes         Power (W)       3248       32.85       32.79       31.23       31.26         CCT       2912       4041       5636       4046       5636         Light Output       3482.8       4171       4225       3992       4058         Efficacy       107.23       12.6.97       12.8.85       12.7       129         THD @ 277V       0.9322       0.92       0.92       0.96       0.97         CRI:       81.4       83.5       84.4       83.8       84.6         R9       4       11       9       12       12         Duv       -0.0006       0.0005       0.0034       0.004	Mounting			E26		
Beam Angle       Type V         Dimmable       No         Operating Temp       -40°F - +122°F         Rated R70 Life       Up to 50,000 Hrs.         Warranty       Secience         Warranty       Secience         Marranty       Secience       Yes         Power (W)       3248       32.79       31.23       31.26         CCT       2912       4041       5636       4058       127       129         THD @ 277V       0.9322       <	Voltage					
Dimmable         No           Operating Temp         -40°F - +122°F           Rated R70 Life         Up to 50,000 Hrs.           Warranty         5 Year Limited*           Marranty         5 Yes         Yes           LM79 Specifications         Yes         Yes         Yes           Power (W)         3248         32.85         32.79         31.23         31.26           CCT         2912         4041         5636         4046         5636           Light Output         3482.8         4171         4225         3992         4058           Efficacy         107.23         126.97         128.85         127         129           THD @ 277V         12.95%         11.65%         11.76%         <20%	LED Type	2835				
Operating Temp         -40°F - +122°F           Rated R70 Life         Up to 50,000 Hrs.           Warranty         5 Year Limited*           Warranty         5 Yes         Yes         Yes         Yes           LM79 Specifications         Yes         Yes         Yes         Yes         Yes         Yes           Power (W)         3248         32.85         32.79         31.23         31.26           CCT         2912         4041         5636         4046         5636           Light Output         3482.8         4171         4225         3992         4058           Efficacy         107.23         126.97         12.855         12.7         129           THD @ 277V         0.9322         0.92         0.96         0.97           CRI:         81.4         83.5         84.4         83.8         84.6           R9         4         11         9         12         12           Duv         -0.0006         0.0055         0.0034         0.0014         0.0018           Packaging         9         2         9         2         12           Dut         Image: 1         Image: 1         Image: 1	Beam Angle	Туре V				
Rated R70 Life       Up to 50,000 Hrs.         Warranty       5 Year Limited*         Marranty       Yes       Yes       Yes       Yes         LM79 Specifications       Yes       Yes       Yes       Yes       Yes       Yes         Power (W)       3248       32.85       32.79       31.23       31.26         CCT       2912       4041       5636       4046       5636         Light Output       3482.8       4171       4225       3992       4058         Efficacy       107.23       126.97       128.85       127       129         THD @ 277V       0.9322       0.92       0.92       0.96       0.97         CRI:       81.4       83.5       84.4       83.8       84.6         R9       4       11       9       12       12         Duv       -0.0006       0.0005       0.0034       0.0014       0.0018         Packaging       9       12       12       12         Unit       4.3"x X.1"x 7.6" X.X lbs.       Y.X lbs.	Dimmable	No				
Warranty         S yes Limitettettettettettettettettettettettettet	Operating Temp	-40°F - +122°F				
LM79 Specifications       Yes       Yes       Yes       Yes       Yes       Yes       Yes         Power (W)       3248       32.85       32.79       31.23       31.26         CCT       2912       4041       5636       4046       5636         Light Output       3482.8       4171       4225       3992       4058         Efficacy       107.23       126.97       128.85       127       129         THD @ 277V       12.95%       11.65%       11.76%       <20%	Rated R70 Life	Up to 50,000 Hrs.				
Power (W)         3248         32.85         32.79         31.23         31.26           CCT         2912         4041         5636         4046         5636           Light Output         3482.8         4171         4225         3992         4058           Efficacy         107.23         126.97         128.85         127         129           THD @ 277V         12.95%         11.65%         11.76%         <20%	Warranty	5 Year Limited*				
Power (W)         3248         32.85         32.79         31.23         31.26           CCT         2912         4041         5636         4046         5636           Light Output         3482.8         4171         4225         3992         4058           Efficacy         107.23         126.97         128.85         127         129           THD @ 277V         12.95%         11.65%         11.76%         <20%         <20%           PF @ 277V         0.9322         0.92         0.92         0.96         0.97           CRI:         81.4         83.5         84.4         83.8         84.6           R9         4         11         9         12         12           Duv         -0.0006         0.0005         0.0034         0.0004         0.0018           Packaging         9 / Master Carton         9         4.3"x 4.1"x 7.6" X.X lbs.         V						
CCT       2912       4041       5636       4046       5636         Light Output       3482.8       4171       4225       3992       4058         Efficacy       107.23       126.97       128.85       127       129         THD @ 277V       12.95%       11.65%       11.76%       <20%	LM79 Specifications	Yes	Yes	Yes	Yes	Yes
Light Output       3482.8       4171       4225       3992       4058         Efficacy       107.23       126.97       128.85       127       129         THD @ 277V       12.95%       11.65%       11.76%       <20%	Power (W)	3248	32.85	32.79	31.23	31.26
Efficacy       107.23       126.97       128.85       127       129         THD @ 277V       12.95%       11.65%       11.76%       <20%	ССТ	2912	4041	5636	4046	5636
THD @ 277V       12.95%       11.65%       11.76%       <20%         PF @ 277V       0.9322       0.92       0.92       0.96       0.97         CRI:       81.4       83.5       84.4       83.8       84.6         R9       4       11       9       12       12         Duv       -0.0006       0.0005       0.0034       0.0004       0.0018         Packaging       9 / Master Carton         Unit       4.3"x 4.1"x 7.6" X.X lbs.       Value	Light Output	3482.8	4171	4225	3992	4058
PF @ 277V       0.9322       0.92       0.92       0.96       0.97         CRI:       81.4       83.5       84.4       83.8       84.6         R9       4       11       9       12       12         Duv       -0.0006       0.0005       0.0034       0.0004       0.0018         Packaging       9 / Master Carton       9 / Master Carton       9 / Master Carton         Unit       4.3"x 4.1"x 7.6" X.X lbs.       9 / X.S lbs.	Efficacy	107.23	126.97	128.85	127	129
CRI:       81.4       83.5       84.4       83.8       84.6         R9       4       11       9       12       12         Duv       -0.0006       0.0005       0.0034       0.0004       0.0018         Packaging       9 / Master Carton       9 / Master Carton         Unit       4.3"x 4.1"x 7.6" X.X lbs.	THD @ 277V	12.95%	11.65%	11.76%	<20%	<20%
R9         4         11         9         12         12           Duv         -0.0006         0.0005         0.0034         0.0004         0.0018           Packaging         9 / Master Carton         4.3"x 4.1"x 7.6" X.X lbs.         5.3 km state         5.4 km state	PF @ 277V	0.9322	0.92	0.92	0.96	0.97
Duv         -0.0006         0.0005         0.0034         0.0004         0.0018           Packaging         9 / Master Carton           Unit         4.3"x 4.1"x 7.6" X.X lbs.	CRI:	81.4	83.5	84.4	83.8	84.6
Packaging9 / Master CartonUnit4.3"x 4.1"x 7.6" X.X lbs.	R9	4	11	9	12	12
Unit 4.3"x 4.1"x 7.6" X.X lbs.	Duv	-0.0006	0.0005	0.0034	0.0004	0.0018
Unit 4.3"x 4.1"x 7.6" X.X lbs.						
	Packaging					
Master 13.8"x 13.1" x 8.3" XX.X lbs.	Unit					
	Master		13.8"x 13	3.1" x 8.3"	XX.X lbs.	

Light Efficient Design



## **Illuminance Plots**

	Illuminance at a Center Beam fc	a Distance Beam Width			
17.08	5.09 fc	51.3 ft	45.5 ft		
34.0R	1.27 fc	102.6 ft	91.1 ft		
51.0R	0.57 fc	153.9 ft	136.6 ft		
68.0R	0.32 fc	205.2 ft	182.1 ft		
85.0ft	<b>0.20</b> fc	256.5 ft	227.6 ft		
102.0ft	0.14 fc	307.8 ft	273.2 ft		
	Vert. Spread: 112.9° Horiz. Spread: 106.5°				

#### Installation Notes:

- Ballast must be bypassed
- Installing surge/lightning protectors is highly recommended

LED Power Consumption (Watts)	HID Power Consumption (Watts)	HID Ballast Power Consumption (Watts)	Total Savings (Watts)	Annual Energy Savings (14 hrs/day)	Lifetime Energy Savings (over 50,000 hrs)
30	100	20	90	\$51	\$495.00

Mounting Orientation			Minimum Fixture Size	
Base Up	Base Down	Horiz	Requirements (inches	
			Length	8.1
<u></u>			Width	4.7
	<u>11</u> NA 7.2		Height	4.7
			Cu. Inches	178.9
Approved	Approved	Approved	cu. menes	170.9

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