MAGNULITER® LED SERIES

LED FLOODLIGHTS

Cat.#

Job

Type

HUBBELL® Outdoor Lighting

Approvals

SPECIFICATIONS

Intended Use:
The MLED family is a large area floodlight designed to provide multiple NEMA distributions to allow the best beam utilization on your application. Typical uses are area lighting for safety and security, build façade illumination, flag lighting, large sign or statuary accent.

Construction:
Housing and doors are die-cast aluminum with dark bronze powder paint for durable life and lasting appearance. The back housing has two compartments which allows isolation of the driver from the LED light engine. This separation protects the driver from the light engine heat and also allows the LEDs to run at peak performance.

The lens door is sealed with four stainless steel screws and features a convex molded glass protective lens sealed with silicone gaskets. The lens provides maximum light output and reduces the effective projected area of the fixture to a maximum 2.0 sq. ft. EPA.

A separate driver access door allows entry for wiring. There is no need to open the optical door. A compression cord grip and 3ft of 16/3 SO cord is provided on all units.

A heavy gauge steel full yoke with zinc oxide coating is standard on all units. Yoke has aiming angle increments provided along with locking washers and stars. Yoke bolts are stainless steel and provide a secure hold when properly tightened.

Optics:
The family is made up of two LED assemblies, an 80LED engine that produces a nominal 11,000 lumens. Each engine is featured with three NEMA beam spreads (3x3, 5x5, 7x7) to allow the best utilization of the lumens and reduce spill light. The light engine is protected from the elements by the tempered molded glass outer lens. CRI - 70, CCT 4800K nominal.

Electrical:
- Drivers are universal voltage 120 through 277V, 50/60Hz operation
- 80LED fixtures consume a nominal 179 input watts and draw 1.96A-120V / .85A-277V
- Drivers have greater than .90 power factor and less than 20% Total Harmonic Distortion

Installation:
Steel yoke mount/mounting adapters available

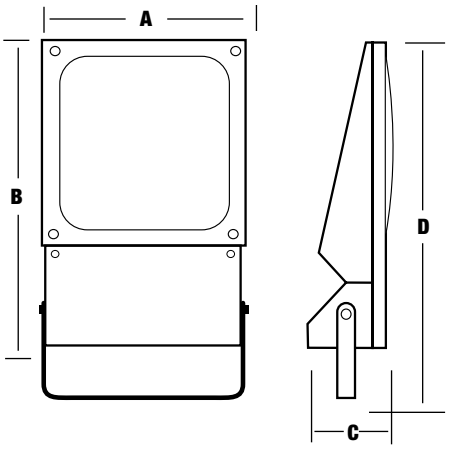
Listings:
Listed to UL1598 for use in wet locations, IP65 rated; Some models meet DesignLights Consortium (DLC) qualifications, consult DLC website for more details:
http://www.designlights.org/QPL

Warranty:
Five year limited warranty (for more information visit: http://www.hubbelloutdoor.com/resources/warranty/

PRODUCT IMAGE(S)

MLED-80LU-5K-W MLED-80LU-5K-M MLED-80LU-5K-N

DIMENSIONS



A	B	C	D	EPA	Weight
16”	18.75”	4.25”	21”	2.0 ft²	25 lbs.
406 mm	476 mm	108 mm	534 mm	0.06 m²	9.09 kg

CERTIFICATIONS/LISTINGS

IP65

ORDERING INFORMATION

ORDERING EXAMPLE: MLED-80LU-5K-W-BZ-SP

MLED - [ ] U - 5K - [ ] - [ ] - [ ]

SERIES
MLED Magnuliter LED Series

NUMBER OF LEDS
80L 80 LEDs

VOLTAGE
U 120-277V

CCT
5K 4800K nominal

BEAM SPREAD
W Wide 7x7
M Medium 5x5
N Narrow 3x3

FINISH
Standard
BZ Bronze
Optional
BL Black
GR Gray
WH White

OPTIONS
PRU Photo-control receptacle 120-277V
SP Surge protection

Catalog Number	Wattage	Voltage	Lumens	Drive Current	CRI	LPW	DesignLights Consortium
MLED-80L-U-5K-N	187	120-277V	13880	525mA	80	74	DLC QPL LISTED

ACCESSORIES - Order Separately, Field Installed

Catalog Number	Description
4024C	2 3/8” O.D. slipfitter for yoke units – Bronze
4090	Heavy-duty cast iron crossarm fitting for horizontal trunnion, Bronze Lektrocote®

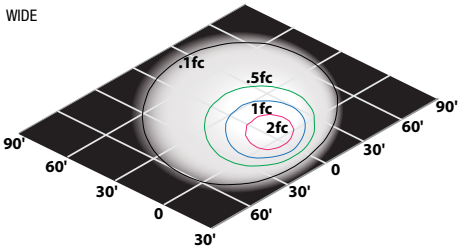
HUBBELL® Outdoor Lighting

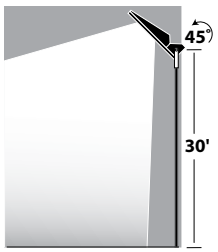
Hubbell Outdoor Lighting • 701 Millennium Boulevard • Greenville, SC 29607 • Phone: 864-678-1000

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

PHOTOMETRICS

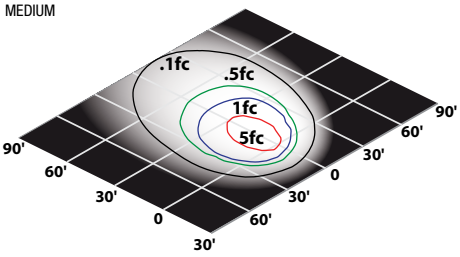
WIDE

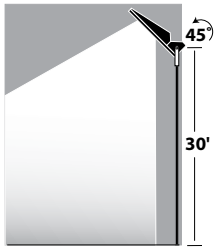




MLED-80L-U-5K-W.IES

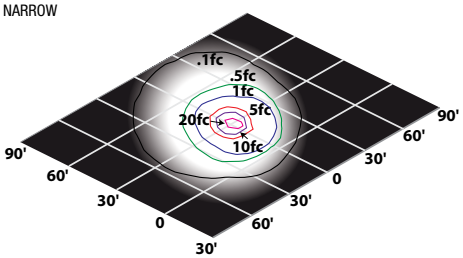
MEDIUM

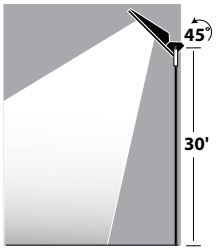




MLED-80L-U-5K-M.IES

NARROW





MLED-80L-U-5K-N.IES

PHOTOMETRIC REPORTS

Catalog Number	IES Report
MLED-80LU-5K-W 7x7	MLED80LU5KW.IES
MLED-80LU-5K-M 5x5	MLED80LU5KM.IES
MLED-80LU-5K-N 3x3	MLED80LU5KN.IES

PERFORMANCE DATA

						(4800K NOMINAL, 70 CRI)		
# OF LEDS	DRIVE CURRENT (MILLIAMPS	SYSTEM WATTS	DISTRIBUTION TYPE	NEMA	FIELD ANGLE H° X V°	LUMENS	LPW	MAX BEAM CANDLEPOWER
80	700mA	179W	N	3 x 3	38 x 38	11,362	63	61,540
			M	5 x 5	77 x 75	11,121	62	17,648
			W	7 x 7	158 x 157	9,874	55	3,585

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment, application and inherant performance tolerances of the electrical components.

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

AMBIENT TEMPERATURE		LUMEN MULTIPLIER
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.99
50°C	122°F	0.98

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

PROJECTED LUMEN MAINTENANCE

AMBIENT TEMP.	0	25,000	50,000	[1]TM-21-11 60,000	100,000	Calculated L70 (HOURS)
25°C	1.00	0.94	0.90	0.88	0.82	>201,000
40°C	0.99	0.91	0.86	0.83	0.75	>125,000

1 Cree XP-E, 700mA, 10,000hrs

ELECTRICAL DATA

# OF LEDS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	CURRENT (Amps)	SYSTEM POWER (W)
80	STD. (525mA)	120	1.466	179
		277	0.676	166

LIGHTING FACTS