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FICHA TÉCNICA

Industrial Contender™ LED Series Luminaires

APPLETON™

Industrial Contender™ LED Series Luminaires

For Direct Mounting Into Another Manufacturers Mounting Hood

Ordinary Locations

NEC/CEC: Type 3R, 4, 4X | IP66/67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

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
  - — Hydrogen and Biofuels plants
  - — LNG (Liquid Natural Gas) plants
- 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
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 5.44 kg. [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
3300	70-100W	IVMV3LCG5BU
4400	100-150W	IVMV4LCG5BU
5500	150-175W	IVMV5LCG5BU

- Standard 6 kV/3 kA 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.





- Reported L70 is >108,000.
- Field replaceable globes and IP66 rated LED driver.
- Rugged housing with superior thermal design translates to long luminaire life.
- 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.
- Product can be configured with wirenuts or screw terminal blocks for ease of wiring.
- Photometric data and electronic drawings available upon request.

Warranty ✪

- 10 year standard warranty.

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
- Globe guard, short refractor guard and safety cable: stainless steel wire
- Reflector: fiberglass reinforced white polyester
- Visor: aluminum
- Gasket: silicone rubber

Standard Finishes

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

NEC/CEC Certifications and Compliances

- UL Standard: UL 1598 (3rd Ed.); UL 1598A (1st Ed.); UL 8750 (2nd Ed.)
- CSA Standard: C22.2 No. 250.0-.08; C22.2 No. 250.13-14
- cCSAus Listed: Master contract 164460; Certificate Number 70170002

ABS Certifications

- VMV: 18-HS1741303-PDA

International Dark-Sky Association

- IDA Dark-Sky Approved when ordering IVMV[3L/4L/5L]W[P5/D5/G5]xxx with MMVISOR accessory (3000K CCT).

DesignLights™ Consortium

- Check DLC QPL for current list of products.

① Nominal Lumen value for 5000K CCT, clear glass globe. Detailed lumen information is provided in the " Lumen Output (Efficacy)" tables.
✣ Crouse-Hinds and Champ are registered trademarks of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.
✪ For warranty details go to www.appleton.emerson.com.

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Illustrated Features



Wiring Flexibility
Choose between wire nuts and screw terminal blocks to suit end user wiring preferences. Terminal blocks support UL/CSA 24 to 12 AWG wire.



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.



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



Angled Reflector and Visor
Angled 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.



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

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

Electrical Protection: External Grounding provisions for additional safety.

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

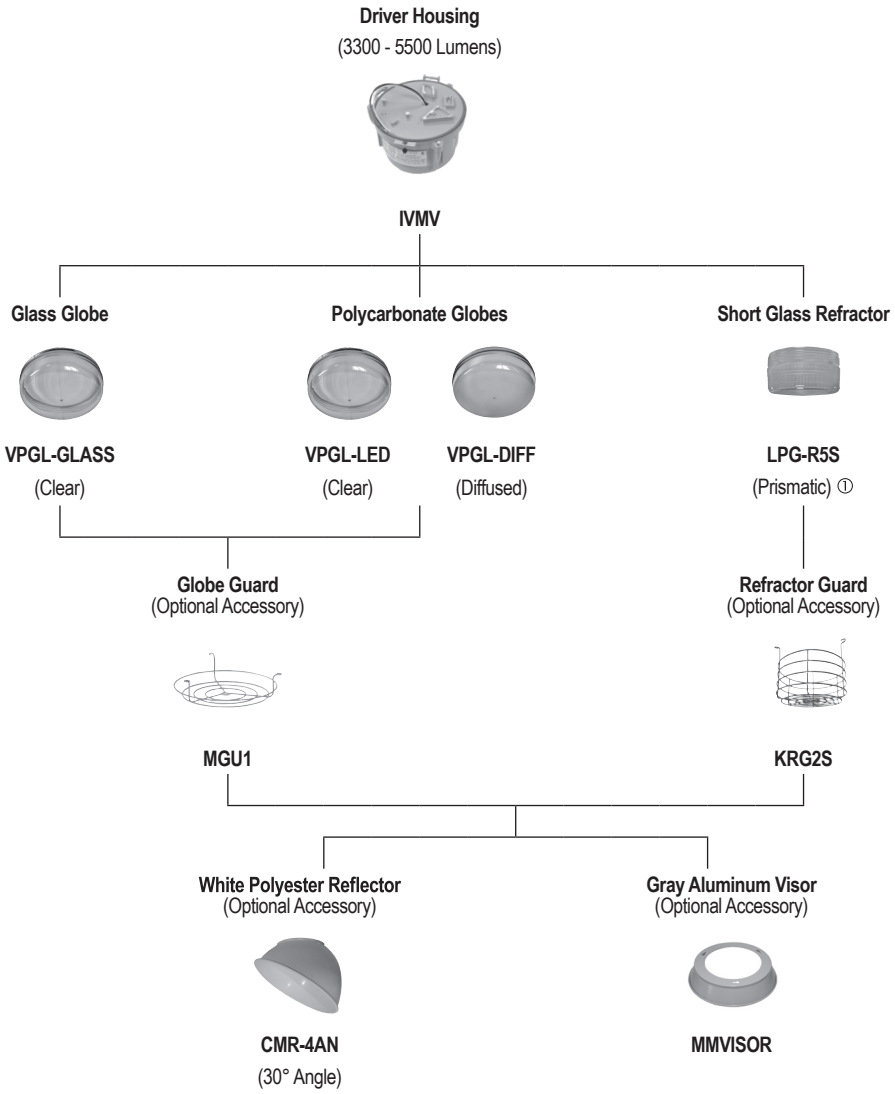
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Industrial Contender™ LED Family Tree



① *Certified for cCSAus only.*

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Order Using Catalog Numbering Guide — Industrial Contender™ LED Series Luminaires

IVMV	3L	C	P5	BU	T
Series Prefix: IVMV - Industrial Contender LED Series	Lumen Output ①: 3L - 3K Lumens 4L - 4K Lumens 5L - 5K Lumens	Color Temperature: C - Cool 5000K CCT N - Neutral 4000K CCT W - Warm 3000K CCT	Globe Material, Light Pattern ②: P5 - Clear Polycarbonate Globe, NEMA Type V D5 - Diffused Polycarbonate Globe,NEMA Type V G5 - Clear Glass Globe, NEMA Type V J5 - Prismatic Glass Refractor,NEMA Type V	Voltage: BU - 120-277 Vac, 50/60 Hz; 125-300 Vdc BH - 347-480 Vac, 50/60 Hz	Wiring Method ③: Blank - Wire Nuts (Standard) T - Terminal Blocks

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.
③ Terminal block wiring option is only available with BU voltage configuration.

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Lumen Output (Efficacy) ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Polycarbonate Globe														
IVMV3L	70-100W	Type V	3000K	>70	3000	107	4000K	>70	3000	107	5000K	>70	3200	114
IVMV4L	100-150W	Type V	3000K	>70	3900	102	4000K	>70	4000	105	5000K	>70	4200	110
IVMV5L	150-175W	Type V	3000K	>70	4900	102	4000K	>70	5000	104	5000K	>70	5300	110
Diffused Polycarbonate Globe ②														
IVMV3L	70-100W	Type V	3000K	>70	2900	103	4000K	>70	2900	103	5000K	>70	3100	110
IVMV4L	100-150W	Type V	3000K	>70	3800	100	4000K	>70	3900	102	5000K	>70	4100	107
IVMV5L	150-175W	Type V	3000K	>70	4800	100	4000K	>70	4900	102	5000K	>70	5150	107
Clear Glass Globe														
IVMV3L	70-100W	Type V	3000K	>70	3100	110	4000K	>70	3100	110	5000K	>70	3300	117
IVMV4L	100-150W	Type V	3000K	>70	4100	107	4000K	>70	4200	110	5000K	>70	4400	115
IVMV5L	150-175W	Type V	3000K	>70	5100	106	4000K	>70	5200	108	5000K	>70	5500	114
Glass Prismatic Refractor														
IVMV3L	70-100W	Type V	3000K	>70	2800	100	4000K	>70	2800	100	5000K	>70	3000	107
IVMV4L	100-150W	Type V	3000K	>70	3700	97	4000K	>70	3800	100	5000K	>70	4000	105
IVMV5L	150-175W	Type V	3000K	>70	4600	96	4000K	>70	4650	97	5000K	>70	4900	102

Electrical Specifications ③

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 lumen values are typical (tolerance +/- 10%).
② 70 minimum.
③ All values are typical (tolerance +/-10%).

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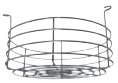
Fixture Unit — Driver Housing and Globe or Refractor






Lumen Level	LED Wattage	Light Level Equivalent	NEMA Type	Catalog Number Polycarbonate Clear Globe ①②③	Polycarbonate Diffused Globe ①②③	Glass Globe ①②③	With Type V Glass Refractor ①②③④
Driver Housing - For Ordinary Locations							
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**

Accessories and Replacement Parts

	Description	Weight in kg (lbs)	Catalog Number
Globes			
	Clear Globe — Polycarbonate	0.2 (0.5)	**VPGL-LED**
	Diffused Globe — Polycarbonate	0.2 (0.5)	**VPGL-DIFF**
	Clear Globe — Glass	0.9 (1.9)	**VPGL-GLASS**
	Light Distribution	**Weight in kg (lbs)**	**Catalog Number**
Prismatic Glass Refractor — All Heat-Resistant			
	Short Prismatic Glass Refractor NEMA Type V	1.7 (3.7)	**LPG-R5S**
	Description	**Weight in kg (lbs)**	**Catalog Number**
Guards			
 Globe Guard  Short Refractor Guard	Globe Guard	0.2 (0.4)	**MGU1**
	Short Refractor Guard for LPG-R5S	0.3 (0.7)	**KRG2S**
Reflector			
	30° Angle White Polyester Reflectors	1.3 (2.7)	**CMR-4AN**
Visor			
	Electrostatically applied gray epoxy powder coat finish on Aluminum Visor	0.4 (0.9)	**MMVISOR**
Safety Cable			
	Stainless steel	0.2 (0.4)	**LEDSC**

*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 Accessories and Replacement Parts table for ordering information.
*④ 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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Replacement Drivers



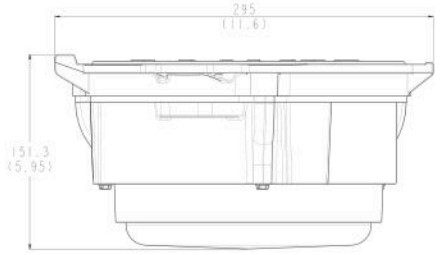
Model	Voltage	Driver Wattage	Constant Current Settings	Catalog Number
IVMV3L	BU	50 Watt	720mA	**APMS050C135UD72**
	BH		720mA	**APMS050C135HD72**
IVMV4L	BU	50 Watt	1000mA	**APMS050C135UD10**
	BH		1000mA	**APMS050C135HD10**
IVMV5L	BU	50 Watt	1300mA	**APMS050C135UD13**
	BH		1300mA	**APMS050C135HD13**

Luminaire Weights

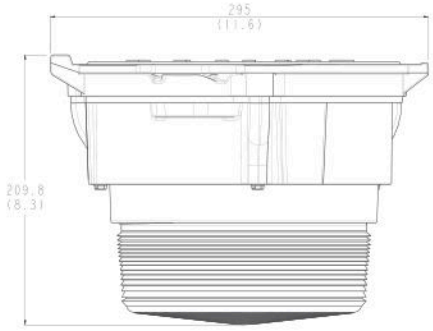
Description	Weight kg (lb)
Fixture Unit with Polycarbonate Clear Globe	5.3 (11.8)
Fixture Unit with Polycarbonate Diffused Globe	5.3 (11.8)
Fixture Unit with Polycarbonate Glass Globe	5.9 (13.0)
Fixture Unit with Short Prismatic Glass Refractor	6.7 (14.9)
Fixture Unit with Tall Prismatic Glass Refractor	7.4 (16.4)

Dimensions in Millimeters (Inches)

Clear/Diffused/Glass Globes



Short Prismatic Glass Refractor



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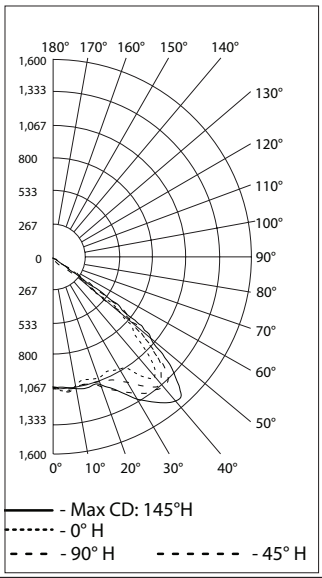
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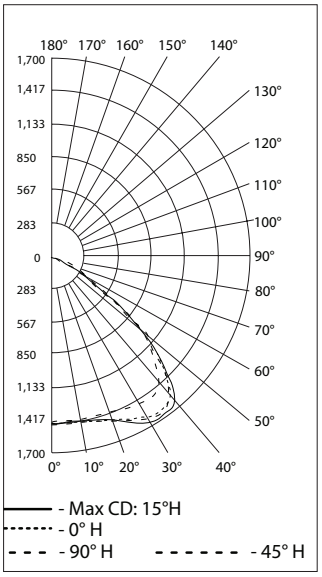
Type V, Clear Polycarbonate, 5000K CCT
REPORT NUMBER: **IVMV3LCP5BU**
Luminaire Lumens 3,198

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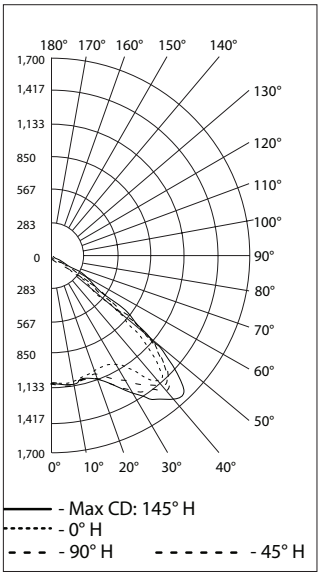
Type V, Clear Polycarbonate, 5000K CCT
REPORT NUMBER: **IVMV3LCD5BU**
Luminaire Lumens 3,103

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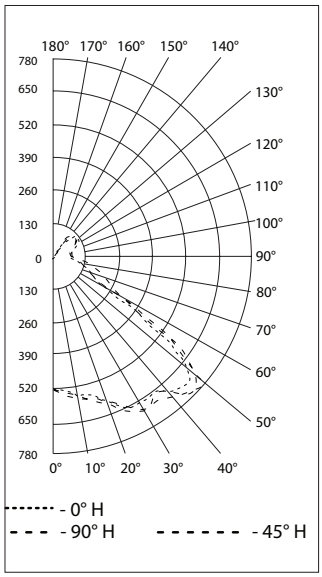
Type V, Clear Polycarbonate, 5000K CCT
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Luminaire Lumens 3,334

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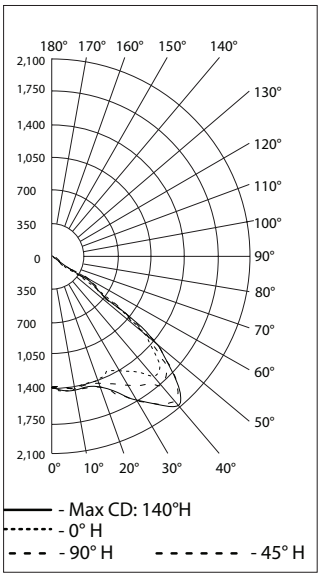
Type V, Clear Polycarbonate, 5000K CCT
REPORT NUMBER: **IVMV3LCJ5BU**
Luminaire Lumens 3,020

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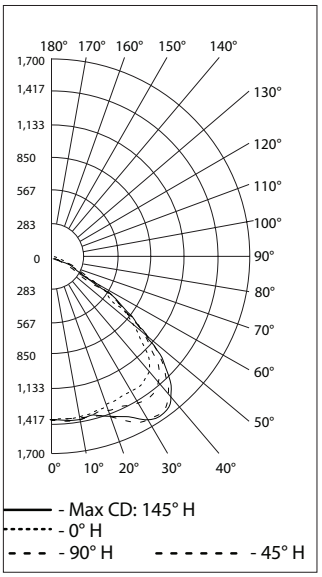
Type V, Clear Polycarbonate, 5000K CCT
REPORT NUMBER: **IVMV4LCP5BU**
Luminaire Lumens 4,234

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Type V, Clear Polycarbonate, 5000K CCT
REPORT NUMBER: **IVMV4LCD5BU**
Luminaire Lumens 4,151

POLAR CANDELA DISTRIBUTION



① AEx rating is only applicable to product configurations with terminal block wiring option

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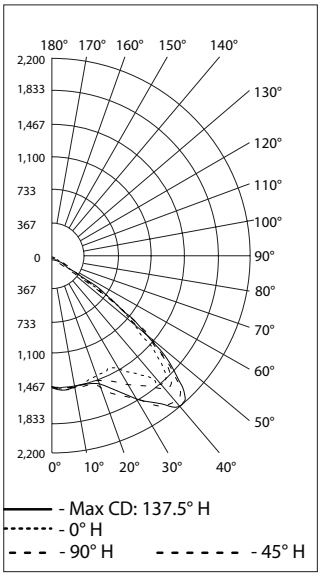
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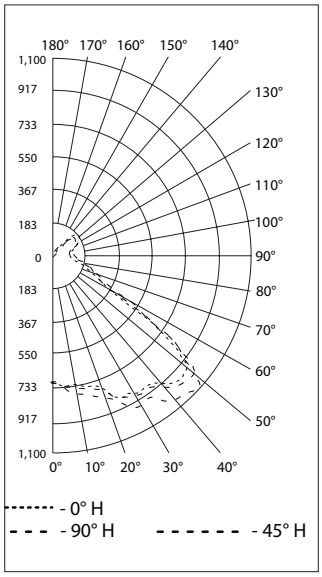
Type V, Clear Polycarbonate, 5000K CCT
REPORT NUMBER: **IVMV4LCG5BU**
Luminaire Lumens 4,468

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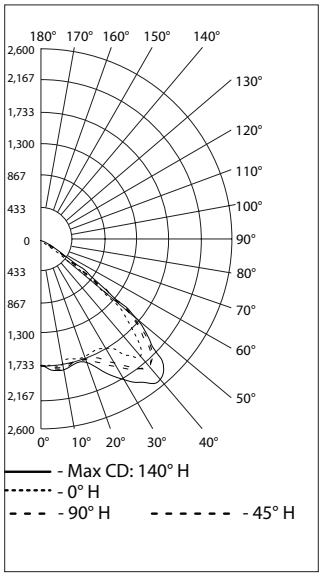
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Luminaire Lumens 4,020

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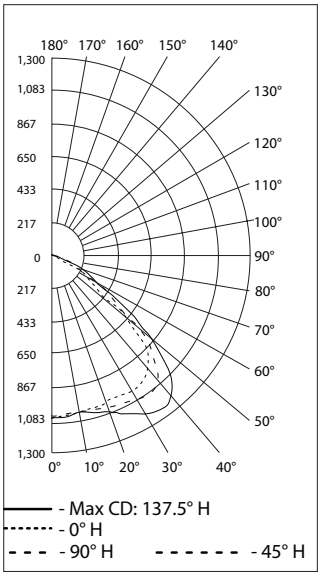
Type V, Clear Polycarbonate, 5000K CCT
REPORT NUMBER: **IVMV5LCP5BU**
Luminaire Lumens 5,330

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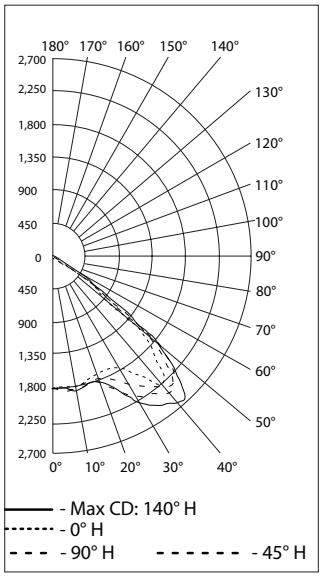
Type V, Clear Polycarbonate, 5000K CCT
REPORT NUMBER: **IVMV5LCD5BU**
Luminaire Lumens 5,150

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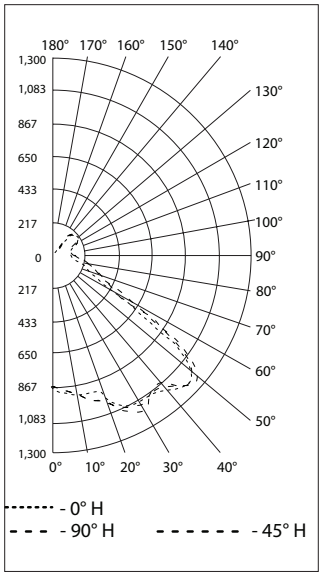
Type V, Clear Polycarbonate, 5000K CCT
REPORT NUMBER: **IVMV5LCG5BU**
Luminaire Lumens 5,529

POLAR CANDELA DISTRIBUTION



Type V, Clear Polycarbonate, 5000K CCT
REPORT NUMBER: **IVMV5LCJ5BU**
Luminaire Lumens 4,940

POLAR CANDELA DISTRIBUTION



① AEx rating is only applicable to product configurations with terminal block wiring option

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