



Advantage Downlights (ADL)

Field-Selectable, New Construction and Renovation



OVERVIEW

Lumen Package (lm)	750 - 6,400
Wattage Range (W)	9 - 59
Color Temperature (K)	3000, 3500, 4000
Efficacy Range (LPW)	76 - 98
Weight lbs (kg)	2.6 (0.8) - 8.5 (3.9)
Controls	ALB

QUICK LINKS

FEATURES & SPECIFICATIONS

Construction

- Drawn Aluminum housing, spun Aluminum reflectors for thermal efficiency.
- Quick wiring.
- Twist & Lock modular design.
- 4", 6", 8", 10" reflectors
- Round, Square Wall Wash Reflectors.
- Operating temperature: -20°C to +35°C (-4°F to 95°F).
- Haze, White, Black finish.
- Optional new construction frame kit.

Optical System

- Selectable lumen output to suit a wide range of mounting heights.
- Selectable CCT for maximum flexibility - 3000-3500-4000K - 9 in 1.
- Minimum color rendering index (CRI) of 80 for visual acuity.
- Diffuse Acrylic cover lens for glare-free, uniform luminance and high visual comfort.
- Lambertian or wall wash distributions.

Electrical

- Class 2 driver features over-voltage, under-voltage, short-circuit and over-temperature protection.
- Selectable power to maximize energy savings.
- 0-10V dimming (10% - 100%) standard.
- Universal 120-347V 50/60Hz AC input for FS1, FS2 light engines. Universal 120-277V 50/60Hz AC input for FS3 light engine.
- L70 Calculated Life: >50k hours (See Lumen Maintenance table).
- Power factor: > 0.90.
- Total harmonic distortion: <20%.
- Optional remote battery backup for standby lighting (90min.).

Controls

- 0-10V dimming standard.
- Compatible with most 0-10V dimmers.
- Compatible with LSI AirLink® Blue for code compliance and energy efficiency.
- See <https://lsicorp.com/lighting/product/airlink-blue/> for more information.

Installation

- Effortless installation using high-tension retention clips.
- Integrated junction box for quick wiring eliminates need for traditional framing kit.
- Twist and lock mechanism to install or replace reflectors.
- Field selectable output and CCT before, during or after installation.
- Accommodates ceiling thickness up to 1 1/2".

Warranty

- LSI luminaires carry a 5-year limited warranty. Refer to <https://www.lsicorp.com/resources/terms-conditions-warranty/> for more information.

Listings

- Listed to UL 1598 and UL 8750.
- Title 24 Compliant; see local ordinance for qualification information.
- Suitable for damp locations.
- IC-rated for direct contact with insulation (FS1 only).



Advantage Downlights (ADL)

Type : _____

 Have questions? Call us at (800) 436-7800

ORDERING GUIDE

**ADL FS1 UNV 4R WRF
ADLRKIT**

TYPICAL ORDER EXAMPLE: ADL FS3 UNV 6R HAZ						
Prefix	Light Output & CCT/CRI	Voltage	Trim (Self-Flanged) ¹	Finish	Controls	Options
ADL - Advantage Downlight	FS1 - 750 - 1,200 - 1,800lm FS2 - 2,200 - 2,800 - 3,900lm 3000K-3500K-4000K, 80 CRI min.	UNV - 120-347VAC 0-10V dimming (10-100%)	4R - 4" round 4S - 4" square 4W - 4" wall wash round ¹ 4WS - 4" wall wash square ¹ 6R - 6" round 6S - 6" square 8R - 8" round 10R - 10" round ² See lumen proration tables.	HAZ - Haze trim, haze flange WHT - Haze Reflector, Matte White Flange BLK - Haze Reflector, Matte Black Flange Available with 4R, 4S, 6R, 8R Reflectors WRF - Matte White Reflector & Flange Available with 4R, 4S or 6R Reflectors BRF - Matte Black Reflector & Flange Available with 4R, 4S or 6R Reflectors	Blank - None Remote options available for controls ³	Blank - None Remote options available for Emergency Battery Backup ³
	FS3* - 4,500 - 5,500 - 6,400lm 3000K-3500K-4000K, 80 CRI min.	UNV - 120-277VAC 0-10V dimming (10-100%)				



Need more information?
[Click here for our glossary](#)

Have additional questions?
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*FS3 light engine only available with 6", 8", or 10" trims.

ACCESSORY ORDERING INFORMATION

Part Number	Order Number	Description
786277	EM8RMK ³	8W Battery Backup 120-277VAC with remote grid mount kit
778196	EM8RB ³	8W Remote Mount Battery
801387	EM25RB	25W Remote Mount Battery
786278	ADLRKIT	Frame Kit for Round Trims
795802	ADLSKIT	Frame Kit for Square Trims
814080	ADL FRAME J-BOX	New Construction Wiring Box with MC Cable

FS3



FS2



FS1



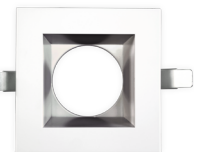
BRF



WRF



HAZ



CONTROLS

See available control options at <https://lsicorp.com/lighting/products/controls/control-systems/airlink-blue/>

1 - Check with factory, some trims may require longer lead times

2 - 10" round trim available in WHT finish only. Frame kit not compatible with 10" round trim.

3 - Remote EM and ALB Controls not compatible with 347VAC.

PERFORMANCE

Delivered Lumens*							
Lumen Package	Wattage	3000K CCT		3500K CCT		4000K CCT	
		Delivered Lumens ⁵	Efficacy	Delivered Lumens ⁵	Efficacy	Delivered Lumens ⁵	Efficacy
FS1-Low	9	790	85	894	96	859	88
FS1-Medium	13	1094	78	1237	92	1189	84
FS1- High	19	1427	76	1614	86	1551	83
FS2-Low	26	2230	86	2510	98	2368	92
FS2-Medium	31	2649	80	2982	95	2813	85
FS2- High	38	3485	92	3924	103	3700	85
FS3-Low	38	4373	113	4584	123	4519	116
FS3-Med	49	5337	108	5594	113	5515	112
FS3-High	59	6129	104	6425	109	6334	107

*LED Chips are frequently updated therefore values are nominal

Lumen Maintenance ¹ - FS1					
Ambient Temp	Initial ²	25K hr ²	50K hr ²	75K hr ³	100K hr ³
0 C	100%	94%	88%	83%	78%
10 C	100%	93%	87%	81%	75%
20 C	100%	93%	86%	79%	73%
25 C	100%	92%	85%	78%	72%
30 C	100%	92%	84%	77%	71%
35 C	100%	91%	83%	75%	69%

Lumen Maintenance ¹ - FS2					
Ambient Temp	Initial ²	25K hr ²	50K hr ²	75K hr ³	100K hr ³
0 C	100%	95%	91%	87%	83%
10 C	100%	95%	91%	57%	83%
20 C	99%	95%	90%	86%	82%
25 C	99%	95%	90%	86%	82%
30 C	99%	94%	90%	85%	81%
35 C	99%	94%	89%	85%	80%

Lumen Maintenance ¹ - FS3					
Ambient Temp	Initial ²	25K hr ²	50K hr ²	75K hr ³	100K hr ³
0 C	100%	95%	91%	87%	83%
10 C	100%	95%	91%	57%	83%
20 C	100%	95%	90%	86%	82%
25 C	100%	95%	90%	86%	82%
30 C	100%	94%	88%	85%	81%
35 C	100%	94%	87%	83%	80%

Electrical Data - AMPS*			
Lumen Package	Wattage	120V	277V
FS1- Low	9	0.08	0.03
FS1-Medium	13	0.11	0.05
FS1- High	19	0.16	0.07
FS2- Low	26	0.22	0.09
FS2- Medium	31	0.26	0.11
FS2- High	38	0.32	0.14
FS3-Low	38	0.32	0.14
FS3-Med	49	0.32	0.14
FS3-High	59	0.32	0.14

Lumen Proration - CCT	
3000K	0.9
3500K	1
4000K	0.95

Lumen Proration - Reflector & Flange	
HAZ	1.00
WHT	1.00
BLK	1.00
WRF	0.97
BRF	0.70

Lumen Proration - Reflector Size & Shape	
4R	1.00
4S	0.95
4W	0.95
4WS	0.95
6R	1.00
6S	1.00
8R	1.10
10R	1.10

*Electrical data at 25C (77F). Actual wattage may differ by +/-10%.

1 - Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
2 - In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.
3 - In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing.

PHOTOMETRICS

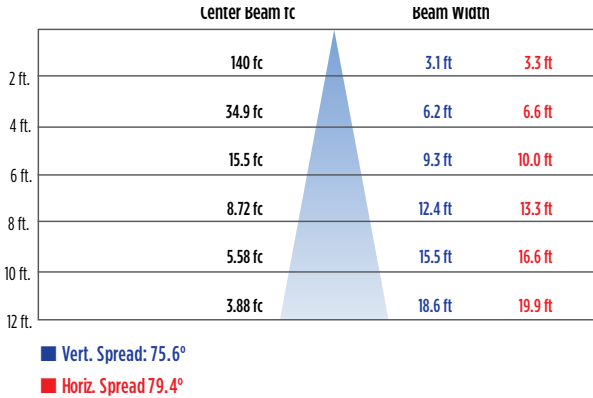
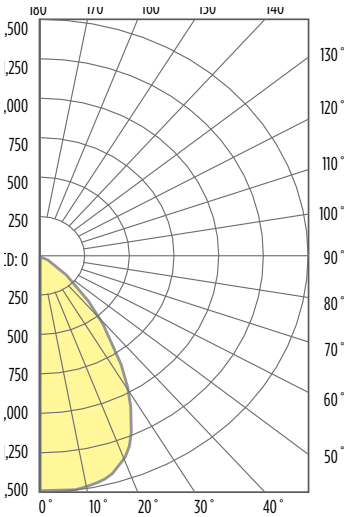
Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

See the individual product page on <https://www.lsicorp.com/> for detailed photometric data.

ADL FS1 4R HAZ

Lumens: 900
Watts: 9
Efficacy: 100

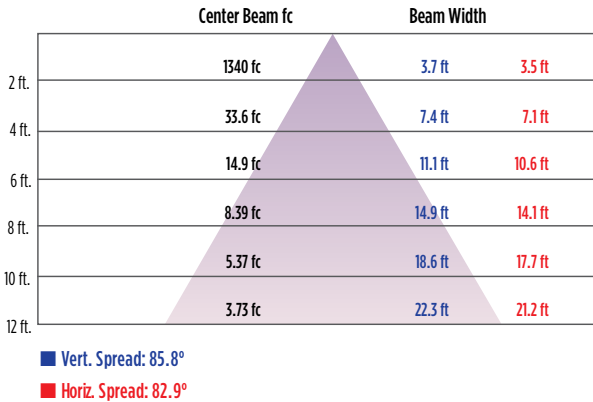
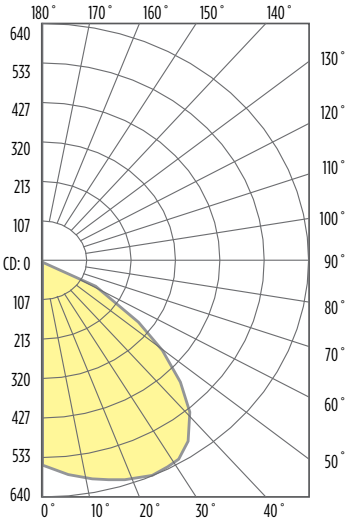
Zonal Lumen Summary			Candela Table	
Zone	Lumens	%Fixture	Degree Vertical	Candela
0-10	54	6.0%	0	558
10-20	157	17.4%	5	561
20-30	229	25.4%	10	561
30-40	223	24.8%	15	557
40-50	152	16.8%	20	538
50-60	70	7.8%	25	502
60-70	15	1.7%	30	441
70-80	1	0.1%	35	361
80-90	0	0.0%	40	272
90-100	0	0.0%	45	194
0-180	900	100%	50	129
			55	78
			60	38
			65	13
			70	3
			75	1
			80	0
			85	0
			90	0



ADL FS1 4WS HAZ

Lumens: 1,175
Watts: 13
Efficacy: 90

Zonal Lumen Summary			Candela Table	
Zone	Lumens	%Fixture	Degree Vertical	Candela
0-10	51	4.4%	0	537
10-20	149	12.7%	5	559
20-30	226	19.3%	10	579
30-40	259	22.0%	15	597
40-50	232	19.8%	20	612
50-60	157	13.4%	25	625
60-70	75	6.4%	30	632
70-80	22	1.9%	35	627
80-90	3	0.3%	40	600
90-100	0	0.0%	45	553
0-180	1,175	100%	50	480
			55	377
			60	271
			65	175
			70	100
			75	48
			80	18
			85	2
			90	0

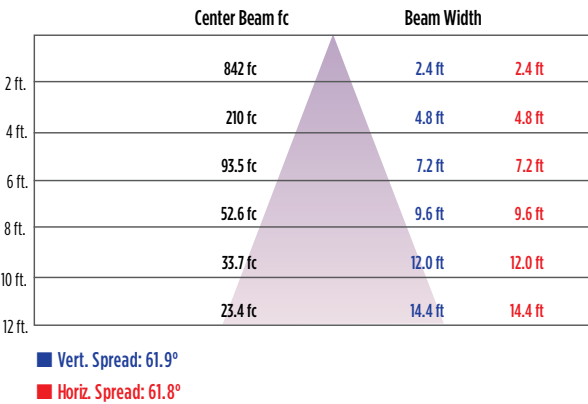
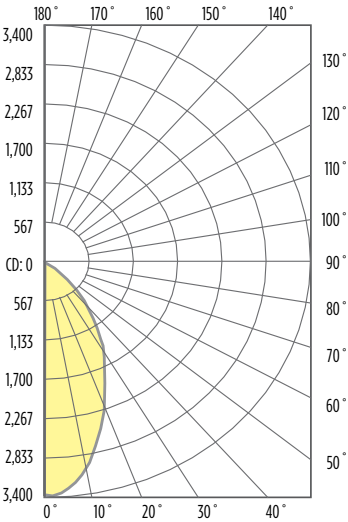


PHOTOMETRICS

ADL FS2 6R WHT

Lumens: 3,932
Watts: 31
Efficacy: 127

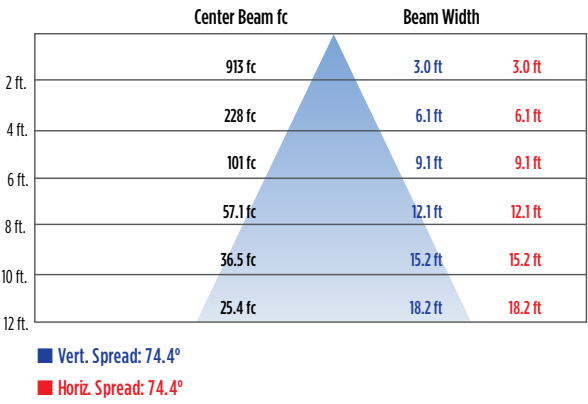
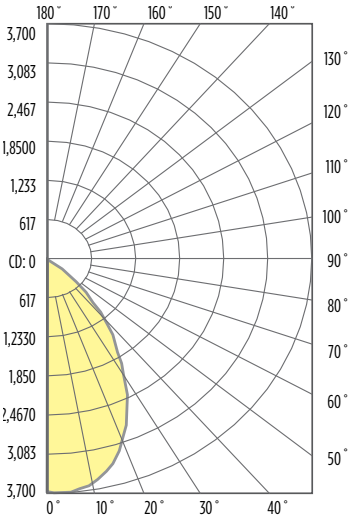
Zonal Lumen Summary			Candela Table	
Zone	Lumens	%Fixture	Degree Vertical	Candela
0-10	310	7.9%	0	3366
10-20	775	19.7%	5	3323
20-30	949	24.1%	10	3100
30-40	898	22.8%	15	2772
40-50	653	16.6%	20	2411
50-60	292	7.4%	25	2064
60-70	52	1.3%	30	1742
70-80	2	0.0%	35	1441
80-90	0	0.0%	40	1132
90-100	0	0.0%	45	843
0-180	3,932	100%	50	567
			55	327
			60	143
			65	40
			70	7
			75	1
			80	1
			85	0
			90	0



ADL FS2 8R WHT

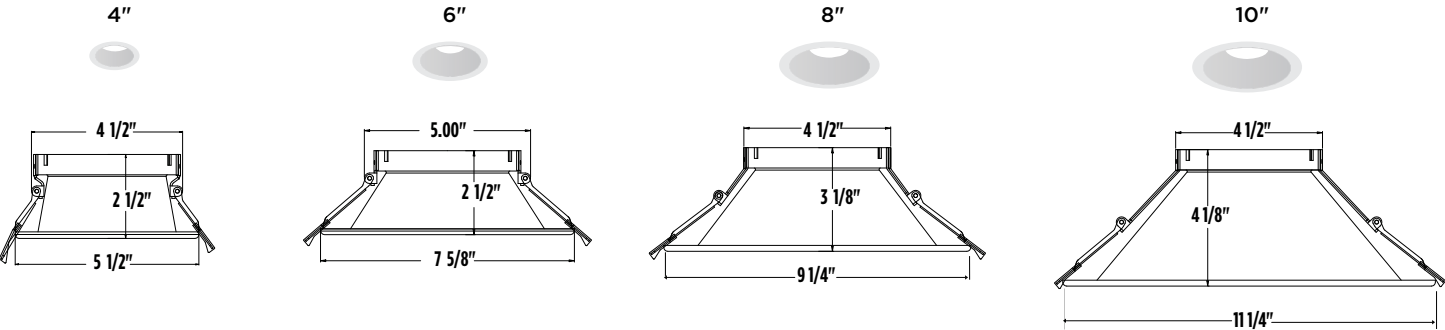
Lumens: 5,149
Watts: 38
Efficacy: 136

Zonal Lumen Summary			Candela Table	
Zone	Lumens	%Fixture	Degree Vertical	Candela
0-10	266	6.7%	0	3373
10-20	742	18.8%	5	3330
20-30	1,003	25.4%	10	3106
30-40	965	24.4%	15	2777
40-50	689	17.4%	20	2416
50-60	261	6.6%	25	2068
60-70	24	0.6%	30	1746
70-80	1	0.0%	35	1444
80-90	0	0.0%	40	1135
90-100	0	0.0%	45	845
0-180	3,950	100.0%	50	568
			55	328
			60	142
			65	40
			70	7
			75	2
			80	2
			85	0
			90	0

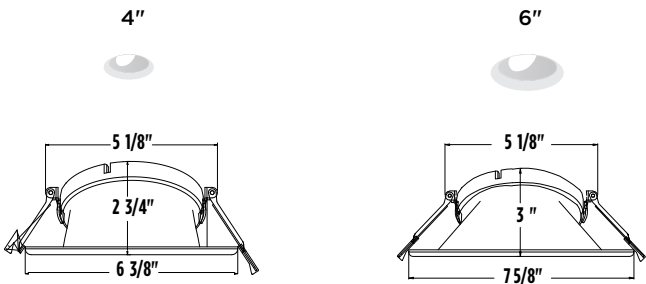


PRODUCT DIMENSIONS

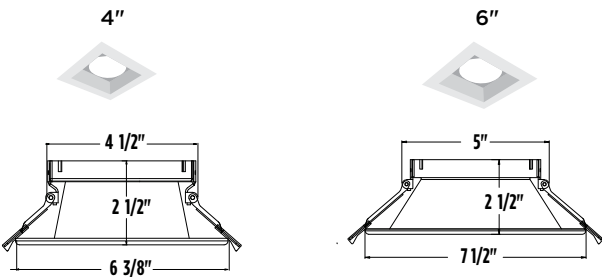
ROUND TRIMS



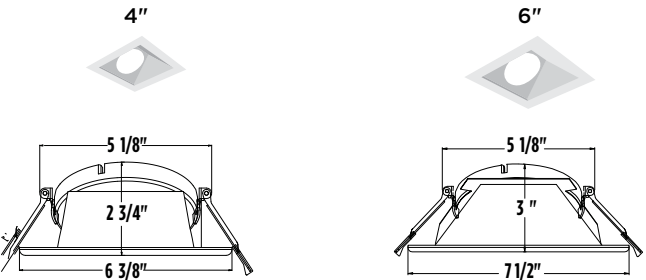
ROUND WALL WASH TRIM



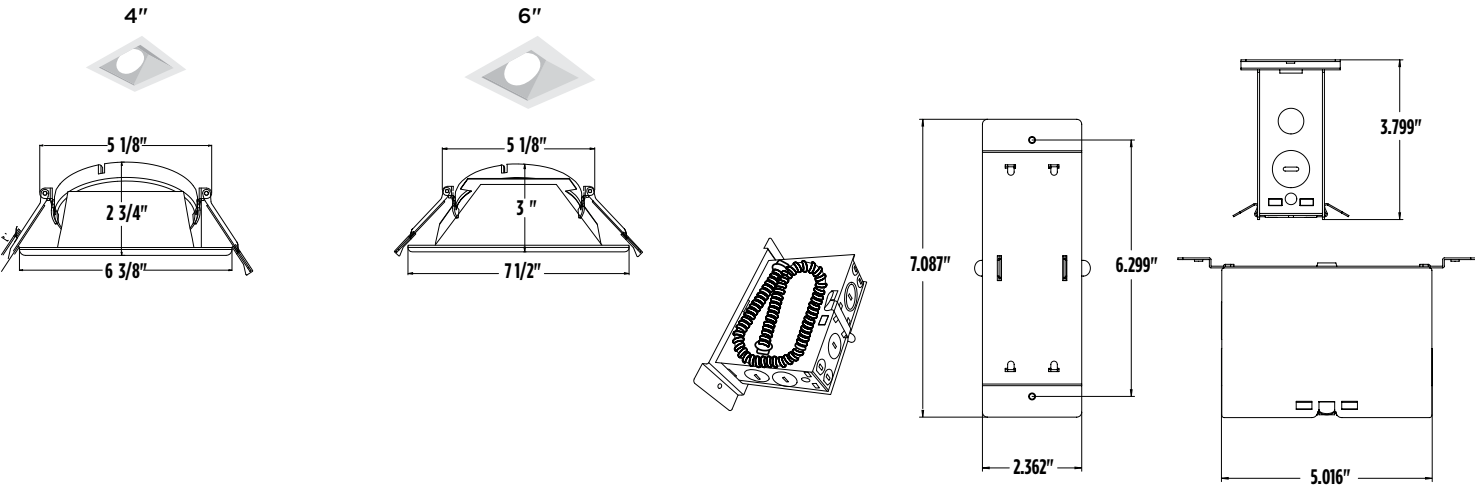
SQUARE TRIM



SQUARE WALL WASH TRIM

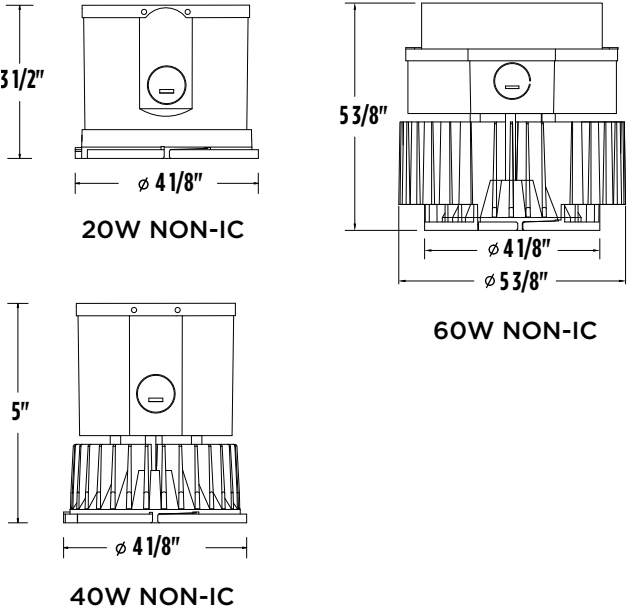


WIRING BOX



PRODUCT DIMENSIONS

ENGINE



OPTIONAL NEW CONSTRUCTION FRAME KITS

