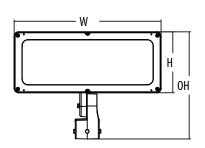


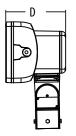
HLF1High Lumen LED Flood Luminaire



Specifications

3.6 ft² EPA: (0.34 m²) 10" Depth: (25.4 cm) 25' Width: (63.5 cm) 10" Height: (25.4 cm) Overall 19" Height: (48.3 cm) 61 lbs Weight: (27.6 kg)





Catalog Number

Notes

Туре

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The Lithonia High Lumen LED Flood Size 1 (HLF1) is capable of replacing 400W metal halide luminaires while delivering exceptional energy savings. Its long service life of over 100,000 hours or 20+ years of nighttime use makes it ideal for high mounting applications, eliminating expensive lamp changes. The instant-on feature eliminates the long strike and re-strike times associated with HID floods. Available in both yoke and slipfitter mounts, the HLF1 is easy to install on existing poles and brackets.

Ordering Information

EXAMPLE: HLF1 LED P1 40K WFL MVOLT IS DDBXD

HLF1 LED								
Series	Performance package	Color temperatu	e Distribution	Voltage	Mounting	Options	Finish (required)	
HLF1 LED	P1 P2 P3	30K 3000 K 40K 4000 K 50K 5000 K	VNSP Very Narrow Spot 1 NSP Narrow Spot 5 Sp Spot NFL Narrow Flood MWL Medium Wide Flood MFL Wide Flood WFL Wide Flood WFR Wide Flood, Rectangular	120 ²	Shipped included IS Integral slipfitter (fits 2-3/8"0.D. tenon) YKC62 Yoke with 16-3 SO cord	Shipped installed PER5 NEMA twist-lock receptacle only (no controls) ^{3,4} SF Single fuse (120, 277, 347V) ⁵ DF Double fuse (208, 240, 480V) ⁵ CFB Black faceplate Shipped separately ⁶ UBV Upper/bottom visor (universal) FV Full visor WG Wire guard VG Vandal guard (polycarbonate)	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White	

Accessories FTS CG6 DDBXD U Slipfitter for 2-3/8" to 2-7/8" OD tenons; mates with yoke mount (specify finish) HLF1UBV DDBXD U Upper/bottom visor accessory (specify finish) DSHORT SBK U HLF1 FV DDBXD U Shorting cap Full visor accessory (specify finish) DLL127F 1.5 JU Photocell - SSL twist-lock (120-277V) 7 HLF1VG DDBXD U Vandal guard accessory (specify finish) DLL347F 1.5 CUL JU Photocell - SSL twist-lock (347V) 7 HLF1WG U Wire guard accessory DLL480F 1.5 CUL JU Photocell - SSL twist-lock (480V)

For more mounting options, visit our Floodlighting Accessories pages.

For more control options, visit DTL and ROAM online.

NOTES

- 1. VNSP includes an external reflector that ships separately. For installation instructions, refer to the instruction sheet provided with the reflector.
- MVOLT driver operates on any line voltage from 120-277V. Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options).
- Specifies a ROAM® enabled luminaire with 0-10V dimming capability. Additional hardware and services required for ROAM® deployment; must be purchased separately. Call 1-800-442-6745 or email: sales@roamservices.net.
- 4. For units with a photocontrol receptacle, the mounting must be restricted to $\pm\,45^\circ$ from horizontal aim per ANSI C136.10-2010.
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- 6. Also available as separate accessories; see Accessories information at left.
- Requires luminaire to be specified with PER5 option. Ordered and shipped as a separate line item.



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance	System		Aligie					30K		40K			50K		
Package	Watts						(3000 K, 70 CRI)		(4000 K, 70 CRI)			(5000 K, 70 CRI)			
rackage		Туре			°H				LPW	Max Cd	Lumens	LPW	Max Cd		LPW
		VNSP	30	30	11	10	217,885	15,596	94	225,623	16,150	97	228,686	16,370	99
		NSP	50	49	26	25	63,943	18,059	109	66,214	18,700	113	67,113	18,954	114
		SP	52	51	31	30	59,950	18,756	113	62,079	19,421	117	62,922	19,686	119
D1	166W	NFL	76	75	49	48	27,704	18,805	113	28,688	19,472	117	29,078	19,737	119
P1	166W	MWL	92	91	68	67	16,003	18,745	113	16,571	19,410	117	16,796	19,674	119
		WFR	108	56	93	28	17,644	16,998	102	18,271	17,601	106	18,519	17,840	107
		MFL	109	114	84	103	9,070	18,706	113	9,410	19,370	117	7,296	19,633	118
		WFL	124	133	107	113	6,936	18,544	112	7,196	19,203	116	8,533	19,464	117
		VNSP	30	30	11	10	302,828	21,677	88	313,583	22,446	91	317,840	22,751	92
		NSP	50	49	26	25	88,871	25,099	102	92,027	25,990	106	93,277	26,344	107
		SP	52	51	31	30	83,322	26,068	106	86,281	26,993	110	87,452	27,360	111
P2	246W	NFL	76	75	49	48	38,505	26,136	106	39,873	27,064	110	40,414	27,432	112
P2		MWL	92	91	68	67	22,241	26,053	106	23,031	26,978	110	23,344	27,344	111
		WFR	108	56	93	28	24,523	23,624	96	25,394	24,463	99	25,739	24,795	101
		MFL	101	114	84	103	12,834	26,416	107	13,278	27,354	111	10,294	27,725	113
		WFL	124	133	107	113	9,815	26,187	106	10,154	27,117	110	12,040	27,486	112
		VNSP	28	28	10	9	400,242	25,129	85	425,929	26,741	91	427,942	26,868	91
		NSP	45	45	23	23	121,824	28,765	98	129,642	30,611	104	130,255	30,756	104
		SP	49	48	29	29	106,286	29,737	101	113,107	31,644	107	113,642	31,795	108
Do	295W	NFL	72	71	46	45	48,277	29,491	100	51,375	31,383	106	51,618	31,532	107
P3	295W	MWL	87	85	64	63	28,665	29,357	100	30,504	31,240	106	30,648	31,388	106
		WFR	108	56	93	28	27,805	26,786	91	29,589	28,504	97	29,729	28,640	97
		MFL	101	114	84	103	12,468	30,670	104	13,278	32,638	111	10,194	32,792	111
		WFL	127	130	112	112	9,535	30,366	103	12,422	32,315	110	11,923	32,467	110

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Amb	pient	Lumen Multiplier				
0°C	32°F	1.05				
10°C	50°F	1.03				
20°C	68°F	1.01				
25°C	77°F	1				
30°C	86°F	0.98				
40°C	104°F	0.95				

Projected LED Lumen Maintenance

Operating Hours	0	25,000	50,000	100,000					
	HLF1 LED P1								
	1	0.98	0.96	0.93					
	HLF1 LED P2								
	1	0.98	0.96	0.93					
	HLF1 LED P3								
	1	0.93	0.9	0.83					

Electrical Load

			Current (A)									
Power Package	System Watts	120V	208V	240V	277V	347V	480V					
P1	166W	1.4	0.8	0.7	0.7	0.5	0.4					
P2	246W	2.1	1.2	1.0	0.9	0.7	0.6					
P3	295W	2.5	1.4	1.2	1.1	0.9	0.7					

Mounting, Options and Accessories



IS - Integral slipfitter (fits 2-3/8" O.D. tenon)



YKC62 Yoke with 16-3 SO cord



UBV Upper/Bottom visor (universal)



Full visor



VG Vandal guard



WG Vire anard



CFB Black faceplate

Optics

Depending on the distribution chosen, luminaires are built using internal and external reflectors or hybrid silicone optical technology.



Internal reflectors MFL, WFL



Hybrid silicone optics NSP, SP, NFL, MWL, WFR



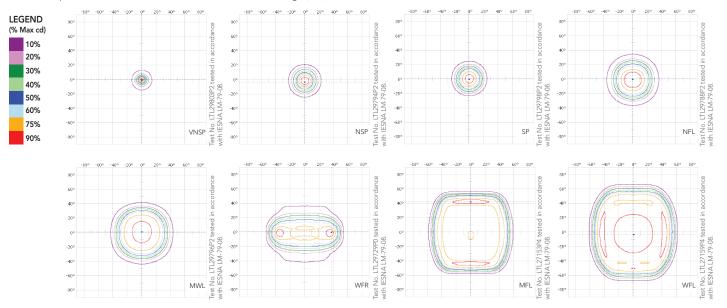
Internal and external reflectors VNSP



Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's HLF Size 1 homepage.

Isofootcandle plots for the HLF1 LED P3 40K. Distances are in units of mount height (20ft).



Mounting Bracket Summary

The following is a list of approved mounting brackets for use with the HLF1. These are rated for use in up to 90mph wind zones. Mounting brackets are ordered separate from the luminaires.

*Aluminum Bullhorns	Catalog Number	Weight (lbs.)	Max Luminaire Weight/Arm (lbs.)	Bracket EPA ft² (m²)	Bracket Configuration	Weight of Luminaires (lbs.)	Luminaire Tilt	Luminaire EPA ft² (m²)	Total EPA ft² (m²)
							0°	2.4 (0.22)	6.1 (0.57)
15"							15°	2.5 (0.23)	6.3 (0.59)
13	*00420	0.4	100	1 2 (0 12)	2 0 1000	2(1 122	30°	2.8 (0.26)	6.9 (0.64)
12"	*RBA28	8.4	100	1.3 (0.12)	2 @ 180°	$2 \times 61 = 122$	45°	3.5 (0.33)	8.3 (0.77)
							60°	3.6 (0.34)	8.5 (0.79)
RBA28							90°	3.6 (0.34)	8.5 (0.79)
11					3 @ 120°	3 x 61 = 183	0°	2.4 (0.22)	8.9 (0.83)
41-1/2"							15°	2.5 (0.23)	9.2 (0.85)
24"	*00422	14.3	100	1.7 (0.15)			30°	2.8 (0.26)	10.1 (0.94)
12"	*RBA32						45°	3.5 (0.33)	12.2 (1.13)
RBA32							60°	3.6 (0.34)	12.5 (1.16)
TIDAGE							90°	3.6 (0.34)	12.5 (1.16)
			100	2.0 (0.18)	2 0 1000	3 x 61 = 183	0°	2.4 (0.22)	9.2 (0.85)
30*							15°	2.5 (0.23)	9.5 (0.88)
30"	*00420	12.5					30°	2.8 (0.26)	10.4 (0.97)
12"	*RBA38	12.5			3 @ 180°		45°	3.5 (0.33)	12.5 (1.16)
RBA38							60°	3.6 (0.34)	12.8 (1.19)
_							90°	3.6 (0.34)	12.8 (1.19)
							0°	2.4 (0.22)	11.8 (1.10)
34" 24"							15°	2.5 (0.23)	12.2 (1.13)
	*DDA40	17.5	100	2.2 (0.20)	4 @ 100°	4 v 61 — 244	30°	2.8 (0.26)	13.4 (1.24)
12"	*RBA49	17.5	100	2.2 (0.20)	4 @ 180°	$4 \times 61 = 244$	45°	3.5 (0.33)	16.2 (1.51)
RBA49							60°	3.6 (0.34)	16.6 (1.54)
							90°	3.6 (0.34)	16.6 (1.54)

^{*} This can only be used with 4.0" OD tenon/pole tops



Mounting Bracket Summary

The following is a list of approved mounting brackets for use with the HLF1. These are rated for use in up to 90mph wind zones. Mounting brackets are ordered separate from the luminaires.

Steel Bullhorns	Catalog Number	Weight (lbs.)	Max Luminaire Weight/Arm (lbs.)	Bracket EPA ft² (m²)	Bracket Configuration	Weight of Luminaires (lbs.)	Luminaire Tilt	Luminaire EPA ft² (m²)	Total EPA ft² (m²)
Removable							0°	2.4 (0.22)	5.8 (0.54)
36" Cap							15°	2.5 (0.23)	6.0 (0.56)
	BS28	21	150	1.0 (0.09)	2 @ 180°	2 x 61 = 122	30°	2.8 (0.26)	6.6 (0.61)
12"	D320	21	130	1.0 (0.09)		2 X 0 1 = 122	45°	3.5 (0.33)	8.0 (0.74)
(3) 3/8" x 1/2"							60°	3.6 (0.34)	8.2 (0.76)
set screws @120° 2-3/8" O.D.Tubing							90°	3.6 (0.34)	8.2 (0.76)
41" 24"							0°	2.4 (0.22)	8.5 (0.79)
							15°	2.5 (0.23)	8.8 (0.82)
	BS32	34	150	1.3 (0.12)	2 @ 1200	3 x 61 = 183	30°	2.8 (0.26)	9.7 (0.90)
12"	0332	34	130	1.3 (0.12)	3 @ 120°	3 X 01 — 103	45°	3.5 (0.33)	11.8 (1.10)
							60°	3.6 (0.34)	12.1 (1.12)
120°							90°	3.6 (0.34)	12.1 (1.12)
							0°	2.4 (0.22)	8.8 (0.82)
30"							15°	2.5 (0.23)	9.1 (0.85)
	BS38	32	150	1.6 (0.14)	3 @ 180°	3 x 61 = 183	30°	2.8 (0.26)	10.0 (0.93)
12"	5550	32	130	1.0 (0.11)	3 @ 100	3,01 103	45°	3.5 (0.33)	12.1 (1.12)
(3) 3/8" x 1/2" set screws @120°							60°	3.6 (0.34)	12.4 (1.15)
2-3/8" O.D.Tubing							90°	3.6 (0.34)	12.4 (1.15)
							0°	2.4 (0.22)	11.9 (1.11)
30" +15" + 15"							15°	2.5 (0.23)	12.3 (1.14)
30"	BS48	44	125	2.3 (0.21)	4 @ 180°	4 x 61 = 244	30°	2.8 (0.26)	13.5 (1.25)
	0340	44	123	2.3 (0.21)	4@100	4 X 01 — 244	45°	3.5 (0.33)	16.3 (1.51)
12"							60°	3.6 (0.34)	16.7 (1.55)
							90°	3.6 (0.34)	16.7 (1.55)
34"							0°	2.4 (0.22)	11.2 (1.04)
24"							15°	2.5 (0.23)	11.6 (1.08)
	BS49	44	150	1.6 (0.14)	1@00°	1 v 61 — 2//	30°	2.8 (0.26)	12.8 (1.19)
12"	ט347	44	150	1.0 (0.14)	4 @ 90°	4 x 61 = 244	45°	3.5 (0.33)	15.6 (1.45)
							60°	3.6 (0.34)	16.0 (1.49)
900							90°	3.6 (0.34)	16.0 (1.49)



Mounting Bracket Summary

The following is a list of approved mounting brackets for use with the HLF1. These are rated for use in up to 90mph wind zones. Mounting brackets are ordered separate from the luminaires.

*Steel Cross Arms (Square Poles only)	Catalog Number	Weight (lbs.)	Max Luminaire Weight/Arm (lbs.)	Bracket EPA ft² (m²)	Bracket Configuration	Weight of Luminaires (lbs.)	Luminaire Tilt	Luminaire EPA ft² (m²)	Total EPA ft² (m²)
							0°	2.4 (0.22)	5.9 (0.55)
30"							15°	2.5 (0.23)	6.1 (0.57)
Tenon 4" x 2-3/8" Dia.	CDC 20*	20	250	1 1 (0 10)	2 0 1000	2(1 122	30°	2.8 (0.26)	6.7 (0.62)
(4) 3/8"-16 Set Screws	SBS28*	30	250	1.1 (0.10)	2 @ 180°	2 x 61 = 122	45°	3.5 (0.33)	8.1 (0.75)
Removable Front Cap							60°	3.6 (0.34)	8.3 (0.77)
SBS28							90°	3.6 (0.34)	8.3 (0.77)
30"			150				0°	2.4 (0.22)	8.9 (0.83)
		42		1.7 (0.15)			15°	2.5 (0.23)	9.2 (0.85)
Tenon 4" x 2-3/8" Dia.	SBS38*				3 @ 180°	3 x 61 = 183	30°	2.8 (0.26)	10.1 (0.94)
Removable . (4) 3/8*-16 Set Screws	30330	42			3 @ 100	3,01 - 103	45°	3.5 (0.33)	12.2 (1.13)
Front Cap							60°	3.6 (0.34)	12.5 (1.16)
SBS38							90°	3.6 (0.34)	12.5 (1.16)
							0°	2.4 (0.22)	11.7 (1.09)
J. 42"							15°	2.5 (0.23)	12.1 (1.12)
Tenon 4" x 2-3/8" Dia.	SBS49*	45	150	2.1 (0.20)	4 @ 90°	4 v 61 — 244	30°	2.8 (0.26)	13.3 (1.24)
Removable Front Cap	3D3 4 7	40	130	2.1 (0.20)	4 @ 90	4 x 61 = 244	45°	3.5 (0.33)	16.1 (1.50)
Set Screws							60°	3.6 (0.34)	16.5 (1.53)
350%							90°	3.6 (0.34)	16.5 (1.53)

^{*}Requires T20 (2-3/8" max OD) tenon on pole for mounting

Aluminum Cross Arms (Square Poles only)	Catalog Number	Weight (lbs.)	Max Luminaire Weight/Arm (lbs.)	Bracket EPA ft² (m²)	Bracket Configuration	Weight of Luminaires (lbs.)	Luminaire Tilt	Luminaire EPA ft² (m²)	Total EPA ft² (m²)
×							0°	2.4 (0.22)	5.7 (0.53)
6" 18"							15°	2.5 (0.23)	5.9 (0.55)
18"	CD 4.20. 4	42	100	0.0 (0.00)			30°	2.8 (0.26)	6.5 (0.60)
2-3/8*0.D.	SBA28-4	12	100	0.9 (0.08)	2 @ 180°	$2 \times 61 = 122$	45°	3.5 (0.33)	7.9 (0.73)
3"\$q.							60°	3.6 (0.34)	8.1 (0.75)
SBA28							90°	3.6 (0.34)	8.1 (0.75)
					3 @ 180°	3 x 61 = 183	0°	2.4 (0.22)	8.7 (0.81)
6" 30"							15°	2.5 (0.23)	9.0 (0.84)
30" 2-3/8"0.D.	SBA38-4	17	100	1.5 (0.13)			30°	2.8 (0.26)	9.9 (0.92)
							45°	3.5 (0.33)	12.0 (1.11)
3"Sq. SBA38							60°	3.6 (0.34)	12.3 (1.14)
							90°	3.6 (0.34)	12.3 (1.14)
_	50.40	22	75	22 (234)	4 0 1000	4(1244	0°	2.4 (0.22)	11.9 (1.11)
30"							15°	2.5 (0.23)	12.3 (1.14)
15"							30°	2.8 (0.26)	13.5 (1.25)
2-3/8"O.D.	SBA48-4			2.3 (0.21)	4 @ 180°	$4 \times 61 = 244$	45°	3.5 (0.33)	16.3 (1.51)
3"Sq.							60°	3.6 (0.34)	16.7 (1.55)
SBA48							90°	3.6 (0.34)	16.7 (1.55)
34" ——							0°	2.4 (0.22)	11.3 (1.05)
24"							15°	2.5 (0.23)	11.7 (1.09)
2-3/8"0.D.	SBA49-4	22	100	17(015)	4 0 000	461 344	30°	2.8 (0.26)	12.9 (1.20)
2-3/8 U.U.) DBA49-4	22	100	1.7 (0.15)	4 @ 90°	$4 \times 61 = 244$	45°	3.5 (0.33)	15.7 (1.46)
3"Sq.							60°	3.6 (0.34)	16.1 (1.50)
SBA49							90°	3.6 (0.34)	16.1 (1.50)



Mounting Bracket Summary

The following is a list of approved mounting brackets for use with the HLF1. These are rated for use in up to 90mph wind zones. Mounting brackets are ordered separate from the luminaires.

Wall Mount Brackets	Catalog Number	Weight (lbs.)	Max Luminaire Weight/Arm (lbs.)	Bracket EPA ft² (m²)	Bracket Configuration	Weight of Luminaires (lbs.)	Luminaire Tilt	Luminaire EPA ft² (m²)	Total EPA ft² (m²)
		12	80	N/A	1	1 x 61 = 61	0°	2.4 (0.22)	- N/A
9/16" Dia.							15°	2.5 (0.23)	
	FRWB						30°	2.8 (0.26)	
							45°	3.5 (0.33)	
							60°	3.6 (0.34)	
							90°	3.6 (0.34)	

FEATURES & SPECIFICATIONS

INTENDED USE

The contemporary design of the High Lumen LED Flood reflects its embedded high performance LED technology and its versatility. It is ideal for large signage, retail, sports fields, truck yards, and many commercial applications.

CONSTRUCTION

The High Lumen LED Flood's die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environment contaminants (IP66). Low EPA 3.6 ft² (0.34 m²) for optimized wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

OPTICS

Specular reflectors are engineered for superior field-to-beam ratios, uniformity, and spacing. Light engines are available in 3000 K (70 CRI min.), 4000 K (70 CRI min.) and 5000 K (70 CRI min.) configurations. Optional visors minimize uplight and reduce light trespass.

ELECTRICAL

Light engines consist of chip-on-board (COB) LEDs directly coupled to the housing to maximize heat dissipation and promote long life (100,000 hrs at 25°C, L83). Class 1 electronic driver has a power factor >90%, THD <20%, and has an expected life of 100,000 hours with <1% failure rate. 10kV surge protection meets a minimum Category C low operation per ANSI/IEEE C62.41.2.

INSTALLATION

Integral adjustable slipfitter or yoke mounting assemblies facilitate quick and easy installation with a variety of mounting accessories. This secure connection enables the High Lumen LED Flood to withstand up to a 1.5 G vibration load rating per ANSI/IEEE C136.31.

LISTINGS

CSA certified to U.S. and Canadian standards. IP 66 rated for outdoor applications. Rated for - 40° C minimum ambient conditions.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

Five year limited warranty. Full warranty terms located at

 $www.acuity brands.com/Customer Resources/Terms_and_conditions.aspx.$

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 °C. Specifications subject to change without notice.

