



FINIA™ LED WALL MOUNTED HAZARDOUS LOCATION CLASSIFIED AREAS

LW1 AND LW2 SERIES
DOWN OR UP OPTICS

LED 40W, 50W, AND 80W

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

PRODUCT DESCRIPTION

The Finia LED LW series is an architectural wall mounted LED luminaire ideally suited for commercial applications where a low profile, high performance luminaire is needed. The design of this luminaire takes full advantage of the LED light source with exclusive features specifically designed to extract heat from the diodes, thus improving light source performance. With an IP65 full fixture rating the LW series can be aimed up for decorative and façade lighting applications.

PRODUCT SPECIFICATIONS

Optics Custom designed, high performance molded TIR (Total Internal Reflection) optics shape the LED light with a wide throw, a forward throw, or a wall wash distribution

- The wall wash distribution is fitted with a prismatic, glass lens that softens the light on the wall and is especially suited for façade lighting either aimed down or up
- The wide and forward throw distributions are performance oriented to extract the maximum light out of the LEDs and deliver it exactly where needed
- A stainless steel polished to mirror finish reflector projects any stranded lumens out of the fixture, maximizing fixture performance
- A tempered glass lens completely seals the optical system
- Optional high transmission glass lens with 96% transmittance can be specified where maximum energy savings and fixture spacing are needed.

Construction Heavy wall die cast aluminum body, back box, and frame deliver a sturdy, durable fixture

- A tempered glass lens completely seals and protects the LED compartment
- All exposed hardware is stainless steel and recessed for concealment
- Stainless steel reflector
- Acrylic TIR lenses provide highest transmittance of any TIR optics material available in the market today
- A powder coat finish with a thorough 6 stage application process seals the aluminum components from the environment.

Thermal management LED boards are directly mounted against a polished surface for maximum contact between boards and heat sink

- Deep fins are directly behind the LED boards increasing the surface area for maximum heat dissipation
- An exclusive air vent between the LED compartment and the electronic driver isolates and cools the two components.

Cat. No.: _____



Aimed Down



Aimed Up

Electrical The luminaire is equipped with two, three, or four LED modules depending on the light output/wattage selection

- LED boards are fitted with a protective circuit so that in the rare event of an LED failure the board continues to operate all remaining LEDs at full power
- All versions are available for 120-277VAC or 347V
- Drivers are IP66 rated and RoHS compliant
- Total Harmonic Distortion (THD) is less than 20%
- Power factor > 90% at full load

Mounting Direct mounting to wall with threaded and plugged back conduit entry

- Dimpled location prepared for drilling a conduit entry from the sides (for surface conduit mounting)
- Can be aimed down or up maintaining IP65 rating
- A neoprene gasket is provided for the back entry to seal against the wall.

Finish Polyester powder coat finish with a six stage application process

- Bronze, black, white or silver are standard
- Designer finishes available upon request (provide RAL number).

0-10V Dimming Option An optional 0-10V dimming driver ("D" option) is available.

Hazardous Locations When ordered with suffix "C1", the Finia luminaires are approved for use in hazardous locations classified as Class 1, Div 2, Groups A, B, C and D

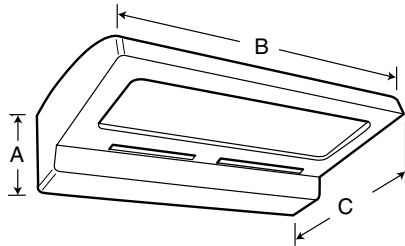
- Temperature Class T4
- Ambient range -20°C to 40°C (-4°F to 104°F)
- These are areas where flammable gases or vapors may be present in the air during abnormal conditions.

PRODUCT SPECIFICATIONS (CONTINUED)

Certification Fixture meets UL1598 and CSA C22.2-250 standards • Suitable for wet location applications
 • Full fixture IP65 rating • Full cut-off • Union made
 • Assembled in the USA • Meets "Buy American Act"
 • 5 year limited warranty when used in accordance with manufacturer guidelines.

Specifications subject to change without notice.

DIMENSIONS



	A	B	C	Weight
Standard Unit	4 3/4"	15 1/2"	9 3/4"	17 lbs.

LED LUMEN DEPRECIATION

Ambient Temperature (°C)	Fixture	L ₇₀ Hours
25°C	LW1 Series	60,000
25°C	LW2 Series	60,000
40°C	LW1 Series	60,000
40°C	LW2 Series	60,000

L₇₀ is the LED manufacturer predicted time when the LED performance depreciates below 70% of the initial lumen output and it is based on the stated ambient temperature.

PHOTOMETRY

	LW1-50L-5K-UN-FT Total Lumens: 3,622		LW1-50L-5K-UN-WT Total Lumens: 3,605		LW1-50L-5K-UN-WW Total Lumens: 3,321		LW1-50L-5K-UN-FT-PG Total Lumens: 3,027		LW1-50L-5K-UN-WT-PG Total Lumens: 2,924	
Zone	Luminaire Lumens	% of Luminaire Lumens	Luminaire Lumens	% of Luminaire Lumen	Luminaire Lumens	% of Luminaire Lumens	Luminaire Lumens	% of Luminaire Lumens	Luminaire Lumens	% of Luminaire Lumens
Forward Light	2,924	82.1%	2,915	80.9%	1,778	53.5%	2,204	72.8%	2,047	70.0%
FL (0°-30°)	527	14.6%	376	10.4%	538	16.2%	511	16.9%	403	13.8%
FM (30°-60°)	1,656	45.7%	1,670	46.3%	908	27.3%	1,170	38.7%	1,101	37.7%
FH (60°-80°)	771	21.3%	852	23.6%	310	9.3%	496	16.4%	512	17.5%
FVH (80°-90°)	20	0.6%	17	0.5%	22	0.7%	27	0.9%	31	1.1%
Back Light	647	17.9%	691	19.2%	1,541	46.4%	823	27.2%	877	30.0%
BL (0°-30°)	252	7.0%	176	4.9%	519	15.6%	293	9.7%	240	8.2%
BM (30°-80°)	340	9.4%	420	11.7%	812	24.5%	400	13.2%	465	15.9%
BH (60°-80°)	55	1.5%	94	2.6%	205	6.2%	125	4.1%	165	5.6%
BVH (80°-90°)	0	0.0%	1	0.0%	5	0.2%	5	0.2%	7	0.2%
Up Light	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0
UL (90°-100°)	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0
UH (100°-180°)	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0
Trapped Light	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

BUG Rating

B1 U1 G1

B1 U1 G1

B2 U1 G1

B1 U1 G1

B1 U1 G1

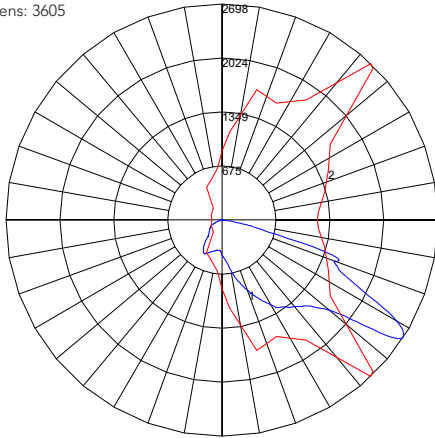
For 4100K CCT apply a 0.605 multiplier to above values

All tests were performed by independent lab according to IES LM-79-08

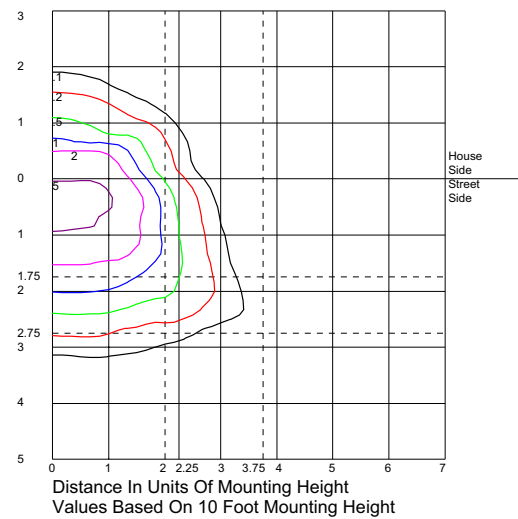
BUG ratings and values reflect the fixture installed aimed down.

LW1-50L-5K-UN-WT-C1

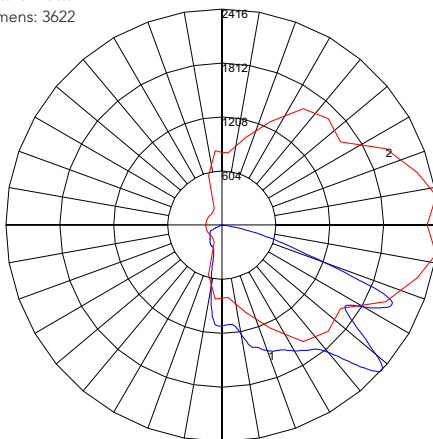
Total Fixture Watts: 49
Total Lumens: 3605



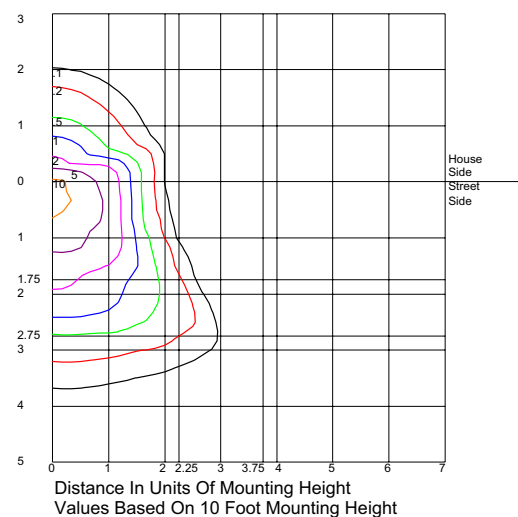
Maximum Candela = 2698 Located At Horizontal Angle = 46.4, Vertical Angle = 57
 # 1 - Vertical Plane Through Horizontal Angles (46.4 - 226.4) (Through Max. Cd.)
 # 2 - Horizontal Cone Through Vertical Angle (57) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE**LW1-50L-5K-UN-FT-C1**

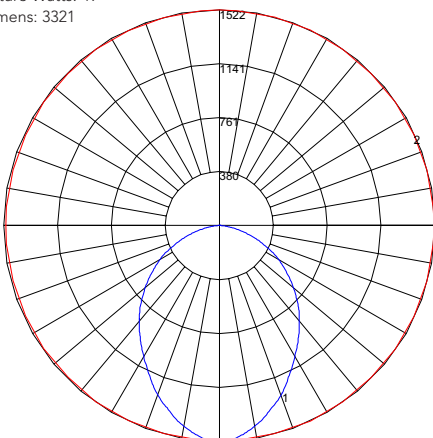
Total Fixture Watts: 49
Total Lumens: 3622



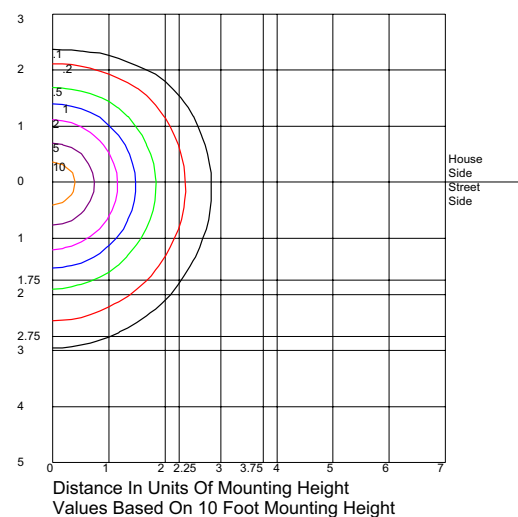
Maximum Candela = 2415.6 Located At Horizontal Angle = 8, Vertical Angle = 48
 # 1 - Vertical Plane Through Horizontal Angles (8 - 188) (Through Max. Cd.)
 # 2 - Horizontal Cone Through Vertical Angle (48) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE**LW1-50L-5K-UN-WW-C1**

Total Fixture Watts: 49
Total Lumens: 3321

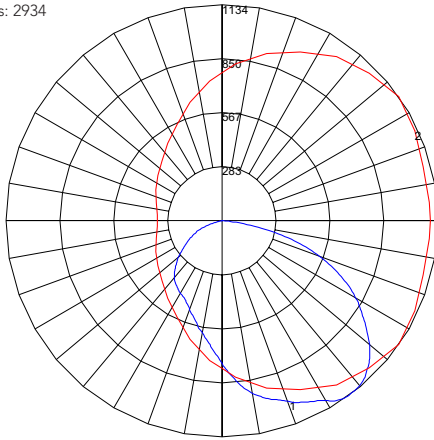


Maximum Candela = 1521.9 Located At Horizontal Angle = 90, Vertical Angle = .5
 # 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
 # 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)

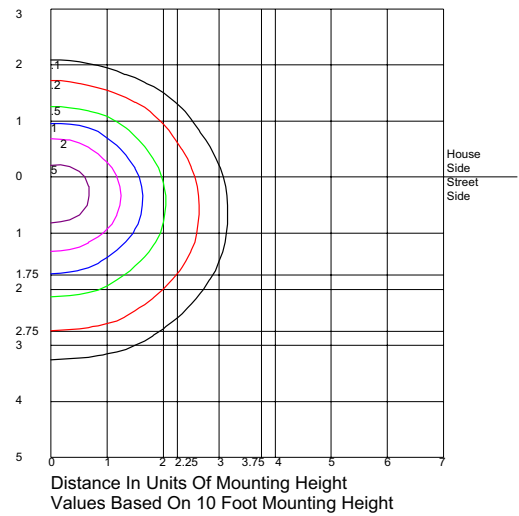
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE

LW1-50L-5K-UN-WT-PG-C1

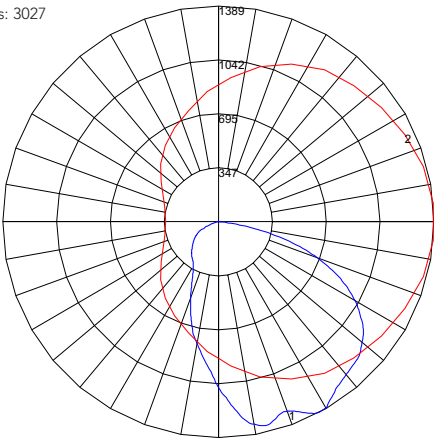
Total Fixture Watts: 49
Total Lumens: 2934



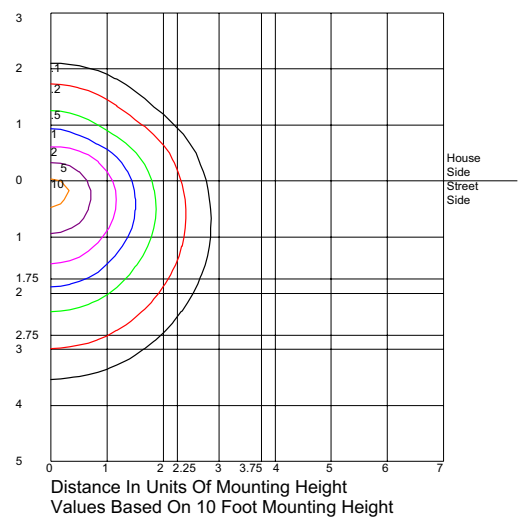
Maximum Candela = 1133.8 Located At Horizontal Angle = 35, Vertical Angle = 36
 # 1 - Vertical Plane Through Horizontal Angles (35 - 215) (Through Max. Cd.)
 # 2 - Horizontal Cone Through Vertical Angle (36) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE**LW1-50L-5K-UN-FT-PG-C1**

Total Fixture Watts: 48
Total Lumens: 3027



Maximum Candela = 1389.1 Located At Horizontal Angle = 5.4, Vertical Angle = 28
 # 1 - Vertical Plane Through Horizontal Angles (5.4 - 185.4) (Through Max. Cd.)
 # 2 - Horizontal Cone Through Vertical Angle (28) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE

LED PERFORMANCE

	Distribution	CCT	CRI	Delivered Lumens	Input Voltage	Watts	System Efficacy
LW1 Series, 40W							
LW1-40L-4K-UN-FT	Forward	4000K	75	1694	120	40	42
LW1-40L-4K-UN-FT-PG	Forward w/ Prisms	4000K	75	1416	120	40	35
LW1-40L-4K-UN-WT	Wide	4000K	75	1686	120	40	42
LW1-40L-4K-UN-WT-PG	Wide w/ Prisms	4000K	75	1367	120	40	34
LW1-40L-4K-UN-WW	Wall Wash	4000K	75	1553	120	40	39
LW1-40L-5K-UN-FT	Forward	5000K	70	2800	120	40	70
LW1-40L-5K-UN-FT-PG	Forward w/ Prisms	5000K	70	2340	120	40	58
LW1-40L-5K-UN-WT	Wide	5000K	70	2787	120	40	70
LW1-40L-5K-UN-WT-PG	Wide w/ Prisms	5000K	70	2260	120	40	57
LW1-40L-5K-UN-WW	Wall Wash	5000K	70	2567	120	40	64
LW1 Series, 50W							
LW1-50L-4K-UN-FT	Forward	4000K	75	2191	120	49	45
LW1-50L-4K-UN-FT-PG	Forward w/ Prisms	4000K	75	1831	120	49	37
LW1-50L-4K-UN-WT	Wide	4000K	75	2181	120	49	45
LW1-50L-4K-UN-WT-PG	Wide w/ Prisms	4000K	75	1769	120	49	36
LW1-50L-4K-UN-WW	Wall Wash	4000K	75	2009	120	49	41
LW1-50L-5K-UN-FT	Forward	5000K	70	3622	120	49	75
LW1-50L-5K-UN-FT-PG	Forward w/ Prisms	5000K	70	3027	120	49	62
LW1-50L-5K-UN-WT	Wide	5000K	70	3605	120	49	74
LW1-50L-5K-UN-WT-PG	Wide w/ Prisms	5000K	70	2924	120	49	60
LW1-50L-5K-UN-WW	Wall Wash	5000K	70	3321	120	49	68
LW2 Series, 40W							
LW2-40L-4K-UN-FT	Forward	4000K	75	1531	120	42	36
LW2-40L-4K-UN-FT-PG	Forward w/ Prisms	4000K	75	1280	120	42	30
LW2-40L-4K-UN-WT	Wide	4000K	75	1524	120	42	36
LW2-40L-4K-UN-WT-PG	Wide w/ Prisms	4000K	75	1236	120	42	29
LW2-40L-4K-UN-WW	Wall Wash	4000K	75	1404	120	42	33
LW2-40L-5K-UN-FT	Forward	5000K	70	2531	120	42	60
LW2-40L-5K-UN-FT-PG	Forward w/ Prisms	5000K	70	2116	120	42	50
LW2-40L-5K-UN-WT	Wide	5000K	70	2520	120	42	60
LW2-40L-5K-UN-WT-PG	Wide w/ Prisms	5000K	70	2044	120	42	49
LW2-40L-5K-UN-WW	Wall Wash	5000K	70	2321	120	42	55
LW2 Series, 50W							
LW2-50L-4K-UN-FT	Forward	4000K	75	1994	120	50	40
LW2-50L-4K-UN-FT-PG	Forward w/ Prisms	4000K	75	1667	120	50	33
LW2-50L-4K-UN-WT	Wide	4000K	75	1985	120	50	40
LW2-50L-4K-UN-WT-PG	Wide w/ Prisms	4000K	75	1610	120	50	32
LW2-50L-4K-UN-WW	Wall Wash	4000K	75	1829	120	50	37
LW2-50L-5K-UN-FT	Forward	5000K	70	3296	120	50	66
LW2-50L-5K-UN-FT-PG	Forward w/ Prisms	5000K	70	2755	120	50	55
LW2-50L-5K-UN-WT	Wide	5000K	70	3281	120	50	66
LW2-50L-5K-UN-WT-PG	Wide w/ Prisms	5000K	70	2661	120	50	53
LW2-50L-5K-UN-WW	Wall Wash	5000K	70	3022	120	50	60
LW2 Series, 80W							
LW2-80L-4K-UN-FT	Forward	4000K	75	2980	120	77	39
LW2-80L-4K-UN-FT-PG	Forward w/ Prisms	4000K	75	2490	120	77	32
LW2-80L-4K-UN-WT	Wide	4000K	75	2966	120	77	39
LW2-80L-4K-UN-WT-PG	Wide w/ Prisms	4000K	75	2405	120	77	31
LW2-80L-4K-UN-WW	Wall Wash	4000K	75	2732	120	77	35
LW2-80L-5K-UN-FT	Forward	5000K	70	4925	120	77	64
LW2-80L-5K-UN-FT-PG	Forward w/ Prisms	5000K	70	4116	120	77	53
LW2-80L-5K-UN-WT	Wide	5000K	70	4902	120	77	64
LW2-80L-5K-UN-WT-PG	Wide w/ Prisms	5000K	70	3976	120	77	52
LW2-80L-5K-UN-WW	Wall Wash	5000K	70	4516	120	77	59

ORDERING INFORMATION

Series	Engine Code	CCT	Voltage	Distribution	Options	Area Classification	Finish
LW1	40L	5K	UN	WT	HT	C1	WH
LW2 LED Wall Mounted	40L 40W LED Engine	5K 5100K	UN Universal 120-277V	WT Wide Throw	HT High transmission glass lens	C1 Class 1, Div 2, Groups A, B, C, D	no suffix Bronze finish
LW1* High Performance LED Wall Mounted	50L 50W LED Engine	4K 4100K	E3 347V	FT Forward Throw	PG Prismatic glass lens (WT & FT optics only)		BL Black finish
	80L 80W LED Engine			WW Wall Wash	TP Tamper resistant hardware		WH White finish
					D Dimming 0-10V		SL Silver finish
							custom finish Contact factory with RAL number

* Available with engine codes
40L and 50L only