CCFL-2 SERIES

Small Area, Wall, and Flood Light

FME Lighting — ILLUMINATING INDUSTRIAL APPLICATIONS

Project:	
Type:	
Catalog #:	

DLC QPL LISTED · CSA C US · IP66

Shown with "AR" Arm Mounting Option.

BUY AMERICAN ACT COMPLIANT

Shown with "EH" Easy-Hang Wall Bracket

Shown with "SF" Slipfitter Option.

The CCFL-2Q luminaire is available in three wattages with a wide choice of mounting configurations and optical distributions designed to replace HID lighting systems from 150w to 400w MH or HPS. Typical applications include general area, parking, flood, security, and accent lighting for retail centers, industrial parks, schools and universities, public transit and airports, office buildings and medical facilities. Mounting heights of 14 to 25 feet can be used based on light level and uniformity requirements.

SPECIFICATIONS AND FEATURES:

Housing:
Die Cast Aluminum Housing and Front Frame, Integral Heat Sinking and Driver Compartment. Photocell Adaptable. Nickel-Plated Stainless Steel Hardware.

Listing & Ratings:
CSA: Listed for Wet Locations, ANSI/UL 1598, 8750; IP66 Sealed LED Compartment.

Finish:
Textured Architectural Bronze Powdercoat Finish Over a Chromate Conversion Coating. Custom Colors Available Upon Request.

Lens:
Tempered Clear Flat or LED Flat Glass Lens

Mounting Options:
Mounts with Arm, Adjustable Slipfitter, 2⅜″ Diameter Mounting Arm Adapter, Yoke, Two-Piece Bracket or Easy Hang Wall Bracket (Factory Installed).

LED:
Aluminum Boards

Driver:
Electronic Driver, 120-277V, 50/60Hz or 347-480V, 50/60Hz (81w Model Only); Less Than 20% THD and PF>0.90. Standard Internal Surge Protection 6kV. 0-10V Dimming Standard for a Dimming Range of 100% to 10%; Dimming Source Current is 150 Microamps.

Controls:
Fixtures Ordered with Factory-Installed Photocell or Motion Sensor Controls are Internally Wired for Switching and/or 1-10V Dimming Within the Housing. Remote Direct Wired Interface of 1-10V Dimming is Not Implied and May Not Be Available, Please Consult Factory. Fixtures are Tested with LEPG Controls and May Not Function Properly With Controls Supplied By Others. Fixtures are NOT Designed for Use with Line Voltage Dimmers.
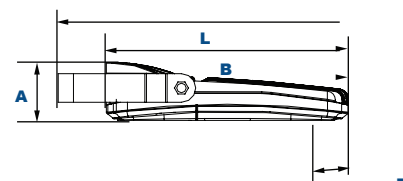
Dimensions

Width (D)	13⅜‴ (340mm)
Length (B)	15″ (381mm)
Height (A)	3⅝″ (92mm)

Length with Mount (L)

- **Arm (AR):** 19¼″ (491mm)
- **Slipfitter (SF):** 18¾″ (476mm)
- **Mounting Arm Adaptor (MA):** 19⅛″ (486mm)
- **Yoke (Y):** 18″ (457mm)
- **Bracket (BR):** 18¾″ (476mm)
- **Easy-Hang Wall Bracket (KHEH):** 16″ (406mm)

WARRANTY:
5-Year Warranty for -40°C to +50°C Environment.

ORDERING INFORMATION:

CCFL-2

Model	Optics/Beam	Wattage	Driver	CCT	Lens	Color	Mounting	Options
CCFL2 =Small Area, Wall, and Flood Light	**1**=Type I/NEMA 7H x 5V **2**=Type II/NEMA 7H x 6V **3**=Type III/NEMA 7H x 7V **4**=Type IV/NEMA 6H x 5V **5**=Type V/NEMA 7H x 7V **6**=Narrow Beam/NEMA 4H x 4V* *Use with 81w & 112w 5K Model Only. See Page 4 & 6 for Distribution Information.	**65**=65w* **81**=81w **112**=112w *Use with C & F Optics, 4K & 5K Models Only.	**LV**=120-277V **HV**=347-480V* *81w Model Only.	**3K**=3000K*♦ **4K**=4000K **5K**=5000K * Use with 81w B, C, D, F Optics. ♦ Use with 112w D & F Optics.	**S**=Standard Clear Flat Glass Lens **F**=Flat Glass Lens	**BZ**=Bronze **C**=Custom (Consult Factory)	**AR**=Arm **SF**= Slipfitter **MA**= Mounting Arm Adapter **Y**=Yoke **BR**=Two-Piece Swivel Bracket **EH**=Easy-Hang Wall Bracket **NM**=No Mount	**SF**=Single Fuse (120-277V Only) **DF**=Double Fuse (120-277V Only) **SP**=Surge Protection **M1**=Motion Sensor, IR for mounting heights of 20ft to 35ft **M2**=Motion Sensor, IR for mounting heights of 18ft or less **R3**=3-Pin Twist Lock Photocell Receptacle **R5**=5-Pin Twist Lock Photocell Receptacle **R7**=7-Pin ANSI C136.41—2013 Twist Lock Photocell Receptacle **S23**=Internal Microwave Sensor with dimming for mounting heights of 25′ or less (120-277V Only) **S43**=Microwave On/Off Motion Sensor for Mounting Heights of 8′ to 19′, (120-277V Only)

MOUNTING OPTIONS:

CCFL-2 with Arm (AR)
Die-Cast Mounting Arm, Bronze Powdercoat Finish, Includes Hardware. Mounts Directly to Square Poles.

CCFL-2 with Pole Mounting Arm Adaptor (MA)
Die-Cast Adaptor for 2⅜″ Horizontal Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.

CCFL-2 with Yoke (Y)
Stamped Heavy-Duty Steel Yoke, Bronze Powdercoat Finish, Includes Hardware.

CCFL-2 with "SF" External Mount Slipfitter (SF)
External Mount Die-Cast Adjustable Slipfitter for 2⅜″ Tenons, Bronze Powdercoat Finish, Includes Hardware.

CCFL-2 with Two-Piece Swivel Bracket (BR)
Two-Piece Stamped Steel Adjustable Bracket, Bronze Powdercoat Finish, Includes Hardware.

CCFL-2 with Easy-Hang Bracket (EH)
Die-Cast Easy-Hang Wall Bracket, Bronze Powdercoat Finish, Includes Hardware.

EPA (Effective Projected Area)
Shown with Small Arm mounting.

Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
1	0.60	15 Lbs

Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
2@180° Mount	1.20	30 Lbs
2@90° Mount	0.82	30 Lbs

Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
3@90° Mount	1.32	45 Lbs
3@120° Mount	1.20	45 Lbs

Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
4@90° Mount	1.32	60 Lbs

ACCESSORIES & REPLACEMENT PARTS:

A2   B2   TB1
TB29   TB218   TB39*
TB312*   TB49*   SEN1
CGS2   CWG2   SEN2
MS1   MS2

Mounting Accessories (Order Separately, Field Installed)

A2	Die-Cast Adaptor for 3″ to 4″ Round Poles, Bronze Powdercoat Finish. Use with Mounting Arm only.
B2	Die-Cast Wall Mount Adaptor, Bronze Powdercoat Finish. Use with Mounting Arm only.
TB1	Single Pole Tenon Spoke Bracket, 2⅜″ Horizontal Mounting Arm, Bronze Powdercoat Finish, Includes Hardware.
TB29	Twin Pole Tenon Spoke Bracket, 2⅜″ Horizontal 90° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.
TB218	Twin Pole Tenon Spoke Bracket, 2⅜″ Horizontal 180° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.
TB39*	Triple Pole Tenon Spoke Bracket, 2⅜″ Horizontal 90° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.
TB312*	Triple Pole Tenon Spoke Bracket, 2⅜″ Horizontal 120° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.
TB49*	Quad Pole Tenon Spoke Bracket, 2⅜″ Horizontal 90° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.

*Non-stock item. Consult factory for lead time.

Accessories (Order Separately, Field Installed)

P1	Twist Lock Non-Shorting (Open) Cap Disconnects Service to Fixture for Temporary or Permanent Disabling (Fixture Always Off). IP65, 480V Maximum.
P2	Twist Lock Shorting Cap Provides Fixed Service to Fixture (Fixture Always on). IP65, Rated Load 7200w Tungsten.
P3	110-120VAC Instant Twist Lock Photocell
P4	120VAC Time Delay Twist Lock Photocell
P5	277VAC Time Delay Twist Lock Photocell
P6	120-277VAC Universal Twist Lock Photocell
P7	480VAC Time Delay Twist Lock Photocell. For 480V use only.
SEN1	Die Cast Accessory Housing for Installing Sensors or Other Lighting Controls, Bronze Powdercoat Finish
CGS2	Aluminum Glare/House Side Shield, Bronze Powdercoat Finish, Includes Hardware.
CWG2	Wire Guard, Stainless Steel Construction, Includes Hardware.
SEN2	Bronze UV-Stabilized Polycarbonate Housing for Installing Sensors, Includes Sensor Bracket and Gasket.

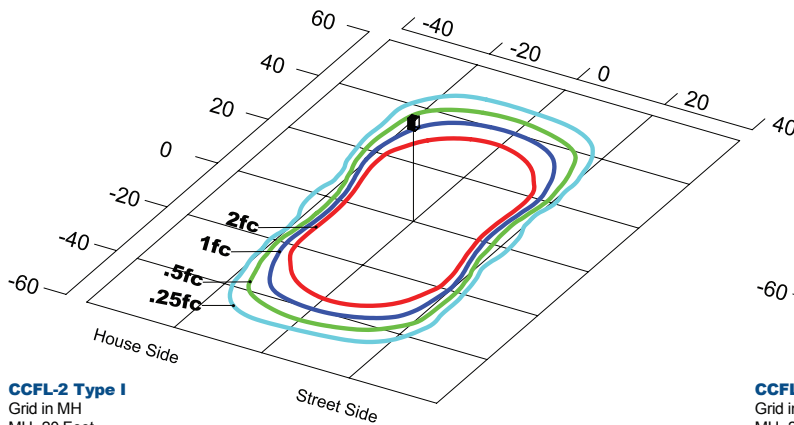### Replacement Parts (Order Separately, Field Installed)

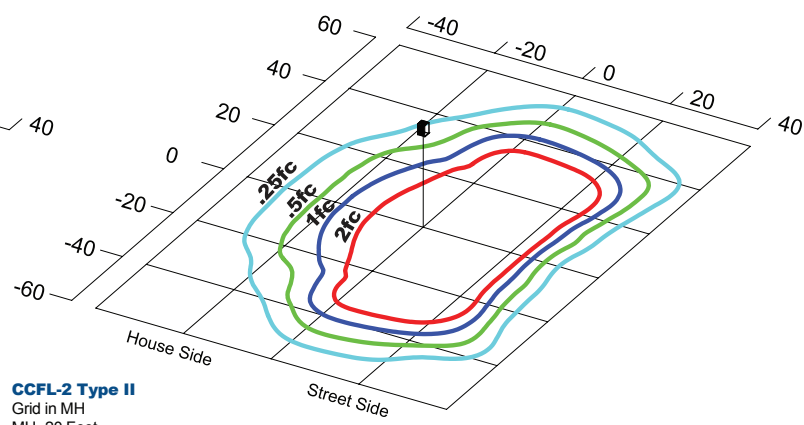|	
CFL2	Tempered Clear Flat Glass Lens.
CFG2	Flat Glass Lens
CAR2	Die-Cast Mounting Arm, Bronze Powdercoat Finish, Includes Hardware. Mounts Directly to Square Poles.
ADA	Die-Cast Adaptor for 2⅜″ Horizontal Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.
CY2	Stamped Heavy-Duty Steel Yoke, Bronze Powdercoat Finish, Includes Hardware.
CSF	External Mount Die-Cast Adjustable Slipfitter for 2⅜″ Tenons, Bronze Powdercoat Finish, Includes Hardware.
CBR	Two-Piece Stamped Steel Adjustable Bracket, Bronze Powdercoat Finish, Includes Hardware.
CWB	Die-Cast Easy-Hang Wall Bracket, Bronze Powdercoat Finish, Includes Hardware.
MS1	Internal Microwave Sensor with Dimming, 120-277VAC, 50/60Hz. See P17117 Specification Page for Details.
MS2	Internally Mounted Microwave On/Off Motion Sensor for Mounting Heights of 8' to 19', 120-277VAC, 50/60Hz

PHOTOMETRIC DATA

CCFL-2 Type I
Grid in MH
MH=20 Feet

CCFL-2 Type II
Grid in MH
MH=20 Feet

CCFL-2 Type III
Grid in MH
MH=20 Feet

CCFL-2 Type IV
Grid in MH
MH=20 Feet

CCFL-2-QF1X112U5KC
Type V
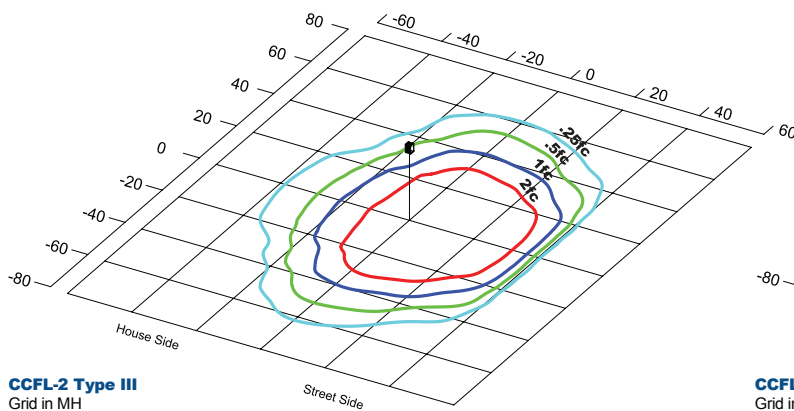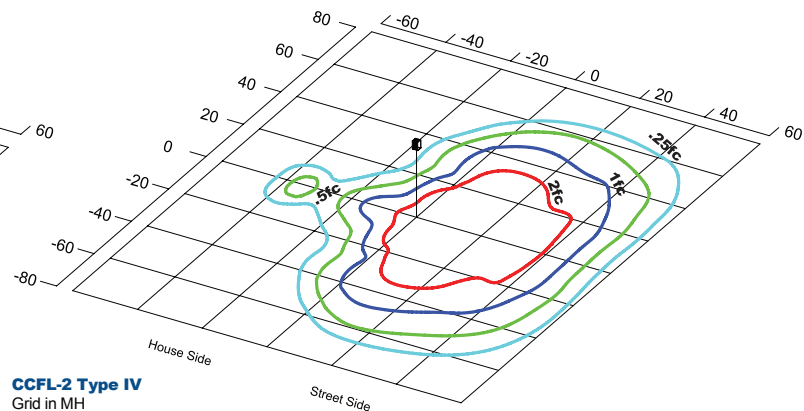Grid in MH
MH=20 Feet

PHOTOMETRIC DATA
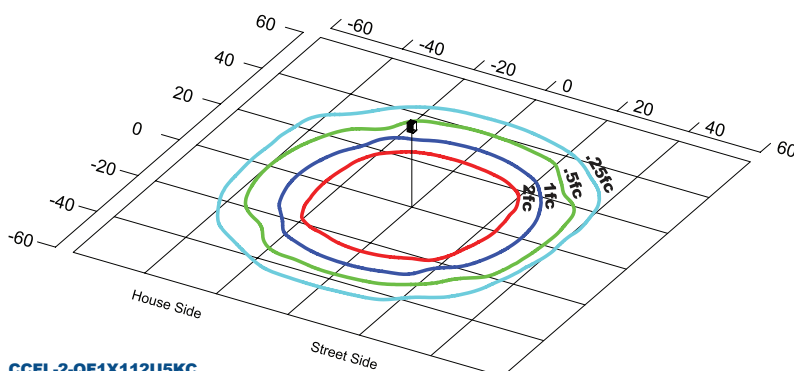
CCFL-2 Type I
Grid in MH
MH=20 Feet

CCFL-2 Type II
Grid in MH
MH=20 Feet

CCFL-2 Type III
Grid in MH
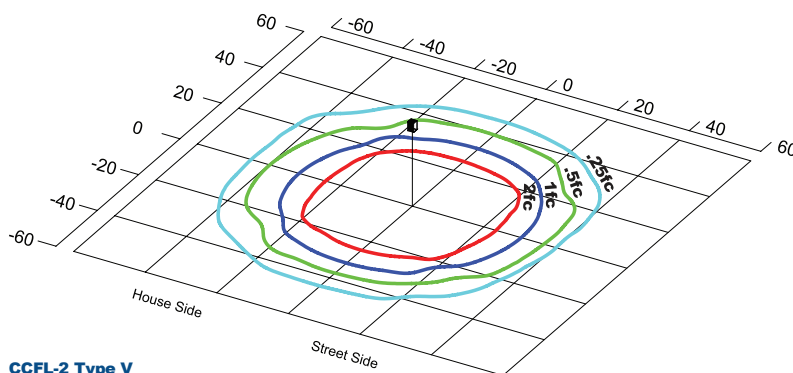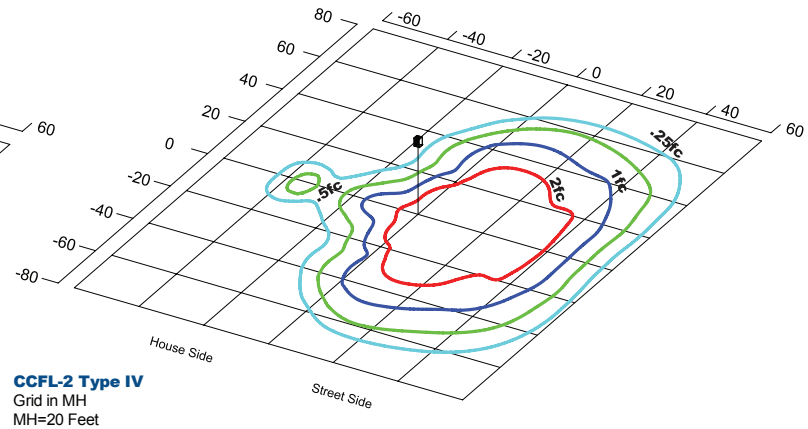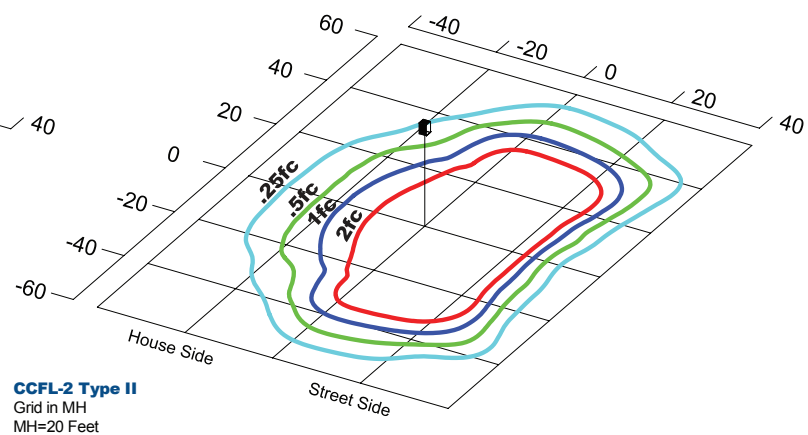MH=20 Feet

CCFL-2 Type IV
Grid in MH
MH=20 Feet

CCFL-2 Type V
Grid in MH
MH=20 Feet

FME Lighting | ILLUMINATING INDUSTRIAL APPLICATIONS

PHOTOMETRIC PERFORMANCE

LED Board Watts	Drive Current (mA)	Input Watts		Optics	5000 CCT 80 CRI					4000 CCT 80 CRI					3000 CCT 80 CRI				
					Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
65w	525	68	C	Type III	7,089	105	2	0	2	6,823	101	2	0	2	-	-	-	-	-
			F	Type V	6,762	100	2	0	0	6,508	96	2	0	0	-	-	-	-	-
81w	525	84	A	Type I	10,503	125	3	0	2	10,109	120	3	0	1	-	-	-	-	-
			B	Type II	10,019	119	2	0	2	9,644	115	2	0	2	9,268	110	2	0	2
			C	Type III	11,007	131	2	0	2	10,594	126	2	0	2	10,181	121	2	0	2
			D	Type IV	10,338	123	1	0	2	9,950	118	1	0	2	9,563	114	1	0	2
			F	Type V	10,499	125	3	0	1	10,106	120	3	0	1	9,712	115	3	0	1
112w	525	121	A	Type I	15,214	126	3	0	2	14,644	121	3	0	2	-	-	-	-	-
			B	Type II	14,514	120	2	0	2	13,970	115	2	0	2	-	-	-	-	-
			C	Type III	15,944	132	3	0	3	15,346	127	3	0	3	-	-	-	-	-
			D	Type IV	14,039	116	2	0	3	13,513	112	2	0	3	12,986	107	2	0	3
			F	Type V	15,209	126	3	0	1	13,637	113	3	0	1	13,161	109	3	0	1

PHOTOMETRIC PERFORMANCE

LED Board Watts	Drive Current (mA)	Input Watts	Optics		5000 CCT 80 CRI		4000 CCT 80 CRI		3000 CCT 80 CRI	
					Lumens	LPW	Lumens	LPW	Lumens	LPW
65w	525	68	C	120°H x 70°V, NEMA 7H x 7V	7,038	104	6,774	100	-	-
			F	115°H x 110°V, NEMA 7H x 7V	6,779	100	6,525	97	-	-
81w	525	84	A	130°H x 70°V, NEMA 7H x 5V	10,496	125	10,102	120	-	-
			B	110°H x 30°V, NEMA 7H x 6V	10,033	119	9,657	115	9,280	110
			C	120°H x 70°V, NEMA 7H x 7V	10,928	130	10,518	125	10,108	120
			D	100°H x 30°V, NEMA 6H x 5V	10,271	122	9,886	117	9,501	113
			F	115°H x 110°V, NEMA 7H x 7V	10,526	125	10,131	120	9,737	116
			I	30°H x 30°V, NEMA 4H x 4V	10,181	121	-	-	-	-
112w	525	121	A	130°H x 70°V, NEMA 7H x 5V	15,204	126	14,634	121	-	-
			B	110°H x 30°V, NEMA 7H x 6V	14,533	120	13,988	116	-	-
			C	120°H x 70°V, NEMA 7H x 7V	15,830	131	15,236	126	-	-
			D	110°H x 30°V, NEMA 6H x 5V	13,794	114	13,277	110	12,760	105
			F	115°H x 110°V, NEMA 7H x 7V	15,248	126	13,672	113	13,195	109
			I	30°H x 30°V, NEMA 4H x 4V	14,078	116	-	-	-	-

PROJECTED LUMEN MAINTENANCE

Data shown for 5000 CCT			Compare to MH			
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated LED Life
L70 Lumen Maintenance @ 25°C / 77°F	All wattages up to and including 121w	1.00	0.98	0.95	0.91	320,000
L70 Lumen Maintenance @ 50°C / 122°F		1.00	0.95	0.89	0.79	141,000
L80 Lumen Maintenance @ 40°C / 104°F		1.00	0.96	0.93	0.85	134,000

NOTES:
1. Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the 525mA base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.
2. Compare to MH box indicates suggested Light Loss Factor (LLF) to be used when comparing to Metal Halide (MH) systems.