



High Output Downlight (HDL)

Wet Location, High Mounting (New Construction or Retrofit)



OVERVIEW	
Lumen Package (lm)	7,000 - 11,000
Wattage Range (W)	60 - 84
Efficacy Range (LPW)	110 - 139
CCT (K)	3000, 3500, 4000, 5000
Reflector	Specular, Haze, White, Black

QUICK LINKS

FEATURES AND SPECIFICATIONS

Construction

- New Construction and Retrofit applications.
- Die cast Aluminum light engine housing for peak thermal performance and lifetime.
- 6", 8" (with trim ring) sizes.
- Flag screws for leveling.
- Wet-location rated below ceiling.

Optical System

- Metalized reflector with multiple finish options.
- The choice of 3000K, 3500K, 4000K, 5000K color temperatures.
- Minimum CRI of 80.
- 90 CRI optional. Available in select configurations. Contact Factory.

Electrical

- Powered by a Class 2 high efficiency driver, with a standard 0-10V Dim to OFF and 12V Aux output for controls. Works with most commercial dimmers and wireless controllers using 0-10V dimming.

- Power factor >0.9
- THD <20%
- Universal input voltage 120-277VAC.
- Damp/Wet rated in operating ambient temperatures of -4°F (-20°C) - 95°F (35°C).
- Optional high voltage remote emergency LED driver available for standby lighting in the event of power loss.

Controls

- 0-10V (10 - 100% continuous dimming) standard.
- Compatible with most 0-10V dimmers.
- Available with AirLink™ Blue. AirLink™ Blue (ALB) is a wireless networked lighting control system. AirLink™ Blue, with technology partner Silvar, incorporates Luminaire Level Lighting Controls (LLLC) and high-end trim.
- The optional AirLink™ Blue fixture controller (ALBC) is used to dim the fixture based on motion or daylight levels continually monitored by external ALB sensors.

Installation

- Provided with flag screws allowing for installation in a variety of commercial drywall or grid ceilings, new construction or retrofit applications.
- Designed for use in non-insulated ceilings where insulation must be kept a minimum of 3" from the fixture.
- 6" housing standard. 8" trim ring with matching finish optional.
- Accommodates ceiling thickness up to 1.5"
- Optional new construction frame kit and retrofit installation panel accessories available.

Warranty

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

Listings

- cULus listed for dry, damp, wet (below ceiling) locations.
- Title 24 Compliant; see local ordinance for qualification information.

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

ORDERING GUIDE

TYPICAL ORDER EXAMPLE: HDL6 80L UNV 840 SPC WHT							
Prefix	Lumen Package	Voltage	Color Temp & CRI	Reflector	Flange Finish ²	Controls	Options
HDL6 - High Output Downlight 6"	70L = 7,000lm 80L = 8,000lm 90L = 9,000lm 100L = 10,000lm CLXXX - Custom lumens 5,000 to 10,000lm in 500lm increments ex: CL95 = 9,500lm	UNV - 120-277VAC Universal input	830 - 80CRI, 3000K 835 - 80CRI, 3500K 840 - 80CRI, 4000K 850 - 80CRI, 5000K 930 - 90CRI, 3000K ^{1,2} 935 - 90CRI, 3500K ^{1,2} 940 - 90CRI, 4000K ¹	SPC - Specular WH - Matte White BL - Matte Black HAZ - Haze Semi-Diffuse	WHT - White BLK - Black	Blank - 0-10V standard, 10% DIM to OFF ALBC - Integral AirLink Blue Controller. Powered by Silvair. 3PC - 3rd Party Controls. Contact Factory.	Blank - None SP1 - Integral 10kV surge protector *See accessory ordering information for remote emergency battery



Quick Ship Available



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

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TRIM & FLANGE FINISHES

BLK - Black Trim



SPC - Specular



WH - Matte White



BL - Matte Black



HAZ - Haze Semi-Diffuse

WHT - White Trim



SPC - Specular



WH - Matte White



BL - Matte Black



HAZ - Haze Semi-Diffuse

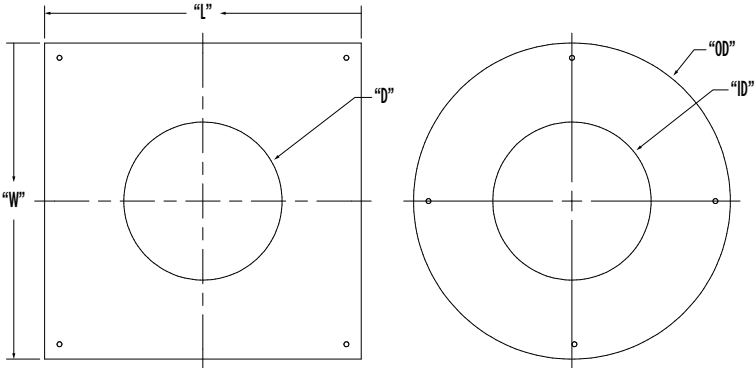
ACCESSORY ORDERING INFORMATION

Part Number	Description
778196	8W Remote Battery
801387	25W Remote Battery
786278	New Construction Frame Kit (Fits both 6" & 8")
Contact Factory	Retrofit Installation Panel ⁴ Ceiling installation panel for HDL in retrofit applications. Range of custom sizes and finishes available. Reference examples below. Contact factory for details.

QUICK SHIP SKUS

Part Number	Description
898692	HDL6 80L UNV 835 HAZ WHT
898691	HDL6 80L UNV 840 HAZ WHT
907778	HDL6 80L UNV 940 HAZ WHT

RETROFIT INSTALLATION PANEL EXAMPLES



¹ 10-12% light output reduction.
² Longer lead times may apply. Contact Factory.
³ Custom finish options available. Contact Factory.
⁴ Contact factory for customization options. Fixture mounting diameter determined by unit being installed, determined at time of order. Minimum order quantity may apply. Installation hardware by others.

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PERFORMANCE

Delivered Lumens											
Lumen Package	Reflector Type	CRI	3000K CCT		3500K CCT		4000K CCT		5000K CCT		Wattage
			Delivered Lumens	Efficacy	Delivered Lumens	Efficacy	Delivered Lumens	Efficacy	Delivered Lumens	Efficacy	
70L	SPC	80	7,800	132	7,970	135	8,269	139	7,914	134	59
	WHT		7,679	130	7,846	133	8,141	138	7,791	132	
	BLK		7,098	120	7,252	123	7,525	128	7,201	122	
	HAZ		7,599	129	7,764	132	8,055	137	7,709	131	
80L	SPC	80	8,598	126	8,784	129	9,114	134	8,723	128	68
	WHT		8,464	124	8,648	127	8,972	132	8,587	126	
	BLK		7,937	117	7,937	117	8,294	122	7,937	117	
	HAZ		8,375	123	8,557	126	8,878	131	8,497	125	
90L	SPC	80	9,216	123	9,416	126	9,770	130	9,350	125	75
	WHT		9,073	121	9,270	124	9,618	128	9,205	123	
	BLK		8,387	112	8,569	114	8,891	119	8,509	113	
	HAZ		8,978	120	9,173	122	9,517	127	9,109	121	
100L	SPC	80	10,322	123	10,546	126	10,942	130	10,472	125	84
	WHT		10,167	121	10,388	124	10,778	128	10,315	123	
	BLK		9,393	112	9,597	114	9,957	119	9,529	113	
	HAZ		10,055	120	10,273	122	10,659	127	10,201	121	

*10-12% output reduction for 90CRI

Lumen Maintenance					
Ambient Temperature	Initial ²	25K hrs. ²	50K hrs. ²	75K hrs. ³	100K hrs. ³
0 °C	100%	95%	90%	86%	83%
10 °C	99%	95%	90%	86%	83%
20 °C	99%	95%	90%	86%	83%
25 °C	99%	95%	90%	86%	83%
30 °C	99%	94%	90%	86%	82%
35 °C	99%	94%	90%	86%	82%

Electrical Data - Current Draw AMPS					
Lumen Package	Wattage	120V	208V	240V	277V
70L	59	0.49	0.28	0.25	0.21
80L	68	0.57	0.33	0.28	0.25
90L	75	0.63	0.36	0.31	0.27
100L	84	0.70	0.40	0.35	0.30

1 Lumen maintenance values at 40C 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.

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PHOTOMETRICS

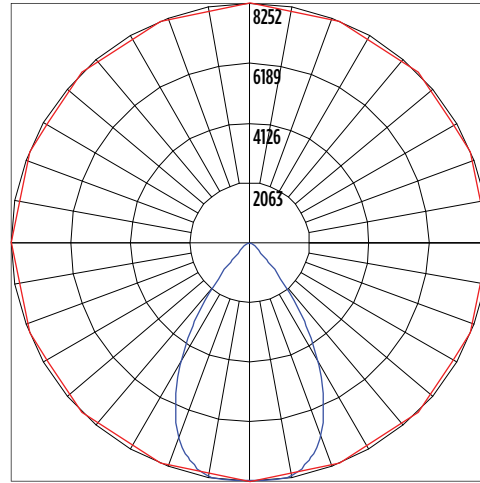
Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

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

HDL6-80L-840-BLK

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-20	2,962	35.7
0-30	5,703	68.8
0-40	7,707	92.9
0-60	8,293	100
0-80	8,294	100
0-90	8,294	100
10-90	7,509	90.5
20-40	4,746	57.2
20-50	5,305	64
40-70	586	7.1
60-80	1	0
70-80	0	0
80-90	0	0
90-110	0	0
90-120	0	0
90-130	0	0
90-150	0	0
90-180	0	0
110-180	0	0
0-180	8,294	100

Polar Curve



■ Vertical Plane ■ Horizontal Cone

	Center Beam fc	Beam Width	
3 ft.	913 fc	3.7 ft	3.7 ft
6 ft.	228 fc	7.4 ft	7.5 ft
9 ft.	101 fc	11.1 ft	11.2 ft
12 ft.	57.1 fc	14.7 ft	15.0 ft
15 ft.	36.5 fc	18.4 ft	18.7 ft
18 ft.	25.4 fc	22.1 ft	22.5 ft

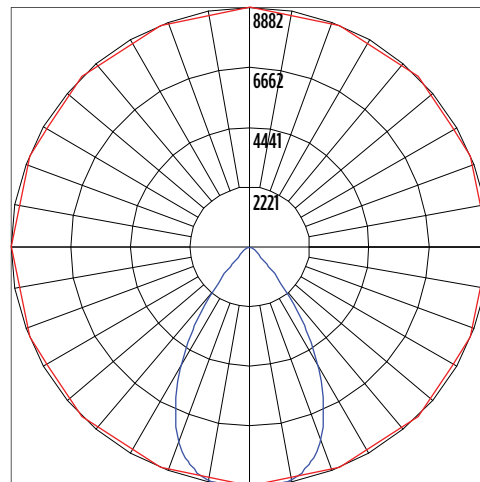
■ Vert. Spread: 63.1°

■ Horiz. Spread: 63.9°

HDL6-80L-840-HAZ

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-20	3,162	35.6
0-30	6,062	68.3
0-40	8,176	92.1
0-60	8,859	99.8
0-80	8,878	100
0-90	8,878	100
10-90	8,036	90.5
20-40	5,014	56.5
20-50	5,635	63.5
40-70	699	7.9
60-80	18	0.2
70-80	3	0
80-90	0	0
90-110	0	0
90-120	0	0
90-130	0	0
90-150	0	0
90-180	0	0
110-180	0	0
0-180	8,878	100

Polar Curve



■ Vertical Plane ■ Horizontal Cone

	Center Beam fc	Beam Width	
3 ft.	984 fc	3.7 ft	3.7 ft
6 ft.	246 fc	7.3 ft	7.4 ft
9 ft.	109 fc	11.0 ft	11.1 ft
12 ft.	61.5 fc	14.7 ft	14.8 ft
15 ft.	39.3 fc	18.4 ft	18.5 ft
18 ft.	27.3 fc	22.0 ft	22.2 ft

■ Vert. Spread: 62.9°

■ Horiz. Spread: 63.2°

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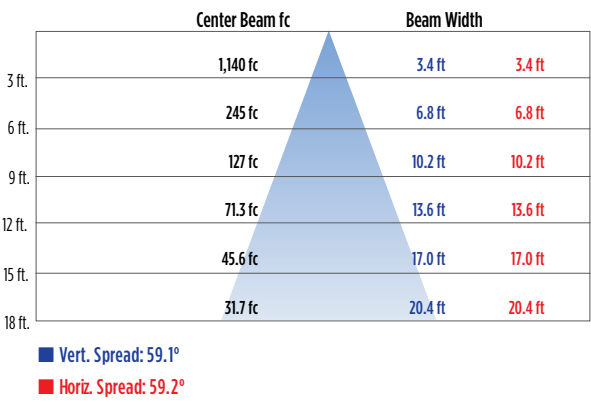
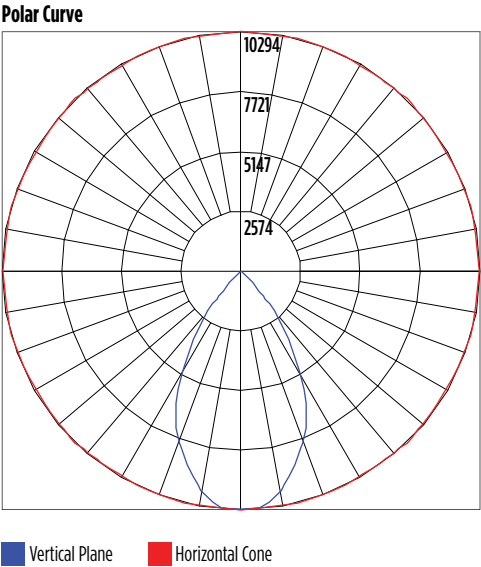
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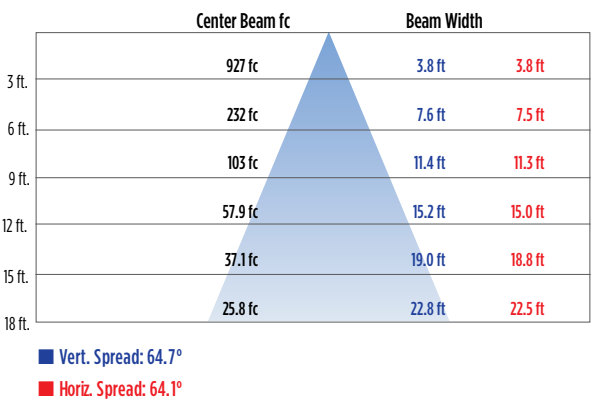
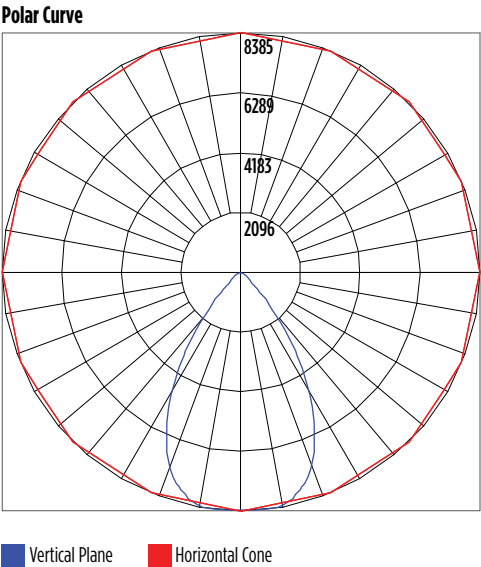
HDL6-80L-840-SPC

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-20	3,384	37.1
0-30	6,345	69.6
0-40	8,496	93.2
0-60	9,113	100
0-80	9,114	100
0-90	9,114	100
10-90	8,164	89.6
20-40	5,112	56.1
20-50	5,699	62.5
40-70	618	6.8
60-80	1	0
70-80	0	0
80-90	0	0
90-110	0	0
90-120	0	0
90-130	0	0
90-150	0	0
90-180	0	0
110-180	0	0
0-180	9,114	100



HDL6-80L-840-WHT

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-20	3,023	33.7
0-30	5,852	65.2
0-40	7,974	88.9
0-60	8,828	98.4
0-80	8,965	99.9
0-90	8,972	100
10-90	8,174	91.1
20-40	4,951	55.2
20-50	5,645	62.9
40-70	950	10.6
60-80	137	1.5
70-80	40	0.4
80-90	7	0.1
90-110	0	0
90-120	0	0
90-130	0	0
90-150	0	0
90-180	0	0
110-180	0	0
0-180	8,972	100

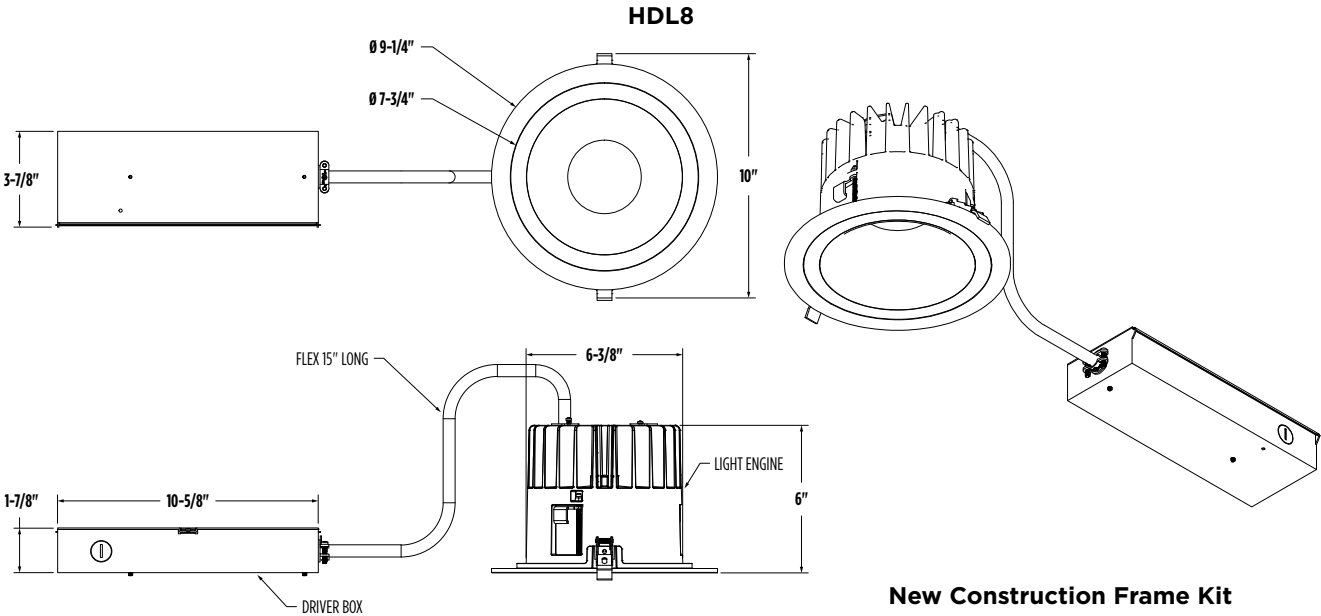
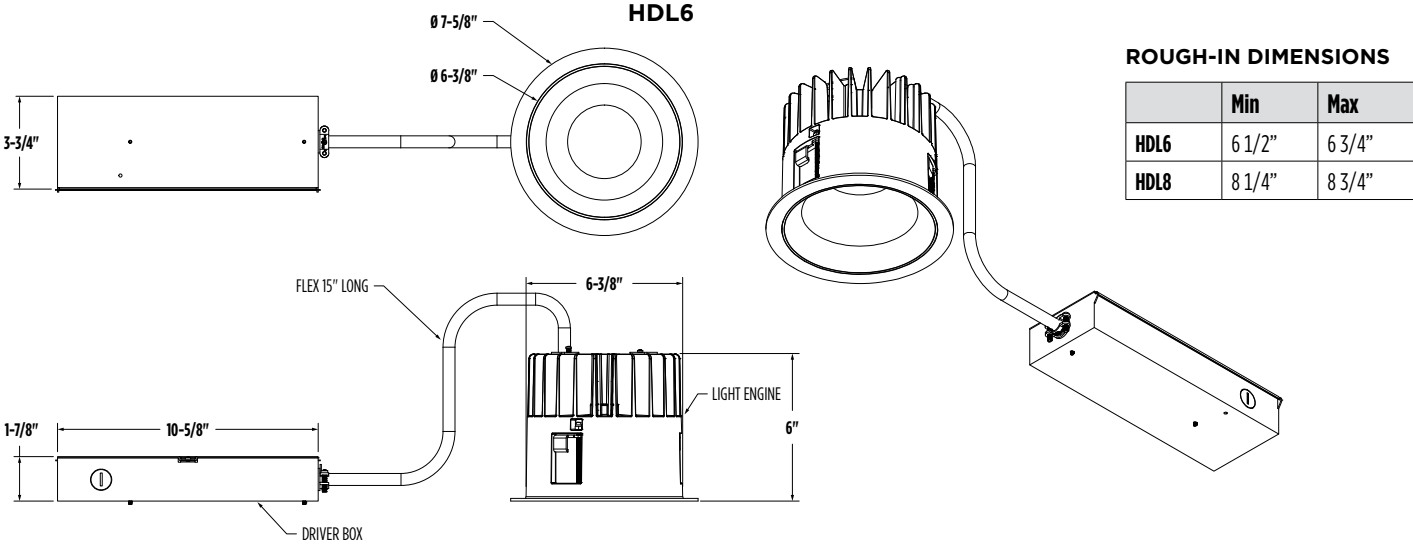


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PRODUCT DIMENSIONS



New Construction Frame Kit

