LITHONIA LIGHTING®

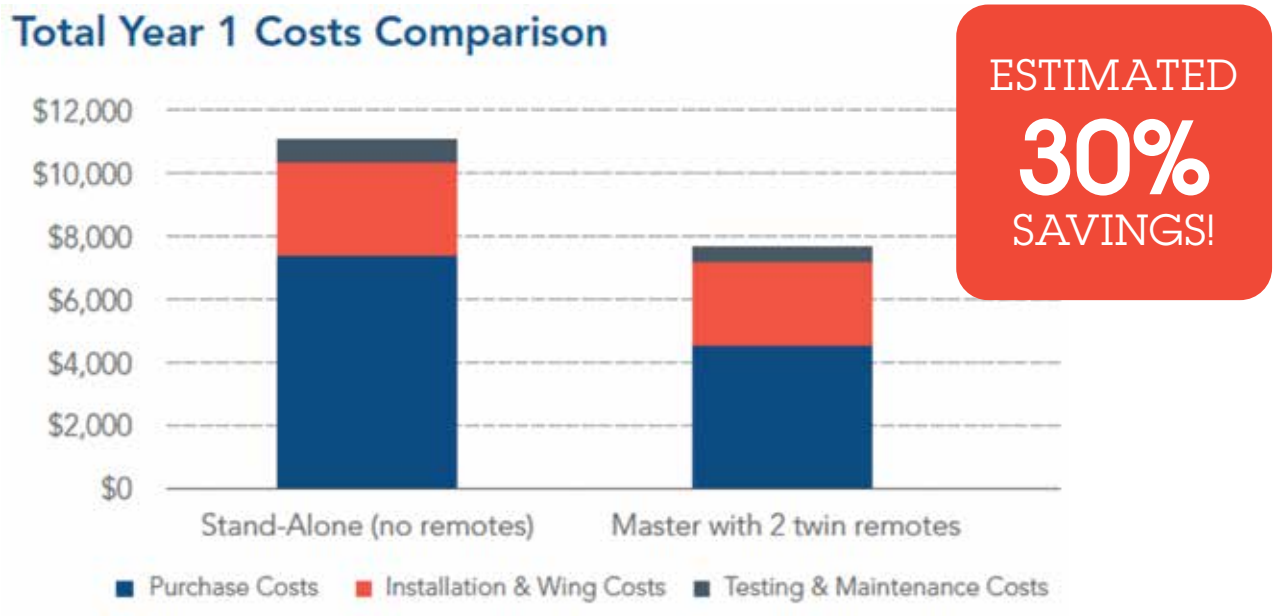
Canadian

Remote Application Guide

AcuityBrands.

What are remotes and why are they used?

An emergency remote head is a stand-alone lamp with no internal battery backup. Remote lamps are mounted on a base, with either single or twin lamps, and powered by an external battery source, most likely from an emergency lighting unit or exit-unit combo with extra capacity. By eliminating the battery, remotes are often more affordable than illuminating that same path of egress than stand-alone units. Additionally, emergency remote lamps are tested simultaneously with their emergency unit counterpart. This means that you are still following the Life Safety Code (NFPA 101) with less fixtures to test monthly/annually.



1. How do I know which remote is compatible with my power source (unit or combo)?

The battery voltage of the remote and the unit must match. Lithonia Lighting® remote lamp heads, such as the new Quantum® ELMRW, are standard with a broad voltage range that cover the majority of battery voltages used in LED units. Additionally, most of the new emergency remotes from Lithonia Lighting are UL Listed to operate with any battery source within the voltage range.

2. Where are remotes used?

In majority of instances, emergency remote lamps are used in environments that are not conducive to batteries. Often the cost savings for remotes are greater in demanding environments. Lithonia Lighting offers universal voltage remotes that suit most applications including: commercial office, light industrial, wet location and heavy industrial environments.

3. How far can I mount the remotes from the battery source?

The distance allowed between the emergency remote and battery source (i.e. unit or combo) depends on the battery voltage of the system, watts of the remote lamp heads and the gauge wire used. Please see product webpage for maximum spacing information for Lithonia Lighting LED remotes.

Remote Application Information

	Wet Location /Outdoor					Light Commercial/Indoor		Heavy Industrial NEMA 4X
	ERE WP RD	ERE WP SQ	ELMRW	AFB & AFF OELR	INDRE	ERE SQ	ELMRE	EXTLRE
	Lithonia Lighting® Basics	Lithonia Lighting® Basics	Quantum®	Affinity®	Indura®	Lithonia Lighting® Basics	Quantum®	Extreme®
								
Compatible DC Battery Voltage	3.6V	3.6V - 12VDC	5-20VDC (LP220L) 5-20VDC(SP640L)	8-30VDC	5-20VDC (SP640L) 7-30VDC(SP1100L) 7-30VDC(SP2200L)	3.6V - 12VDC	5-20VDC(LP220L) 5-20VDC (SP640L) 7-30VDC(SP1100L)	5-20VDC (SP640L) 7-30VDC(SP1100L) 7-30VDC(SP2200L)
Watts per Lamp Head	0.75W	1W	LP220L - 1.2W SP640L - 3.3W	AFB OELR WT - 2.6W AFF OELR WT - 8.5W AFF OELR FCT - 8.2W	SP640L - 3.3W SP1100L - 5.3W SP2200L - 11W	1W	LP220L - 1.2W SP640L - 3.3W SP1100L - 5.3W	SP640L - 3.3W SP1100L - 5.3W SP2200L - 11W
Lumens per Lamp Head	75 LM	90 LM	LP220L - 110 LM SP640L - 320LM	AFB OELR WT - 225 LM AFF OELR WT - 635 LM AFF OELR FCT - 450 LM	SP640L - 320 LM SP1100L - 550 LM SP2200L-1100 LM	90 LM	LP220L - 130 LM SP640L - 345LM SP1100L - 550 LM	SP640L - 320 LM SP1100L - 550 LM SP2200L - 1100 LM
Maximum Spacing (Twin remotes)	18'	14 '	LP220L - 35' SP640L - 67'	AFB WT - 30' AFF WT - 69' AFF FCT - 35'	SP640L - 63' SP1100L - 82' SP2200L - 128'	14 '	LP220L - 35' SP640L - 67' SP1100L - 98'	SP640L - 57' SP1100L - 72' SP2200L - 110'
Temperature Range	-22°F to 122°F (-30°C to 50°C)	-22°F to 122°F (-30°C to 50°C)	-40°F to 131°F (-40°C to 55°C)	-40°F to 131°F (-40°C to 55°C) @ SP640L or -22°F to 104°F (-30°C to 40°C) @ SP1100L/SP2200L	-22°F to 122°F (-30°C to 50°C)	50°F to 104°F (10°C to 40°C)	-22°F to 104°F (-30°C to 40°C)	-40°F to 131°F (-40°C to 55°C) @ SP640L or -22°F to 104°F (-30°C to 40°C) @ SP1100L/SP2200L
Self- Diagnostics Compatibility	No	No	Yes	Yes	Yes	No	Yes	Yes
Listings	UL, Wet Location, CSA	UL, Wet Location, CSA	UL, Wet Location, CSA	UL, Wet Location, CSA	UL, Wet Location, CSA	UL, CSA	UL, CSA	UL, IP66, CSA, NEMA 4X, NSF
Warranty	2 Year	2 Year	5 Year	5 Year	5 Year	2 Year	5 Year	5 Year
Recommended Lithonia Lighting Products	EU2C	EU2C, ECRM, EXRM, ECBRM	ELM2L, ELM2LF, ELM4L, ELM6L, INDL, EXTL, EXRM , ECRM, ECBRM	INDL, EXTL, ELM4L, ELM6L	INDL, EXTL, ELM4L, ELM6L	EU2C, ECRM, EXRM, ECBRM	ELM2L, ELM2LF, ELM4L, ELM6L, INDL, EXTL, EXRM , ECRM, ECBRM	INDL, EXTL, ELM4L, ELM6L

Battery Capacity and Loading

Battery Option (LTP Only)	Battery Voltage	Total Capacity 90 Minutes	LP220L (1.2 Watts each) Maximum # Remote Lamps*[1]	SP640L (3.3 Watts each) Maximum # Remote Lamps*	SP1100L (5.3 Watts each) Maximum # Remote Lamps*[2]	SP2200L (11 Watts each) Maximum # Remote Lamps*[2,3]
ELM2L LTP	9.6V	4.8 WATTS	2	0	0	0
ELM4L LTP	9.6V	11 WATTS	3	1	0	0
ELM4L LTP HO	9.6V	22 WATTS	12	4	2	1
ELM4L LTP EHO	12.8V	32 WATTS	21	7	6	2
ELM6L LTP	9.6V	11 WATTS	0	0	0	0
ELM6L LTP HO	9.6V	22 WATTS	9	3	2	0
ELM6L LTP EHO	12.8V	32 WATTS	17	6	4	1
ELM6L LLH LTP	9.6V	11 WATTS	9	3	2	1
ELM6L LLH LTP HO	9.6V	22 WATTS	18	6	4	2
ELM6L LLH LTP EHO	12.8V	32 WATTS	26	9	6	2
INDL SP640L / EXTL SP640L	9.6V	11 WATTS	3	1	0	0
INDL SP640L HO / EXTL SP640L HO	9.6V	20.5 WATTS	11	4	2	1
INDL SP640L EHO / EXTL SP640L EHO	12.8V	32 WATTS	21	7	4	2
INDL SP1100L / EXTL SP1100L	9.6V	11 WATTS	0	0	0	0
INDL SP1100L HO / EXTL SP1100L HO	9.6V	20.5 WATTS	9	3	1	0
INDL SP1100L EHO / EXTL SP1100L EHO	12.8V	32 WATTS	17	6	4	1
INDL SP2200L EHO / EXTL SP2200L EHO	12.8V	32 WATTS	9	3	1	0

**In addition to the lamp heads on the product*

1. INDRE and EXTLRE not available with LP220L Lamp Type

2. ELMRW not available with SP1100L or SP2200L Lamp Type

3. ELMRE not available with SP2200L Lamp Type

Learn More About LED Emergency Remote Light Heads at www.lithonia.com

Voltage Drop Tables

The Following information is provided to assist in planning layouts for emergency lighting systems. The National Electrical Code® limits voltage drop to a maximum of 5% of nominal. Thus, circuit runs must be of sufficient size to maintain operating voltage when remote fixtures are connected to the emergency lighting equipment. The tables below show the maximum distance the emergency remote can be mounted from the main battery source, wire gauge, and catalog of the remote used.

Catalog Description	Maximum from Battery Source(Ft)*				
	3.6V Battery System				
Wet Location/Outdoor	**18 AWG**	**16 AWG**	**14 AWG**	**12 AWG**	**10 AWG**
ERE SGL WP RD	63	100	158	252	400
ERE T WP RD	31	50	79	126	200
ERE SGL WP SQ	47	75	119	189	300
ERE T WP SQ	23	37	59	94	150
Light Commerical/Indoor	**18 AWG**	**16 AWG**	**14 AWG**	**12 AWG**	**10 AWG**
ERE SGL RD	63	100	158	252	400
ERE T RD	31	50	79	126	200
ERE SGL SQ	47	75	119	189	300
ERE T SQ	23	37	59	94	150
	6V Battery System				
Wet Location/Outdoor	**18 AWG**	**16 AWG**	**14 AWG**	**12 AWG**	**10 AWG**
ERE SGL WP SQ	78	125	198	315	501
ERE T WP SQ	39	62	99	157	250
Light Commerical/Indoor	**18 AWG**	**16 AWG**	**14 AWG**	**12 AWG**	**10 AWG**
ERE SGL SQ	78	125	198	315	501
ERE T SQ	39	62	99	157	250
ELMRE LP220L SGL	63	100	160	254	404
ELMRE LP220LT	36	57	90	143	228
ELMRE SP640L SGL	22	36	57	90	143
ELMRE SP640LT	12	19	30	48	77

**Assuming a Homerun Connection from battery source. Considered 5% of battery nominal voltage drop across total wire length, per NEC.*

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Voltage Drop Tables Continued

Catalog Description	Maximum from Battery Source(Ft)*				
	9.6V Battery System				
Wet Location/Outdoor	**18 AWG**	**16 AWG**	**14 AWG**	**12 AWG**	**10 AWG**
ERE SGL WP SQ	47	75	119	189	301
ERE T WP SQ	24	38	60	95	150
ELMRW LP220L SGL	65	105	175	275	435
ELMRW LP220LT	37	58	92	147	233
ELMRW SP640L SGL	23	35	58	90	145
ELMRW SP640LT	13	20	33	50	80
AFB OELR WT	52	82	130	207	330
AFF OELR WT	12	19	30	48	77
AFF OELR FCT	12	19	30	48	77
Light Commerical/Indoor	**18 AWG**	**16 AWG**	**14 AWG**	**12 AWG**	**10 AWG**
ERE SGL SQ	47	75	119	189	301
ERE T SQ	24	38	60	95	150
ELMRE LP220L SGL	65	105	175	275	435
ELMRE LP220LT	37	58	92	147	233
ELMRE SP640L SGL	23	35	58	90	145
ELMRE SP640LT	13	20	33	50	80
ELMRE SP1100L SGL	38	60	95	150	239
ELMRE SP1100LT	18	29	46	73	116
Light / Heavy Industrial	**18 AWG**	**16 AWG**	**14 AWG**	**12 AWG**	**10 AWG**
INDRE SP640L SGL	23	35	58	90	145
INDRE SP640LT	13	20	33	50	80
INDRE SP1100L SGL	38	60	95	150	239
INDRE SP1100LT	18	29	46	73	116
INDRE SP2200L SGL	11	18	28	45	71
INDRE SP2200LT	10	16	25	40	63
Heavy Industrial/Demanding	**18 AWG**	**16 AWG**	**14 AWG**	**12 AWG**	**10 AWG**
EXTLRE SP640L SGL	23	35	58	90	145
EXTLRE SP640LT	13	20	33	50	80
EXTLRE SP1100L SGL	38	60	95	150	239
EXTLRE SP1100LT	18	29	46	73	116
EXTLRE SP2200L SGL	11	18	28	45	71
EXTLRE SP2200LT	10	16	25	40	63

**Assuming a Homerun Connection from battery source. Considered 5% of battery nominal voltage drop across total wire length, per NEC.*

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Catalog Description	Maximum from Battery Source(Ft)*				
	12.8V Battery System				
Wet Location/Outdoor	**18 AWG**	**16 AWG**	**14 AWG**	**12 AWG**	**10 AWG**
ELMRW LP220L SGL	248	394	626	995	1582
ELMRW LP220LT	140	222	353	561	892
ELMRW SP640L SGL	88	139	222	353	561
ELMRW SP640LT	47	75	119	190	302
INDRE SP640L SGL	88	139	222	353	561
INDRE SP640LT	47	75	119	190	302
INDRE SP1100L SGL	56	89	141	224	357
INDRE SP1100LT	28	44	71	112	178
INDRE SP2200L SGL	26	41	65	103	164
INDRE SP2200LT	15	24	39	62	98
AFB OELR WT	120	191	304	484	769
AFF OELR WT	37	59	94	150	239
AFF OELR FCT	37	59	94	150	239
Light Commerical/Indoor	**18 AWG**	**16 AWG**	**14 AWG**	**12 AWG**	**10 AWG**
ELMRE LP220L SGL	248	394	626	995	1582
ELMRE LP220LT	140	222	353	561	892
ELMRE SP640L SGL	88	139	222	353	561
ELMRE SP640LT	47	75	119	190	302
ELMRE SP1100L SGL	56	89	141	224	357
ELMRE SP1100LT	28	44	71	112	178
Heavy Industrial/NEMA 4X	**18 AWG**	**16 AWG**	**14 AWG**	**12 AWG**	**10 AWG**
EXTLRE SP640L SGL	88	139	222	353	561
EXTLRE SP640LT	47	75	119	190	302
EXTLRE SP1100L SGL	56	89	141	224	357
EXTLRE SP1100LT	28	44	71	112	178
EXTLRE SP2200L SGL	26	41	65	103	164
EXTLRE SP2200LT	15	24	39	62	98

**Assuming a Homerun Connection from battery source. Considered 5% of battery nominal voltage drop across total wire length, per NEC.*

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Visit www.lithonia.com for more information

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