

# Contender™ LED Luminaires

## Enclosed and Gasketed Fixtures

**NEC/CEC:**  
 Class I, Division 2, Groups A,B,C,D  
 Class I, Zone 2, Group IIC  
 Class II, Division 1, Groups E,F,G  
 Zone 21 and 22, Group IIIC  
 Class II, Division 2, Groups F,G  
 Class III

**NEC/CEC:**  
 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 industrial, chemical processing and other areas where flammable gases, vapors and combustible dusts and fibers are present including simultaneous exposure
  - 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
  - Chemical plants
  - Petrochemical facilities
  - Oil refineries
  - Drilling rigs
  - Foundries
  - Waste treatment
  - Mining
  - Steel mills
- Typical applications include:
  - Walkways/catwalks
  - Stairwells
  - Grain elevators
  - Tunnels
  - Pipe racks
  - Offshore rigs
  - Vessel lighting
  - Cooling towers
  - 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 light output levels for retrofit of HID fixtures up to 175 W.

Nominal Lumens ②	HID Equivalent	Model Number
3300	70-100W	VMV3LCG5BU
4400	100-150W	VMV4LCG5BU
5500	150-175W	VMV5LCG5BU

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.



- 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.
- Lamp 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.
- Luminaire comes pre-wired with 12" of 14 AWG SOOW cable protruding from the IP68 watertight NPT hub at the top of the luminaire lid.

### Options

- Glass globe and glass refractor guard 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 50E, Second Edition; UL 844, Thirteenth Edition; UL 1598, Third Edition; UL 1598A, First Edition; UL 8750, Second Edition;
- CSA Standard: C22.2 No 0-10; C22.2 No. 94.2-15; C22.2 No. E60598-1:16; C22.2 No. 137-M1981; C22.2 No. 250.0-08; C22.2 No. 250.13-14; C22.2 No. 60529:16
- cCSAus Listed: Master contract 164460; Certificate Number 70170001

### DesignLights™ Consortium

- Check DLC QPL for current list of products.

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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.

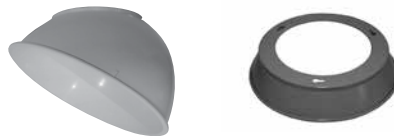


#### Prismatic Refractors

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.



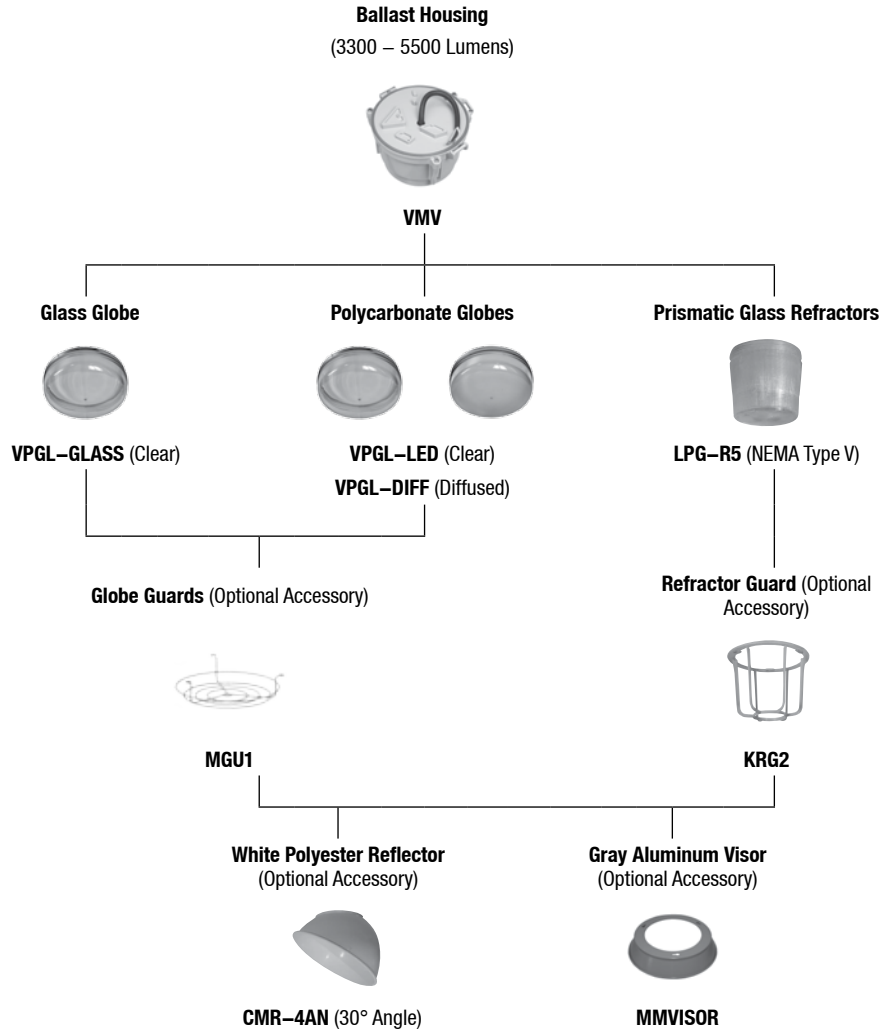
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### Contender™ LED Family Tree



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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:

**VMV**

VMV - NEC/CEC Certified  
Contender LED Series

**3L**

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

**C**

Color Temperature:  
C - Cool 5000K 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, ATEX/IECx ENCLOSED AND GASKETED

① For specific lumen output information, see Lamp Comparison Chart.

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

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### Technical Data

Lamp		Ambient Temperature °C (°F)	Supply Wire Temperature °C (°F)	NEC/CEC				Gas/Dust  Simultaneous ① Class I, Division 2/ Class II, Division 1
Model	Type			Gas	Dust	Gas/Dust		
				Class I, Division 2 Groups A, B, C, D ①	Class I, Zone 2 Group IIC	Class II, Division 1, Groups E, F and G ②	Zone 20, Group IIIC,	
	LED	40 (104)	90 (194)	T4A	T4	T6	T6	T4A
VMV3L	LED	55 (131)	90 (194)	T4	T4	T6	T6	T4
	LED	65 (149)	90 (194)	T4	T4	T5	T5	T4
	LED	40 (104)	90 (194)	T4A	T4	T6	T6	T4A
VMV4L	LED	55 (131)	90 (194)	T4	T4	T6	T6	T4
	LED	65 (149)	90 (194)	T4	T4	T5	T5	T4
	LED	40 (104)	90 (194)	T4A	T4	T6	T6	T4A
VMV5L	LED	55 (131)	90 (194)	T4	T4	T6	T6	T4
	LED	65 (149)	90 (194)	T4	T4	T5	T5	T4

“T” Numbers Represent the Maximum Internal Temperature ① or Maximum Surface Temperature ②

“T” #	NEC/CEC															
	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range °C (°F)	351-450 (664-842)	326-350 (619-662)	301-325 (574-617)	281-300 (538-572)	261-280 (502-536)	231-260 (448-500)	216-230 (421-446)	201-215 (394-419)	181-200 (358-392)	166-180 (331-356)	161-165 (322-329)	136-160 (277-320)	121-135 (250-275)	101-120 (214-248)	86-100 (187-212)	85 (185)

① T numbers represent the maximum internal temperature for Class I, Division 2 and Class I, Zone 2 locations designated by the NEC.  
 ② T numbers represent the maximum surface temperature under a dust blanket for Class II, Division 1 as designated by the NEC.

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## Enclosed and Gasketed Fixtures

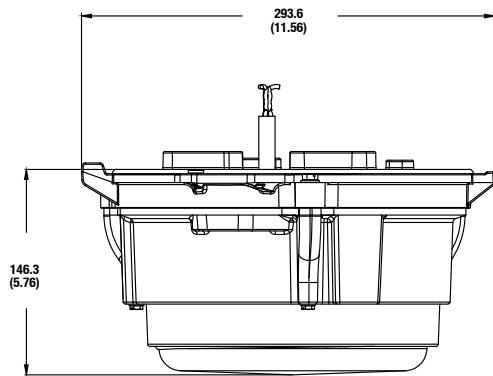
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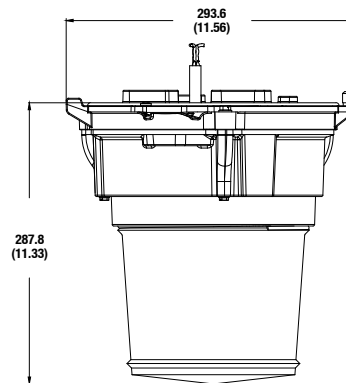
### Electrical Specification

Model	Line Current Amps (50/60Hz)	Input Power	Power Factor	THD	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>											
VMV3L	.28 @120V	28.0	> .94	< 20%	3200	3100	3300	3000	> 70	5000K	70-100W
	.13 @277V	28.0									
	.16 @170V	27.2									
	.09 @300V	27.2									
	.10 @347V	29.7									
	.06 @480V	29.8									
VMV4L	.38 @120V	38.0	> .96	< 20%	4300	4200	4400	4000	> 70	5000K	100-150W
	.16 @277V	38.0									
	.22 @170V	37.4									
	.13 @300V	39.0									
	.13 @347V	39.6									
	.08 @480V	39.7									
VMV5L	.48 @120V	48.0	> .97	< 20%	5300	5150	5500	4900	> 70	5000K	150-175W
	.20 @277V	48.0									
	.29 @170V	49.3									
	.16 @300V	48.0									
	.16 @347V	50.5									
	.10 @480V	50.4									

### Dimensions in Millimeters (Inches)



Clear/Diffused/Glass Globes



Closed Prismatic Glass Refractor

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

② 70 minimum.

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Fixture Unit — Ballast Body and Globe or Refractor



Lumen Level	LED Wattage	Light Level Equivalent	NEMA Type	Catalog Number ①			
				With Type V Polycarbonate Globe ①	With Type V Polycarbonate Diffused Globe ①	Glass Globe ①②	With Type V Glass Refractor ①②
<b>NEC/CEC Certified Fixture Housing - For Hazardous Locations</b>							
3K	28	70-100W HPS	Type V	VMV3LCP5	VMV3LCD5	VMV3LCG5	VMV3LCJ5
4K	38	100-150W HPS	Type V	VMV4LCP5	VMV4LCD5	VMV4LCG5	VMV4LCJ5
5K	48	150-175W HPS	Type V	VMV5LCP5	VMV5LCD5	VMV5LCG5	VMV5LCJ5

### 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>Light Distribution</b>		<b>Catalog Number</b>
	NEMA Type V	LPG-R5
<b>Closed Prismatic Glass Refractors — All Heat-Resistant</b>		
<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 globe or refractor. See following pages for accessory ordering information.







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### Accessories

		Description	Catalog Number		
<b>White Polyester Reflectors</b>					
		30° Angle	CMR-4AN		
<b>Guards</b>					
		Glass Globe Guard	MGU1		
		Refractor Guard	KRG2		
<b>Safety Cable</b>					
		Stainless steel.	LEDSC		
<b>Visor</b>					
		Electrostatically applied gray epoxy powder coat finish on Aluminum Visor	MMVISOR		
<b>Replacement Drivers</b>					
	<b>Voltage</b>	<b>Driver Wattage</b>	<b>Luminaire Model</b>	<b>Constant Current Settings</b>	<b>Catalog Number</b>
	BU	50 Watt	VMV3L	720mA	APMS050C135UD72
	BH		VMV3L	720mA	APMS050C135HD72
	BU	50 Watt	VMV4L	1000mA	APMS050C135UD10
	BH		VMV4L	1000mA	APMS050C135HD10
	BU	50 Watt	VMV5L	1300mA	APMS050C135UD13
	BH		VMV5L	1300mA	APMS050C135HD13
<b>Contender™ LED Low Profile Fixture and Globe Weights</b>					
<b>Description</b>					<b>Weight kg (lb)</b>
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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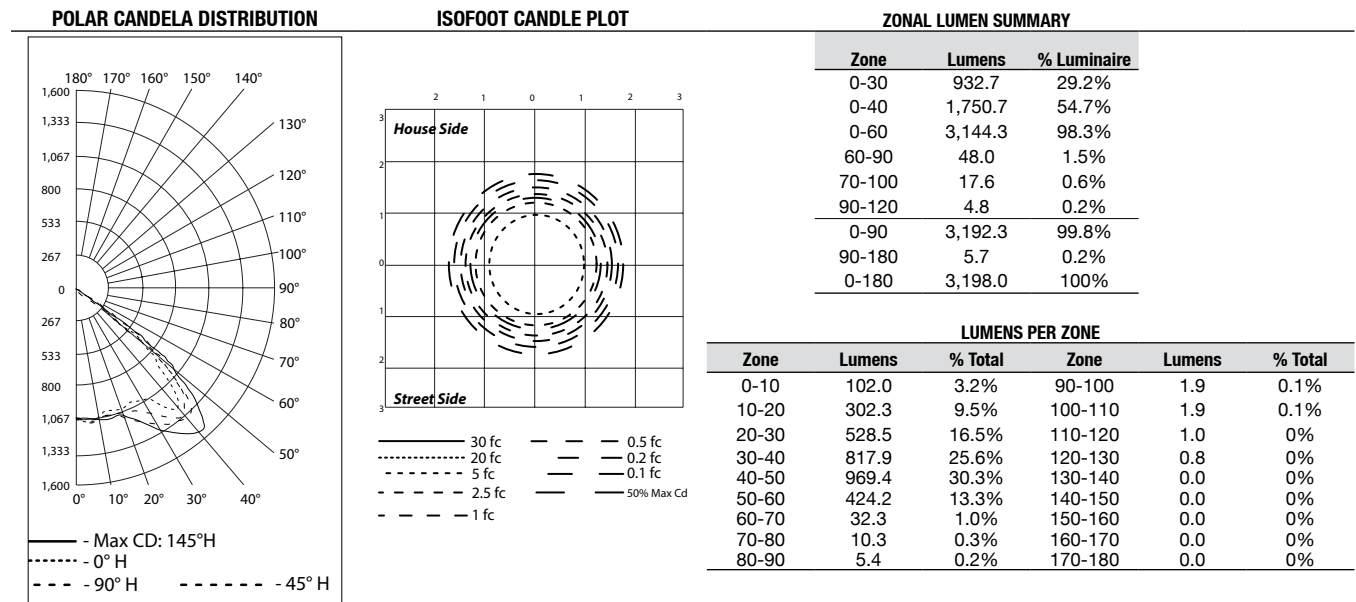
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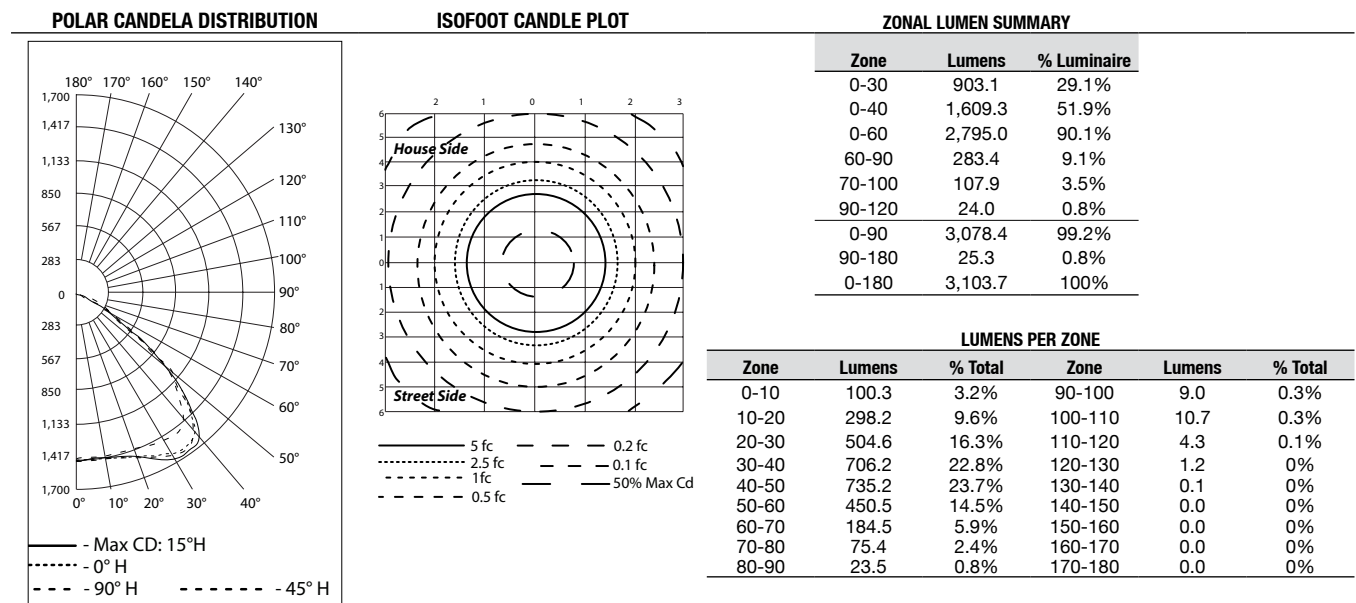
**Type V, Clear Polycarbonate 5000K CCT**  
 REPORT NUMBER: VMV3LCP5BU

Luminaire Lumens 3,198



**Type V, Clear Polycarbonate 5000K CCT**  
 REPORT NUMBER: VMV3LCD5BU

Luminaire Lumens 3,103



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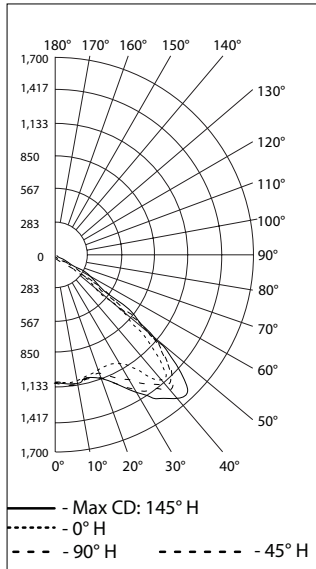
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**Type V, Clear Polycarbonate 5000K CCT**

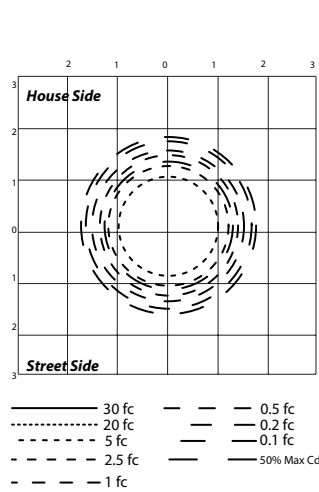
REPORT NUMBER: **VMV3LCG5BU**

Luminaire Lumens 3,334

#### POLAR CANDELA DISTRIBUTION



#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	960.0	28.8%
0-40	1,828.8	54.8%
0-60	3,298.1	98.9%
60-90	32.1	1%
70-100	8.4	0.3%
90-120	3.9	0.1%
0-90	3,330.2	99.9%
90-180	4.2	0.1%
0-180	3,334.5	100%

#### LUMENS PER ZONE

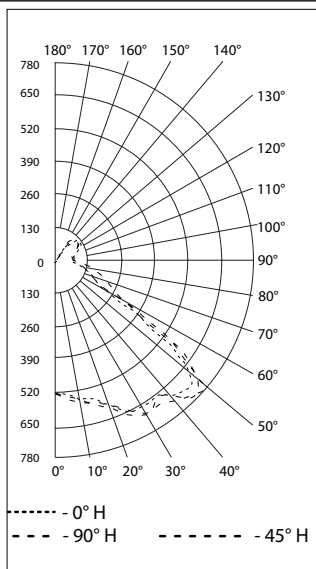
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	105.6	3.2%	90-100	1.1	0%
10-20	309.3	9.3%	100-110	1.2	0%
20-30	545.0	16.3%	110-120	1.6	0%
30-40	868.8	26.1%	120-130	0.3	0%
40-50	1,049.7	31.5%	130-140	0.0	0%
50-60	419.6	12.6%	140-150	0.1	0%
60-70	24.8	0.7%	150-160	0.0	0%
70-80	4.9	0.1%	160-170	0.0	0%
80-90	2.4	0.1%	170-180	0.0	0%

**Type V, Clear Polycarbonate 5000K CCT**

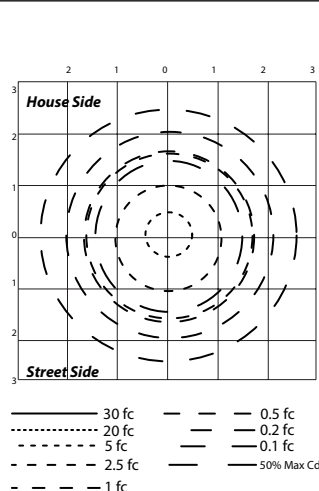
REPORT NUMBER: **VMV3LCJ5BU**

Luminaire Lumens 3,020

#### POLAR CANDELA DISTRIBUTION



#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	526.8	17.4%
0-40	959.4	31.8%
0-60	2,035.0	67.4%
60-90	516.7	17.1%
70-100	363.7	12%
90-120	231.1	7.6%
0-90	2,551.7	84.5%
90-180	468.9	15.5%
0-180	3,020.6	100%

#### LUMENS PER ZONE

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	52.5	1.7%	90-100	81.0	2.7%
10-20	167.2	5.5%	100-110	70.8	2.3%
20-30	307.0	10.2%	110-120	79.3	2.6%
30-40	432.6	14.3%	120-130	104.8	3.5%
40-50	573.9	19.0%	130-140	90.3	3%
50-60	501.7	16.6%	140-150	37.8	1.3%
60-70	234.1	7.7%	150-160	4.9	0.2%
70-80	167.4	5.5%	160-170	0.0	0%
80-90	115.3	3.8%	170-180	0.0	0%

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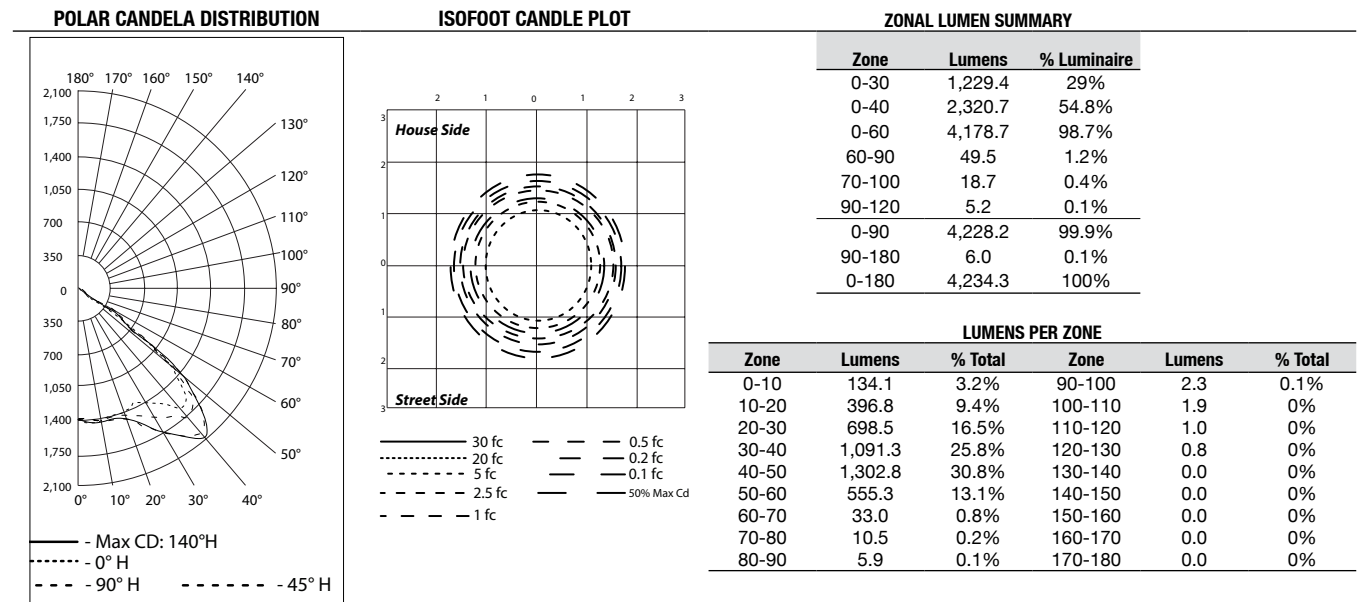
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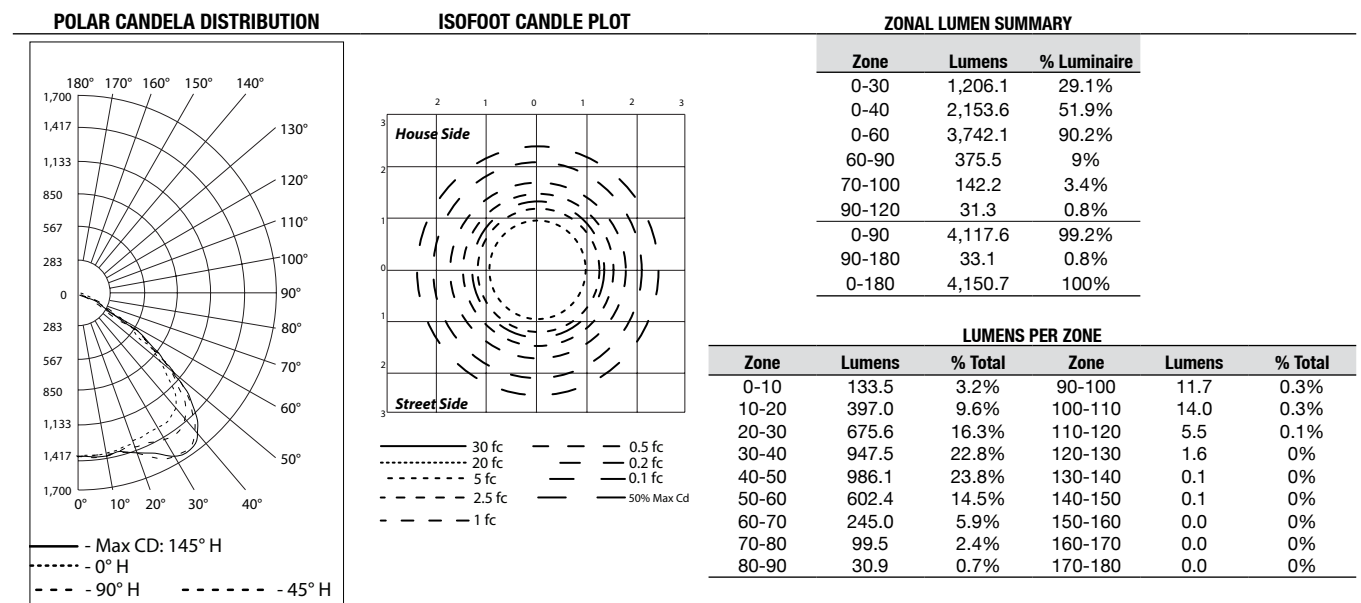
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 REPORT NUMBER: **VMV4LCP5BU**

Luminaire Lumens 4,234



**Type V, Clear Polycarbonate 5000K CCT**  
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Luminaire Lumens 4,151



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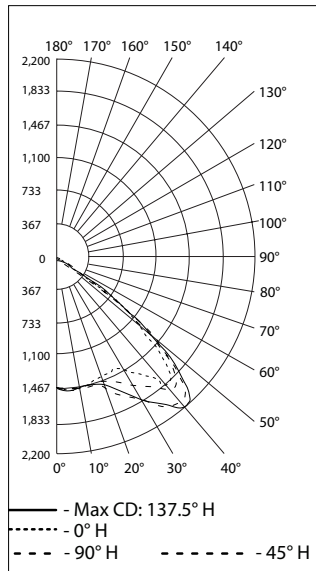
### Photometric Data – DATA SHOWN IS ABSOLUTE

**Type V, Clear Polycarbonate 5000K CCT**

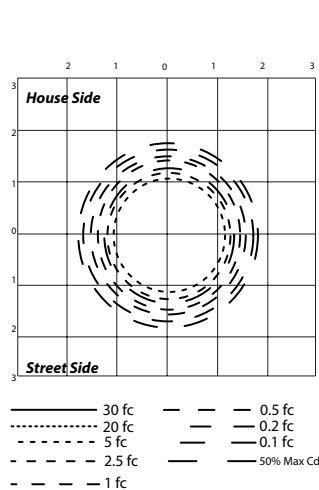
REPORT NUMBER: **VMV4LCG5BU**

Luminaire Lumens 4,468

#### POLAR CANDELA DISTRIBUTION



#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	1,282.8	28.7%
0-40	2,447.8	54.8%
0-60	4,419.1	98.9%
60-90	42.9	1%
70-100	11.0	0.2%
90-120	4.8	0.1%
0-90	4,461.9	99.9%
90-180	6.1	0.1%
0-180	4,468.0	100%

#### LUMENS PER ZONE

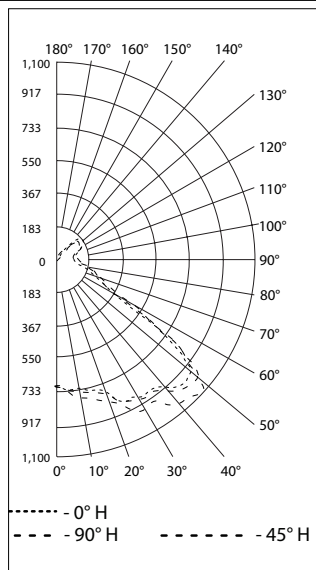
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	140.3	3.1%	90-100	1.2	0%
10-20	411.6	9.2%	100-110	1.4	0%
20-30	730.9	16.4%	110-120	2.1	0%
30-40	1,164.9	26.1%	120-130	0.6	0%
40-50	1,407.0	31.5%	130-140	0.1	0%
50-60	564.3	12.6%	140-150	0.4	0%
60-70	33.0	0.7%	150-160	0.2	0%
70-80	6.5	0.1%	160-170	0.1	0%
80-90	3.3	0.1%	170-180	0.0	0%

**Type V, Clear Polycarbonate 5000K CCT**

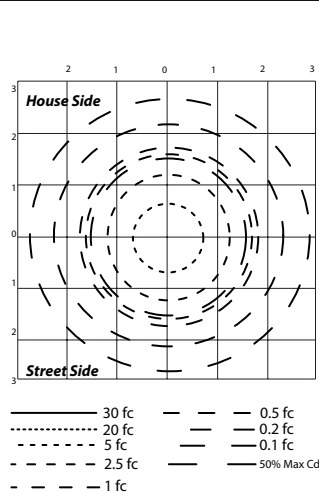
REPORT NUMBER: **VMV4LCJ5BU**

Luminaire Lumens 4,020

#### POLAR CANDELA DISTRIBUTION



#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	699.2	17.4%
0-40	1,275.6	31.7%
0-60	2,714.3	67.5%
60-90	689.0	17.1%
70-100	484.7	12.1%
90-120	307.5	7.6%
0-90	3,403.3	84.6%
90-180	617.3	15.4%
0-180	4,020.6	100%

#### LUMENS PER ZONE

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	70.0	1.7%	90-100	107.5	
10-20	222.3	5.5%	100-110	94.0	
20-30	406.9	10.1%	110-120	106.0	
30-40	576.4	14.3%	120-130	137.5	
40-50	768.1	19.1%	130-140	116.8	
50-60	670.6	16.7%	140-150	49.1	
60-70	311.8	7.8%	150-160	6.2	
70-80	223.5	5.6%	160-170	0.0	
80-90	153.7	3.8%	170-180	0	

# Contender™ LED Luminaires

## Enclosed and Gasketed Fixtures

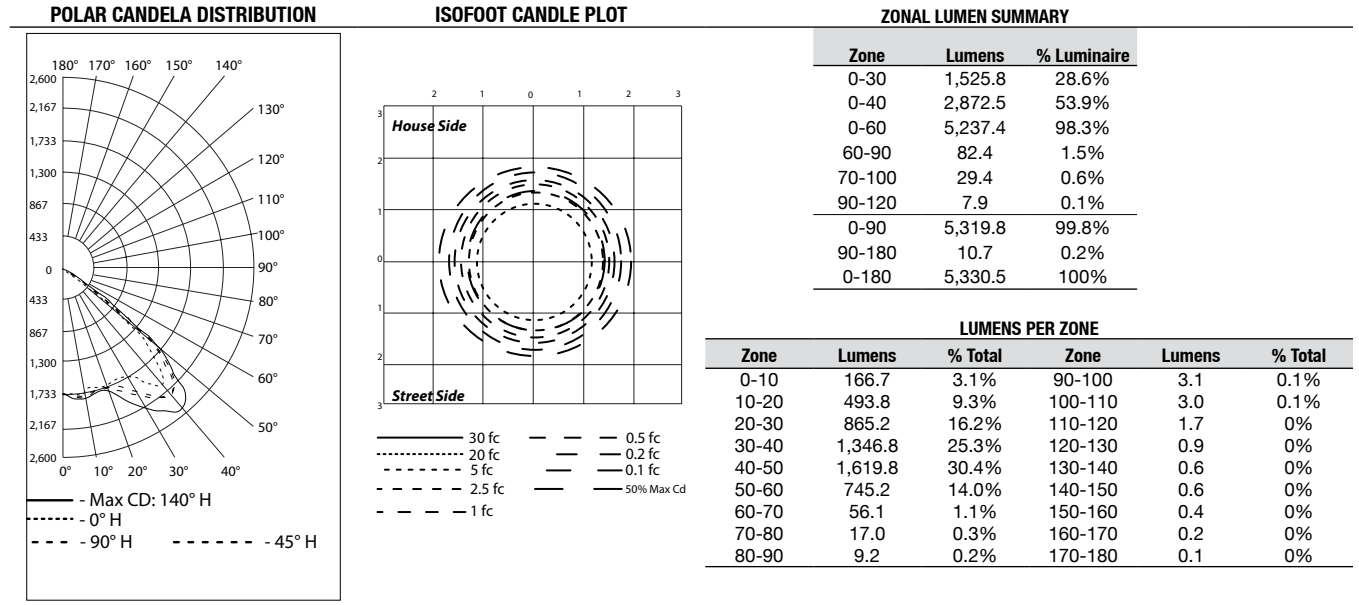
**NEC/CEC:**  
 Class I, Division 2, Groups A,B,C,D  
 Class I, Zone 2, Group IIC  
 Class II, Division 1, Groups E,F,G  
 Zone 21 and 22, Group IIC  
 Class II, Division 2, Groups F,G  
 Class III

**NEC/CEC:**  
 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

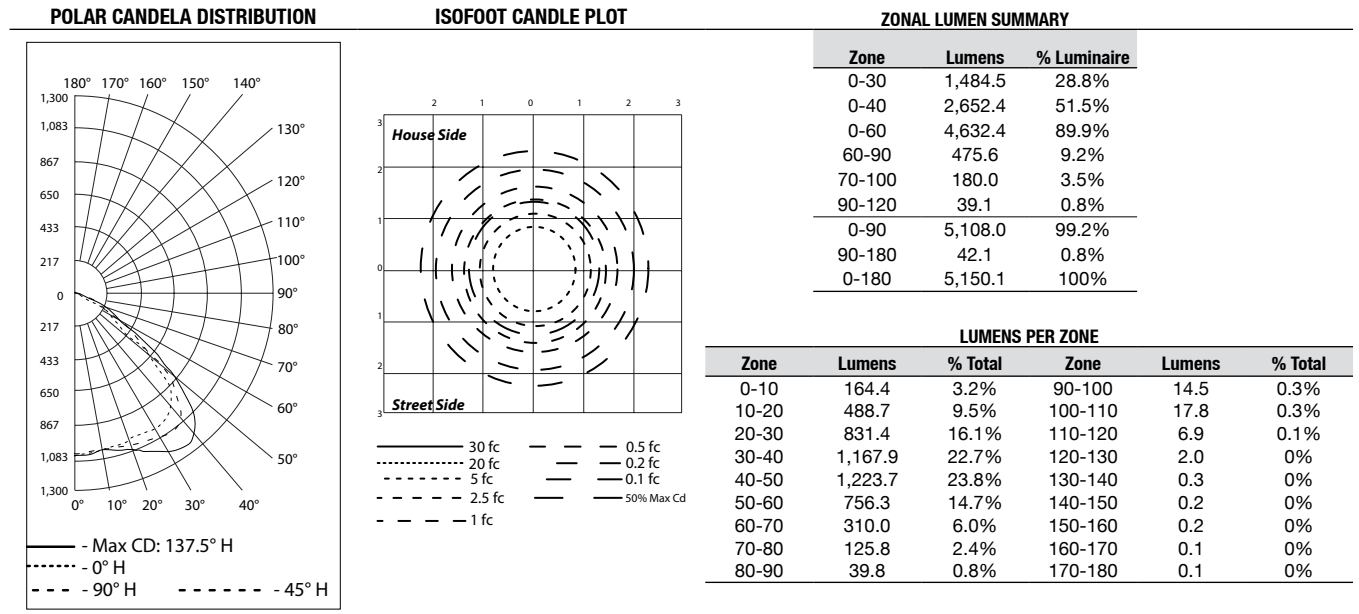
**Type V, Clear Polycarbonate 5000K CCT**  
 REPORT NUMBER: **VMV5LCP5BU**

Luminaire Lumens 5,330



**Type V, Clear Polycarbonate 5000K CCT**  
 REPORT NUMBER: **VMV5LCD5BU**

Luminaire Lumens 5,150



# Contender™ LED Luminaires

## Enclosed and Gasketed Fixtures

NEC/CEC:  
 Class I, Division 2, Groups A,B,C,D  
 Class I, Zone 2, Group IIC  
 Class II, Division 1, Groups E,F,G  
 Zone 21 and 22, Group IIC  
 Class II, Division 2, Groups F,G  
 Class III

NEC/CEC:  
 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

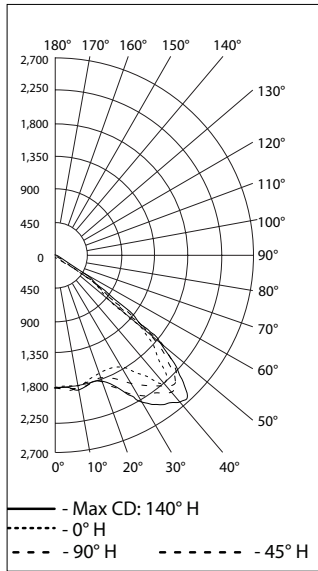
### Photometric Data — DATA SHOWN IS ABSOLUTE

#### Type V, Clear Polycarbonate 5000K CCT

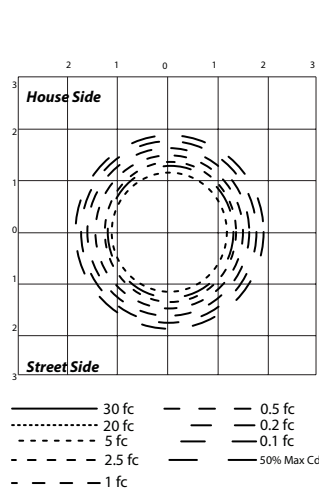
REPORT NUMBER: VMV5LCG5BU

Luminaire Lumens 5,529

#### POLAR CANDELA DISTRIBUTION



#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	1,575.5	28.5%
0-40	2,990.6	54.1%
0-60	5,434.7	98.3%
60-90	81.6	1.5%
70-100	27.7	0.5%
90-120	10.6	0.2%
0-90	5,516.3	99.8%
90-180	13.4	0.2%
0-180	5,529.7	100%

#### LUMENS PER ZONE

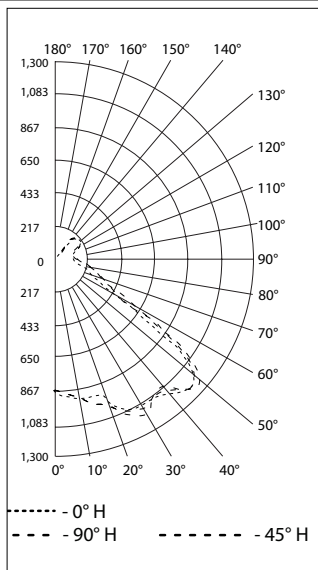
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	173.1	3.1%	90-100	3.8	0.1%
10-20	506.7	9.2%	100-110	3.3	0.1%
20-30	895.7	16.2%	110-120	3.5	0.1%
30-40	1,415.1	25.6%	120-130	1.3	0%
40-50	1,712.6	31.0%	130-140	0.5	0%
50-60	731.4	13.2%	140-150	0.4	0%
60-70	57.6	1.0%	150-160	0.4	0%
70-80	15.7	0.3%	160-170	0.2	0%
80-90	8.2	0.1%	170-180	0.1	0%

#### Type V, Clear Polycarbonate 5000K CCT

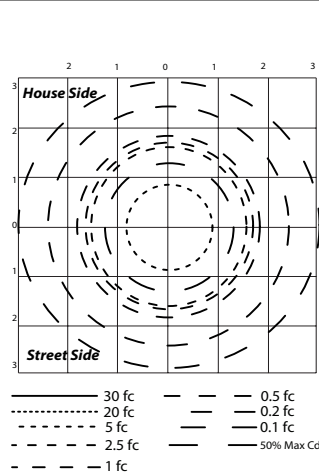
REPORT NUMBER: VMV5LCJ5BU

Luminaire Lumens 4,940

#### POLAR CANDELA DISTRIBUTION



#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	872.9	17.7%
0-40	1,570.0	31.8%
0-60	3,310.7	67%
60-90	861.5	17.4%
70-100	606.8	12.3%
90-120	378.1	7.7%
0-90	4,172.1	84.4%
90-180	768.2	15.6%
0-180	4,940.4	100%

#### LUMENS PER ZONE

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	85.6	1.7%	90-100	134.2	2.7%
10-20	278.2	5.6%	100-110	116.1	2.3%
20-30	509.2	10.3%	110-120	127.8	2.6%
30-40	697.1	14.1%	120-130	169.8	3.4%
40-50	923.1	18.7%	130-140	148.5	3%
50-60	817.6	16.5%	140-150	63.2	1.3%
60-70	388.8	7.9%	150-160	8.4	0.2%
70-80	280.0	5.7%	160-170	0.1	0%
80-90	192.7	3.9%	170-180	0	0%