

# FLOOD LIGHT(MFD07)

## Specifications

### Construction:

- Rugged one-piece, die-cast aluminum housing with durable dark bronze power coat finish secures the thermally conductive LED panel and electrical chamber
- Low profile, 3G vibration rated compact design minimizes wind load requirements.
- Housing is completely sealed against moisture and environmental contaminants.

### Optics:

- Light engines are available in standard 3000K, 4000 K and 5000 K (70 CRI) configurations.
- Scalable Lumen Packages from 5,450 to 40,800 Lumens
- LED drivers are mounted to removable tray assembly for ease of maintenance.
- Optics is precisely designed to shape the distribution, maximizing efficiency and application spacing.
- For the ultimate level of spill light control, an optional house-side shield accessory can be field or factory installed.
- The optics can conform to dark sky requirement.
- Optics create consistent distributions with the scalability to meet customized application requirements

### Electrical:

- Universal 120-277 VAC or 347-480 VAC input voltage
- Standard with 1-10V dimming driver(s)
- THD:  $\leq 20\%$
- Power Factor:  $\geq 90\%$

### Controls:

- Optional Photocell

### Ambient Temperature:

- Ambient operating temperature  $-40^{\circ}\text{C}$  to  $45^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$  to  $113^{\circ}\text{F}$ ).

### Installation:

- Yoke, slipfitter and wall mount are available

### Lifespan:

- Estimated 100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

### Finish:

- It's available in black or optional dark bronze, silvery gray or white.



Black



Dark Bronze



Silver Gray



White



Small Size:  
40W/70W/100W



Medium Size:  
150W/200W



Large Size:  
250W/300W



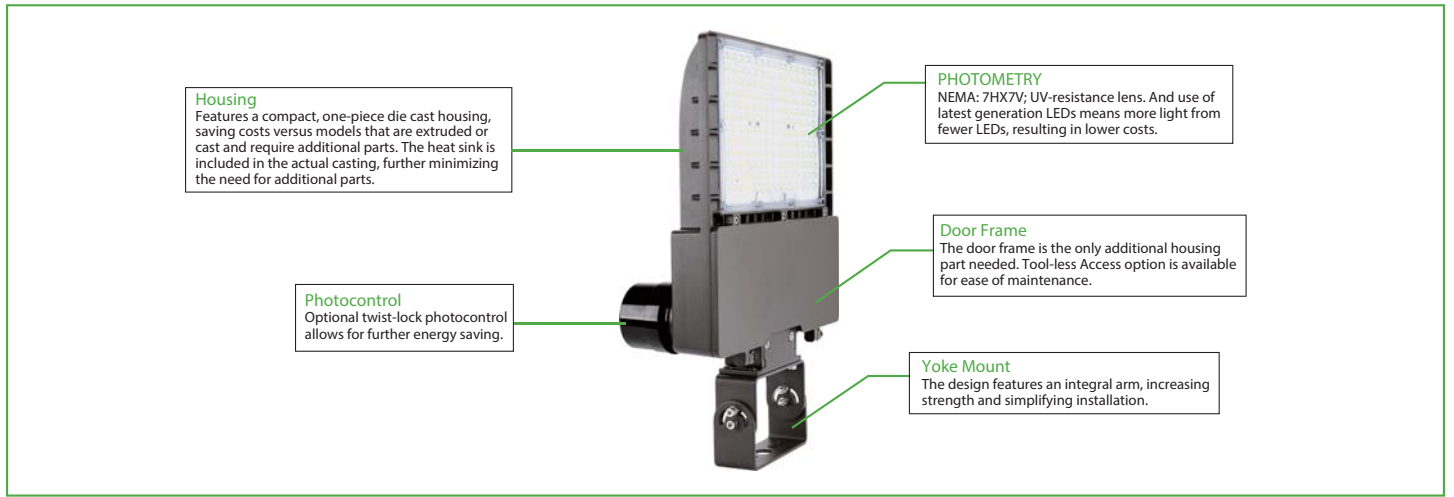
### Note:

Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at  $25^{\circ}\text{C}$  ( $\pm 5^{\circ}\text{C}$ ) specifications subject to change without notice.

## Applications:

Facade, Wall Washing, Landscape lighting, Poster board lighting, Building lighting.





## PERFORMANCE DATA

			4000K(70CRI)		5000K(70CRI)	
SYSTEM WATTS	VOLTAGE	NEMA	LUMENS	LPW	LUMENS	LPW
40W	120-277V	7Hx7V	5600lm	140 lm/W	5720lm	143 lm/W
45W	347-480V	7Hx7V	6120lm	136 lm/W	6210lm	138 lm/W
70W	120-277V	7Hx7V	9730lm	139 lm/W	9800lm	140 lm/W
75W	347-480V	7Hx7V	10200lm	136 lm/W	10350lm	138 lm/W
100W	120-277V	7Hx7V	13800lm	138 lm/W	13900lm	139 lm/W
150W	120-277V	7Hx7V	20500lm	137 lm/W	20800lm	139 lm/W
	347-480V	7Hx7V	21000lm	140 lm/W	21000lm	140 lm/W
200W	120-277V	7Hx7V	25500lm	128 lm/W	26000lm	130 lm/W
	347-480V	7Hx7V	25500lm	128 lm/W	26000lm	130 lm/W
250W	120-277V	7Hx7V	34750lm	139 lm/W	35250lm	141 lm/W
	347-480V	7Hx7V	34750lm	139 lm/W	35250lm	141 lm/W
300W	120-277V	7Hx7V	40500lm	135 lm/W	41000lm	137 lm/W
	347-480V	7Hx7V	41500lm	138 lm/W	42000lm	140 lm/W

## ELECTRICAL DATA

Number Of Drivers	Driver Current (mA)	Nominal Power (W)	INPUT VOLTAGE (V)	CURRENT (Amps)
1	980	40	120	0.33
		40	208	0.19
		40	240	0.17
		40	277	0.14
		45	347	0.13
		45	480	0.09
1	1720	70	120	0.58
		70	208	0.34
		70	240	0.29
		70	277	0.25
		75	347	0.22
		75	480	0.16
1	2450	100	120	0.83
		100	208	0.48
		100	240	0.42
		100	277	0.36
1	3900	150	120	1.25
		150	208	0.72
		150	240	0.63
		150	277	0.54
		150	347	0.43
		150	480	0.31
1	5100	200	120	1.67
		200	208	0.96
		200	240	0.83
		200	277	0.72
		200	347	0.58
		200	480	0.42
1	6400	250	120	2.08
		250	208	1.20
		250	240	1.04
		250	277	0.90
		250	347	0.72
		250	480	0.52
1	6000	300	120	2.50
		300	208	1.44
		300	240	1.25
		300	277	1.08
		300	347	0.86
		300	480	0.63



# ORDERING GUIDE

Example:MFD07 100W 27V XXX YYYYYY

Fixture Type	Wattage	Voltage	CCT	CRI	Finish	Photocell (Option)	Nema	Mounting	Surge Protection (Option)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>MFD07</b> Flood Light Series	<b>40</b> 40W <b>45</b> 45W <b>70</b> 70W <b>75</b> 75W <b>100</b> 100W	<b>27V</b> 120-277V <b>48V</b> 347-480V	<b>40K</b> 4000K <b>50K</b> 5000K	<b>B</b> 70CRI	<b>D</b> Dark Bronze <b>B</b> Black <b>W</b> White <b>SG</b> Silver Gray	<b>P0</b> 120-277V Photocell <b>P3</b> 347V Photocell <b>P4</b> 480V Photocell <b>Blank</b> Without Photocell	<b>B77</b> 7Hx7V	<b>YK</b> Yoke Mount <b>SP</b> Slipfitter Mount <b>WM</b> Wall Mount	<b>S</b> Surge protection <b>(Blank)</b> No Surge protection

Note: 1. 100W is limited to 120-277V input only.  
 2. The Watt is 40W when the voltage is 120-277V, while when it is 347-480V, the watt is 45W.  
 3. The Watt is 70W when the voltage is 120-277V, while when it is 347-480V, the watt is 75W.  
 4. While installing photocell on flood light, the horizontal elevation angle should not exceed 15°.

Example:MFD07 150W 27V XXX YYYYYY

Fixture Type	Wattage	Voltage	CCT	CRI	Finish	Photocell (Option)	Nema	Mounting
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>MFD07</b> Flood Light Series	<b>150</b> 150W <b>200</b> 200W <b>250</b> 250W <b>300</b> 300W	<b>27V</b> 120-277V <b>48V</b> 347-480V	<b>40K</b> 4000K <b>50K</b> 5000K	<b>B</b> 70CRI	<b>D</b> Dark Bronze <b>B</b> Black <b>W</b> White <b>SG</b> Silver Gray	<b>P0</b> 120-277V Photocell <b>P3</b> 347V Photocell <b>P4</b> 480V Photocell <b>Blank</b> Without Photocell	<b>B77</b> 7Hx7V	<b>YK</b> Yoke Mount <b>SP</b> Slipfitter Mount <b>WM</b> Wall Mount