



# HLF2

## High Lumen LED Flood Luminaire



Catalog  
Number

Notes

Type

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

### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

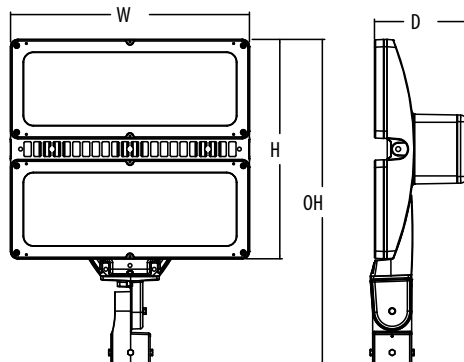
- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a **shaded background**. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability<sup>1</sup>
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a **shaded background**<sup>1</sup>

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

## Specifications

<b>EPA:</b>	5.4 ft <sup>2</sup> (0.50 m <sup>2</sup> )
<b>Depth:</b>	10" (25.4 cm)
<b>Width:</b>	25" (62.5 cm)
<b>Height:</b>	22" (55.8 cm)
<b>Overall Height:</b>	31" (78.4 cm)
<b>Weight:</b>	70 lbs (31.75 kg)



A+ Capable options indicated by this color background.

## Ordering Information

**EXAMPLE:** HLF2 LED P1 40K WFL MVOLT IS DDBXD

HLF2 LED							
Series	Performance package	Color temperature	Distribution	Voltage	Mounting	Options	Finish (required)
HLF2 LED	P1 P2 P3	30K 3000 K 40K 4000 K 50K 5000 K	VNSP Very narrow spot (7°) <sup>1</sup> NSP Narrow spot (15°) SP Spot (22°) NFL Narrow flood (45°) MNFL Medium narrow flood (70°) MFL Medium flood (6x6) WFL Wide flood (6x7)	MVOLT <sup>2</sup> 120 <sup>3</sup> 208 <sup>3</sup> 240 <sup>3</sup> 277 <sup>3</sup> 347 <sup>3</sup> 480 <sup>3</sup>	Shipped included IS Integral slipfitter (fits 2-7/8" O.D. tenon) YKC62 Yoke with 16-3 SO cord	Shipped installed PER NEMA twist-lock receptacle only (controls ordered separate) <sup>4,5</sup> PER5 Five-wire receptacle only (controls ordered separate) <sup>4,5</sup> PER7 Seven-wire receptacle only (controls ordered separate) <sup>4,5</sup> SF Single fuse (120, 277, 347V) <sup>3</sup> DF Double fuse (208, 240, 480V) <sup>3</sup> CFB Black faceplate DMG 0-10 dimming driver (controls ordered separate) Shipped separately <sup>6</sup> 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

## Ordering Information

### Accessories

Ordered and shipped separately.

FTS CG6 DDBXD U	Slipfitter for 2-3/8" to 2-7/8" OD tenons; mates with yoke mount (specify finish)
DSHORT SBK U	Shorting cap <sup>7</sup>
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) <sup>7</sup>
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) <sup>7</sup>
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) <sup>7</sup>

For more mounting options, visit our [Floodlighting Accessories](#) pages.

For more control options, visit [DTL](#) and [ROAM](#) online.

### NOTES

- VNSP includes an external reflector that ships separately. For installation instructions, refer to the instruction sheet provided with the reflector. VNSP is limited to aiming from 0-90° only. VNSP is not available for use with options CFB, UVB, FV, WG or VG.
- MVOLT driver operates on any line voltage from 120-277V.
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- 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](mailto:sales@roamservices.net).
- For units with a photocontrol receptacle, the mounting must be restricted to ± 45° from horizontal aim per ANSI C136.10-2010.
- Must be ordered with luminaire. Requires in-field assembly.
- Requires luminaire to be specified with PER, PER5 or PER7 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 Package	System Watts	Dist. Type	Field Angle		Beam Angle		30K (3000 K, 70 CRI)			40K (4000 K, 70 CRI)			50K (5000 K, 70 CRI)		
			°H	°V	°H	°V	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW
P1	328W	VNSP	30	30	11	10	434,853	31,127	95	450,297	32,233	98	456,410	32,670	100
		NSP	50	49	26	25	127,616	36,042	110	132,149	37,322	114	133,943	37,829	115
		SP	52	50	31	30	119,648	37,432	114	123,897	38,762	118	125,579	39,288	120
		NFL	76	75	49	48	55,292	37,531	114	57,256	38,864	118	58,033	39,391	120
		MNFL	92	91	68	67	31,938	37,411	114	33,521	39,266	120	33,521	39,266	120
		MFL	101	114	84	103	18,401	37,904	116	19,055	39,250	120	14,772	39,783	121
		WFL	124	133	107	113	14,073	37,576	115	14,226	38,911	119	17,277	39,439	120
P2	487W	VNSP	30	30	11	10	596,587	42,704	88	617,776	44,221	91	626,163	44,822	92
		NSP	50	49	26	25	175,081	49,447	102	181,299	51,203	105	183,760	51,899	107
		SP	52	51	31	30	164,148	51,355	105	169,978	53,179	109	172,286	53,901	111
		NFL	76	75	49	48	75,857	51,489	106	78,551	53,318	109	79,617	54,042	111
		MNFL	92	91	68	67	43,817	51,326	105	45,373	53,149	109	45,989	53,870	111
		MFL	101	114	84	103	25,250	52,000	107	26,139	53,847	111	20,269	54,578	112
		WFL	124	133	107	113	19,310	51,550	106	19,990	53,381	110	23,707	54,106	111
P3	598W	VNSP	28	28	10	9	787,413	49,438	83	837,947	52,610	88	841,908	52,859	88
		NSP	45	45	23	23	239,669	56,590	95	255,050	60,222	101	256,256	60,507	101
		SP	49	48	29	29	209,101	58,502	98	222,520	62,257	104	223,572	62,551	105
		NFL	72	71	46	45	94,977	58,019	97	101,072	61,742	103	101,550	62,034	104
		MNFL	87	85	64	63	56,393	57,755	97	60,012	61,461	103	60,296	61,752	103
		MFL	100	113	82	102	24,570	60,373	101	31,332	64,248	107	20,090	64,552	108
		WFL	123	132	107	114	18,790	59,775	100	23,566	63,611	106	23,496	63,912	107

### Lumen Ambient Temperature (LAT) Multipliers

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

Ambient	Lumen Multiplier
0°C	1.05
10°C	1.04
20°C	1.01
25°C	1
30°C	0.98
40°C	0.94

### Projected LED Lumen Maintenance

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	HLF2 LED P1			
	1	0.98	0.96	0.93
	HLF2 LED P2			
	1	0.98	0.96	0.93
	HLF2 LED P3			
	1	0.93	0.89	0.83

### Electrical Load

Power Package	System Watts	Current (A)					
		120V	208V	240V	277V	347V	480V
P1	328W	2.8	1.6	1.4	1.2	1.0	0.8
P2	487W	4.1	2.3	2.0	1.8	1.4	1.1
P3	598W	5.0	2.8	2.4	2.1	1.7	1.3

PER Table						
Control	PER (3 wire)	PER5 (5 wire)		PER7 (7 wire)		
			Wire 4/Wire5		Wire 4/Wire5	Wire 6/Wire7
Photocontrol Only (On/Off)	✓	▲	Wired to dimming leads on driver	▲	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM	✗	✓	Wired to dimming leads on driver	▲	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM with Motion (ROAM on/off only)	✗	▲	Wires Capped inside fixture	▲	Wires Capped inside fixture	Wires Capped inside fixture
Future-proof*	✗	▲	Wired to dimming leads on driver	✓	Wired to dimming leads on driver	Wires Capped inside fixture
Future-proof* with Motion	✗	▲	Wires Capped inside fixture	✓	Wires Capped inside fixture	Wires Capped inside fixture

✓ Recommended
✗ Will not work
▲ Alternate

\*Future-proof means: Ability to change controls in the future.



## Mounting, Options and Accessories



**IS - Integral slipfitter**  
(fits 2-7/8" O.D. tenon)



**YKC62**  
Yoke with 16-3 SO cord



**UBV**  
Upper/Bottom visor (universal)



**FV**  
Full visor



**VG**  
Vandal guard



**WG**  
Wire guard



**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, MNFL

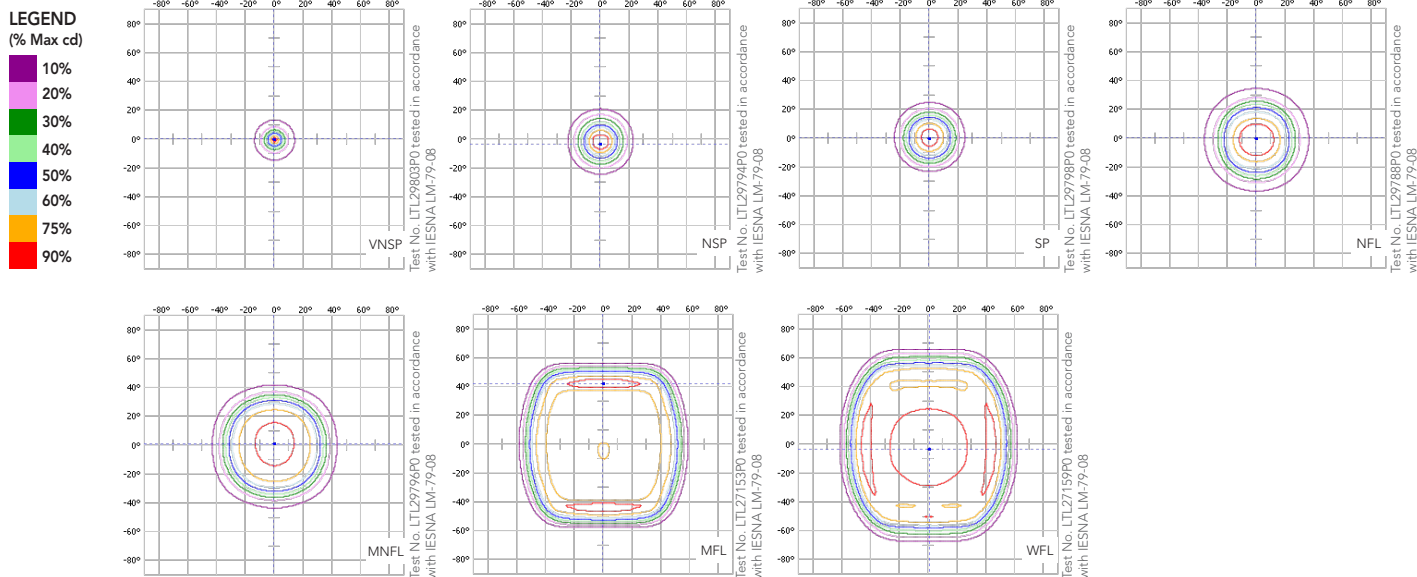


**Internal and external reflectors**  
VNSP

## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [HLF Size 2 homepage](#).

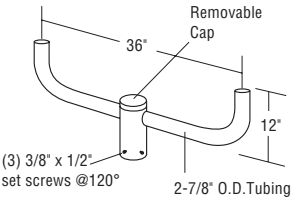
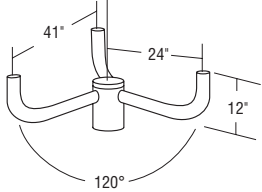
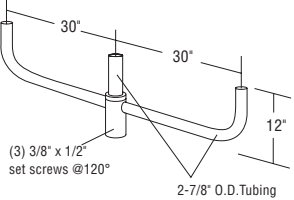
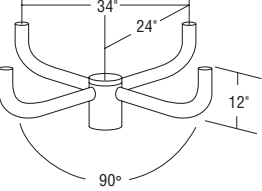
Isofootcandle plots for the HLF2 LED P3 40K. Distances are in units of mount height (20ft).



## Mounting Bracket Summary

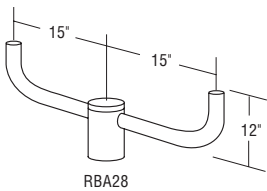
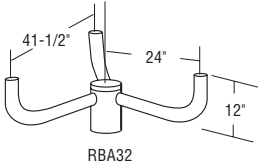
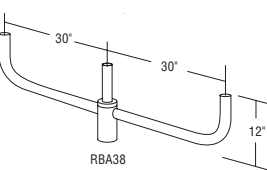
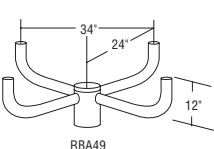
The following is a list of approved mounting brackets for use with the HLF2. These are rated for use in up to 90mph wind zones. Mounting brackets are ordered separate from the luminaires.

### Steel Bullhorns

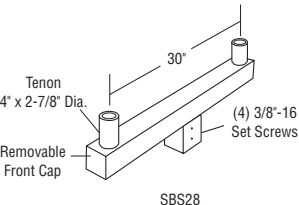
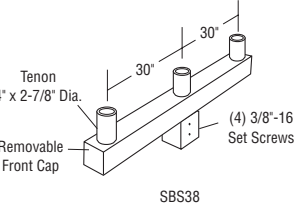
	Catalog Number	Weight (lbs.)	Max Luminaire Weight/Arm (lbs.)	Bracket EPA ft <sup>2</sup> (m <sup>2</sup> )	Bracket Configuration	Weight of Luminaires (lbs.)	Luminaire Tilt	Luminaire EPA ft <sup>2</sup> (m <sup>2</sup> )	Total EPA ft <sup>2</sup> (m <sup>2</sup> )
	B528	21	150	1.0 (0.09)	2 @ 180°	2 x 70 = 140	0°	2.3 (0.21)	5.6 (0.52)
							15°	2.5 (0.23)	6.0 (0.56)
							30°	2.9 (0.26)	6.8 (0.63)
							45°	4.2 (0.39)	9.4 (0.87)
							60°	4.6 (0.42)	10.2 (0.95)
							90°	5.4 (0.50)	11.8 (1.10)
	B532	32	150	1.6 (0.14)	3 @ 180°	3 x 70 = 210	0°	2.3 (0.21)	8.5 (0.79)
							15°	2.5 (0.23)	9.1 (0.85)
							30°	2.9 (0.26)	10.3 (0.96)
							45°	4.2 (0.39)	14.2 (1.32)
							60°	4.6 (0.42)	15.4 (1.43)
							90°	5.4 (0.50)	17.8 (1.65)
	B538	34	150	1.3 (0.12)	3 @ 120°	3 x 70 = 210	0°	2.3 (0.21)	8.2 (0.76)
							15°	2.5 (0.23)	8.8 (0.82)
							30°	2.9 (0.26)	10.0 (0.93)
							45°	4.2 (0.39)	13.9 (1.29)
							60°	4.6 (0.42)	15.1 (1.40)
							90°	5.4 (0.50)	17.5 (1.63)
	B549	44	150	1.6 (0.14)	4 @ 90°	4 x 70 = 280	0°	2.3 (0.21)	10.8 (1.00)
							15°	2.5 (0.23)	11.6 (1.08)
							30°	2.9 (0.26)	13.2 (1.23)
							45°	4.2 (0.39)	18.4 (1.71)
							60°	4.6 (0.42)	20.0 (1.86)
							90°	5.4 (0.50)	23.2 (2.16)

## Mounting Bracket Summary

The following is a list of approved mounting brackets for use with the HLF2. 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 ft <sup>2</sup> (m <sup>2</sup> )	Bracket Configuration	Weight of Luminaires (lbs.)	Luminaire Tilt	Luminaire EPA ft <sup>2</sup> (m <sup>2</sup> )	Total EPA ft <sup>2</sup> (m <sup>2</sup> )
	*RBA28	8.4	100	1.3 (0.12)	2 @ 180°	2 x 70 = 140	0°	2.3 (0.21)	5.9 (0.55)
							15°	2.5 (0.23)	6.3 (0.59)
							30°	2.9 (0.26)	7.1 (0.66)
							45°	4.2 (0.39)	9.7 (0.90)
							60°	4.6 (0.42)	10.5 (0.98)
							90°	5.4 (0.50)	12.1 (1.12)
	*RBA32	14.3	100	1.7 (0.15)	3 @ 120°	3 x 70 = 210	0°	2.3 (0.21)	8.6 (0.80)
							15°	2.5 (0.23)	9.2 (0.85)
							30°	2.9 (0.26)	10.4 (0.97)
							45°	4.2 (0.39)	14.3 (1.33)
							60°	4.6 (0.42)	15.5 (1.44)
							90°	5.4 (0.50)	17.9 (1.66)
	*RBA38B	12.5	100	2.0 (0.18)	3 @ 180°	3 x 70 = 210	0°	2.3 (0.21)	8.9 (0.83)
							15°	2.5 (0.23)	9.5 (0.88)
							30°	2.9 (0.26)	10.7 (0.99)
							45°	4.2 (0.39)	14.6 (1.36)
							60°	4.6 (0.42)	15.8 (1.47)
							90°	5.4 (0.50)	18.2 (1.69)
	*RBA49	17.5	100	2.2 (0.20)	4 @ 90°	4 x 70 = 280	0°	2.3 (0.21)	11.4 (1.06)
							15°	2.5 (0.23)	12.2 (1.13)
							30°	2.9 (0.26)	13.8 (1.28)
							45°	4.2 (0.39)	19.0 (1.77)
							60°	4.6 (0.42)	20.6 (1.91)
							90°	5.4 (0.50)	23.8 (2.21)

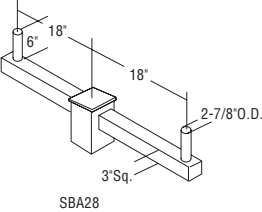
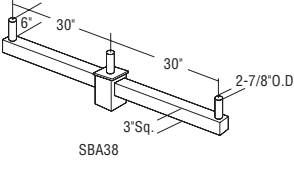
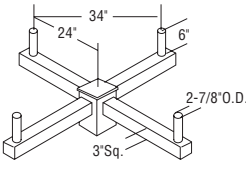
\* This can only be used with 4.0" OD tenon/pole tops

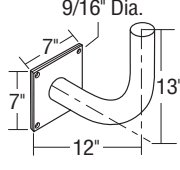
*Steel Cross Arms (Square Poles only)	Catalog Number	Weight (lbs.)	Max Luminaire Weight/Arm (lbs.)	Bracket EPA ft <sup>2</sup> (m <sup>2</sup> )	Bracket Configuration	Weight of Luminaires (lbs.)	Luminaire Tilt	Luminaire EPA ft <sup>2</sup> (m <sup>2</sup> )	Total EPA ft <sup>2</sup> (m <sup>2</sup> )
	SBS28*	30	250	1.1 (0.10)	2 @ 180°	2 x 70 = 140	0°	2.3 (0.21)	5.7 (0.53)
							15°	2.5 (0.23)	6.1 (0.57)
							30°	2.9 (0.26)	6.9 (0.64)
							45°	4.2 (0.39)	9.5 (0.88)
							60°	4.6 (0.42)	10.3 (0.96)
							90°	5.4 (0.50)	11.9 (1.11)
	SBS38*	42	150	1.7 (0.15)	3 @ 180°	3 x 70 = 210	0°	2.3 (0.21)	8.6 (0.80)
							15°	2.5 (0.23)	9.2 (0.85)
							30°	2.9 (0.26)	10.4 (0.97)
							45°	4.2 (0.39)	14.3 (1.33)
							60°	4.6 (0.42)	15.5 (1.44)
							90°	5.4 (0.50)	17.9 (1.66)

\*Requires T20 (2-7/8" max OD) tenon on pole for mounting

## Mounting Bracket Summary

The following is a list of approved mounting brackets for use with the HLF2. These are rated for use in up to 90mph wind zones. Mounting brackets are ordered separate from the luminaires.

Aluminum Cross Arms (Square Poles only)	Catalog Number	Weight (lbs.)	Max Luminaire Weight/Arm (lbs.)	Bracket EPA ft <sup>2</sup> (m <sup>2</sup> )	Bracket Configuration	Weight of Luminaires (lbs.)	Luminaire Tilt	Luminaire EPA ft <sup>2</sup> (m <sup>2</sup> )	Total EPA ft <sup>2</sup> (m <sup>2</sup> )
	SBA28-4	12	100	0.9 (0.08)	2 @ 180°	2 x 70 = 140	0°	2.3 (0.21)	5.5 (0.51)
							15°	2.5 (0.23)	5.9 (0.55)
							30°	2.9 (0.26)	6.7 (0.62)
							45°	4.2 (0.39)	9.3 (0.86)
							60°	4.6 (0.42)	10.1 (0.94)
							90°	5.4 (0.50)	11.7 (1.09)
	SBA38-4	17	100	1.5 (0.13)	3 @ 180°	3 x 70 = 210	0°	2.3 (0.21)	8.4 (0.78)
							15°	2.5 (0.23)	9.0 (0.84)
							30°	2.9 (0.26)	10.2 (0.95)
							45°	4.2 (0.39)	14.1 (1.31)
							60°	4.6 (0.42)	15.3 (1.42)
							90°	5.4 (0.50)	17.7 (1.64)
	SBA49-4	22	100	1.7 (0.15)	4 @ 90°	4 x 70 = 280	0°	2.3 (0.21)	10.9 (1.01)
							15°	2.5 (0.23)	11.7 (1.09)
							30°	2.9 (0.26)	13.3 (1.24)
							45°	4.2 (0.39)	18.5 (1.72)
							60°	4.6 (0.42)	20.1 (1.87)
							90°	5.4 (0.50)	23.3 (2.16)

Wall Mount Brackets	Catalog Number	Weight (lbs.)	Max Luminaire Weight/Arm (lbs.)	Bracket EPA ft <sup>2</sup> (m <sup>2</sup> )	Bracket Configuration	Weight of Luminaires (lbs.)	Luminaire Tilt	Luminaire EPA ft <sup>2</sup> (m <sup>2</sup> )	Total EPA ft <sup>2</sup> (m <sup>2</sup> )
	FRWB	12	80	N/A	1	1 x 70 = 70	0°	2.3 (0.21)	N/A
							15°	2.5 (0.23)	
							30°	2.9 (0.26)	
							45°	4.2 (0.39)	
							60°	4.6 (0.42)	
							90°	5.4 (0.50)	

## 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 5.7 ft<sup>2</sup> (0.52 m<sup>2</sup>) 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](http://www.designlights.org) to confirm which versions are qualified.

### WARRANTY

5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/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.

