



# New and Existing Construction

## LBS5LEDA6L

## LBSQ5LEDA6L

LED Surface Mount  
600 Lumen Module  
Wet Location  
120V

DATE: \_\_\_\_\_ TYPE: \_\_\_\_\_

FIRM NAME: \_\_\_\_\_

PROJECT: \_\_\_\_\_



### APPLICATIONS:

LiteBox Surface Mount LED modules are designed for use in new construction or retrofit IC or non-IC applications. It can be installed onto a standard 4" J-box. Lumen output and distribution comparable to a 65 watt incandescent lamp while consuming only 13 watts of electricity. Energy Star qualified. Suitable for use with continuous room side temperatures up to 40°C (104°F).

### LIGHT ENGINE:

High efficacy LED light engine integrated with durable aluminum heat sink for excellent thermal management. 120V, 50/60Hz, powered directly to AC without the need for a driver. Output over-voltage, over-current, and short circuit protection. System designed for optimal life and lumen maintenance (42,000 hours at 70% lumen maintenance per TM-21).

### DIMMING:

Continuous dimming to 15% with many LED rated dimmer controls. (See Dimming Notes on pg 3 for recommended dimmers.)

### LENS/REFLECTOR:

All LiteBox LED modules are provided standard with a diffuse impact resistant polycarbonate lens for uniform illumination.

### INSTALLATION:

Installs onto a standard 4" J-Box.

### CERTIFICATIONS:

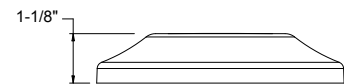
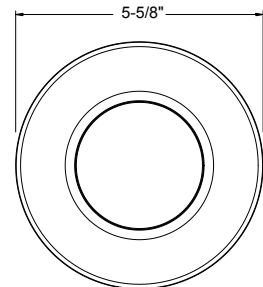
CSA certified to US and Canadian safety standards. ENERGY STAR qualified. Suitable for wet locations.

### WARRANTY:

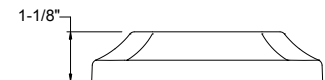
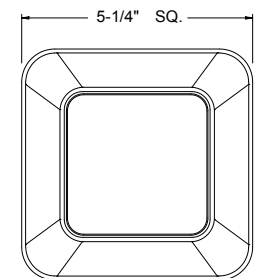
5 year warranty

See [www.prescolite.com](http://www.prescolite.com) for details.

5" Round LiteBox LED



5" Square LiteBox LED



CATALOG NUMBER

EXAMPLE: LBS5LEDA6L30K9 WH

TRIM	LED COLOR	CRI	TRIM COLOR
<input type="checkbox"/> LBS5LEDA6L 5" Round Surface Mount	<input type="checkbox"/> 30K 3000 Kelvin	<input type="checkbox"/> 9 90+ CRI	<input type="checkbox"/> WH White
<input type="checkbox"/> LBSQ5LEDA6L 5" Square Surface Mount			

# PHOTOMETRIC DATA

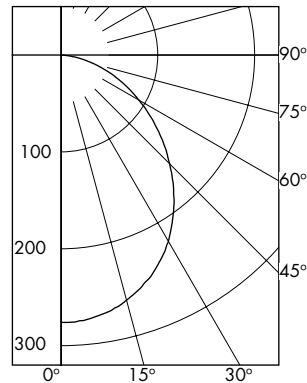
## LiteBox LED - Surface Mount LED Downlight Modules

ELECTRICAL DATA	LBS5LEDA6L	LBSQ5LEDA6L
Input Voltage	120V AC	120V AC
Input Frequency	50/60 Hz	50/60 Hz
Input Current	0.11A	0.09A
Input Power	12.7W	10.4W
Power Factor	>0.90	>0.90
THD	<20%	<20%
EMI Filtering	FCC 47CFR	FCC 47CFR
	Part 15, Class B	Part 15, Class B
Operating Temperature	-30°C to 40°C	-30°C to 40°C
Dimming	Yes*	Yes*
Over-voltage, over-current, short-circuit protected		
*See Dimming Notes for more information		

### LBSQ5LEDA6L30K9 WH

LED Light Engine: 3000K, 90 CRI  
 System Wattage: 10.4W  
 Fixture Delivered Lumens: 679  
 Fixture Efficacy: 65.4  
 Spacing Criteria: 1.2

Single Unit, Initial Footcandles, 30" Work Plane								Ceiling to Floor Height (ft)	Multiple Units, Initial Footcandles, 30" Work Plane			
Nadir		10°		20°		30°			Spacing is Maximum Over Work Plane, SMH= 1.2			
FC	Dia (ft)	FC	Dia (ft)	FC	Dia (ft)	FC	Dia (ft)		Fixture Spacing (ft)	RCR 2	RCR 5	RCR 7
23	21	1	17	3	12	4		6	4.0	35	25	21
9	9	2	7	4	5	6		8	7.0	14	10	8
4	4	3	3	6	2	9		10.5	10.0	7	5	4
3	3	3	2	7	2	11		12	11.0	5	3	3



CANDELA DISTRIBUTION		
DEG	CANDELA	CANDELA
0	276	
5	275	
15	262	
25	238	
35	202	
45	159	
55	115	
65	73	
75	36	
85	6	
90	0	

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXTURE
0-30	210	30.8
0-40	336	49.4
0-60	561	82.6
0-90	679	100.0

### COEFFICIENTS OF UTILIZATION

Room Cavity Ratio	% Effective Ceiling Cavity Reflectance									
	80%	70%	50%	30%						
	20% Effective Floor Cavity Reflectance									
	% Wall Reflectance									
	70	50	30	10	70	10	50	30	50	30
1	109	105	101	97	107	96	99	96	95	92
3	92	81	74	67	89	67	77	71	74	69
5	78	65	56	50	76	50	62	55	60	54
7	67	54	45	39	65	39	51	44	50	43
9	58	45	37	32	57	32	43	36	42	36
10	55	42	34	29	53	29	40	33	39	33

LBSQ5LEDA6L30K9 WH Test No. 15.01334

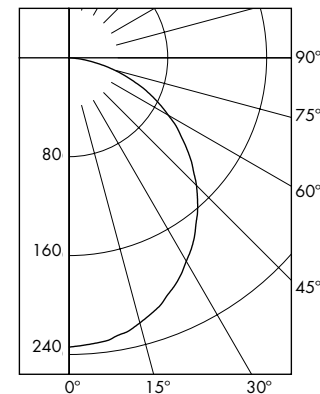
Test No. 15.01334

Tested at 25°C Ambient in accordance to IESNA LM-79-2008

### LBS5LEDA6L30K9 WH

LED Light Engine: 3000K, 92 CRI  
 System Wattage: 12.7  
 Fixture delivered lumens: 623  
 Fixture Efficacy: 48.9  
 Spacing Criteria: 1.2

Single Unit, Initial Footcandles, 30" Work Plane								Ceiling to Floor Height (ft)	Multiple Units, Initial Footcandles, 30" Work Plane			
Nadir		10°		20°		30°			Spacing is Maximum Over Work Plane, SMH= 1.2			
FC	Dia (ft)	FC	Dia (ft)	FC	Dia (ft)	FC	Dia (ft)		Fixture Spacing (ft)	RCR 2	RCR 5	RCR 7
19	18	1	14	3	10	4		6	4.0	32	23	18
8	7	2	6	4	4	6		8	7.0	13	9	7
4	3	3	3	6	2	9		10.5	10.0	6	4	4
3	2	3	2	7	1	11		12	11.0	4	3	2



CANDELA DISTRIBUTION		
DEG	CANDELA	CANDELA
0	234	
5	232	
15	222	
25	203	
35	177	
45	146	
45	111	
55	75	
65	38	
75	6	
90	0	

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0-30	178	28.6
0-40	289	46.3
0-60	501	80.4
0-90	623	100.0

### COEFFICIENTS OF UTILIZATION

Zonal Cavity Method

Room Cavity Ratio	% Effective Ceiling Cavity Reflectance									
	80%	70%	50%	30%						
	20% Effective Floor Cavity Reflectance									
	% Wall Reflectance									
	70	50	30	10	70	10	50	30	50	30
1	109	104	100	97	106	95	98	95	94	92
3	91	80	72	66	88	65	76	69	73	67
5	76	64	55	48	74	48	60	53	58	52
7	66	52	43	37	64	37	50	42	48	42
9	57	44	36	30	56	30	42	35	41	34

LBS5LEDA6L30K9 WH Test No. 15.00666 70030959

Test No. 15.00666 70030959

Tested at 25°C Ambient in accordance to IESNA LM-79-2008

### NOTES

Refer to [www.prescolite.com](http://www.prescolite.com) for additional photometric tests (IES Files).



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# PHOTOMETRIC DATA

## LiteBox LED - Surface Mount LED Downlight Modules

### Central Inverters

For full fixture output in back-up mode, we recommend you visit [www.dual-lite.com](http://www.dual-lite.com) for your Central Lighting Inverter options. Please contact your local Hubbell representative for any assistance with proper sizing and loading of your inverter selection. Central lighting inverters must be ordered separately.

**LiteGear:** [www.dual-lite.com/products/litegear\\_lg\\_series](http://www.dual-lite.com/products/litegear_lg_series)

**LPS Series:** [www.dual-lite.com/products/lps](http://www.dual-lite.com/products/lps)

### DIMMING NOTES:

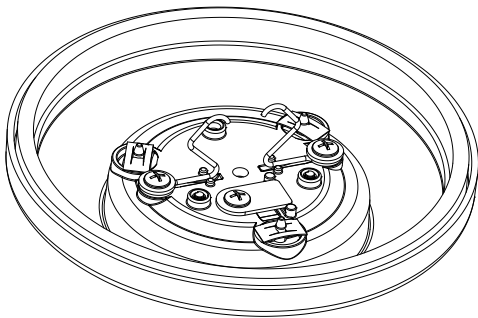
Surface Mount LED modules are designed to be compatible with many dimmer controls. Electronic low-voltage rated dimmer controls may offer favorable dimming performance. Incandescent type dimmers are not recommended. The following is a list of known compatible dimmer controls:

Manufacturer	Series	Part Number
Lutron	Diva Series	DVELV-300
Lutron	Maestro Series	MAELV-600
Lutron	Nova T Series	NTELV-300
Lutron	Spacer Series	SPSELV-600
Lutron	Vierti Series	VTELV-600
Leviton	Renoir II	AWRMG-EAW
Leviton	Sure Slide	6615P

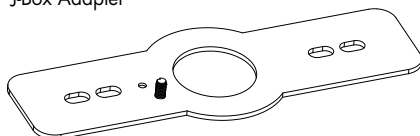
Dimming capabilities will vary depending on the dimmer control, load, and circuit installation. Always refer to dimmer manufacturer instructions or a controls specialist for specific requirements.

Dimmer control brand names where identified above are tradenames or registered trademarks of each respective company.

J-Box Mount with quick link



J-Box Adapter



### NOTES

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