

# Industrial Contender™ LED Luminaires

## For Ordinary Locations

### NEC/CEC:

cCSAus Listed  
Type 3R, 4, 4X  
IP66/67

Simultaneous Exposure

Suitable for Use in Wet Locations

Marine Outside Type (Salt Water) For USA ONLY

American Bureau of Shipping (ABS) Certified

### Applications

- Enclosed and gasketed fixtures suitable for use in:
  - A wide range of harsh industrial environments
  - Marine and wet locations
  - Areas of low clearance, low ceiling heights or where fixture weights must be minimized
- Typical industries include:
  - Pulp and paper mills
  - Processing plants
  - Manufacturing plants
  - Foundries
  - Waste treatment
  - Warehouses
  - Receiving areas
- Typical applications include:
  - Walkways/catwalks
  - Stairwells
  - Tunnels
  - Pipe racks
  - Processing areas

### Features

- Mounts directly to the following Crouse-Hinds™ + Champ® VMV mounting hoods:

Mounting Hoods	Model Number
Pendant	APM2, APM3
Flexible Pendant	HPM2
Ceiling	CM2, CM3
Wall	TWM2, TWM3
Quad	QM25
25° Stanchion	JM5
Straight Stanchion	PM5

- Compact light weight low profile design is suited for low mounting heights (less than 12 lbs).
- Customize to the application requirements with four different field replaceable globe options: clear and diffused polycarbonate, clear glass, or prismatic glass refractor.
- Three Correlated Color Temperatures (CCTs) for a wide variety of applications: Cool (5000K), Neutral (4000K) and Warm (3000K)
- Three light output levels for retrofit of HID fixtures up to 175 W.

Nominal Lumens ①	HID Equivalent	Model Number
3300	70-100W	IVMV3LCG5BU
4400	100-150W	IVMV4LCG5BU
5500	150-175W	IVMV5LCG5BU

- Standard 6 kV surge protection.
- Ambient Temperature: BU: -40 °C to +65 °C (-40 °F to +149 °F)  
BH: -40 °C up to +65 °C (-40 °F up to +149 °F)
- Heavy duty, high temperature silicone rubber gaskets.
- Fixture life rated at 100,000 Hours with a calculated fixture life of 200,000 hours @ +25 °C (+77 °F).
- Field replaceable globes and IP66 rated LED driver.
- Rugged housing with superior thermal design translates to long luminaire life.

① Nominal Lumen value for 5000K CCT, clear glass globe. Detailed lumen information is provided in tables.

+ Crouse-Hinds is a registered trademarks of Cooper Crouse-Hinds.



- Luminaire comes pre-wired with three conductors, approximately 12" long, of 14 AWG TEW wire from the IP68 watertight NPT hub at the top of the luminaire lid.

### Options

- Glass and Polycarbonate globe and glass refractor guards available, purchase separately.

### Standard Materials

- Luminaire body: cast copperfree (4/10 of 1% max.) aluminum
- All hardware: stainless steel
- Globe: polycarbonate or glass
- Refractor: heat-resistant prismatic glass
- Glass globe guard: stainless steel wire
- Glass refractor guard: die cast aluminum
- Reflector: fiberglass reinforced white polyester

### Standard Finishes

- Luminaire bodies and glass refractor guard: gray epoxy powder coat finish, electrostatically applied for complete uniform protection

### NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, Third Edition; UL 1598A, First Edition; UL 8750, Second Edition;
- CSA Standard: C22.2 No. 250.0-08; C22.2 No. 250.13-14
- cCSAus Listed: Master contract 164460; Certificate Number 7017002

### DesignLights™ Consortium

- Check DLC QPL for current list of products.

APPLETON™

LED/AREA: NEC/CEC ENCLOSED AND GASKETED

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### Illustrated Features

#### Heatsink

Reliable heat transfer via the cast, epoxy powder coat aluminum body. Provides maximum heat dissipation from the LED assembly to the outside environment.

#### Driver Assembly

IP66 rated driver utilizes non-sparking components avoiding the ignition of gases or vapors that may be present.

#### Globe Gaskets

Silicone rubber gaskets seal out moisture, dirt and dust. Stays flexible, withstands extreme temperatures. Closure design assures uniform gasket compression.



#### Watertight

Watertight IP68 rated bushing where cord enters luminaire hood ensures no water will enter the luminaire from the conduit through the mounting hood.

#### Epoxy Finish

Fixture housing, hoods and guards are copperfree aluminum with triple protection epoxy powder coat finish.

#### “Safety” Cable

Safety cable option threads through the fixture housing for additional safety.



#### Electrical Protection

External Grounding provisions for additional safety.

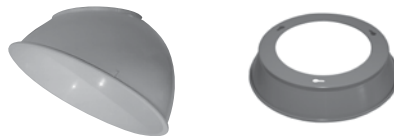


#### Prismatic Refractors

Heat-resistant refractor threads directly into fixture housing and seal against a high-temperature silicone rubber gasket.

#### Angeled Reflector and Visor

Angeled reflector is thick, tough fiberglass reinforced white polyester. Visor is aluminum with electrostatically applied, gray epoxy powder coat finish. Quickly attach either accessory to luminaire with furnished stainless steel screws.

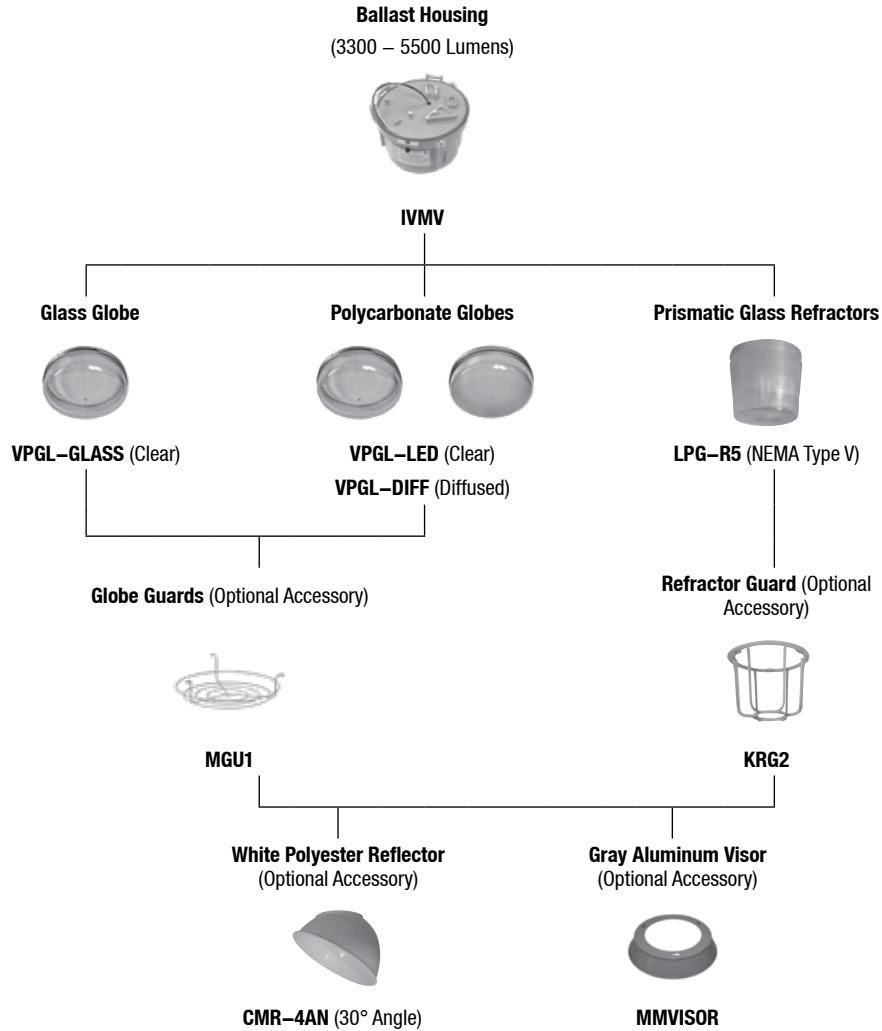


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### Contender™ LED Family Tree



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Order using catalog numbering guides below or select catalog number from tables on following pages.

### Catalog Numbering Guide

#### For Hazardous Locations:

**IVMV**

IVMV - Industrial Contender LED Series

**3L**

Lumen Output ①:  
3L - 3K Lumens  
4L - 4K Lumens  
5L - 5K Lumens

**C**

Color Temperature:  
C - Cool 5000K CCT  
N - Neutral 4000K CCT  
W - Warm 3000K CCT

**P5**

Globe Material ②:  
P5 - NEMA Type V Clear Polycarbonate Globe  
D5 - NEMA Type V Diffused Polycarbonate Globe  
G5 - NEMA Type V Glass Globe  
J5 - NEMA Type V Glass Refractor

**BU**

Voltage:  
BU - 120-277 Vac, 50/60Hz;  
or 125-300Vdc  
BH - 347-480 Vac, 50/60Hz

APPLETON™

LED/AREA: NEC/CEC ENCLOSED AND GASKETED

① For specific lumen output information, see Lumen Output table.

② Guards for the glass refractor and globes are ordered separately. See the Accessories section for more information.

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Lumen Values Table ①②

Model	Lumens ①			Type V Prismatic Glass Refractor	CRI ②	Color Temp CCT	Equivalent HID Luminaire
	Polycarbonate Clear Globe	Polycarbonate Diffused Globe	Glass Clear Globe				
<b>NEMA Type V</b>							
IVMV3L	3200	3100	3300	3000			70-100W
IVMV4L	4200	4100	4400	4000	>70	5000K	100-150W
IVMV5L	5300	5150	5500	4900			150-175W
<b>NEMA Type V</b>							
IVMV3L	3000	2900	3100	2800			70-100W
IVMV4L	4000	3900	4200	3800	>70	4000K	100-150W
IVMV5L	5000	4900	5200	4650			150-175W
<b>NEMA Type V</b>							
IVMV3L	3000	2900	3100	2800			70-100W
IVMV4L	3900	3800	4100	3700	>70	3000K	100-150W
IVMV5L	4900	4800	5100	4600			150-175W

① All lumen values are typical (tolerance +/- 10%).

② 70 minimum.

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### Electrical Ratings ①

Model	Voltage	Input Power (Watts)	Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)
IVMV3L	120 Vac	28.0	.28	> .94	< 20%
	277 Vac	28.0	.13		
	125 Vdc	27.2	.24	—	
	300 Vdc	27.2	.09		
	347 Vac	29.7	.10	> .93	
	480 Vac	29.8	.06		
IVMV4L	120 Vac	38.0	.38	> .96	< 20%
	277 Vac	38.0	.16		
	125 Vdc	37.4	.32	—	
	300 Vdc	39.0	.13		
	347 Vac	39.6	.13	> .96	
	480 Vac	39.7	.08		
IVMV5L	120 Vac	48.0	.48	> .97	< 20%
	277 Vac	48.0	.20		
	125 Vdc	50.2	.40	—	
	300 Vdc	48.0	.16		
	347 Vac	50.5	.16	> .97	
	480 Vac	50.4	.10		

① All values are typical (tolerance +/-10%).

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Fixture Unit — Ballast Body and Globe or Refractor



Lumen Level	LED Wattage	Light Level Equivalent	NEMA Type	Catalog Number ①			
				Polycarbonate Globe ①②③	Polycarbonate Diffused Globe ①②③	Glass Globe ①②③	With Type V Glass Refractor ①②③
<b>Fixture Housing - For Ordinary Locations</b>							
3K	28	70-100W HPS	Type V	IVMV3LCP5	IVMV3LCD5	IVMV3LCG5	IVMV3LCJ5
4K	38	100-150W HPS	Type V	IVMV4LCP5	IVMV4LCD5	IVMV4LCG5	IVMV4LCJ5
5K	48	150-175W HPS	Type V	IVMV5LCP5	IVMV5LCD5	IVMV5LCG5	IVMV5LCJ5

### Replacement Parts

	Description	Catalog Number
<b>Globes and Gaskets</b>		
	Clear Globe (polycarbonate)	VPGL-LED
	Diffused Globe (polycarbonate)	VPGL-DIFF
	Glass Globe	VPGL-GLASS
<b>Closed Prismatic Glass Refractors — All Heat-Resistant</b>		
	NEMA Type V	LPG-R5
<b>Glass Refractor</b>		

① For 120-277 Vac, use suffix **-BU**. For 347-480 Vac, use suffix **-BH**.

② Guards are available for fixtures with glass globe or refractor. See following pages for accessory ordering information.






③ Correlated Color Temperature (CCT) indicated by C, N or W; C = Cool, 5000K CCT, N = Neutral, 4000K CCT, W = Warm, 3000K CCT. Example: **IVMV5LCD5BU**.

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### Accessories

		Description	Catalog Number
<b>White Polyester Reflectors</b>			
		30° Angle	CMR-4AN
	30° Angle		
<b>Guards</b>			
		Glass Globe Guard	MGU1
	Glass Globe Guard		
		Refractor Guard	KRG2
	Refractor Guard		
<b>Safety Cable</b>			
		Stainless steel.	LEDSC
<b>Visor</b>			
		Electrostatically applied gray epoxy powder coat finish on Aluminum Visor	MMVISOR

### Replacement Drivers

	Voltage	Driver Wattage	Luminaire Model	Constant Current Settings	Catalog Number
	BU	50 Watt	IVMV3L	720mA	APMS050C135UD72
	BH			720mA	APMS050C135HD72
	BU	50 Watt	IVMV4L	1000mA	APMS050C135UD10
	BH			1000mA	APMS050C135HD10
	BU	50 Watt	IVMV5L	1300mA	APMS050C135UD13
	BH			1300mA	APMS050C135HD13

### Contender™ LED Low Profile Fixture and Globe Weights

Description	Weight kg (lb)
Fixture Unit (with polycarbonate globe)	5.30 (11.80)
Clear Glass Globe	0.88 (1.95)
Clear and Diffused Polycarbonate Globe	0.23 (0.50)
Prismatic Glass Refractor	2.30 (5.10)



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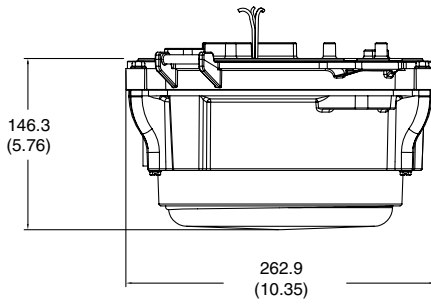
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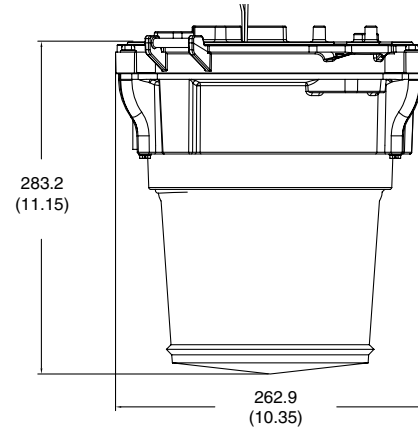
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### Dimensions in Millimeters (Inches)



Clear/Diffused/Glass Globes



Closed Prismatic Glass Refractor

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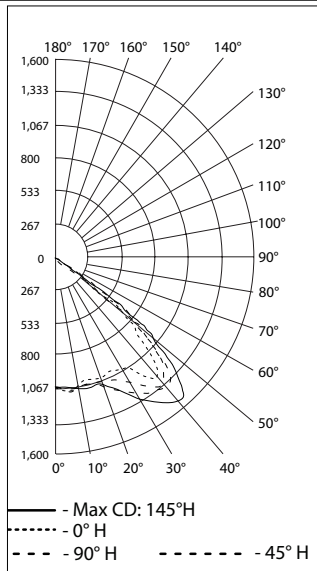
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Type V, Clear Polycarbonate 5000K CCT

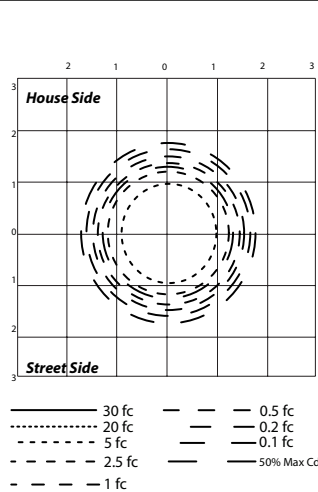
REPORT NUMBER: IVMV3LCP5BU

Luminaire Lumens 3,198

#### POLAR CANDELA DISTRIBUTION



#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	932.7	29.2%
0-40	1,750.7	54.7%
0-60	3,144.3	98.3%
60-90	48.0	1.5%
70-100	17.6	0.6%
90-120	4.8	0.2%
0-90	3,192.3	99.8%
90-180	5.7	0.2%
0-180	3,198.0	100%

#### LUMENS PER ZONE

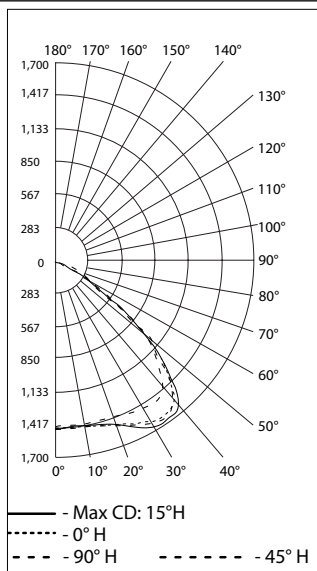
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	102.0	3.2%	90-100	1.9	0.1%
10-20	302.3	9.5%	100-110	1.9	0.1%
20-30	528.5	16.5%	110-120	1.0	0%
30-40	817.9	25.6%	120-130	0.8	0%
40-50	969.4	30.3%	130-140	0.0	0%
50-60	424.2	13.3%	140-150	0.0	0%
60-70	32.3	1.0%	150-160	0.0	0%
70-80	10.3	0.3%	160-170	0.0	0%
80-90	5.4	0.2%	170-180	0.0	0%

Type V, Clear Polycarbonate 5000K CCT

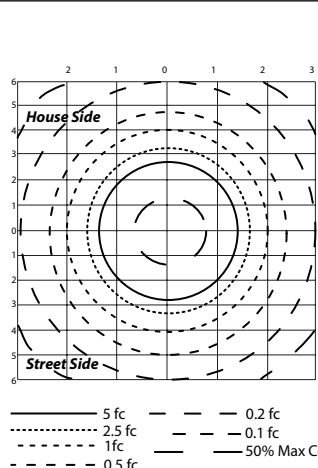
REPORT NUMBER: IVMV3LCD5BU

Luminaire Lumens 3,103

#### POLAR CANDELA DISTRIBUTION



#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	903.1	29.1%
0-40	1,609.3	51.9%
0-60	2,795.0	90.1%
60-90	283.4	9.1%
70-100	107.9	3.5%
90-120	24.0	0.8%
0-90	3,078.4	99.2%
90-180	25.3	0.8%
0-180	3,103.7	100%

#### LUMENS PER ZONE

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	100.3	3.2%	90-100	9.0	0.3%
10-20	298.2	9.6%	100-110	10.7	0.3%
20-30	504.6	16.3%	110-120	4.3	0.1%
30-40	706.2	22.8%	120-130	1.2	0%
40-50	735.2	23.7%	130-140	0.1	0%
50-60	450.5	14.5%	140-150	0.0	0%
60-70	184.5	5.9%	150-160	0.0	0%
70-80	75.4	2.4%	160-170	0.0	0%
80-90	23.5	0.8%	170-180	0.0	0%

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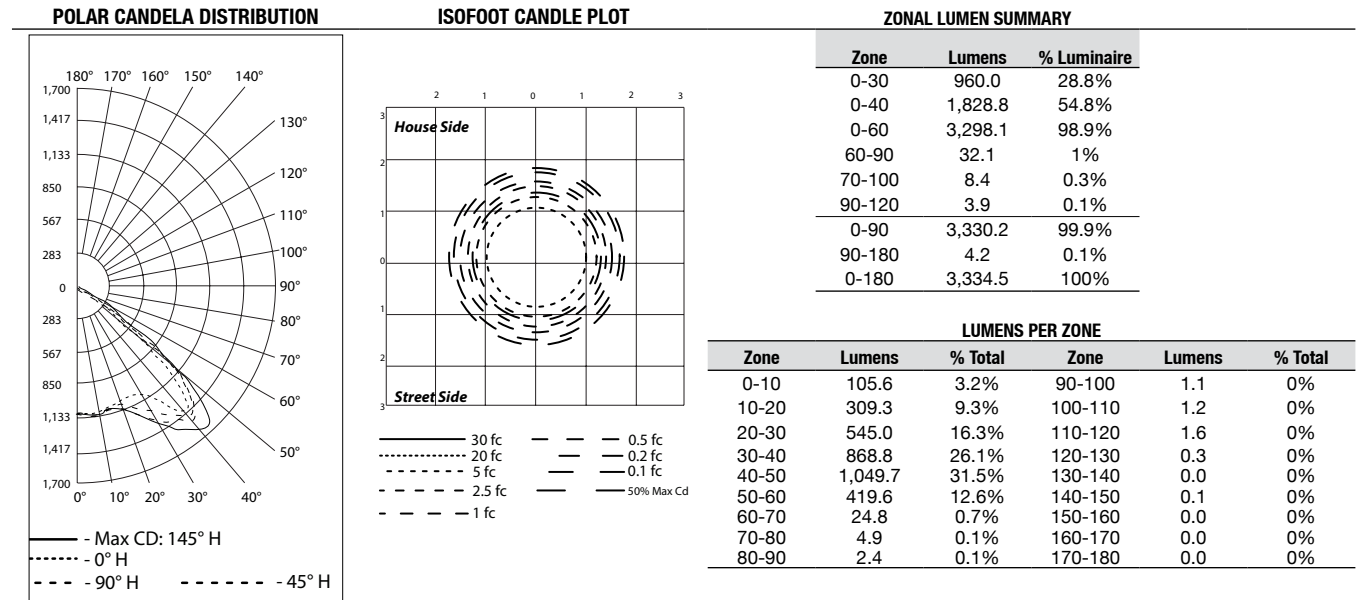
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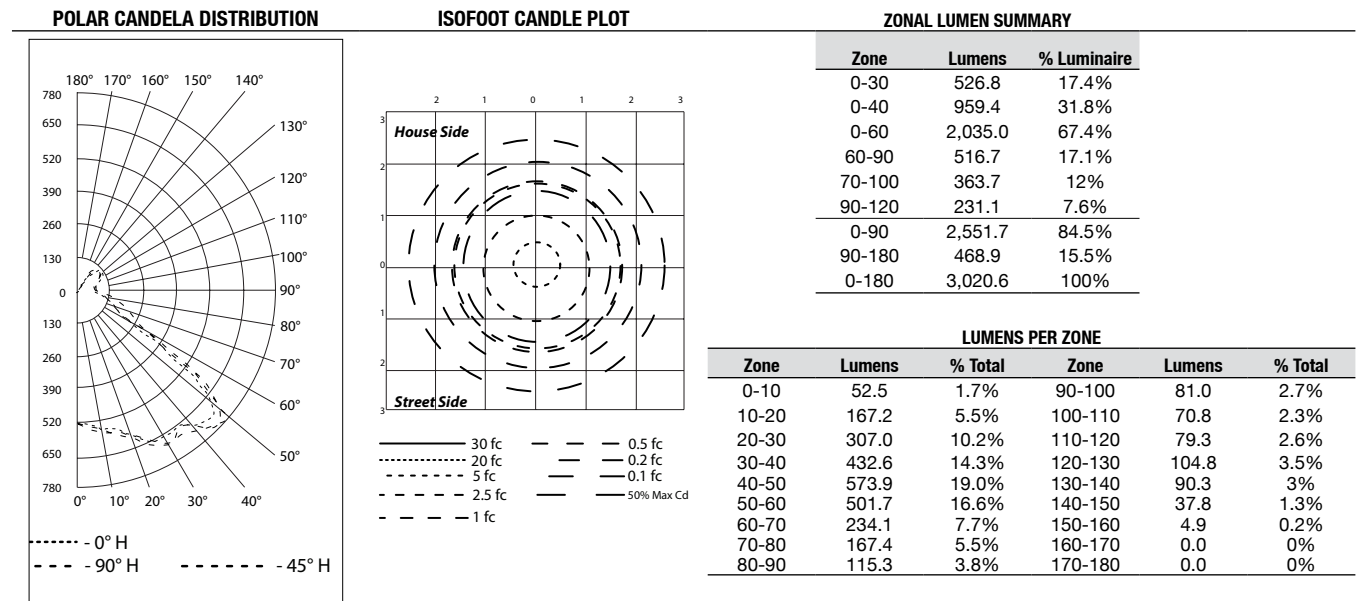
Type V, Clear Polycarbonate 5000K CCT  
 REPORT NUMBER: IVMV3LCG5BU

Luminaire Lumens 3,334



Type V, Clear Polycarbonate 5000K CCT  
 REPORT NUMBER: IVMV3LCJ5BU

Luminaire Lumens 3,020



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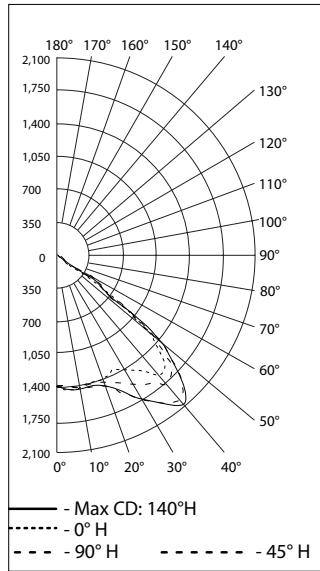
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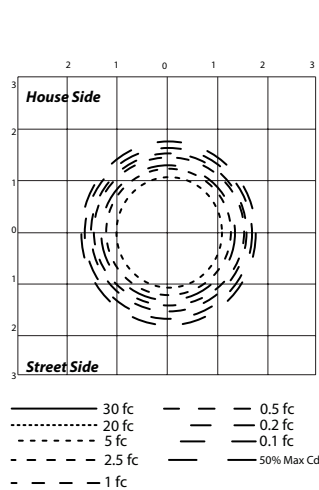
REPORT NUMBER: IVMV4LCP5BU

Luminaire Lumens 4,234

#### POLAR CANDELA DISTRIBUTION



#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	1,229.4	29%
0-40	2,320.7	54.8%
0-60	4,178.7	98.7%
60-90	49.5	1.2%
70-100	18.7	0.4%
90-120	5.2	0.1%
0-90	4,228.2	99.9%
90-180	6.0	0.1%
0-180	4,234.3	100%

#### LUMENS PER ZONE

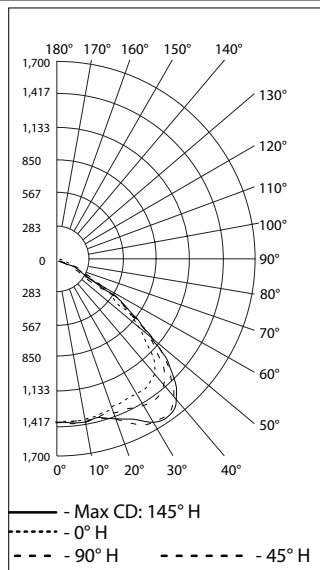
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	134.1	3.2%	90-100	2.3	0.1%
10-20	396.8	9.4%	100-110	1.9	0%
20-30	698.5	16.5%	110-120	1.0	0%
30-40	1,091.3	25.8%	120-130	0.8	0%
40-50	1,302.8	30.8%	130-140	0.0	0%
50-60	555.3	13.1%	140-150	0.0	0%
60-70	33.0	0.8%	150-160	0.0	0%
70-80	10.5	0.2%	160-170	0.0	0%
80-90	5.9	0.1%	170-180	0.0	0%

Type V, Clear Polycarbonate 5000K CCT

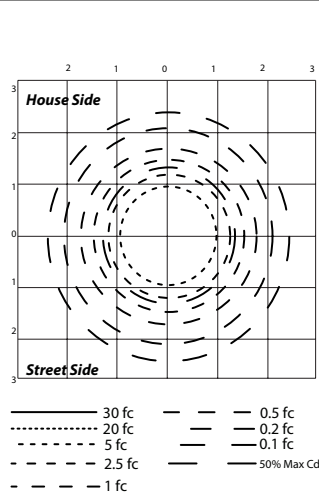
REPORT NUMBER: IVMV4LCD5BU

Luminaire Lumens 4,151

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#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	1,206.1	29.1%
0-40	2,153.6	51.9%
0-60	3,742.1	90.2%
60-90	375.5	9%
70-100	142.2	3.4%
90-120	31.3	0.8%
0-90	4,117.6	99.2%
90-180	33.1	0.8%
0-180	4,150.7	100%

#### LUMENS PER ZONE

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	133.5	3.2%	90-100	11.7	0.3%
10-20	397.0	9.6%	100-110	14.0	0.3%
20-30	675.6	16.3%	110-120	5.5	0.1%
30-40	947.5	22.8%	120-130	1.6	0%
40-50	986.1	23.8%	130-140	0.1	0%
50-60	602.4	14.5%	140-150	0.1	0%
60-70	245.0	5.9%	150-160	0.0	0%
70-80	99.5	2.4%	160-170	0.0	0%
80-90	30.9	0.7%	170-180	0.0	0%

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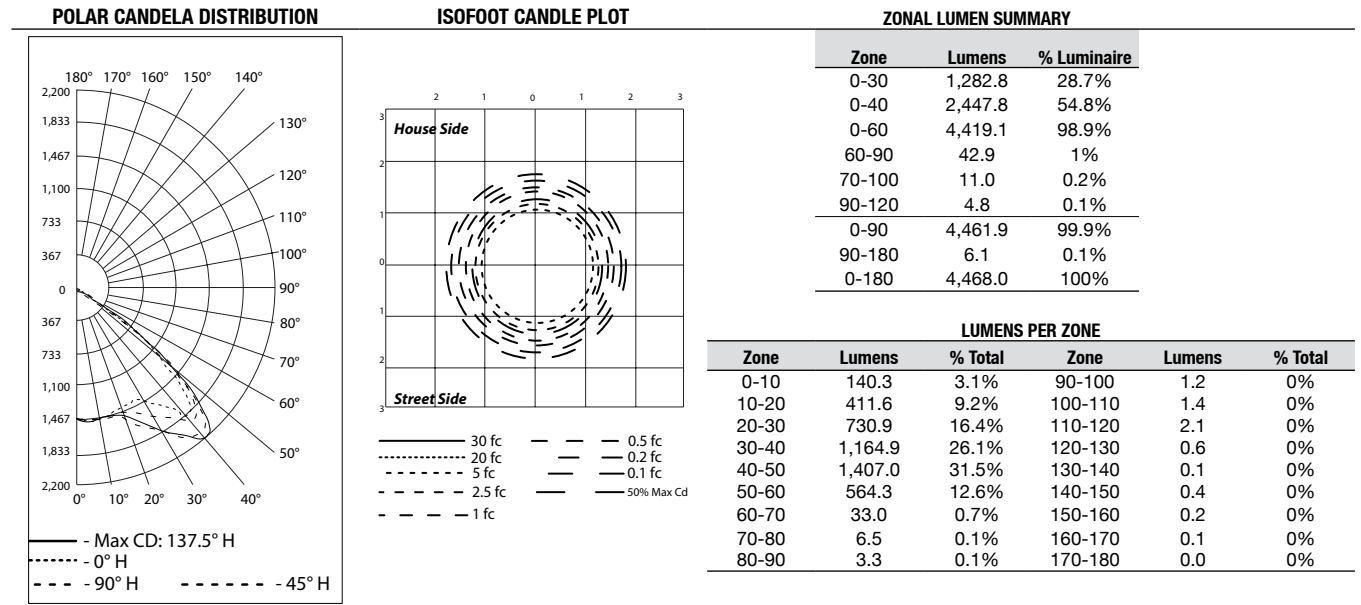
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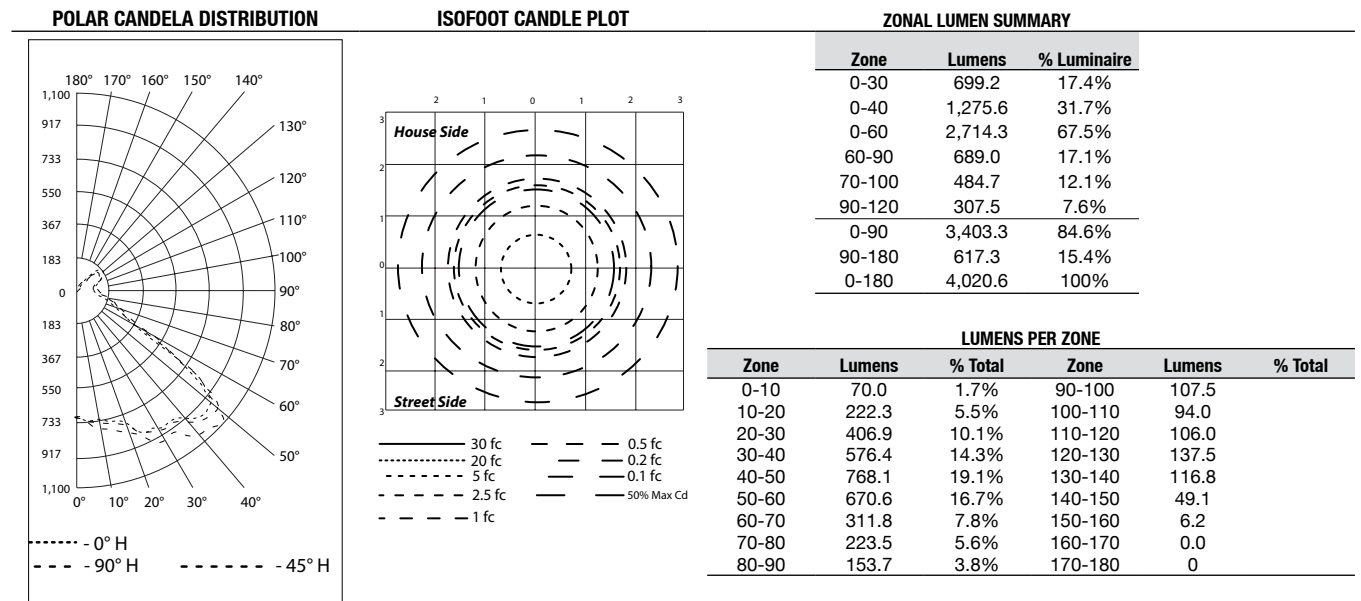
Type V, Clear Polycarbonate 5000K CCT  
 REPORT NUMBER: IVMV4LCG5BU

Luminaire Lumens 4,468



Type V, Clear Polycarbonate 5000K CCT  
 REPORT NUMBER: IVMV4LCJ5BU

Luminaire Lumens 4,020



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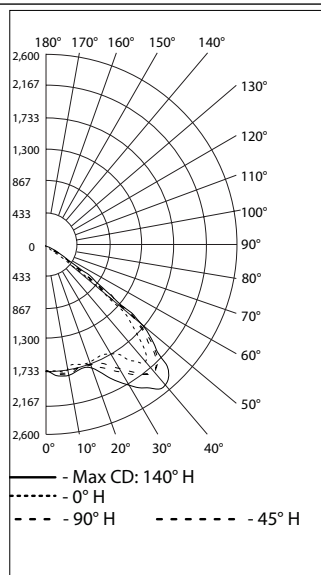
## Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

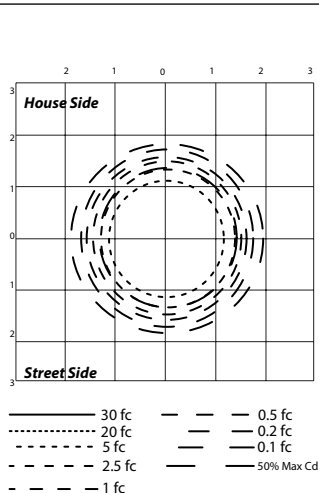
REPORT NUMBER: IVMV5LCP5BU

Luminaire Lumens 5,330

### POLAR CANDELA DISTRIBUTION



### ISOFOOT CANDLE PLOT



### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	1,525.8	28.6%
0-40	2,872.5	53.9%
0-60	5,237.4	98.3%
60-90	82.4	1.5%
70-100	29.4	0.6%
90-120	7.9	0.1%
0-90	5,319.8	99.8%
90-180	10.7	0.2%
0-180	5,330.5	100%

### LUMENS PER ZONE

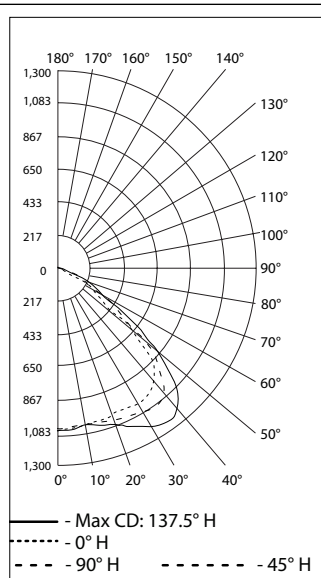
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	166.7	3.1%	90-100	3.1	0.1%
10-20	493.8	9.3%	100-110	3.0	0.1%
20-30	865.2	16.2%	110-120	1.7	0%
30-40	1,346.8	25.3%	120-130	0.9	0%
40-50	1,619.8	30.4%	130-140	0.6	0%
50-60	745.2	14.0%	140-150	0.6	0%
60-70	56.1	1.1%	150-160	0.4	0%
70-80	17.0	0.3%	160-170	0.2	0%
80-90	9.2	0.2%	170-180	0.1	0%

Type V, Clear Polycarbonate 5000K CCT

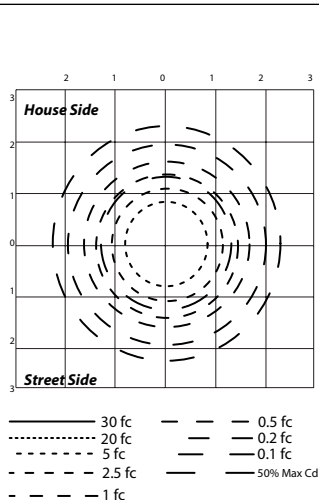
REPORT NUMBER: IVMV5LCD5BU

Luminaire Lumens 5,150

### POLAR CANDELA DISTRIBUTION



### ISOFOOT CANDLE PLOT



### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	1,484.5	28.8%
0-40	2,652.4	51.5%
0-60	4,632.4	89.9%
60-90	475.6	9.2%
70-100	180.0	3.5%
90-120	39.1	0.8%
0-90	5,108.0	99.2%
90-180	42.1	0.8%
0-180	5,150.1	100%

### LUMENS PER ZONE

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	164.4	3.2%	90-100	14.5	0.3%
10-20	488.7	9.5%	100-110	17.8	0.3%
20-30	831.4	16.1%	110-120	6.9	0.1%
30-40	1,167.9	22.7%	120-130	2.0	0%
40-50	1,223.7	23.8%	130-140	0.3	0%
50-60	756.3	14.7%	140-150	0.2	0%
60-70	310.0	6.0%	150-160	0.2	0%
70-80	125.8	2.4%	160-170	0.1	0%
80-90	39.8	0.8%	170-180	0.1	0%

# Industrial Contender™ LED Luminaires

## For Ordinary Locations

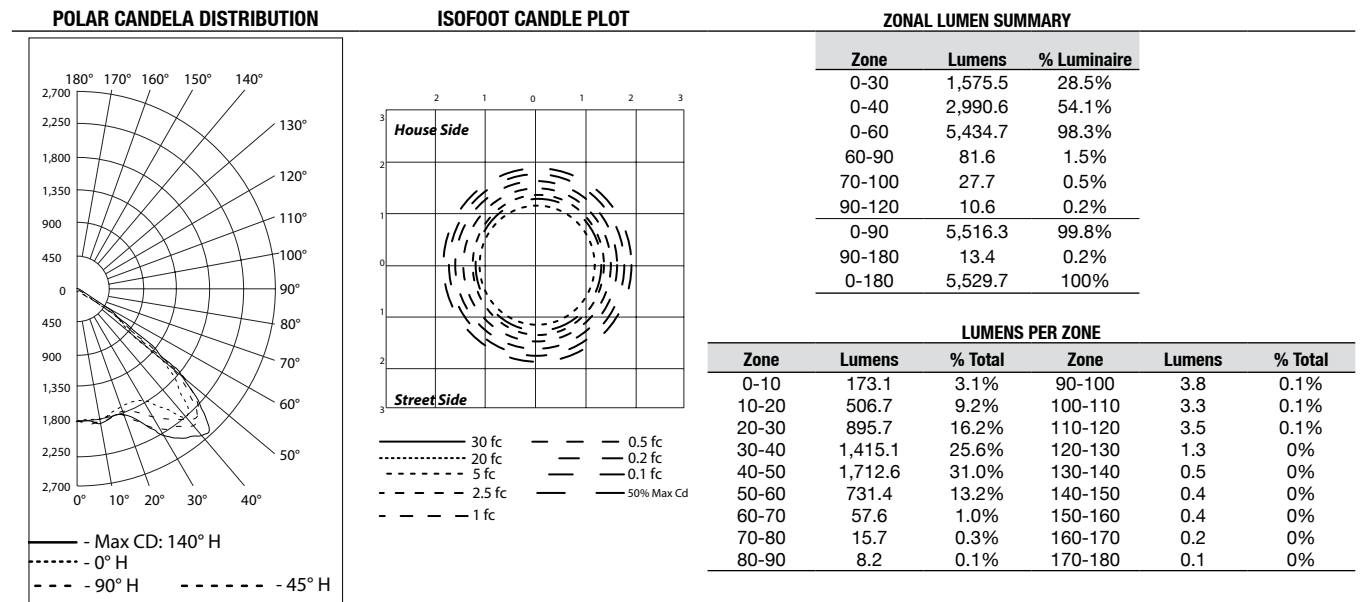
NEC/CEC:  
 cCSAus Listed  
 Type 3R, 4, 4X  
 IP66/67  
 Simultaneous Exposure  
 Suitable for Use in Wet Locations  
 Marine Outside Type (Salt Water) For USA ONLY  
 American Bureau of Shipping (ABS) Certified

### Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

REPORT NUMBER: IVMV5LCG5BU

Luminaire Lumens 5,529



Type V, Clear Polycarbonate 5000K CCT

REPORT NUMBER: IVMV5LCJ5BU

Luminaire Lumens 4,940

