

FEATURES & SPECIFICATIONS

INTENDED USE — Provides a minimum of 90 minutes illumination for the rated wattage upon loss of AC power to meet and exceed code required emergency lighting. Ideal for light, heavy and demanding industrial applications requiring LEDs with quick installation and unparalleled performance for mounting heights from 7.5' to 40'. Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.

CONSTRUCTION — The housing is gray thermoplastic, design to perform in a wide varity of industral applications. It is 5VA flame rated, impact-resistant, scratch-resistant and corrosion proof. The UV-stable resin resists discoloration from natural and man-made light sources. There is a low-profile, integrated and back-lit test switch with an easily visible multi-color LED status indicator. The back-plate contains a universal j-box mounting pattern to facilitate ease of installation on a wide variety of j-boxes and the front housing allows tool-less access for ease of maintenance. The lamp heads have a unique track-and-swivel arrangement permitting full range of direction of optical aiming.

OPTICS — The SP640L features four high-performance LEDs rated at 6.6 watts and delivers a total of 640 lumens in a spot pattern.

The SP1100L features six high-performance LEDs rated at 10.6 watts and delivers a total of 1,100 lumens in a spot pattern.

The SP2200L features twelve high-performance LEDs rated at 22 watts and delivers a total of 2,200 lumens in a spot pattern.

The typical life of an LED is 10 years. The LED light sources typically never need to be replaced under normal conditions for normal off applications.

CCT: 5000K.

 $\textbf{ELECTRICAL} \longrightarrow \textbf{UVOLT} \ (120 \ \text{thru} \ 347 \text{V}, 50/60 \text{hz}). \ \textbf{Current-limiting charger maximizes battery life and}$ minimizes energy consumption to provide low operating costs. Small battery chargers Certified in the CA Title 20 Appliance Efficiency Database.

Short-circuit protection — current-limiting charger circuitry protects printed circuit board from shorts. Regulated charge voltage maintains a stable charge voltage over a wide range of line voltages.

Prevents over/undercharging that shortens battery life and reduces capacity. Filtered charger input minimizes charge voltage ripple and extends battery life.

BATTERY: Lithium Iron Phosphate battery. Optional High-Output (HO option) and Extra High Output (EHO option), LTP battery type only, provides a wide variety of remote capacities and/or extended run time.

SELF-DIAGNOSTICS AND REMOTE TEST (SDRT OPTION): Automatic 24-hour recharge after a 90-minute discharge. Advanced electrical design provides constant light output throughout the entire discharge period. Brownout protection is automatically switched to emergency mode when supply voltage drops below approximately 80 percent nominal of 120, 220, 277 or 347. Other input voltages may vary. AC/LVD reset allows battery connection before AC power is applied and prevents battery damage from deep discharge.

Self-Diagnostics: Continuously monitors AC functionality. Standard derangement monitoring will indicate disconnected battery, charger failure and displays green flashing indicator light while in emergency mode. Single multi-chromatic LED indicator to display two-state charging, test activation and three-state self-

Self-diagnostic testing: Five minutes every 30 days and 90 minutes annually. Diagnostic evaluation of lamps, AC to DC transfer, battery charging and condition of microprocessor. Automatic test is easily postponed for eight hours by activating manual test switch or use of remote tester (RTKITHLP accessory).

Manual testing: Test switch and remote tester (RTKITHLP accessory) provides manual activation of 60-second diagnostic testing for on-demand visual inspection.

INSTALLATION — Wall mount standard (ceiling mount capable, no additional hardware required). Steel mounting bracket ensures easy installation and safe maintenance. 7/8" entrance provision at top of unit for standard 1/2" conduit entry. Tool-less removal of front cover from back-plate for ease of installation and

LISTINGS — DSL3 is UL wet location listed standard; the DSL46 is NEMA 4X, IP66 and NSF listed at 32-122°F (0-50°C). Meets or exceeds all applicable requirements for UL 924, NFPA 101 (current Life Safety code), NFPA 70 (NEC), NOM (Norma Oficial Mexicana), California Energy Commission Title 20 section 1605.3 (W)(4), FCC Title 47, Part 15, Subpart B and OSHA. List and labeled to comply with Canadian Standards C22.2 No. 141-10.

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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.

† Small Battery Chargers Certified in the CA Title 20 Appliance Efficiency Database.













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No	lotes		
Ту	ype		

Industrial LED Emergency Lights



DSL3 DESOTO™ Wet Location







DSL46 DESOTO™ NEMA 4X







MOUNTING

All dimensions are inches (centimeters) unless otherwise indicated.

DSL3 SP640L/SP1100L/SP2200L Specifications

Length: 9.75 (24.77) Depth: 6.31 (16.03) Height: 13.04 (33.12)

*Weight of SP640L / SP1100L: 6.25 lbs (2.83 kg)

*Weight of SP2200L EHO: 8.6 lbs (3.90 kg)

DSL46 SP640L/ SP1100L/SP2200L Specifications

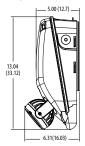
Length: 10.42 (26.47) Depth: 6.42 (15.85) Height: 13.94 (35.41)

*Weight of SP640L / SP1100L: 7.35 lbs (3.33 kg)

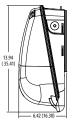
*Weight of SP2200L EHO: 9.7 lbs (4.39 kg)

*Weight will vary based on battery and CW option









EMERGENCY DSL3-DSL46

DSL3_DSL46 Industrial LED Emergency Lights

DESOTO™ WET LOCATION

ORDERING INFORMATION For shortest lead times, configure product using **bolded options**.

		<u> </u>				
Series	Lamp Type	Housing Color	Voltage	Battery Type	Automatic Testing	Options
DSL3 DESOTO™ Wet location	SP640L 640 lumen, 6.6 watt, Spot distribution SP1100L 1100 lumen, 10.6 watt, Spot distribution SP2200L 2200 lumen, 22 watt, Spot distribution ¹	(blank) Gray	UVOLT 120-347VAC, 50/60hz	LTP Lithium Iron Phosphate	SDRT Self- Diagnostics, Remote Testing	(blank) Not Required HO High-Output Battery EHO Extra High-Output Battery CW Cold Weather (-30 - 50c) USPOM Assembled in the US

1 SP2200L lumen package only available with EHO option.

Example: DSL3 SP1100L UVOLT LTP SDRT

DCL 2DE CD1100L T

DESOTO™ WET LOCATION REMOTE

ORDERING INFORMATION For shortest lead times, configure product using bolded options . Example: DSL3RE SPT					
Series	Lamp Type	Housing Color	Voltage	Number of Lamps	
DSL3RE DESOTO™ WET location remote	SP640L 320 lumen, 3.3 watt, Spot distribution SP1100L 550 lumen, 5.3 watt, Spot distribution	(blank) Gray	(blank) Universal DC Voltage (7-30VDC)	SGL Single T Twin ¹	
	SP2200L 1100 lumen, 11 watt, Spot distribution				

Notes

1 For twin (T) remote, multiply lumens and watts by 2.

DESOTO™ NEMA 4X

ORDERING INFORMATION For shortest lead times, configure product using **bolded options**.

		1		
ıtom	atic Testing	Options		
DRT	Self- Diagnostics,	(blank)	Not Required	

Example: DSL46 SP1100L UVOLT LTP SDRT

Series	Lamp Type	Housing Color	Voltage	Battery Type	Automatic Testing	Options
DSL46 DESOTO™ NEMA 4X	SP640L 640 lumen, 6.6 watt, Spot distribution SP1100L 1100 lumen, 10.6 watt, Spot distribution SP2200L 2200 lumen, 22 watt, Spot distribution ¹	(blank) Gray	UVOLT 120-347VAC, 50/60hz	LTP Lithium Iron Phosphate	SDRT Self- Diagnostics, Remote Testing	(blank) Not Required HO High-Output Battery EHO Extra High-Output Battery CW Cold Weather (-30 - 50c) USPOM Assembled in the US

1 SP2200L lumen package only available with EHO option.

DESOTO™ NEMA 4X REMOTE

ORDERING INFORMATION For shortest lead times, configure product using **bolded options**. **Example:** DSL4XRE SP1100L SGL

Series	Lamp Type	Housing Color	Voltage	Number of Lamps
DSL4XRE DESOTO™ NEMA 4X Remote	SP640L 320 lumen, 3.3 watt, Spot distribution SP1100L 550 lumen, 5.3 watt, Spot distribution SP2200L 1100 lumen, 11 watt, Spot distribution	(blank) Gray	(blank) Universal DC Voltage (7-30VDC)	SGL Single T Twin ¹

1 For twin (T) remote, multiply lumens and watts by 2.

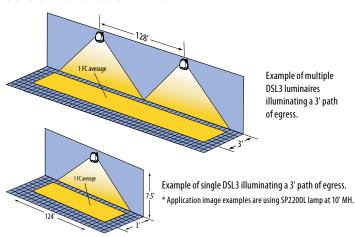
Accessories: Order as separate catalog number.

RTKITHLP Remote test kit, up to 40' away (includes goggles, laser and battery)



DSL3-DSL46

DSL3 SPACING GUIDELINES



Mauntina	Illumination	Single Lu	ıminaire	Multiple I	Luminaire	A
Mounting Height	Level	3' Path of Egress	6' Path of Egress	3' Path of Egress	6' Path of Egress	Application Notes
7.5'	1FC Avg ¹	58'	56'	63'	57'	
10'	1FC Avg ¹	56'	50'	59'	54'	Open
12'	1FC Avg ¹	56'	50'	58'	53'	warehouse:
16'	1FC Avg ¹	52'	48'	54'	50'	200'x15'x30' 10/10/10
20'	1FC Avg ¹	48'	44'	50'	46'	reflectances
24'	1FC Avg ¹	44'	40'	46'	42'	

1. Also meets the additional illumination requirements of NFPA 101: 1FC minimum and max/min ratio of 40:1.

Maximum	Maximum Spacing Guidelines — DSL3 SP1100L										
Mounting Height	Illumination	Single Lu	Single Luminaire		Multiple Luminaire						
	Level	3' Path of Egress	6' Path of Egress	3' Path of Egress	6' Path of Egress	Application Notes					
7.5'	1FC Avg ¹	76'	74'	82'	75'						
10'	1FC Avg ¹	76'	72'	79'	75'	Open .					
12'	1FC Avg ¹	72'	70'	78'	74'	warehouse:					
16'	1FC Avg ¹	68'	66'	73'	69'	200'x15'x30' 10/10/10 reflectances					
20'	1FC Avg ¹	64'	62'	67'	64'						
24'	1FC Avg ¹	60'	58'	63'	60'						

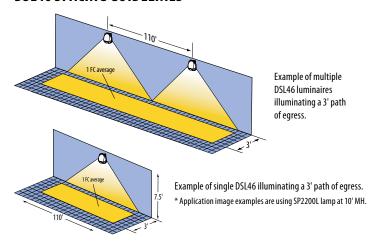
Notes:

 $^{1. \}quad \text{Also meets the additional illumination requirements of NFPA 101: 1FC minimum and max/min ratio of 40:1}.$

Maximum	Maximum Spacing Guidelines — DSL3 SP2200L									
Mounting Height	Illumination	Single Luminaire		Multiple I	Application					
	Level	3' Path of Egress	6' Path of Egress	3' Path of Egress	6' Path of Egress	Notes				
7.5'	1FC Avg¹	124'	114'	128'	115'					
10'	1FC Avg ¹	118'	116'	122'	114'	Open				
12'	1FC Avg ¹	120'	116'	121'	114'	warehouse:				
16'	1FC Avg ¹	116'	112'	119'	114'	200'x15'x30' 10/10/10 reflectances				
20'	1FC Avg ¹	112'	108'	115'	111'					
24'	1FC Avg ¹	106'	104'	108'	107'					

Notes:

DSL46 SPACING GUIDELINES



Maximum	Maximum Spacing Guidelines — DSL46 SP640L									
Mounting Height	Illumination	Single Luminaire		Multiple I	Application					
	Level	3' Path of Egress	6' Path of Egress	3' Path of Egress	6' Path of Egress	Notes				
7.5'	1FC Avg ¹	54'	48'	57'	50'					
10'	1FC Avg ¹	52'	48'	56'	50'	Open				
12'	1FC Avg ¹	48'	42'	50'	45'	warehouse:				
16'	1FC Avg¹	46'	40'	48'	43'	200'x15'x30' 10/10/10 reflectances				
20'	1FC Avg¹	42'	38'	44'	40'					
24'	1FC Avg ¹	36'	34'	38'	36'					

Notes

 $1. \quad Also \ meets \ the \ additional \ illumination \ requirements \ of \ NFPA \ 101: \ 1FC \ minimum \ and \ max/min \ ratio \ of \ 40:1.$

Maximum	Maximum Spacing Guidelines — DSL46 SP1100L									
Mounting	Illumination	Single Lu	ıminaire	Multiple I	Multiple Luminaire					
Height Level	3' Path of Egress	6' Path of Egress	3' Path of Egress	6' Path of Egress	Application Notes					
7.5'	1FC Avg¹	69'	67'	72'	67'					
10'	1FC Avg ¹	69'	62'	72'	66'	Open .				
12'	1FC Avg¹	68'	61'	70'	65'	warehouse:				
16'	1FC Avg¹	62'	60'	66'	62'	200'x15'x30' 10/10/10				
20'	1FC Avg ¹	60'	56'	63'	60'	reflectances				
24'	1FC Avg ¹	54'	54'	58'	55'					

Notes

1. Also meets the additional illumination requirements of NFPA 101: 1FC minimum and max/min ratio of 40:1.

Maximum Spacing Guidelines — DSL46 SP2200L									
Mounting Illumination Height Level	Single Lu		ıminaire Multiple L		Luminaire	Application			
	3' Path of Egress	6' Path of Egress	3' Path of Egress	6' Path of Egress	Application Notes				
7.5'	1FC Avg¹	110'	100'	110'	104'				
10'	1FC Avg ¹	106'	100'	108'	104'	Open .			
12'	1FC Avg¹	104'	100'	108'	104'	warehouse:			
16'	1FC Avg ¹	102'	98'	104'	101'	200'x15'x30' 10/10/10 reflectances			
20'	1FC Avg ¹	98'	94'	104'	100'				
24'	1FC Avg ¹	94'	90'	100'	92'				

Notes

1. Also meets the additional illumination requirements of NFPA 101: 1FC minimum and max/min ratio of 40:1.



^{1.} Also meets the additional illumination requirements of NFPA 101: 1FC minimum and max/min ratio of 40:1.