WF

The DLC Listed, full cut-off WFLED wallpacks replace 50W to 250W metal halide wall mounted fixtures while consuming up to 75% less energy and operating for up to 100,000 hours. The expected service life is more than 27 years of nighttime use.

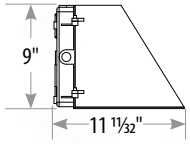
Project

Catalog Number

Type

Date

- Dark Sky, Full Cut-off Traditional design
- Up to 75% energy savings vs. traditional HID sources
- 100,000 hour operating life (L70)
- 5000K (standard) CCT
- >80 CRI
- Instant on; zero restrike



WFM LED Shown

HOUSING / LENS / OPTICS The bronze die-cast aluminum housing, glass lens and stainless steel hardware together make the WFLED Full Cutoff Wallpacks resistant to both weather and vandalism. Produces zero uplight and is Dark Sky compliant. Both the hinged door and glass lens utilize weatherproof silicone gasketing to seal out contaminants. Lens is tempered clear glass.

LEDS The WFS LED Wallpack is available in 1,014 delivered lumens (13W). The WFM LED Wallpacks are available in 3 light levels; 1,800 lumens (23W), 3,386 lumens (45W), and 5,220 lumens (70W), all delivered at 5000K CCT; >80 CRI (typical). LED operating life is 100,000 hours L70. Light engines consist of 10, 20, or 30 LED chip packages mounted to metal core PCB and integral aluminum heat sink.

ELECTRICAL Power supply is 120-277V operation. Power factor is >0.9. Power supply is mounted in direct contact with aluminum housing for cooler operation and longer life. Drive current for 13W, 23W, is (1) 700mA. 45W is (2) 700mA. 70W is (3) 700mA. Suitable for use in operating temperatures of -22˚F (-30˚C) to 104˚F (40˚C).

ACCESS / WIRING The side-hinged door opens easily using two captive stainless steel screws to provide easy access to internal components. Wiring options include mounting over a 4" recessed junction box or surface mounting using convenient conduit entries located on side and bottom of fixture. Additional access holes are provided for optional button photocell.

MOUNTING The recommended wall mounting height of the WFS LED Wallpack is up to 10', and from 10' to 24' for the WFM. Units include rear 1/2" conduit holes access with drill points for mounting. WF LED fixtures can be mounted to direct light upward or downward (must be mounted facing directly downward for full cutoff applications).

LISTINGS C-UL-US Listed wet location.

WARRANTY 5 year limited warranty.

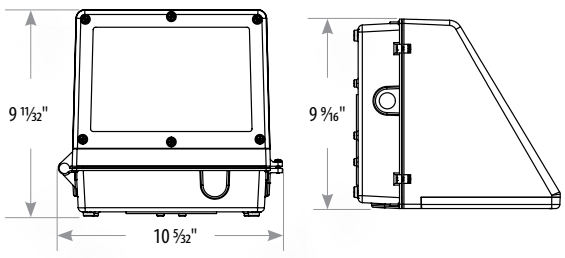
WF LED Wall Pack Configuration

SERIES	LIGHT SOURCE	WATTAGE	VOLTAGE	OPTIONS
WFSLED = (13W) **WFMLED** = (23W, 45W, and 70W)	**06** = LED	**13** = 13W **02** = 23W **04** = 45W **07** = 70W	**U** = Universal 120-277V	**(X)B** = Button Photocell; designate voltage: **1** = 120V, **2** = 277V, **3** = 208V, **4** = 240V **BK** = Black Housing **ELS** = Emergency Backup (Consult factory)

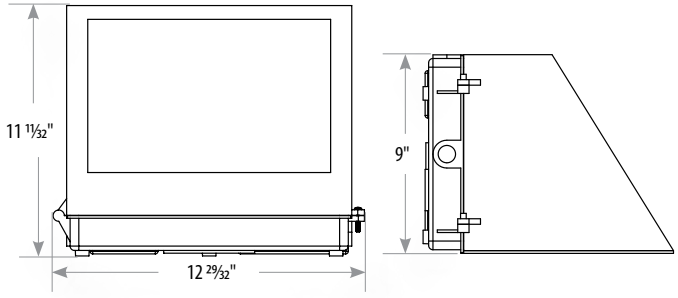
** Nominal. See performance data for actual input power.*

Dimensions

WFSLED



WFMLED



Performance Data

Model	Input Power	Efficacy (lm/W)	Light Output*	Mounting Ht.**	Equivalent HID**	Operating Temperature
WFSLED0613U	13W	83	1014 lm	8'–10'	Up to 50W PSMH	-22°F (-30°C) to 104°F (40°C)
WFMLED0602U	23W	79	1773 lm	10'–15'	50W PSMH to 100W PSMH	-22°F (-30°C) to 104°F (40°C)
WFMLED0604U	45W	74	3304 lm	15'–18'	100W PSMH to 150W PSMH	-22°F (-30°C) to 104°F (40°C)
WFMLED0607U	68W	77	5220 lm	18'–24'	150W PSMH to 250W PSMH	-22°F (-30°C) to 104°F (40°C)

** Delivered lumens*
*** Consult a lighting engineer to meet specific requirements*

Photometric Data

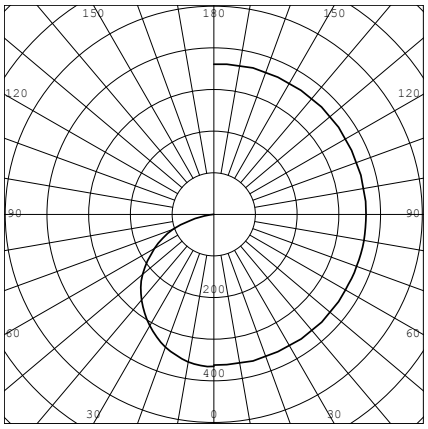
Luminaire Data

Cast aluminum housing, semi-specular aluminum reflector, clear glass lens

Catalog Number	WFMLED0613U
Lab Test#	UL250544
(#) Power Supply	(1) Constant Current, 700mA
# LED	(10) White LEDs
Color Temperature	5000K CCT
Input Watts	12.28
Delivered Lumens	1014
Operating Life	100,000 hrs. (L70)
Fixture Efficacy	82.5 lm/W

Flux Distribution			
Lumens	***Dowward***	***Upward***	***Total***
House Side	515.8	0.0	515.88
Street Side	497.8	0.0	497.8
Total:	1013.6	0.0	1013.6

Candela Plot



Zonal Lumen Summary **(Nominal; Total Fixture Lumens 1014)**

Forward Light	*% Total Fixture Lumens*	*Lumens*
Forward Light Lumens	50.9%	515.9
Forward Low Zone (0 to 30 Degrees)	14.0%	141.9
Forward Mid Zone (30 to 60 Degrees)	27.0%	273.8
Forward High Zone (60 to 80 Degrees)	9.6%	973.4
Forward Very High Zone (80 to 90 Degrees)	0.3%	3.0

Back Light	*% Total Fixture Lumens*	*Lumens*
Back Light Lumens	49.1%	498.4
Back Light Low Zone (0 To 30 Degrees)	13.9%	140.9
Back Light Mid Zone (30 To 60 Degrees)	26.2%	265.7
Back Light High Zone (60 To 80 Degrees)	8.8%	89.2
Back Light Very High Zone (80 To 90 Degrees)	0.3%	3.0

Photometric Data

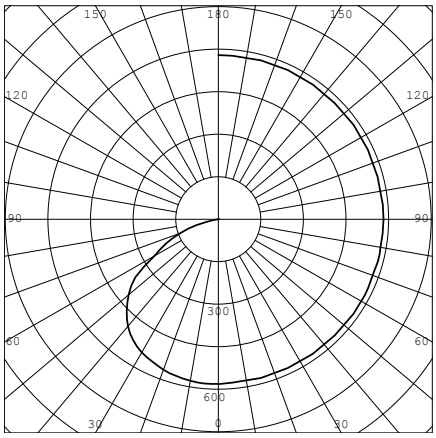
Luminaire Data

Cast aluminum housing, semi-specular aluminum reflector, clear glass lens

Catalog Number	WFMLED0602U
Lab Test#	LTL30098
(#) Power Supply	(1) Constant Current, 700mA
# LED	(10) White LEDs
Color Temperature	5000K CCT
Input Watts	22.45
Delivered Lumens	1773
Operating Life	100,000 hrs. (L70)
Fixture Efficacy	79.0 lm/W

Flux Distribution			
Lumens	***Dowward***	***Upward***	***Total***
House Side	886.59	0.0	886.59
Street Side	886.59	0.0	886.59
Total:	1773.18	0.0	1773.18

Candela Plot



Zonal Lumen Summary **(Nominal; Total Fixture Lumens 1773)**

Forward Light	*% Total Fixture Lumens*	*Lumens*
Forward Light Lumens	49.9%	886.3
Forward Low Zone (0 to 30 Degrees)	13.3%	236.1
Forward Mid Zone (30 to 60 Degrees)	28.0%	497.1
Forward High Zone (60 to 80 Degrees)	8.5%	151.5
Forward Very High Zone (80 to 90 Degrees)	0.1%	2.0

Back Light	*% Total Fixture Lumens*	*Lumens*
Back Light Lumens	49.9%	886.3
Back Light Low Zone (0 To 30 Degrees)	13.3%	236.1
Back Light Mid Zone (30 To 60 Degrees)	28.0%	497.1
Back Light High Zone (60 To 80 Degrees)	8.5%	151.5
Back Light Very High Zone (80 To 90 Degrees)	0.1%	2.0

Photometric Data

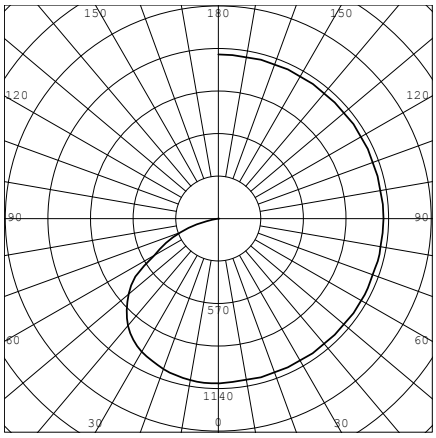
Luminaire Data

Cast aluminum housing, semi-specular aluminum reflector, clear glass lens

Catalog Number	WFM0604U
Lab Test#	LTL30095
(#) Power Supply	(2) Constant Current, 700mA
# LED	(20) White LEDs
Color Temperature	5000K CCT
Input Watts	44.60
Delivered Lumens	3304
Operating Life	100,000 hrs. (L70)
Fixture Efficacy	74.1 lm/W

Flux Distribution			
Lumens	***Dowward***	***Upward***	***Total***
House Side	1652.08	0.0	1652.08
Street Side	1652.08	0.0	1652.08
Total:	3304.16	0.0	3304.16

Candela Plot



Zonal Lumen Summary **(Nominal; Total Fixture Lumens 3304)**

Forward Light	*% Total Fixture Lumens*	*Lumens*
Forward Light Lumens	50.0%	1652.0
Forward Low Zone (0 to 30 Degrees)	13.8%	456.0
Forward Mid Zone (30 to 60 Degrees)	28.0%	927.0
Forward High Zone (60 to 80 Degrees)	8.1%	267.0
Forward Very High Zone (80 to 90 Degrees)	0.1%	30.0

Back Light	*% Total Fixture Lumens*	*Lumens*
Back Light Lumens	50.0%	1652.0
Back Light Low Zone (0 To 30 Degrees)	13.8%	456.0
Back Light Mid Zone (30 To 60 Degrees)	28.0%	927.0
Back Light High Zone (60 To 80 Degrees)	8.1%	267.0
Back Light Very High Zone (80 To 90 Degrees)	0.1%	30.0

Photometric Data

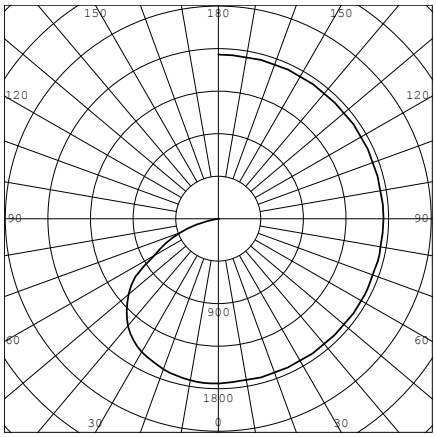
Luminaire Data

Cast aluminum housing, semi-specular aluminum reflector, clear glass lens

Catalog Number	WFMLED0607U
Lab Test#	UL33981
(#) Power Supply	(3) Constant Current, 700mA
# LED	(30) White LEDs
Color Temperature	5000K CCT
Input Watts	67.63
Delivered Lumens	5220
Operating Life	100,000 hrs. (L70)
Fixture Efficacy	77.2 lm/W

Flux Distribution			
Lumens	***Dowward***	***Upward***	***Total***
House Side	2576.7	0.0	2576.7
Street Side	2545.9	0.0	2545.9
Total:	5122.7	0.0	5122.7

Candela Plot



Zonal Lumen Summary **(Nominal; Total Fixture Lumens 5122)**

Forward Light	*% Total Fixture Lumens*	*Lumens*
Forward Light Lumens	49.7%	2544.7
Forward Low Zone (0 to 30 Degrees)	13.6%	696.6
Forward Mid Zone (30 to 60 Degrees)	27.5%	1408.6
Forward High Zone (60 to 80 Degrees)	8.4%	4302.2
Forward Very High Zone (80 to 90 Degrees)	0.1%	5.1

Back Light	*% Total Fixture Lumens*	*Lumens*
Back Light Lumens	50.3%	2578.0
Back Light Low Zone (0 To 30 Degrees)	13.9%	711.9
Back Light Mid Zone (30 To 60 Degrees)	28.1%	1439.3
Back Light High Zone (60 To 80 Degrees)	8.2%	420.0
Back Light Very High Zone (80 To 90 Degrees)	0.1%	5.1

IES BUG ratings (backlight, uplight, glare) Per IES TM-15-11

WFSLED0613U Wallpack		
IES BUG Rating: B1 U0 G0	**Lumens**	**% of Luminaire**
Back Light		
BH (60-80 Degrees)	88.8	8.8
BM (30-60 Degrees)	265.4	26.2
BL (0-30 Degrees)	140.9	13.9
UpLight		
UH (100-180 Degrees)	0.0	0.0
UL (90-100 Degrees)	0.0	0.0
Glare Light		
FVH (80-90 Degrees)	3.5	0.3
BVH (80-90 Degrees)	2.6	0.3
FH (60-80 Degrees)	97.1	9.6
BH (60-80 Degrees)	88.8	8.8

IES BUG ratings (backlight, uplight, glare) Per IES TM-15-11

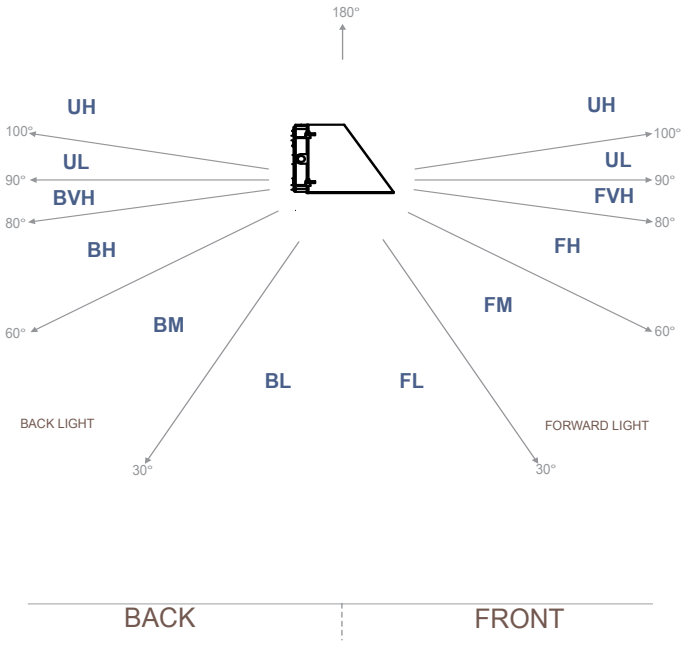
WFMLED0602U Wallpack		
IES BUG Rating: B1 U0 G0	**Lumens**	**% of Luminaire**
Back Light		
BH (60-80 Degrees)	151.5	8.5
BM (30-60 Degrees)	497.1	28.0
BL (0-30 Degrees)	236.1	13.3
UpLight		
UH (100-180 Degrees)	0.0	0.0
UL (90-100 Degrees)	0.0	0.0
Glare Light		
FVH (80-90 Degrees)	2.0	0.1
BVH (80-90 Degrees)	2.0	0.1
FH (60-80 Degrees)	151.5	8.5
BH (60-80 Degrees)	151.5	8.5

IES BUG ratings (backlight, uplight, glare) Per IES TM-15-11

WFMLED0604U Wallpack		
IES BUG Rating: B1 U0 G0	**Lumens**	**% of Luminaire**
Back Light		
BH (60-80 Degrees)	266.6	8.1
BM (30-60 Degrees)	926.0	28.0
BL (0-30 Degrees)	455.4	13.8
UpLight		
UH (100-180 Degrees)	0.0	0.0
UL (90-100 Degrees)	0.0	U 3
Glare Light		
FVH (80-90 Degrees)	3.3	0.1
BVH (80-90 Degrees)	3.3	0.1
FH (60-80 Degrees)	266.6	8.1
BH (60-80 Degrees)	266.6	8.1

IES BUG ratings (backlight, uplight, glare) Per IES TM-15-11

WFMLED0607U Wallpack		
IES BUG Rating: B2 U0 G0	**Lumens**	**% of Luminaire**
Back Light		
BH (60-80 Degrees)	422.2	8.2
BM (30-60 Degrees)	1437.6	28.1
BL (0-30 Degrees)	711.8	13.9
UpLight		
UH (100-180 Degrees)	0.0	0.0
UL (90-100 Degrees)	0.0	0.0
Glare Light		
FVH (80-90 Degrees)	6.3	0.1
BVH (80-90 Degrees)	6.0	0.1
FH (60-80 Degrees)	430.4	8.4
BH (60-80 Degrees)	422.2	8.2



Flux distribution based on IESNA Luminaire Classification System
Illustration depicts zone classification. See tables for fixture performance.