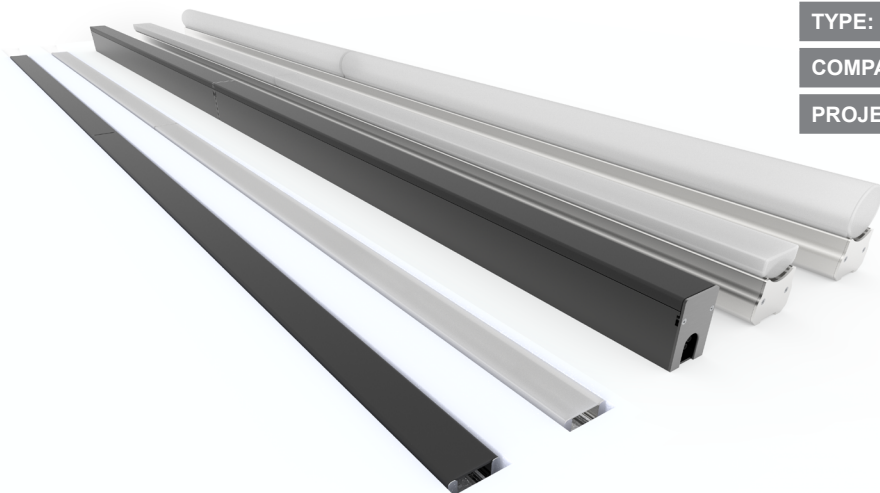
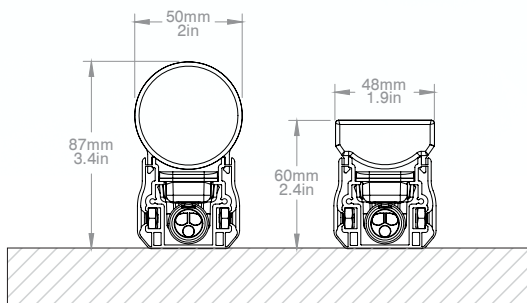


Direct View Architectural Delineation LED System

PRODUCT SPECIFICATION SHEET

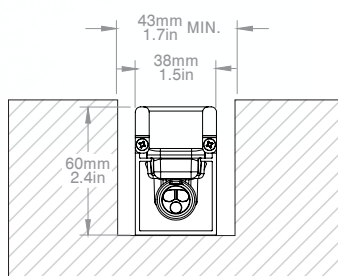


DATE:	
TYPE:	
COMPANY:	
PROJECT:	

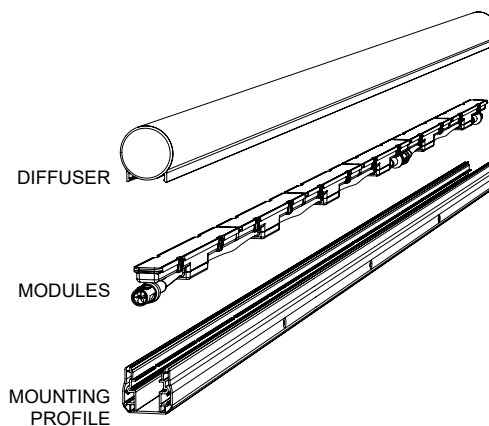


ROUND DIFFUSER

FLAT DIFFUSER



HL-DL-NICHE



FEATURES:

Lighting Performance:

- Up to 7,303 cd/m²
 - 18 x Monochromatic LEDs or 16 x RGBW clusters per 300mm (1ft)
- Mechanical Details:**
- Through-wiring via sealed snap-in connectors
 - IP66 sealed body design
 - 5W maximum power consumption per 300mm (1ft); 16W per 1m (3ft)
 - Flame retardant polymeric body
 - A41 Architectural grade anodized mounting profile

Control: Addressable per 300mm (1ft) module⁴

Projected Lifetime: L70 > 115,000hrs @ ta = 23°C (73°F)

Operating Temperatures: -40°C (-40°F) to +50°C (122°F)

OPTIONS:

Power Source: INFINITY[®] Technology (INF) for exceptionally long runs from a single power source, Extra Low Voltage (ELV) for short runs, or Extra Low Voltage 48VDC (ELV48) for short runs dimmable by circuit; remote power supplies

LED Color: Range of LED colors available

Control: On/Off or DMX, DALI or 0~10V control through GVA Power-Data Equipment (0~10V dimmable by circuit for ELV48)

Diffusers: White round or white flat UV stable and impact resistant PMMA diffusers; white or black Niche cover lens options

Body Colors: Clear matte anodized standard profile, clear matte or black matte anodized NICHE profile

Accessories:

- End caps available for additional protection
- Connector caps available to prevent dust and water ingress

SPECIFICATION LOGIC: HL MODULE

FAMILY	NOMINAL LENGTH (mm)	LED COLOUR	VOLTAGE	BEAM ANGLE (FWHM)	POWER	IP RATING
HL	300 - 1 Module 1200 - 4 Modules	2200K	ELV - 12VDC-60VDC ELV48 - 48VDC ³ INF - 380VDC	30 - 30°X110° ^{2,3} 60 - 60°X110° ³ 90 - 90°X110° ^{2,3} 120 - 120°x120°	3W 5W	IP66
		RD - Red				
		2700K				
		GR - Green				
		3000K				
		BL - Blue				
		3500K				
		YL - Yellow				
		4000K				
		AM - Amber ²				
		5000K				
		RGB-HO-CA				
		6500K				
		RGBW-HO-CA ¹				
		DWT - Dynamic White				

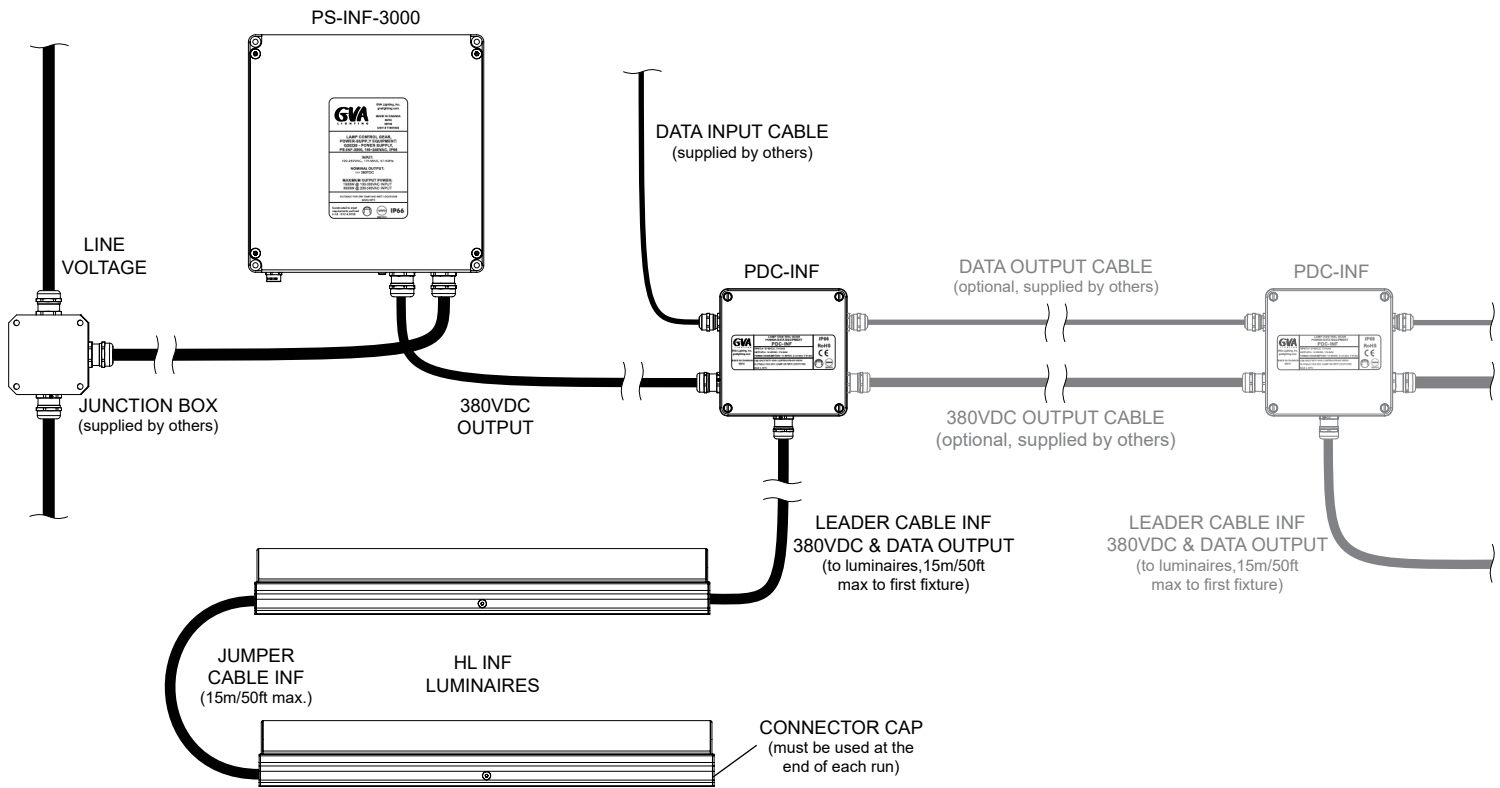
PRODUCT CONFIGURATION

1. Default white is 3000K. Contact factory for alternate options.
2. Under development. Contact factory for details and lead times.
3. For use only with monochromatic configurations in cove applications.
4. Not available with ELV48 (48VDC) configuration

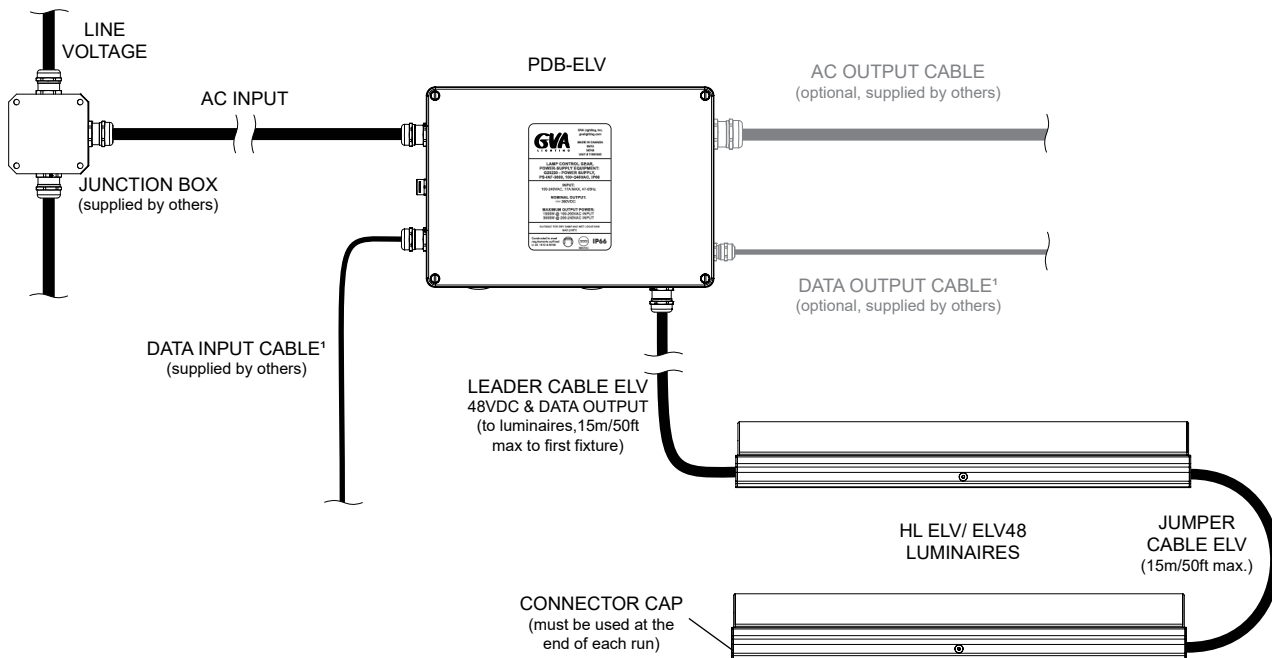
Direct View Architectural Delineation LED System

PRODUCT SPECIFICATION SHEET

TYPICAL SYSTEM DIAGRAM: INFINITY



TYPICAL SYSTEM DIAGRAM: ELV & ELV48



1. ELV48 0~10V dimmable by circuit only.

Direct View Architectural Delineation LED System

PRODUCT SPECIFICATION SHEET

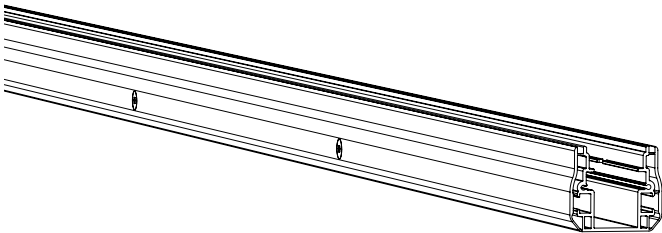
PRODUCT SPECIFICATIONS: HL-DL

ELECTRICAL	Rated Input Voltage	ELV 12~60VDC Nominal	ELV48 48VDC Nominal		INF 380VDC Nominal, 260~400VDC		
	Power Consumption ¹	Typical Maximum	4.8 W 5W	2.5W 3W			
	Rated Current for curcuit	Maximum	16A				
OPTICAL	Light Source	18 x Monochromatic LEDs or 16 x RGBW clusters per 300mm/1ft					
	Luminance Diffuser Surface Brightness (cd/m ²)		HL-DL Round	HL-DL Flat	HL-DL Niche		
		Red (RGBW)	1,955	2,873	4,689		
		Green (RGBW)	2,767	4,476	8,151		
		Blue (RGBW)	756	1,214	2,371		
		White (RGBW)	4,150	6,453	11,970		
		All On (RGBW)	3,037	4,828	9,019		
	3000K (MONO)	3,670	5,973	10,020			
Lumen Maintainance (L70)	115,000 hrs						
CONTROL	Control Interface	DMX, 0-10V, DALI via GVA Lighting's proprietary ZHD protocol (0~10V dimmable by circuit for ELV48)					
	Fixture Connections	IP68 rated mating connectors					
PHYSICAL	Overall ¹		HL-DL Round	HL-DL Flat	HL-DL Niche		
		W x H	mm in	50 X 87 2.0 X 3.4	48 X 60 1.9 X 2.4	49 X 60 1.9 X 2.4	
		Weight	kg lbs	0.62 1.37	0.58 1.28	0.51 1.12	
	Housing	Injection molded, flame retardant polymeric body and lens Extruded aluminum mounting profile, A41 architectural, class 1 anodized Extruded impact resistant, UV stable PMMA diffuser					
	CERTIFICATION & SAFETY	Rated Operating Temperatures	-40°C (-40°F) to +50°C (122°F)				
Environment		Dry or Damp or Wet Locations, 0~100% non-condensing humidity, IP66					
    Meets ANSI C136.31 3G Vibration standard for bridge and overpass applications							

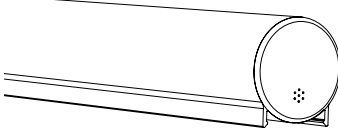
These figures are subject to change due to further development and innovations of LED light sources.

ORDERING LOGIC: HL-DL

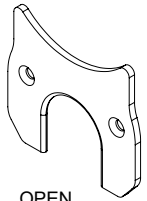
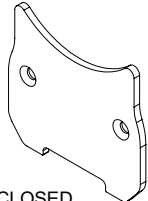
MOUNTING PROFILES

	NOMINAL LENGTH (mm) ²	PART NUMBER
	300	122171
	600	122172
	900	122173
	1200	122174
	1500	122175
	1800	122176
	2100	122177
	2400	122178

DIFFUSERS

 	NOMINAL LENGTH (mm) ²	ROUND DIFFUSER	FLAT DIFFUSER
	300	122898	120664
	600	122899	120665
	900	122900	120666
	1200	122901	120667
	1500	122902	120668
	1800	122903	120669
	2100	122904	120670
	2400	122905	120671

ENDCAP KITS

 	TYPE	PART NUMBER
	Open	121608
	Closed	121609

1. Measurement is per 300mm (1ft) module

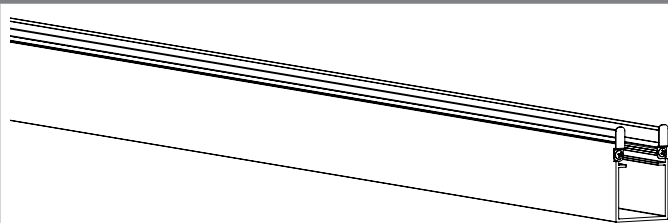
2. Ordering logic configurations and quantities may be determined by specific details for your installation. GVA's Applications team can assist in specifying the appropriate configuration and quantities and create a Bill of Materials in the quoting process.

Direct View Architectural Delineation LED System

PRODUCT SPECIFICATION SHEET

ORDERING LOGIC: HL-DL NICHE

MOUNTING PROFILE



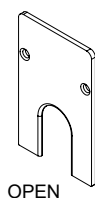
NOMINAL LENGTH (mm) ¹	Clear Matte Anodized	Black Matte Anodized
300	122816	123431
600	122817	123432
900	122818	123433
1200	122819	123434
1500	122820	123435
1800	122821	123436
2100	122822	123437
2400	122823	123438

COVER LENS

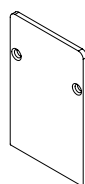


NOMINAL LENGTH (mm) ¹	WHITE LENS	BLACK LENS
300	121393	123576
600	121394	123577
900	121395	123578
1200	121396	123579
1500	121397	123580
1800	121398	123581
2100	121399	123582
2400	121400	123583

NICHE ENDCAP KITS



OPEN



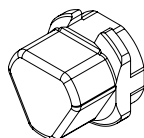
CLOSED

TYPE	Clear Matte Anodized	Black Matte Anodized
Open	124032	124034
Closed	124033	124035

1. Ordering logic configurations and quantities may be determined by specific details for your installation. GVA's Applications team can assist in specifying the appropriate configurations and quantities and create a Bill of Materials in the quoting process.

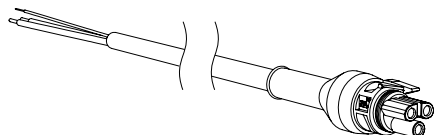
ORDERING LOGIC: COMMON COMPONENTS

CONNECTOR CAP



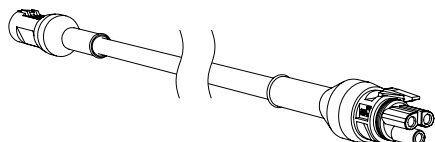
PART NUMBER
230866

LEADER CABLE



NOMINAL LENGTH (m)	INF	ELV/ ELV48
5	140621	140626
10	140622	140627
20	140623	140628
30	140624	140629

JUMPER CABLE



NOMINAL LENGTH (m)	INF	ELV/ ELV48
150mm	140631	140638
300mm	140632	140639
500mm	140633	140640
1m	140634	140641
5m	140635	140642
10m	140636	140643