LED Module

12 1/4" 6"
3 3/8"
16"

LED Platform

12 1/4" 6"
1 1/2"
16"

LED LGP

12 1/4" 6"
5"
1 3/4"
16"

Project: _____
Fixture Type: _____ **Quantity:** _____
Customer: _____

Specifications

Made in USA UL Illuminating

Material:
RLM shades are constructed of heavy duty spun aluminum. Wall back plate and driver housing are cast aluminum. All fasteners are stainless steel. Inside of shade is reflective white finish for all colors except galvanized paint finish. Screw hardware may not match paint.

Electrical:
Universal voltage 120-277 is standard. (12w Cree LED Module is 120VAC only.) 0-10V, TRIAC and ELV dimming to 1% protocols are standard for LED modules (12w is TRIAC dimming only); 0-10V dimming to 10% is standard for LED Platforms and Light Guide.

See page 2 table for LED module and driver specs, voltage and dimming protocols

Certifications:
Cord mounts are UL Listed for dry locations. Arm mount, stem mount and wall mount are UL Listed for wet locations.

Finish:
A polyester powder coat high quality finish is electro-statically applied and baked at 430° for exceptional durability and color retention. Products undergo an intensive five-step cleansing and pretreatment process for maximum paint adhesion.

Marine grade finish provides superior salt, humidity and UV protection. This coating withstands up to 3000 hours of continuous salt spray, comes with a 5-year warranty and is available in either a textured or gloss surface.

Modifications:
Consult factory for custom or modified designs.

MBVB16 LED

Weight:	LED Module	2.60 lbs
	LED Platform	4.45 lbs
	LED LGP	7.50 lbs
EPA:	0.54	

Catalog Logic

MBVB16 - M024LDD W 40K - N/A - E6 - PC - 41 - UNV

RLM Style | Light Source, Wattage & Dimming | Distribution | CCT | Driver Housing | Mounting | Accessories | Finish | Voltage

Catalog Number

(1) (2) (3) (4) (5) (6) (7) (8)

MBVB16 – – – – – UNV

---

1 LIGHT SOURCE & WATTAGES

M012LDN (12w, 750 lumen, Cree module) Integral driver, 120V, TRIAC dimming & narrow distribution only.

M009LDD (9w, 850 lumen, Cree module)

M010LDD (10w, 1250 lumen, Cree module)

M016LDD (16w, 2000 lumen, Cree module)

M024LDD (24w, 3000 lumen, Cree module)

P029LD4D (29w Platform; 400ma Driver)

P046LD4D (46w Platform; 400ma Driver)

E030LDS (30w Light Guide LED)

E040LDS (40w Light Guide LED)

E050LDS (50w Light Guide LED)

2 DISTRIBUTION/OPTICS

	Module	Platform	Light Guide Small
W	(T5 Wide Distribution with Dome LED Lens)	**T2** (Type II)	**T2** (Type II) (30w, 40w and 50w Only)
N	(T5 Narrow Distribution with Flat LED Lens)	**T3** (Type III)	**T3** (Type III)
12w is narrow only, Select "N".		**T5** (Type V)	**T4** (Type IV)
			T5 (Type V)

3 COLOR TEMPERATURE (CCT)

Module	Platform	Light Guide
27K (2700K)	**27K** (2700K)	**27K** (2700K)
30K (3000K)	**30K** (3000K)	**30K** (3000K)
35K (3500K)	**35K** (3500K)	**35K** (3500K)
40K (4000K)	**40K** (4000K)	**40K** (4000K)

4 CREE LED DRIVER HOUSING OPTIONS*
(Driver Housing only Required with Color Cord and/or Emergency Backup Options)

NA No selection is required if Color Cord or Emergency Backup are not chosen

Color Cord Driver Housing Options
Choose Color Cord Style in Box 5

CRD-DCC (Driver Housing for Color Cord only; 7 3/4" x 1 1/2")

SSC-DCC (Driver Housing for SS Cable/Color Cord only; 7 3/4" x 1 1/2")

Emergency Backup Driver Housing Options

CRD-DCCEM-BLC (Emergency Ballast Housing for Black Cord only; 12" x 1 1/2") **Choose NA in Box 5**

CRD-DCCEM-WHC (Emergency Ballast Housing for White Cord only; 12" x 1 1/2") **Choose NA in Box 5**

CRD-DCCEM (Emergency Ballast Housing for Color Cord only; 12" x 1 1/2") **Choose Color Cord Style in Box 5**

ST-DCCEM (Emergency Ballast Housing for Stem only; 12" x 1 1/2") **Choose Stem Size in Box 5**

SSC-DCCEM-BLC (Stainless steel cable with 6-foot black cord and 12" canopy) **Choose NA in Box 5**

SSC-DCCEM-WHC (Stainless steel cable with 6-foot white cord and 12" canopy) **Choose NA in Box 5**

SSC-DCCEM (Emergency Ballast Housing for SS Cable/Color Cord only; 12" x 1 1/2") **Choose Color Cord Style in Box 5**

*Driver Housing finish will match fixture finish.

5 MOUNTING SOURCES*

Arm Mounts
E3 E4 E6 E8 E9 E13 E15 E18 E20 E22 E25 E26 E36

Wall Mounts
WM41 WM42 WM55 WM35 WM318 WMBVR01 WMBVS01

Post Mounts
PM10 PM20 PM30 PM40 PM50 PM319

5 MOUNTING SOURCES (Continued)*

Cable Mounts
(See page 5 for color cord style)

SSC-BLC-5W (Stainless steel cable with 6-foot black cord and 5 3/8" canopy)

SSC-WHC-5W (Stainless steel cable with 6-foot white cord and 5 3/8" canopy)

Cord Mounts
(See page 5 for color cord style)

NA No Selection Required if: CRD-DCCEM-BLC; CRD-DCCEM-WHC; SSC-DCCEM-BLC or SSC-DCCEM-WHC is choosen in Box 4.

SJT Cord

BLC-5W (6' Black 5-wire SJT Cord)	**WHC-5W** (6' White 5-wire SJT Cord)

Solid Fabric Colored Cords
Must Choose DCC Housing in Box 4
Color Cord Not Available with LED Platform or Light Guide Option

BLSF (6' Black)	**ORSF** (6' Orange)
GYSF (6' Gray)	**LGSF** (6' Lime Green)
CHSF (6' Chocolate Brown)	**KGSF** (6' Kelly Green)
WHSF (6' White)	**CBSF** (6' Cobalt Blue)
CASF (6' Cardinal)	**SBSF** (6' Sky Blue)

Patterned Fabric Colored Cords
Must Choose DCC Housing in Box 4
Color Cord Not Available with LED Platform or Light Guide Option

BWHPF (6' Black/White Houndstooth)	**BIHPF** (6' Brown/Ivory Houndstooth)
GYCPF (6' Gray/Citrus Yellow)	**MOSPF** (6' Magenta/Orange Stripe)
NMTPF (6' Navy Mini Tweed)	

Glossy Fabric Colored Cords
Must Choose DCC Housing in Box 4
Color Cord Not Available with LED Platform or Light Guide Option

GMGF (6' Gun Metal)	**SSGF** (6' Sterling Silver)
CPGF (6' Copper Penny)	**BRGF** (6' Bronze)
GOGF (6' Gold)	

Stem Mounts
(Includes STC Flat Canopy)

1/2" (13/16" OD) Rigid Stems			3/4" (1" OD) Rigid Stems		
2ST6	2ST12	2ST18	3ST6	3ST12	3ST18
2ST24	2ST36	2ST48	3ST24	3ST36	3ST48
2ST60	2ST72	2ST96	3ST60	3ST72	3ST96

*Arm mount, Wall mount or Stem finish will match fixture finish.

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Project: _____

Fixture Type: _____ Quantity: _____

Customer: _____

6	ACCESSORIES*

*EMG-LED06 (6w, LED Emergency Driver, remote placement, Cree module only, Not applicable for 12w LED)
MUST CHOOSE DCCEM CANOPY IN BOX 4 FOR CORD & STEM.
NOT APPLICABLE WITH ARM, WALL OR POST MOUNTS.

*EMG-LED10 (10w, LED Emergency Driver, remote placement, Cree module only, Not applicable for 12w LED)
MUST CHOOSE DCCEM CANOPY IN BOX 4 FOR CORD & STEM.
NOT APPLICABLE WITH ARM, WALL OR POST MOUNTS.

*EMG-LED16 (16w, LED Emergency Driver, remote placement, Cree module only, Not applicable for 12w LED)
MUST CHOOSE DCCEM CANOPY IN BOX 4 FOR CORD & STEM.
NOT APPLICABLE WITH ARM, WALL OR POST MOUNTS.

*EMG-LED20 (20w, LED Emergency Driver, remote placement, Cree module only, Not applicable for 12w LED)
MUST CHOOSE DCCEM CANOPY IN BOX 4 FOR CORD & STEM.
NOT APPLICABLE WITH ARM, WALL OR POST MOUNTS.

*EMG-LEDR10.7 (10.7w, LED Emergency Driver, **remote placement**, for use with Light Guide)

*EMG-LEDR13.7 (13.7w, LED Emergency Driver, **remote placement**, for use with Light Guide)

*EMG-LEDR17 (17w, LED Emergency Driver, **remote placement**, for use with Light Guide)

*EMG-LED20HV (20w, High Voltage LED Emergency Driver, **remote placement**, for use with Platforms & Light Guides)

GR16	(16" Wire Grill)**
PC	(Button Photo Cell) Remote Only
SC	(Scroll for Arms)**
SLC	(Sloped Ceiling Mount Canopy, 20° Max)**
SQ	(Square Back Plate)**
SWL	(Adjustable Locking Swivel)**
TBK	(Turn Buckle Kit)**

*For Emergency lumen output data; see Technical section at www.ANPlighting.com

**Accessory finish will match fixture finish.

7	FINISHES
	*Marine Grade Finish has an additional charge

Standard Colors	Standard Grade	Marine Grade*	Premium Colors	Premium Grade	Marine Grade*
Aspen Green	10	10M	High Gloss Black	01	01M
Cantaloupe	11	11M	Arctic Silver	14	14M
Lilac	12	12M	Candy Apple Red	64	64M
Putty	13	13M	Cobalt Blue	65	65M
Raw Unfinished	40	NA	Caramel	66	66M
Black	41	41M	Butterscotch	67	67M
Forest Green	42	42M	Black Silver	68	68M
Bright Red	43	43M	Gunmetal Gray	69	69M
White	44	44M	Mayan Gold	79	NA
Bright Blue	45	45M	Textured Desert Stone	80	80M
Sunny Yellow	46	46M	Extreme Chrome	81	81M
Aqua Green	47	47M	Graystone	82	82M
Galvanized	49	NA	Oil Rubbed Bronze	83	83M
Navy	50	50M	Carbon Graphite	96	96M
Architectural Bronze	51	51M			
Patina Verde	52	52M			
Copper Clay	53	53M			
Silver	56	56M			
Black Verde	61	61M			
Painted Chrome	70	70M			
Painted Copper	71	71M			
Textured Black	72	72M			
Matte Black	73	73M			
Textured Architectural Bronze	76	76M			
Textured White	77	77M			
Textured Silver	78	78M			

Consult Factory for additional paint charges and availability.

8	VOLTAGE

UNV (120-277)

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Project: _____

Fixture Type: _____ Quantity: _____

Customer: _____

LED PERFORMANCE

LED MODULE SPECIFICATIONS

LED	CCT	Typical Luminous Flux	System Wattage	Typical Efficacy
9W	2700K	850	11W	97
	3000K	850	11W	97
	3500K	850	11W	97
	4000K	850	11W	97
10W	2700K	1250	12W	125
	3000K	1250	12W	125
	3500K	1250	12W	125
	4000K	1250	12W	125
12W	2700K	750	12W	65
	3000K	750	12W	65
	3500K	750	12W	65
	4000K	750	12W	65
16W	2700K	2000	19W	125
	3000K	2000	19W	125
	3500K	2000	19W	125
	4000K	2000	19W	125
24W	2700K	3000	29W	125
	3000K	3000	29W	125
	3500K	3000	29W	125
	4000K	3000	29W	125

PLATFORM SPECIFICATIONS

LED Wattage	CCT	Typical Luminous Flux	System Wattage	Typical Efficacy
29W	2700K	2670	30w	89
	3000K	2670	30w	89
	3500K	3209	30w	107
	4000K	3465	30w	116
46W	2700K	4004	46w	87
	3000K	4004	46w	87
	3500K	4814	46w	105
	4000K	5197	46w	115

PLATFORM SPECIFICATION:

- Efficacy ranges from 87-116 lumens per watt
- Customized lens precisely directs the light
- Operating temperature of -30C to 55C
- Life: L70 is 60,000 hours
- PLATFORM CCT: 2700K, 3000K, 3500K, and 4000K
- CRI: >70
- Parallel circuitry ensures consistent light output in the event of single LED failure

PLATFORM DRIVER SPECIFICATION:

- Operates at 400mA
- Dimmable down to 10%
- Built in surge protection
- Constant current output 50/60HZ
- Driver Efficiency > 90% power factor above 99%
- 120 – 277 volts
- 0-10V dimming protocol is standard

MODULE SPECIFICATION:

- Efficacy 65-125 lumens per watt
- Life: L70 50,000 hours
- Color temp: 2700K, 3000K, 3500K and 4000K
- CRI: >90

MODULE DRIVER SPECIFICATION:

- Input Voltage: 120-277 Volts; 50/60Hz
- Dimmable down to 1%
- 0-10V, TRIAC and ELV dimming protocols are standard. (12w is 120v and TRIAC dimming only)
- Output Current: Constant Current; 440mA to 940mA (model dependent)
- Driver Efficiency > 80%; Power Factor > 0.9
- Integral Surge Protection in conformance to ANSI C62.41 Category A.

MODULE LISTINGS

- Fully compliant with the RoHS Directive
- Certifications: CE/UL

PLATFORM LISTINGS

- Fully compliant with the RoHS Directive
- Certifications: ETL
- Rated IP65 with an optional IP66 rating

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Project: _____

Fixture Type: _____ Quantity: _____

Customer: _____

LED PERFORMANCE Continued

LIGHT GUIDE SPECIFICATION

- Typical Efficacy is 101 - 126 lumens per watt
- Color temp: 2700K, 3000K, 3500K and 4000K
- CRI: 70
- Distribution: Type II, III, IV & V

LIGHT GUIDE DRIVER SPECIFICATION

- 120 thru 277 Universal Voltage
- 50/60 HZ
- 0-10V dimming to 10%
- Minimum operatinig temperature: -30°C

- Drive Current: 900mA to 2505mA (model dependent)
- Driver Efficiency > 80%; Power Factor > 0.90
- Lifetime: 50,000 hours
- Integral Surge Protection in conformance to IP64
- UL, cUL, CE

LIGHT GUIDE SMALL

LED Wattage	CCT	CRI	Type II					Type III					Type IV					Type V					Drive Current				Nominal System
			Delivered Lumens	Lumens Per Watt	B	U	G	Delivered Lumens	Lumens Per Watt	B	U	G	Delivered Lumens	Lumens Per Watt	B	U	G	Delivered Lumens	Lumens Per	B	U	G	Type II	Type III	Type IV	Type V	
30W	2700K	70	3307	110	1	0	1	3405	114	1	0	1	3474	116	1	0	1	3124	104	2	0	1	900mA	925mA	925mA	925mA	30w
	3000K	70	3211	107	1	0	1	3307	110	1	0	1	3373	112	1	0	1	3034	101	2	0	1	900mA	925mA	925mA	925mA	30w
	3500K	70	3595	120	1	0	1	3702	123	1	0	1	3776	126	1	0	1	3396	113	2	0	1	900mA	925mA	925mA	925mA	30w
	4000K	70	3479	116	1	0	1	3583	119	1	0	1	3655	122	1	0	1	3287	110	2	0	1	900mA	925mA	925mA	925mA	30w
40W	2700K	70	4409	110	2	0	2	4541	114	2	0	2	4631	116	2	0	2	4165	104	2	0	1	1150mA	1200mA	1200mA	1200mA	40w
	3000K	70	4282	107	2	0	2	4409	110	2	0	2	4497	112	2	0	2	4045	101	2	0	1	1150mA	1200mA	1200mA	1200mA	40w
	3500K	70	4793	120	2	0	2	4936	123	2	0	2	5035	126	2	0	2	4528	113	2	0	1	1150mA	1200mA	1200mA	1200mA	40w
	4000K	70	4639	116	2	0	2	4778	119	2	0	2	4873	122	2	0	2	4383	110	2	0	1	1150mA	1200mA	1200mA	1200mA	40w
50W	2700K	70	5492	110	2	0	2	5676	114	2	0	2	5789	116	2	0	2	5207	104	3	0	1	1495mA	1580mA	1580mA	1580mA	50w
	3000K	70	5333	107	2	0	2	5511	110	2	0	2	5622	112	2	0	2	5056	101	3	0	1	1495mA	1580mA	1580mA	1580mA	50w
	3500K	70	5970	120	2	0	2	6170	123	2	0	2	6293	126	2	0	2	5660	113	3	0	1	1495mA	1580mA	1580mA	1580mA	50w
	4000K	70	5778	116	2	0	2	5972	119	2	0	2	6092	122	2	0	2	5479	110	3	0	1	1495mA	1580mA	1580mA	1580mA	50w

SURGE SUPPRESSION (PLATFORM & LIGHT GUIDE ONLY)

- A Surge Protection Device (SPD) is standard featuring a 20kA maximum discharge current 8/20μs Waveform (Imax); 10kA nominal discharge current 8/20μs Waveform (In) and thermally protected varistor technology.
- Meets IEEE C62.41.2 Location Category C High and US Dept of Energy MSSLC Model Spec.
- SPD shall be wired in series and will result in an open circuit during a fault state, resulting in the luminaire to turn off to protect system components thereby indicating SPD module replacement.

WARRANTY

See www.ANPlighting.com for complete fixture warranty.

LED warranty information

- 5 year limited warranty on Modules/Drivers
- 7 year limited warranty* on Platform LED engines
- 5 year limited warranty* on Light Guide engines
- 5 year limited warranty* on LED Drivers

*Limited Warranty: A typical year is defined as 4380 hours of operation. Failed defined as more than 10% of the total platform LED's not operating.

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ANP Lighting

ARM MOUNTS | Dimensions are Projection x Height | CB included with all arms

E3 | 32" x 11 7/8"	**E4** | 26" x 14"	**E6** | 26" x 9 1/4"	**E8** | 29 1/4" x 12 1/2"
E9 | 28" x 40 5/8"	**E13** | 34" x 34 3/8"	**E15** | 13 3/8" x 10 1/2"	**E18** | 27 3/4" x 21 3/8"
E20 | 7" x 4 1/2"	**E22** | 7 1/2" x 4 1/2"	**E25** | 23" x 5 1/4"	**E26** | 8 1/8" x 6"
E36 | 20 1/4" x 8"			

Driver Housings
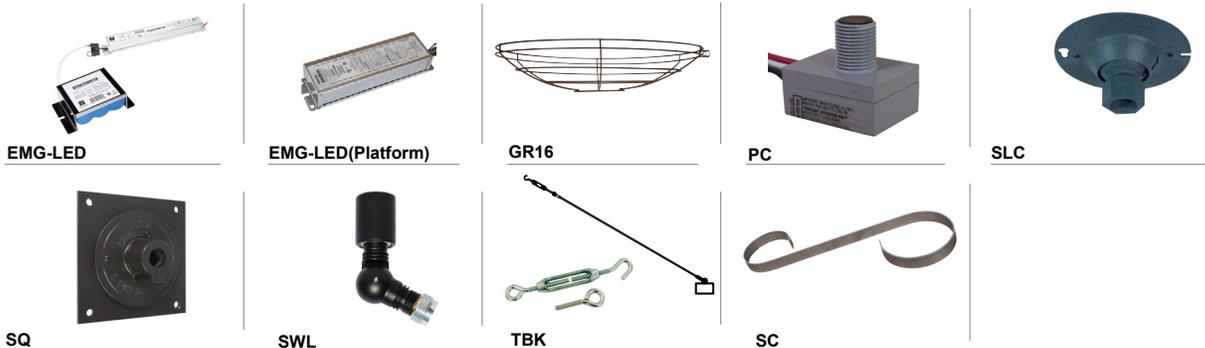
	CRD-DCC (7 3/4" x 1 1/2") Cord Only
	SSC-DCC (7 3/4" x 1 1/2") Cable/Cord Only
	ST-DCCEM (12" x 1 1/2") Stem Only
	CRD-DCCEM (12" x 1 1/2") Cord Only
	SSC-DCCEM (12" x 1 1/2") Cable/Cord Only

WALL MOUNTS | Dimensions are Projection x Height | POST MOUNTS | Dimensions are Projection x Height

WM35 | 20 1/2" x 25"	**WM41** | 10 1/2" x 14 3/4"	**WM42** | 12" x 15"	**PM10** | 14 1/2" x 25"	**PM20** | 30 1/8" x 25"
WM55 | 20 5/8" x 14 1/4"	**WM318** | 12" x 12 3/4"	**WMBVR01** | 14 1/4" x 7 7/16"	**PM30** | 21 5/8" x 28 7/8"	**PM40** | 43 3/8" x 28 7/8"
WMBVS01 | 13" x 6 3/4"			**PM50** | 27" x 38"	**PM319** | 16 5/8" x 27 1/2"

ACCESSORIES

EMG-LED	**EMG-LED(Platform)**	**GR16**	**PC**	**SLC**
SQ	**SWL**	**TBK**	**SC**	

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All fabric Color Cords are three conductor, 1/4" diameter

Solid Fabric Colored Cords

BLSF	Black	**GYSF**	Gray	**CHSF**	Chocolate Brown	**WHSF**	White	**CASF**	Cardinal
ORSF	Orange	**LGSF**	Lime Green	**KGSF**	Kelly Green	**CBSF**	Cobalt Blue	**SBSF**	Sky Blue

Patterned Fabric Colored Cords

BWHPF | Black/White Houndstooth	**BIHPF** | Brown/Ivory Houndstooth	**GYCPF** | Gray/Citrus Yellow	**MOSPF** | Magenta/Orange Stripe	**NMTPF** | Navy Mini Tweed

Glossy Fabric Colored Cords

GMGF | Gun Metal	**SSGF** | Sterling Silver	**CPGF** | Copper Penny	**BRGF** | Bronze	**GOGF** | Gold

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1-800-548-3227
ANPlighting.com