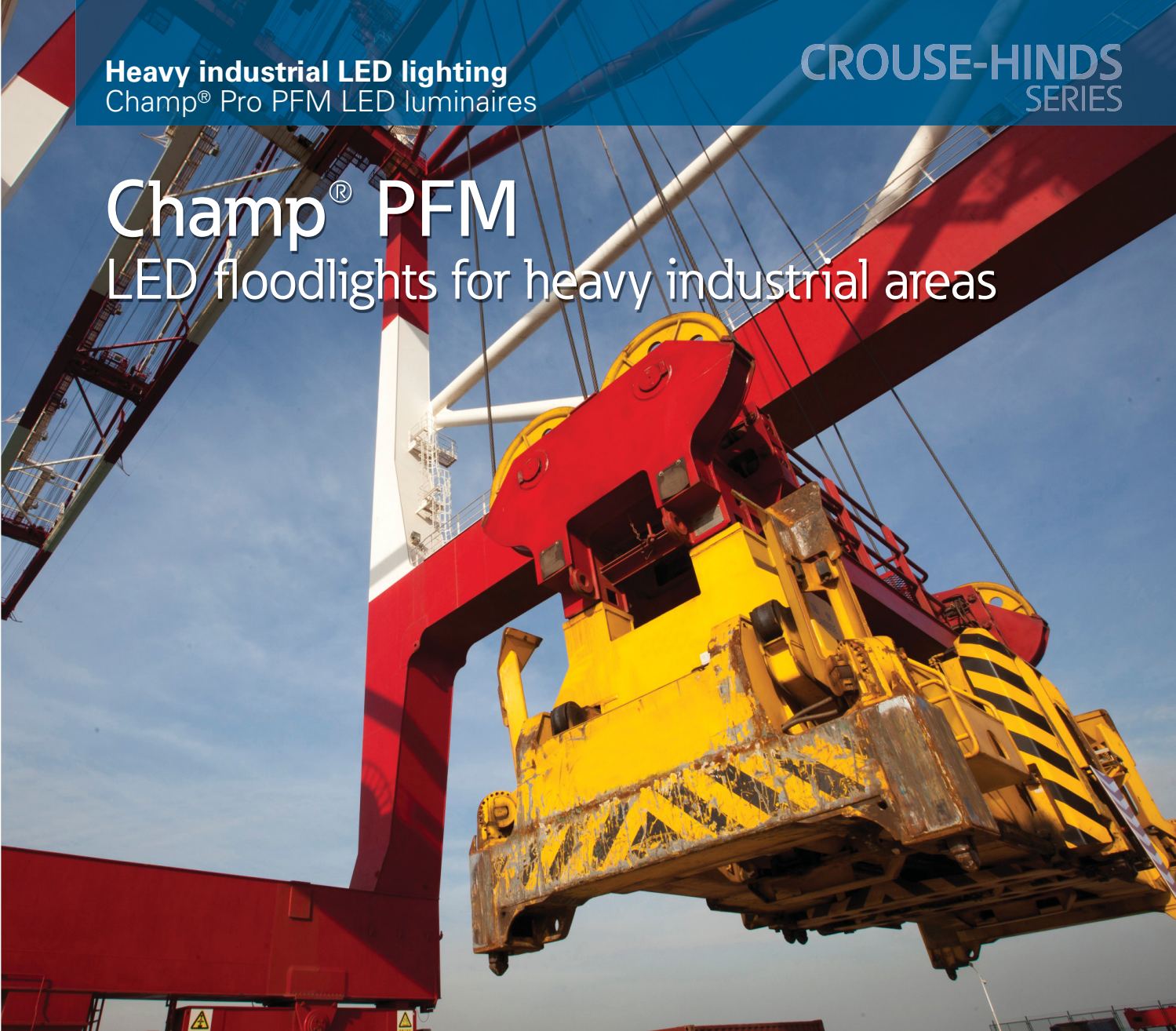


Heavy industrial LED lighting  
Champ® Pro PFM LED luminaires

CROUSE-HINDS  
SERIES

# Champ® PFM

LED floodlights for heavy industrial areas



**EATON**

Powering Business Worldwide



Champ® Pro PFM LED floodlights

# Safe. Reliable. Efficient.

Featuring the industry's broadest range of LED luminaires for harsh and heavy industrial environments, Eaton's Crouse-Hinds can deliver a lighting solution that performs reliably in even the worst operating conditions. All the while reducing your energy, maintenance and manpower costs.

## Why LED?

### **Energy efficiency**

LED average energy consumption is significantly less than traditional fluorescent and HID fixtures

### **Start/restart time**

Instant illumination vs. 10 minute restrike time for HID

### **Light quality**

Higher color rendering compared to fluorescent and HID

### **Environmental benefits**

Mercury-free LED eliminates disposal costs and lower energy consumption for a smaller carbon footprint

## Why Crouse-Hinds?

### **Industry-best reliability**

Built to withstand a wide array of applications

### **Thermal management**

Effective heat sinking ensures longer life

### **Quality of light**

Custom optics designed to maximize light distribution and intensity

### **Globally certified**

Designed to global specifications for IEC and NEC applications

### **Serviceable drivers**

Easy access to drivers for service or replacement

# Why PFM LED?

**Reliable floodlights.** PFM LED luminaires are engineered to deliver high lumen output and maintenance-free long life in the toughest conditions.

## Versatile design

- Can be used for outdoor or indoor applications, and for a wide range of mounting heights depending on model and light level requirement

## Smaller and lighter

- 25% smaller footprint than previous model
- 10 lbs. (4.5 kg) less weight than previous model

## Full frame yoke

- Designed to utilize the SFA6 slipfitter and SWB6 wall mount bracket, making it ideal for retrofit or new installations



## High lumen output:

- Up to 117 lumens per watt
- Up to 72% energy savings over traditional HID fixtures (compared to 400W MH)



## Multiple lens options:

- Tempered clear glass lens standard
- Polycarbonate and diffused glass lens options available

## Rugged heat sink

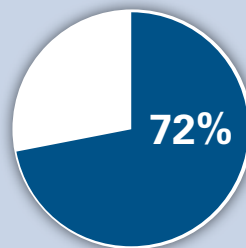
- Heat sink designed to perform and provide maximum light levels in high ambient temperatures up to +65°C and as low as -40°C
- Thick walled castings make for a tough, rugged housing that keeps the internal driver and LED temperature down

## LED vs. HID savings at a glance

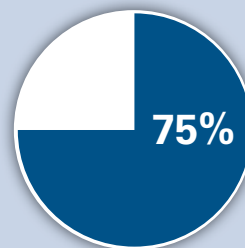
Why are so many facilities making the switch from HID to LED?

The numbers say it all.

### PFM13L/UNV1 vs. 400 watt HID



72% REDUCTION IN ENERGY COSTS



75% LOWER TOTAL COST OF OWNERSHIP



100% MAINTENANCE REDUCTION

Assumptions: Calculations based on overall life of the LED system. Energy cost of \$.09 per kilowatt; 24 hour per day operation; labor rate of \$75 each for 2 workers; average time for fixture maintenance of 1 hour.

# Features & specifications

## Champ Pro PFM series LED floodlights

Champ PFM LED floodlights are designed to provide full-spectrum, crisp, white light. Seven versions of the Champ PFM are available, from 3,000 to 13,000 lumens, providing ideal solutions for a wide range of harsh and heavy industrial applications.

**Up to 75% reduction in energy costs and 150,000 hours of continuous operation.**

Model number	Nominal lumens*	Wattage	Lumens per watt	Equivalent HID luminaire
<b>PFM3L</b>	3,189	28	114	70W-100W
<b>PFM5L</b>	5,183	45	115	100W-150W
<b>PFM7L</b>	7,095	62	114	150W-175W
<b>PFM9L</b>	9,132	79	116	175W-250W
<b>PFM11L</b>	11,107	99	112	250W-400W
<b>PFM13L</b>	13,100	112	117	400W
<b>PFM15L</b>	15,181	131	116	450W+

\*Tolerance +/- 10%; @120 VAC, 25°C ambient, 7x6 optics.

## Applications:

- Locations requiring continuous and consistent light levels in extreme ambient temperatures
- Areas requiring frequent on-and-off of lights
- Where extremely corrosive, wet, dusty, hot and/or cold conditions exist
- Manufacturing plants; heavy industrial, chemical, food and beverage facilities; mining; platforms; loading docks; tunnels; outdoor wall and pole mounted areas

## LED system:

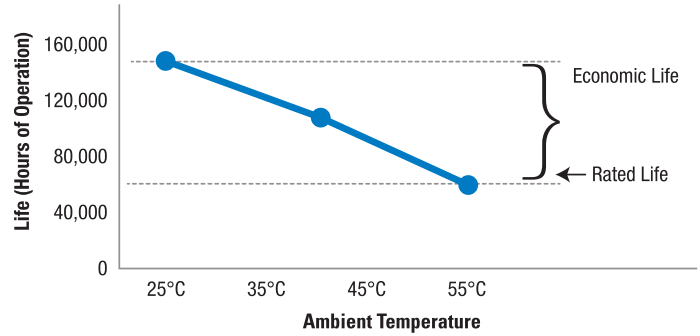
- Cool white (5000K, 70 CRI) and warm white (3000K, 80 CRI)
- Custom designed optics – 7x6 standard, 3x3 optional (3L-11L)

## Champ PFM LED benefits:

- Instant illumination and restrike
- Better visibility with crisp, white light
- Cold temperature operation / no warm-up required
- Serviceable drivers
- Easy installation – yoke design to mount to SFA6
- Energy-efficient technology – up to 72% energy savings over HID fixtures
- 60,000 hours of rated life at 55°C – eliminates need for frequent lamp replacement
- Contains no mercury or other hazardous substances
- Shock- and vibration-resistant solid-state luminaires have no filaments or glass components that could break – greatly reduces the risk of premature failure
- Operating ambient -40°C to 65°C
- 5 year fixture warranty‡

‡Extension of standard terms and conditions to five years. Refer to page 2 of the D-0914 authorized distributor price book for Crouse-Hinds standard Terms and Conditions.

## LED system lifetime rated versus economic life:



Economic life can range anywhere between 50,000 to 150,000 hours, or 5 to 20 years of maintenance-free operation.

## Fixture life and years of maintenance-free operation

Ambient temperature	Fixture life (hours)	No. of years at 24 hours usage	No. of years at 12 hours usage
25°C	150,000	17	34
40°C	90,000	10	20
55°C	60,000	7	14

\*50,000 hours of life at 65°C ambient.

## Fixture life:

- Rated life of 60,000 hours @ 55°C operating ambient and 24/7 continuous operation for 365 days
- Economic life of 150,000 hours @ 25°C ambient
- L70 LED life >300,000 hours @ 55°C

## Electrical ratings:

Model number	Input power (watts)	Input amps at 120-277 VAC	
<b>PFM3L</b>	28.0 - 29.1	0.24 - 0.11	<b>PFM3L - PFM15L</b>
<b>PFM5L</b>	45.4 - 45.8	0.38 - 0.18	
<b>PFM7L</b>	61.8 - 62.5	0.52 - 0.24	
<b>PFM9L</b>	78.8 - 80.3	0.66 - 0.31	
<b>PFM11L</b>	98.8 - 99.9	0.83 - 0.37	
<b>PFM13L</b>	111.8 - 112.4	0.94 - 0.42	
<b>PFM15L</b>	131.4 - 131.5	1.10 - 0.48	
<b>UNV1 driver</b>	100-277 VAC @ 50/60 Hz; 108-250 VDC @ 50/60 Hz		
<b>UNV34 driver</b>	347-480 VAC @ 50/60 Hz		
<b>Power factor</b>	>0.9		

## Standard materials:

- Lamp housing and adapter – die cast aluminum with Corro-free™ epoxy powder coat
- Lens – heat- and impact-resistant glass (standard)
- Gaskets – silicone and neoprene
- External hardware – stainless steel

## Qualifications and compliances:

- DesignLights Consortium® Qualified (some models are not DLC qualified)\*



\* Approved models include: PFM3L/UNV1; PFM5L/UNV1; PFM7L/UNV1; PFM9L/UNV1; PFM11L/UNV1; PFM13L/UNV1; PFM3L/UNV34; PFM5L/UNV34; PFM7L/UNV34; PFM9L/UNV34; PFM11L/UNV34; PFM13L/UNV34

7x6 optics on all approved models; 3x3 optics not DLC approved.

Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under family models for full listing details. Not all models are approved for all application categories.



**Certifications and compliances:**

NEC and CEC

- Wet Locations, Type 4X, IP66

UL Standards

- UL1598 Luminaires, UL1598A Marine, UL8750

CSA Standard

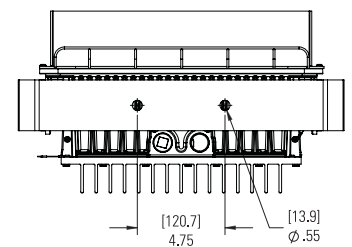
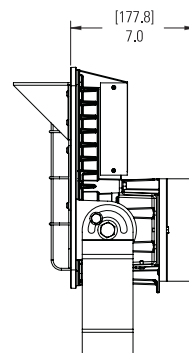
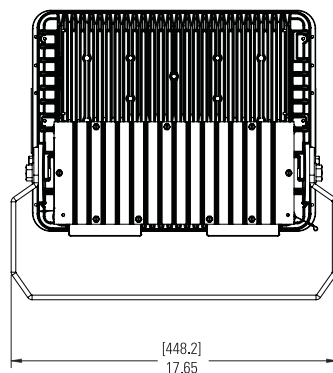
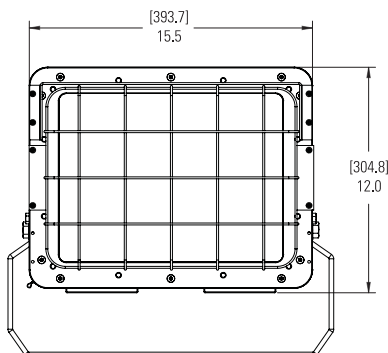
- cUL Listed to CSA Standard CSA C22.2 No. 250

IEC Standard

- IEC 60598
- CE

**Weights and dimensions:**

Model number	Lbs.	Kg.	Width		Height		Depth	
			in.	mm.	in.	mm.	in.	mm.
PFM3L-PFM7L	30.7	13.9	15.5	393.7	12.0	304.8	7.0	177.8
PFM9L-PFM15L	31.8	14.4	15.5	393.7	12.0	304.8	7.0	177.8

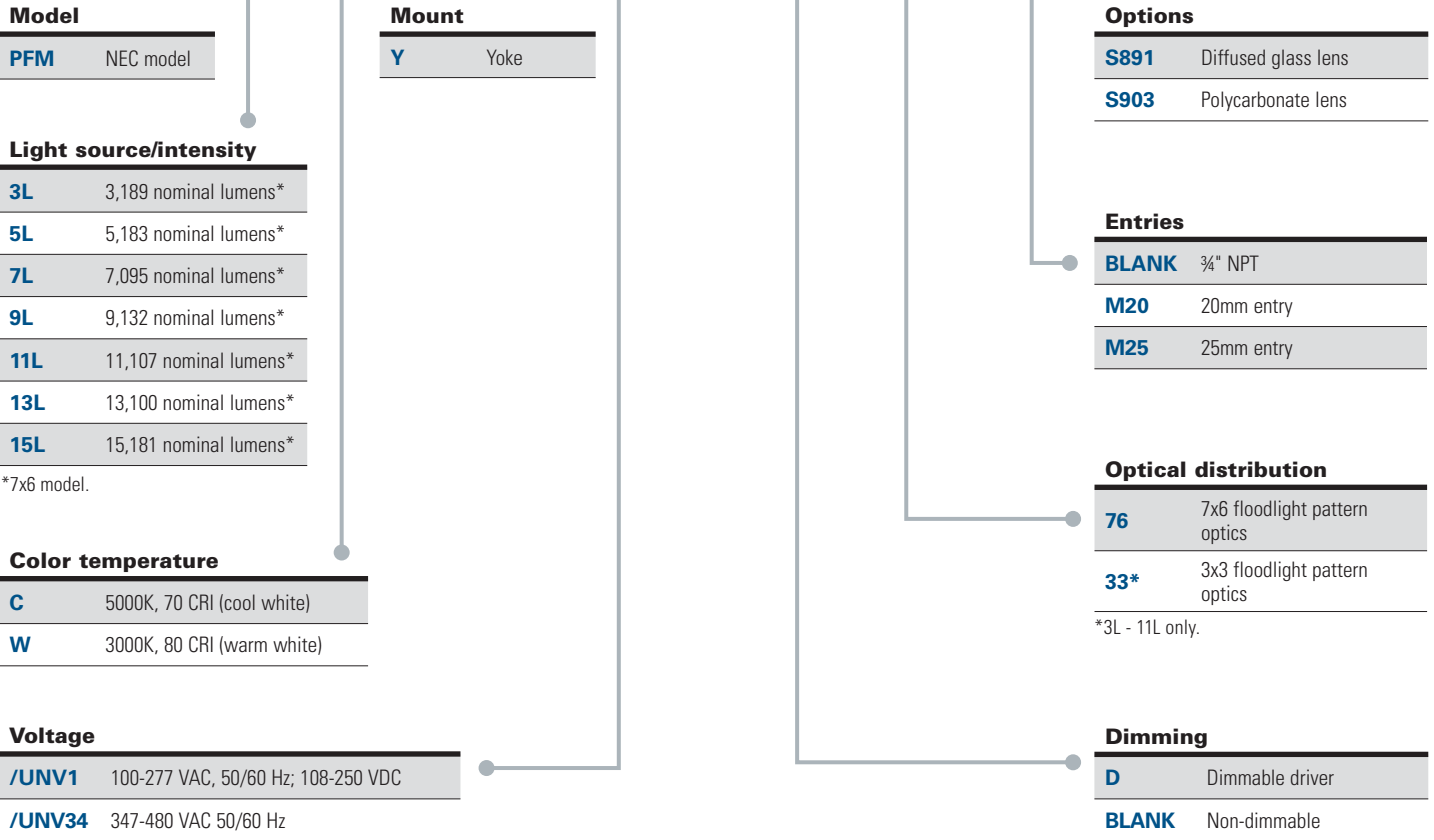


# Ordering information

Part number example

**PFM5LCY/UNV1D 76 S903**

# PFM 5L C Y /UNV1 D 76 S903



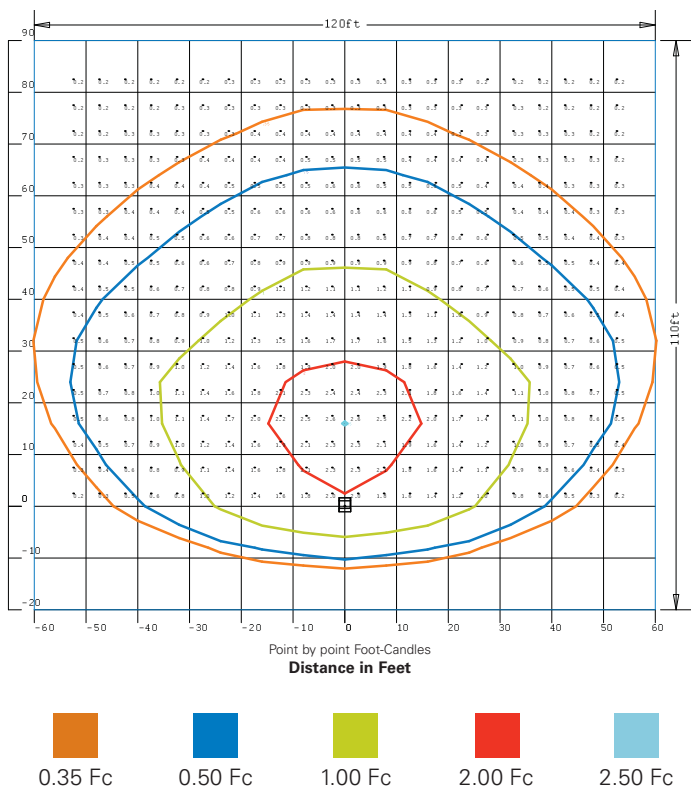
## Accessories (ordered separately)

<b>DSV2</b>	Bolt-on visor
<b>P62</b>	Bolt-on wire guard
<b>SC831</b>	Safety cable
<b>SFA6</b>	Floodlight slipfitter
<b>SWB6</b>	Slipfitter wall mount adapter

# Photometric data

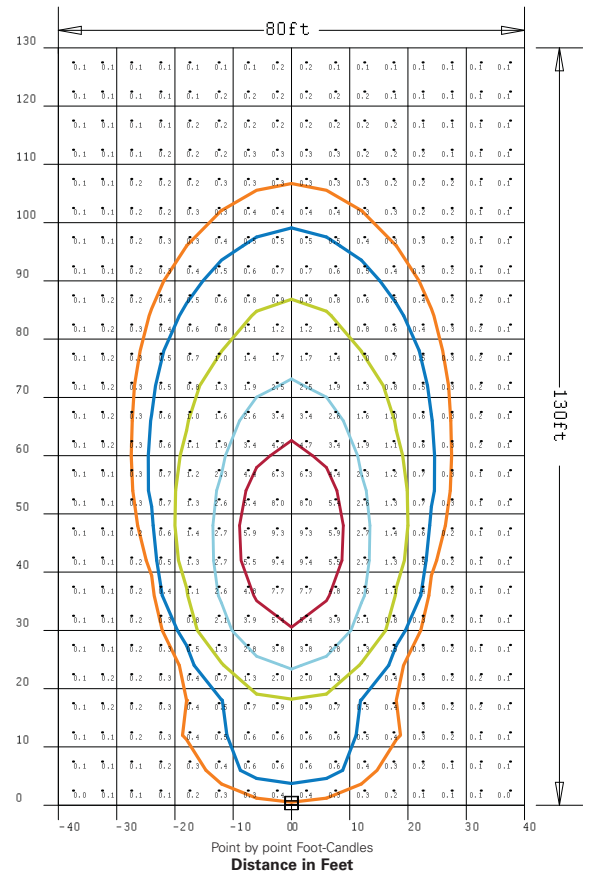
## 7x6 optics

PFM13L Height: 40 ft.; Tilt angle: 45°



## 3x3 optics

PFM11L Height: 30 ft.; Tilt angle: 45°



### Effective projected area (ft.-sq.):

Position	PFM3L - PFM15L
@ 0° Tilt	1.5
@ 45° Backwards tilt	1.1
@ 60° Forward tilt	0.8

### Lumen output for glass lens models

Optic	PFM3L	PFM5L	PFM7L	PFM9L	PFM11L	PFM13L	PFM15L
7x6	3,189	5,183	7,095	9,132	11,107	13,100	15,181
3x3	3,064	5,038	7,000	8,962	10,917	-	-

### Lumen output for diffused glass lens (S891) models

Optic	PFM3L	PFM5L	PFM7L	PFM9L	PFM11L	PFM13L	PFM15L
7x6	2,637	4,287	5,878	7,459	8,994	10,613	12,445
3x3	2,546	4,179	5,806	7,433	9,055	-	-

### Lumen output for polycarbonate lens (S903) models

Optic	PFM3L	PFM5L	PFM7L	PFM9L	PFM11L	PFM13L	PFM15L
7x6	3,017	4,903	6,712	8,639	10,507	12,393	14,361
3x3	2,924	4,808	6,680	8,552	10,418	-	-



Higher average footcandles/lux, uniformity and distribution coverage with **72% less energy consumption** compared to 400W metal halide.

**U.S. (global headquarters):  
Eaton's Crouse-Hinds business**

1201 Wolf Street  
Syracuse, NY 13208

(866) 764-5454  
FAX: (315) 477-5179  
FAX Orders Only:  
(866) 653-0640

[crousecustomerctr@eaton.com](mailto:crousecustomerctr@eaton.com)

**For more information:**

If further assistance is required, please contact an authorized Eaton Distributor, Sales Office, or Customer Service Department.

**Canada**

Toll Free: 800-265-0502  
FAX: (800) 263-9504  
FAX Orders only: (866) 653-0645

**Mexico/Latin America/Caribbean**

52-555-804-4000  
FAX: 52-555-804-4020  
[ventascentromex@eaton.com](mailto:ventascentromex@eaton.com)

**Europe (Germany)**

49 (0) 6271 806-500  
49 (0) 6271 806-476  
[sales.CCH.de@cooperindustries.com](mailto:sales.CCH.de@cooperindustries.com)

**Eaton Middle East**

9714-8066100  
FAX: 9714-8894813  
[chmesales@eaton.com](mailto:chmesales@eaton.com)

**Singapore**

65-6645-9888  
FAX: 65-6297-4819  
[chsi-sales@cooperindustries.com](mailto:chsi-sales@cooperindustries.com)

**China**

86-21-2899-3600  
FAX: 86-21-2899-4055  
[cchsales@cooperindustries.com](mailto:cchsales@cooperindustries.com)

**Korea**

82-2-3484-6783  
82-2-3484-6778  
[CCHK-sales@cooperindustries.com](mailto:CCHK-sales@cooperindustries.com)

**Australia**

61-2-8787-2777  
FAX: 61-2-9609-2342  
[CEASales@cooperindustries.com](mailto:CEASales@cooperindustries.com)

**India**

91-124-4683888  
FAX: 91-124-4683899  
[cchindia@eaton.com](mailto:cchindia@eaton.com)

**Eaton's Crouse-Hinds**  
1201 Wolf Street  
Syracuse, NY 13208  
[Crouse-Hinds.com](http://Crouse-Hinds.com)

**Eaton**  
1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
[Eaton.com](http://Eaton.com)

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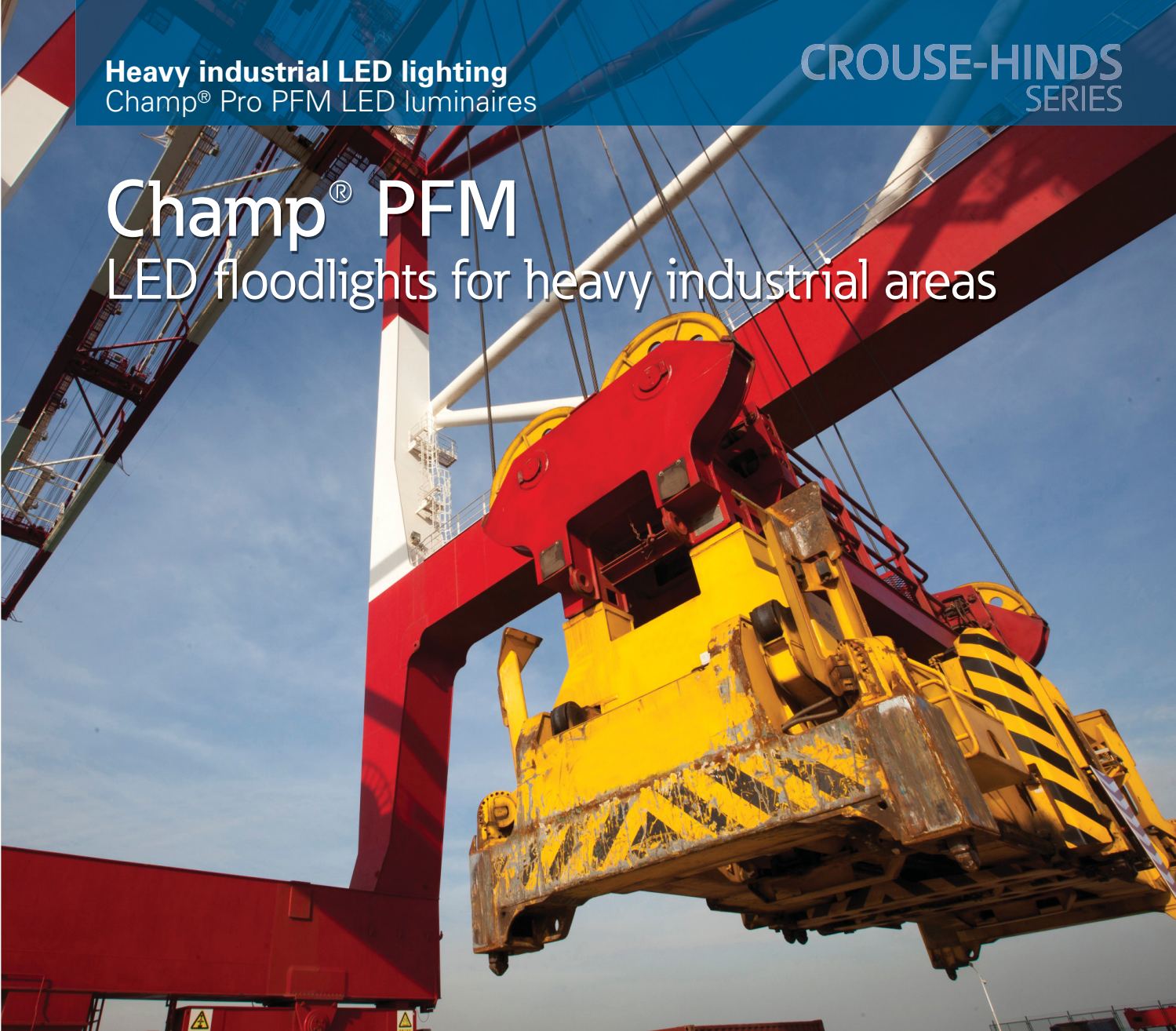


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- 10 lbs. (4.5 kg) less weight than previous model

## Full frame yoke

- Designed to utilize the SFA6 slipfitter and SWB6 wall mount bracket, making it ideal for retrofit or new installations



## High lumen output:

- Up to 117 lumens per watt
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- Tempered clear glass lens standard
- Polycarbonate and diffused glass lens options available

## Rugged heat sink

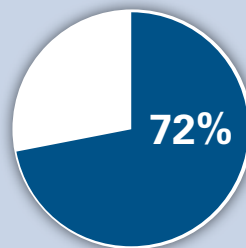
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## LED vs. HID savings at a glance

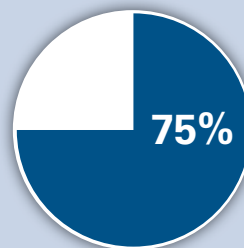
Why are so many facilities making the switch from HID to LED?

The numbers say it all.

### PFM13L/UNV1 vs. 400 watt HID



72% REDUCTION IN ENERGY COSTS



75% LOWER TOTAL COST OF OWNERSHIP



100% MAINTENANCE REDUCTION

Assumptions: Calculations based on overall life of the LED system. Energy cost of \$.09 per kilowatt; 24 hour per day operation; labor rate of \$75 each for 2 workers; average time for fixture maintenance of 1 hour.

# Features & specifications

## Champ Pro PFM series LED floodlights

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Model number	Nominal lumens*	Wattage	Lumens per watt	Equivalent HID luminaire
PFM3L	3,189	28	114	70W-100W
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PFM11L	11,107	99	112	250W-400W
PFM13L	13,100	112	117	400W
PFM15L	15,181	131	116	450W+

\*Tolerance +/- 10%; @120 VAC, 25°C ambient, 7x6 optics.

## Applications:

- Locations requiring continuous and consistent light levels in extreme ambient temperatures
- Areas requiring frequent on-and-off of lights
- Where extremely corrosive, wet, dusty, hot and/or cold conditions exist
- Manufacturing plants; heavy industrial, chemical, food and beverage facilities; mining; platforms; loading docks; tunnels; outdoor wall and pole mounted areas

## LED system:

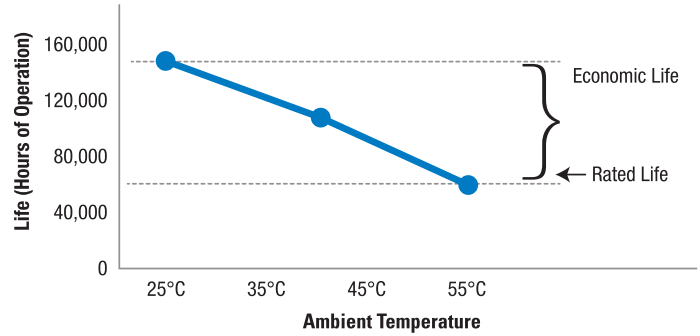
- Cool white (5000K, 70 CRI) and warm white (3000K, 80 CRI)
- Custom designed optics – 7x6 standard, 3x3 optional (3L-11L)

## Champ PFM LED benefits:

- Instant illumination and restrike
- Better visibility with crisp, white light
- Cold temperature operation / no warm-up required
- Serviceable drivers
- Easy installation – yoke design to mount to SFA6
- Energy-efficient technology – up to 72% energy savings over HID fixtures
- 60,000 hours of rated life at 55°C – eliminates need for frequent lamp replacement
- Contains no mercury or other hazardous substances
- Shock- and vibration-resistant solid-state luminaires have no filaments or glass components that could break – greatly reduces the risk of premature failure
- Operating ambient -40°C to 65°C
- 5 year fixture warranty‡

‡Extension of standard terms and conditions to five years. Refer to page 2 of the D-0914 authorized distributor price book for Crouse-Hinds standard Terms and Conditions.

## LED system lifetime rated versus economic life:



Economic life can range anywhere between 50,000 to 150,000 hours, or 5 to 20 years of maintenance-free operation.

## Fixture life and years of maintenance-free operation

Ambient temperature	Fixture life (hours)	No. of years at 24 hours usage	No. of years at 12 hours usage
25°C	150,000	17	34
40°C	90,000	10	20
55°C	60,000	7	14

\*50,000 hours of life at 65°C ambient.

## Fixture life:

- Rated life of 60,000 hours @ 55°C operating ambient and 24/7 continuous operation for 365 days
- Economic life of 150,000 hours @ 25°C ambient
- L70 LED life >300,000 hours @ 55°C

## Electrical ratings:

Model number	Input power (watts)	Input amps at 120-277 VAC	
PFM3L	28.0 - 29.1	0.24 - 0.11	PFM3L - PFM15L UNV1 driver 100-277 VAC @ 50/60 Hz; 108-250 VDC @ 50/60 Hz UNV34 driver 347-480 VAC @ 50/60 Hz Power factor >0.9
PFM5L	45.4 - 45.8	0.38 - 0.18	
PFM7L	61.8 - 62.5	0.52 - 0.24	
PFM9L	78.8 - 80.3	0.66 - 0.31	
PFM11L	98.8 - 99.9	0.83 - 0.37	
PFM13L	111.8 - 112.4	0.94 - 0.42	
PFM15L	131.4 - 131.5	1.10 - 0.48	

## Standard materials:

- Lamp housing and adapter – die cast aluminum with Corro-free™ epoxy powder coat
- Lens – heat- and impact-resistant glass (standard)
- Gaskets – silicone and neoprene
- External hardware – stainless steel

## Qualifications and compliances:

- DesignLights Consortium® Qualified (some models are not DLC qualified)\*



\* Approved models include: PFM3L/UNV1; PFM5L/UNV1; PFM7L/UNV1; PFM9L/UNV1; PFM11L/UNV1; PFM13L/UNV1; PFM3L/UNV34; PFM5L/UNV34; PFM7L/UNV34; PFM9L/UNV34; PFM11L/UNV34; PFM13L/UNV34

7x6 optics on all approved models; 3x3 optics not DLC approved.

Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under family models for full listing details. Not all models are approved for all application categories.



**Certifications and compliances:**

NEC and CEC

- Wet Locations, Type 4X, IP66

UL Standards

- UL1598 Luminaires, UL1598A Marine, UL8750

CSA Standard

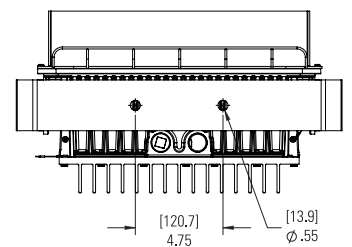
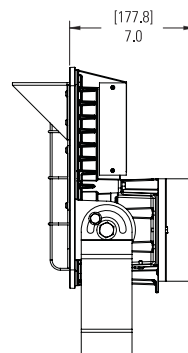
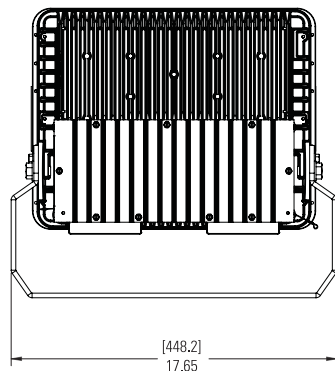
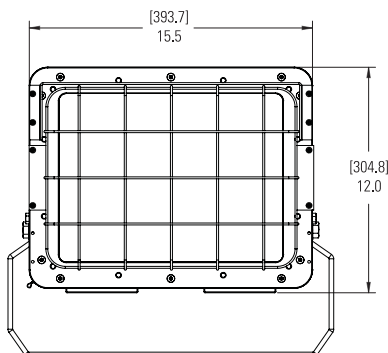
- cUL Listed to CSA Standard CSA C22.2 No. 250

IEC Standard

- IEC 60598
- CE

**Weights and dimensions:**

Model number	Lbs.	Kg.	Width		Height		Depth	
			in.	mm.	in.	mm.	in.	mm.
PFM3L-PFM7L	30.7	13.9	15.5	393.7	12.0	304.8	7.0	177.8
PFM9L-PFM15L	31.8	14.4	15.5	393.7	12.0	304.8	7.0	177.8

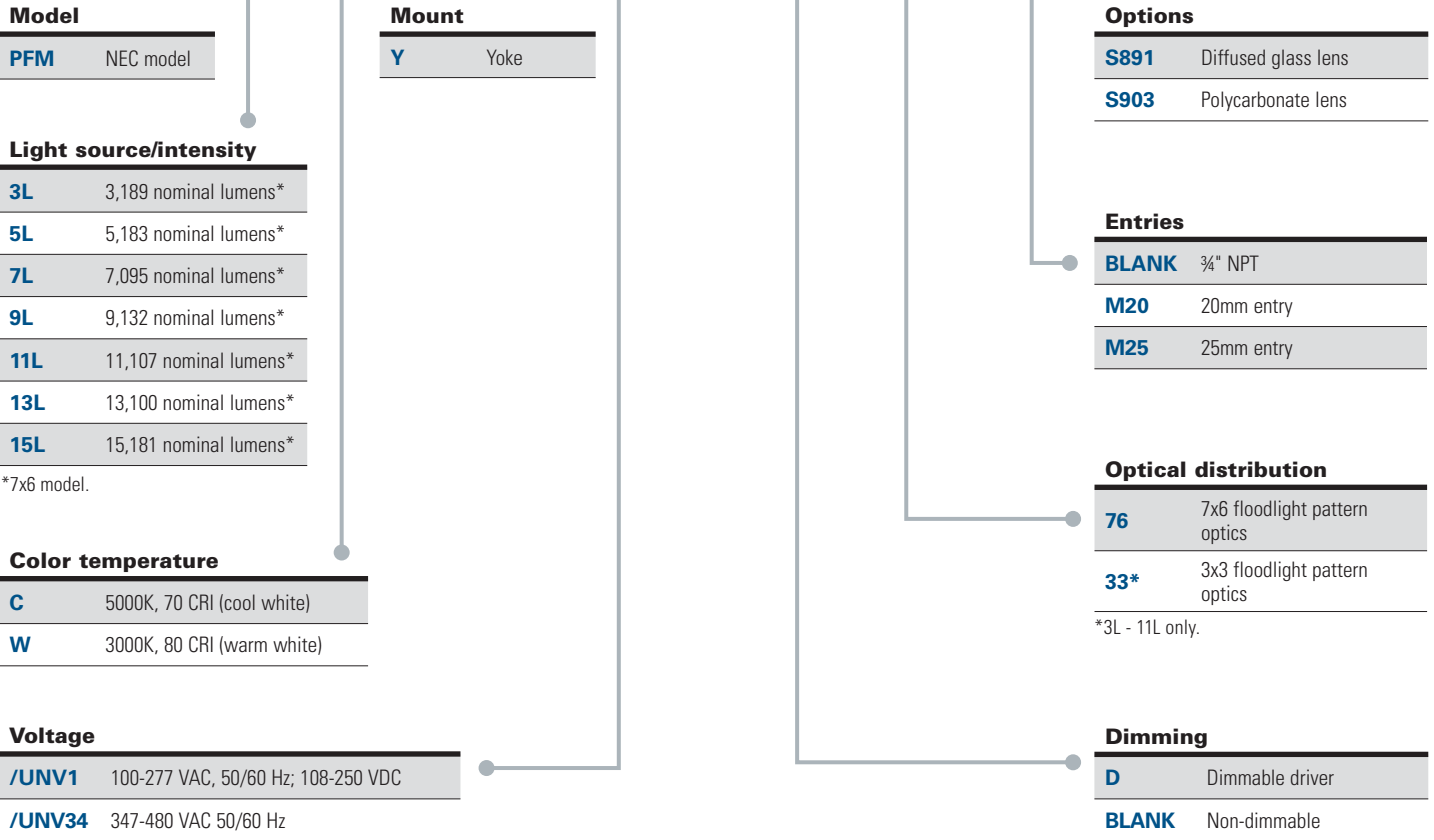


# Ordering information

Part number example

**PFM5LCY/UNV1D 76 S903**

# PFM 5L C Y /UNV1 D 76 S903



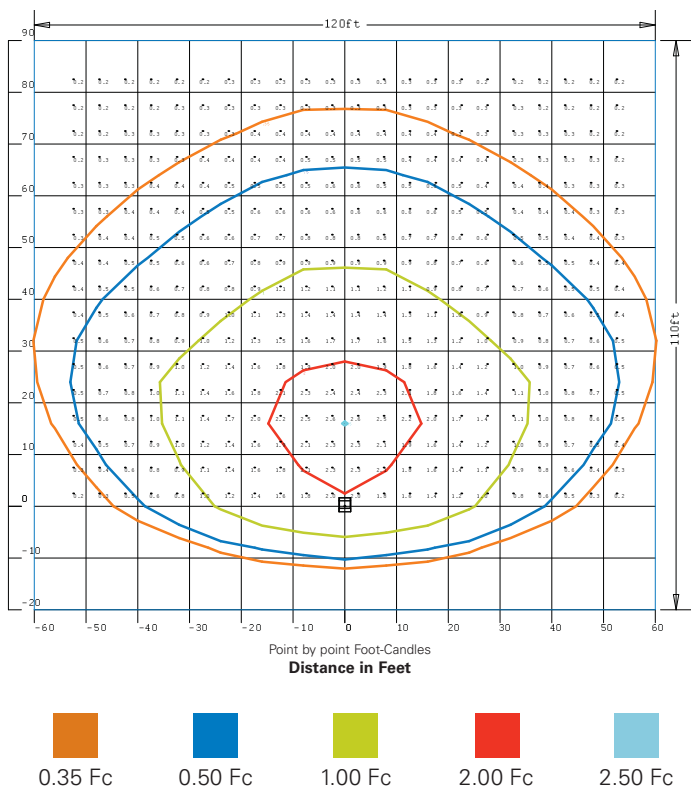
## Accessories (ordered separately)

<b>DSV2</b>	Bolt-on visor
<b>P62</b>	Bolt-on wire guard
<b>SC831</b>	Safety cable
<b>SFA6</b>	Floodlight slipfitter
<b>SWB6</b>	Slipfitter wall mount adapter

# Photometric data

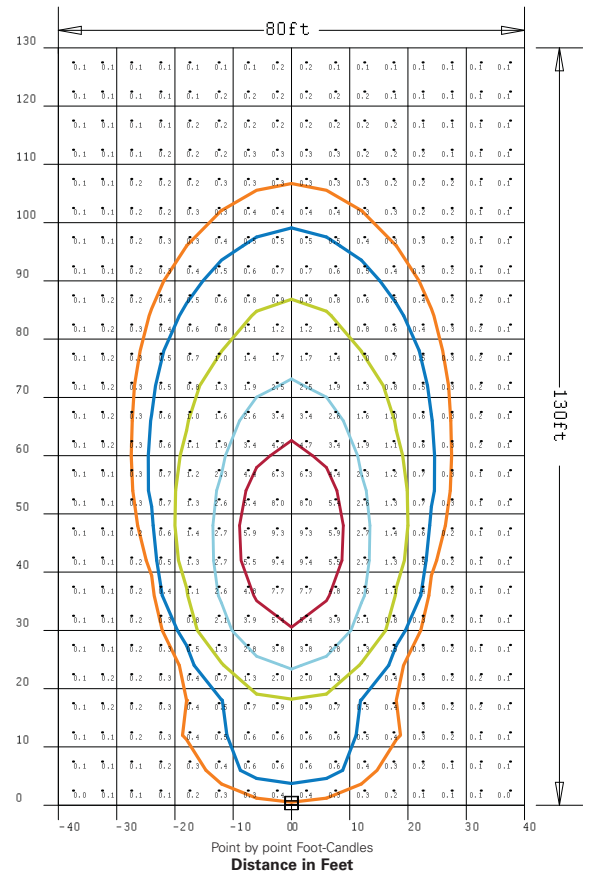
## 7x6 optics

PFM13L Height: 40 ft.; Tilt angle: 45°



## 3x3 optics

PFM11L Height: 30 ft.; Tilt angle: 45°



### Effective projected area (ft.-sq.):

Position	PFM3L - PFM15L
@ 0° Tilt	1.5
@ 45° Backwards tilt	1.1
@ 60° Forward tilt	0.8

### Lumen output for glass lens models

Optic	PFM3L	PFM5L	PFM7L	PFM9L	PFM11L	PFM13L	PFM15L
7x6	3,189	5,183	7,095	9,132	11,107	13,100	15,181
3x3	3,064	5,038	7,000	8,962	10,917	-	-

### Lumen output for diffused glass lens (S891) models

Optic	PFM3L	PFM5L	PFM7L	PFM9L	PFM11L	PFM13L	PFM15L
7x6	2,637	4,287	5,878	7,459	8,994	10,613	12,445
3x3	2,546	4,179	5,806	7,433	9,055	-	-

### Lumen output for polycarbonate lens (S903) models

Optic	PFM3L	PFM5L	PFM7L	PFM9L	PFM11L	PFM13L	PFM15L
7x6	3,017	4,903	6,712	8,639	10,507	12,393	14,361
3x3	2,924	4,808	6,680	8,552	10,418	-	-



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FAX Orders Only:  
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[crousecustomerctr@eaton.com](mailto:crousecustomerctr@eaton.com)

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[ventascentromex@eaton.com](mailto:ventascentromex@eaton.com)

**Europe (Germany)**

49 (0) 6271 806-500  
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**Eaton Middle East**

9714-8066100  
FAX: 9714-8894813  
[chmesales@eaton.com](mailto:chmesales@eaton.com)

**Singapore**

65-6645-9888  
FAX: 65-6297-4819  
[chsi-sales@cooperindustries.com](mailto:chsi-sales@cooperindustries.com)

**China**

86-21-2899-3600  
FAX: 86-21-2899-4055  
[cchsales@cooperindustries.com](mailto:cchsales@cooperindustries.com)

**Korea**

82-2-3484-6783  
82-2-3484-6778  
[CCHK-sales@cooperindustries.com](mailto:CCHK-sales@cooperindustries.com)

**Australia**

61-2-8787-2777  
FAX: 61-2-9609-2342  
[CEASales@cooperindustries.com](mailto:CEASales@cooperindustries.com)

**India**

91-124-4683888  
FAX: 91-124-4683899  
[cchindia@eaton.com](mailto:cchindia@eaton.com)

**Eaton's Crouse-Hinds**  
1201 Wolf Street  
Syracuse, NY 13208  
[Crouse-Hinds.com](http://Crouse-Hinds.com)

**Eaton**  
1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
[Eaton.com](http://Eaton.com)

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