prescolite

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

LBRST-RD (120-347V)

STANDARD CANLESS DIRECT INSTALL DOWNLIGHT

LITEBOX® standard

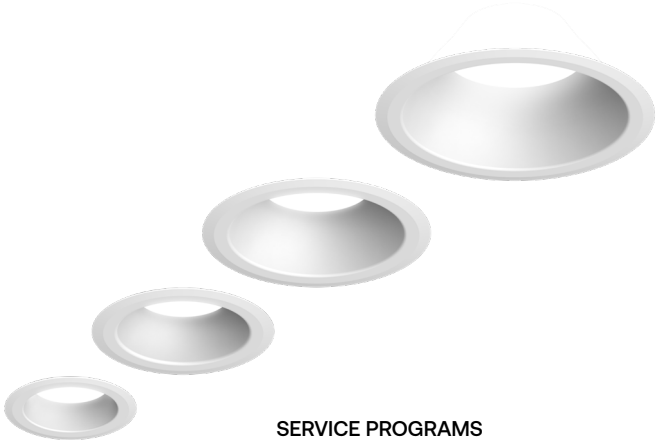
FEATURES

- 4", 6", 8" and 10" apertures, delivering 850 to 6000 lumens
- Switchable Lumen and CCT
- Switchable CCT (27/30/35/40/50K)
- New construction housing accessories available
- Universal 120–347V with Tri-Dimming (0–10V/TRIAC/ELV)
- Long Life L80 > 54,000 hrs (TM-21)
- Five year warranty

ENERGY STAR | WET LOCATION | C SP US | AT Air Tight | IC

4" model only

SWITCHABLE LUMEN | SWITCHABLE CCT



SERVICE PROGRAMS

tradeSELECT®

SPECIFICATIONS

CONSTRUCTION

- Canless direct install New Construction or Remodel, Non-IC. 4" model is IC rated
- Non-conductive "Dead Front" snap-in trims available
- Single piece luminaire allowing for quick, simple and tool-less install

OPTICS

- Decorative snap-in trims, available in white, black and silver
- Polycarbonate lensed optic, suitable for wet location, covered ceiling applications

ELECTRICAL

- LED array with 3 SDCM color consistency
- Long LED life: Maintain 80% of lumen output at >54,000 hours of operation (L80 at 54,000hr TM-21)
- Switchable CCT (2700K, 3000K, 3500K, 4000K, 5000K)
- 90 CRI+ with R9 >50
- Switchable Lumen: 4" (850/1200/1650lm); 6" (1400/1750/2700lm); 8" (3300/4300/4800lm); 10" (4000/5000/6000lm)
- Operating Temperature Range: -20°C to 25°C (standard models) 0° to 25°C (-EMR models with LDEMBBKIT)
- Integral universal voltage (120–347V) driver, 50/60Hz 0–10V Dim to 5%, ELV/Triac Phase Dimming to 10%
- Tri-Dimming: 0–10V to 5% and ELV/Triac Phase dimming to 10%

ELECTRICAL (CONTINUED)

- See Additional Information section for a list of recommended dimmers
- Meets Class A (<24dba) noise rating
- FCC CFR 47 Part 15 Class B
- ≥ 0.9 Power Factor, <20% THD
- 120–277V Operation:
  - Supports both Standard (non EM) and Emergency (EM) installations
  - LDEMBBKIT field installable kit is required for emergency functionality
  - The LDEMBBKIT is not required for standard (non EM) installations
  - For detailed wiring instructions, refer to installation guide
- 347V Operation:
  - Does not support emergency (EM) operation
  - Not compatible with the LDEMBBKIT or any emergency accessory kit
- For more details and recommended dimmer list, see Dimming Compatibility Information on currentlighting.com/prescolite

INSTALLATION

- Robust trim mounting springs hold fixture firmly against ceiling surface
- Accommodates ceiling thicknesses up to 1" (for 6", 8", and 10"); ¾" (for 4")
- Fixture installs below the ceiling without a housing

INSTALLATION (CONTINUED)

- Optional new construction mounting pans with bar hangers available
- Switchable CCT: Field select CCT at installation with an integral switch on fixture module
- Switchable Lumen: Field select lumen output at installation with an integral switch of fixture module

CERTIFICATIONS

- CSA listed to UL1598
- 4" model is IC rated; 6", 8", and 10" models are Non-IC rated.
- Certified Air Tight per ASTM E283
- Suitable for wet locations, covered ceilings

WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	850–6000
Wattage Range	9–49
Efficacy Range (LPW)	75–103
Reported Life (Hours)	L80 > 54,000
Input Current (mA)	71–308 (120V)
Beam Angle	4"/6" (85°), 8" (90°), 10" (95°)

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LBRST-RD (120-347V)

STANDARD CANLESS DIRECT INSTALL DOWNLIGHT

DATE: | LOCATION:

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CATALOG #:

tradeSELECT®

ORDERING GUIDE

Example: LBRST3–6RDML–CS9

CATALOG# | | – | | – | | – | CS9

FIXTURE MODULE / TRIM

LBRST3							CS9
Family		**Aperture/Shape/Function**		**Nominal Lumen Range** [1]			**CCT/CRI** [1]
LBRST3	LiteBox® Standard	**4RD**	4" Round	**SL**	850/ 1250/**1650** lumens (4" only)		**CS9** Switchable CCT (2700/3000/**3500**/4000/5000K), 90CRI
		6RD	6" Round	**ML**	1400/ 1750/**2700** lumens (6" only)		
		8RD	8" Round	**HL**	3300/ 4300/**4800** lumens (8" only)		
		10RD	10" Round	**VL**	4000/5000/**6000** lumens (10" only)		

Accessories (Order separately)

Color Trim Accessories

☐ **LBRST-4RD-T-BL**	Trim Accessory, 4" Round, Black
☐ **LBRST-4RD-T-SVR**	Trim Accessory, 4" Round, Silver
☐ **LBRST-4RD-T-WH**	Trim Accessory, 4" Round, White
☐ **LBRST-6RD-T-BL**	Trim Accessory, 6" Round, Black
☐ **LBRST-6RD-T-SVR**	Trim Accessory, 6" Round, Silver
☐ **LBRST-6RD-T-WH**	Trim Accessory, 6" Round, White
☐ **LBRST-8RD-T-BL**	Trim Accessory, 8" Round, Black
☐ **LBRST-8RD-T-SVR**	Trim Accessory, 8" Round, Silver
☐ **LBRST-8RD-T-WH**	Trim Accessory, 8" Round, White

Housing Accessories

☐ **FRAME4R-HB**	4" Round new construction housing
☐ **FRAME6R-HB**	6" Round new construction housing
☐ **FRAME8-HB**	8" Round combination new construction housing
☐ **FRAME10R**	10" Round new construction housing
☐ **J-BOX**	New construction housing compatible junction box [2]
☐ **DLP3-QDJBA**	Junction box quick connect kit
☐ **LDEMBBKIT**	Emergency Battery (CEC T20 compliant) Kit, remote test switch [3]

Notes:

1 Factory default setting in bold

2 Junction box is not required but available as needed to meet local electrical codes.

3 347V option dims to 5% and is not compatible with emergency battery kit.

ROUND

	White	Silver	Black
			
4"	BG1669900 LBRST-4RD-T-WH	BG1668700 LBRST-4RD-T-SVR	BG1668600 LBRST-4RD-T-BL
6"	BG1670000 LBRST-6RD-T-WH	BG1668900 LBRST-6RD-T-SVR	BG1668800 LBRST-6RD-T-BL
8"	BG1670100 LBRST-8RD-T-WH	BG1669100 LBRST-8RD-T-SVR	BG1669000 LBRST-8RD-T-BL

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LBRST-RD (120-347V)

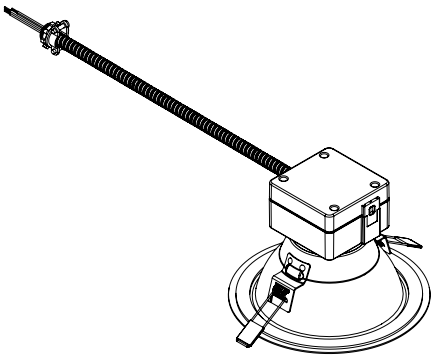
STANDARD CANLESS DIRECT INSTALL DOWNLIGHT

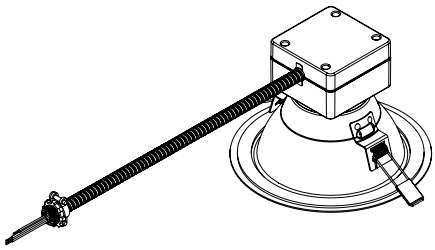
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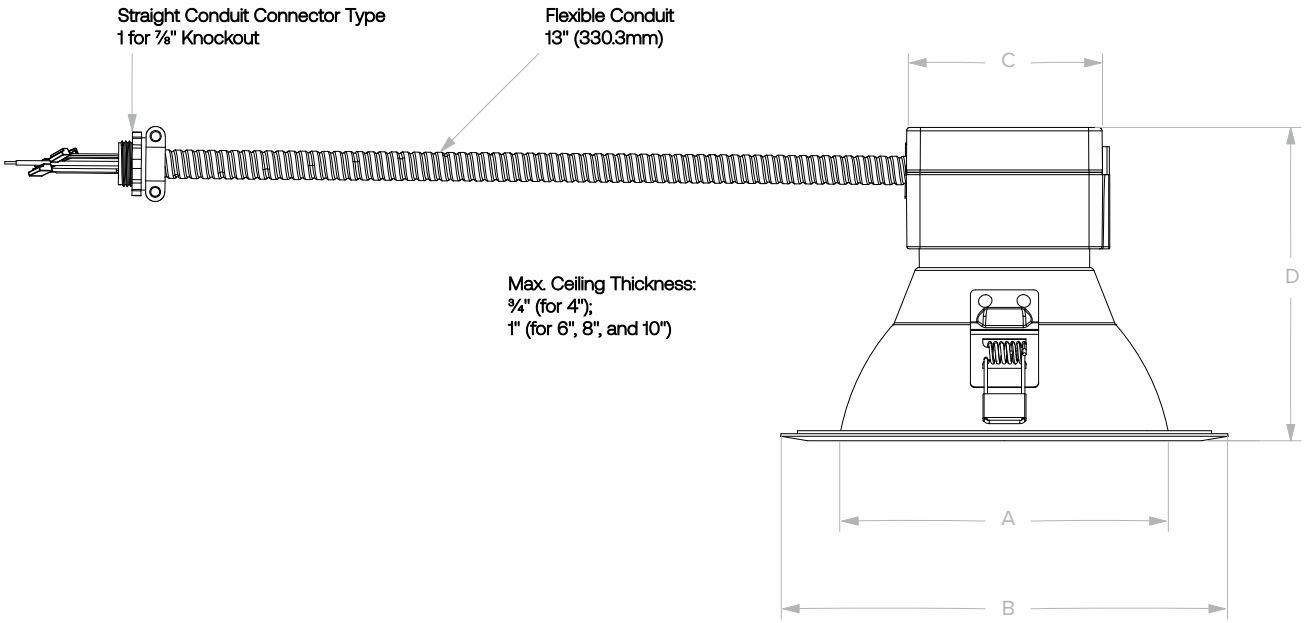
TYPE: PROJECT:

CATALOG #:

DIMENSIONS







Aperture	Ceiling Cutout Min.–Max.
4"	4.7" ~ 5.0" (119.4mm ~ 127.0mm)
6"	6.0" ~ 6.7" (152.4mm ~ 170.2mm)
8"	7.8" ~ 8.8" (198.1mm ~ 223.5mm)
10"	9.8" ~ 10.8" (248.9mm ~ 274.3mm)

Nominal Aperture	"A" Aperture Diameter	"B" Overall Trim Diameter	"C" Overall Module Heat Sink	"D" Overall Height (Assembled)
4"	3.98" (101.2mm)	5.60" (142.3mm)	3.40" (86.4mm)	4.68" (118.8mm)
6"	5.59" (141.9mm)	7.75" (196.8mm)	3.40" (86.4mm)	5.43" (137.8mm)
8"	7.43" (188.6mm)	9.75" (247.6mm)	3.40" (86.4mm)	6.02" (152.8mm)
10"	9.90" (251.5mm)	12.0" (305mm)	3.40" (86.4mm)	6.81" (173.1mm)

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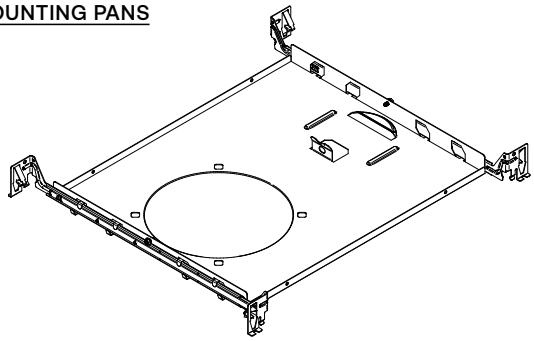
LBRST-RD (120-347V)

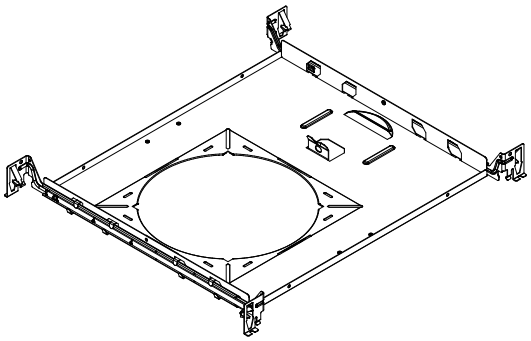
STANDARD CANLESS DIRECT INSTALL DOWNLIGHT

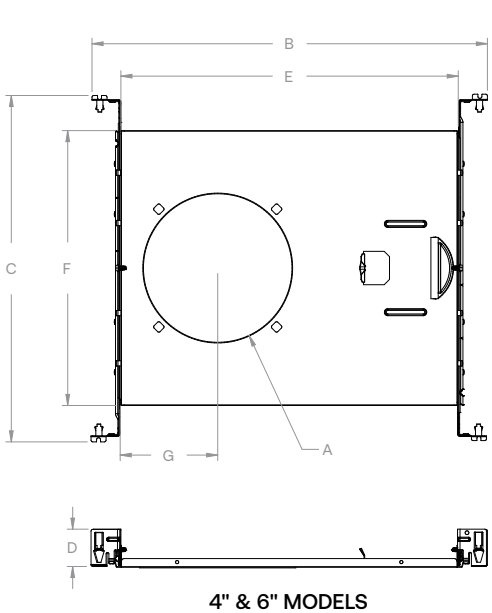
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TYPE:	PROJECT:
CATALOG #:	

DIMENSIONS (CONTINUED)

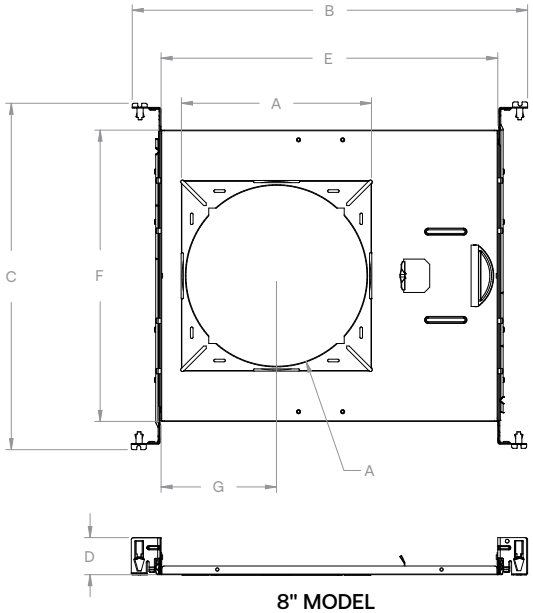
MOUNTING PANS







4" & 6" MODELS



8" MODEL

For 4" & 6" Models:

Catalog Number	"A" Aperture Opening	"B" Overall Length	"C" Overall Width	"D" Height	"E" Pan Length	"F" Pan Width	"G" Aperture Center
FRAME4R-HB	Ø 4.94" (125.5mm)	17.65" (448.3mm)	14.57" (370.1mm)	1.68" (42.7mm)	15.03" (381.8mm)	12.28" (311.9mm)	4.32" (109.7mm)
FRAME6R-HB	Ø 6.64" (168.7mm)						

For 8" Model:

Catalog Number	"A" Aperture Opening	"B" Overall Length	"C" Overall Width	"D" Height	"E" Pan Length	"F" Pan Width	"G" Aperture Center
FRAME8-HB	Ø 8.07" (205mm)	17.65" (448.3mm)	14.57" (370.1mm)	1.68" (42.7mm)	15.03" (381.8mm)	12.99" (329.9mm)	5.14" (130.6mm)

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LBRST-RD (120-347V)

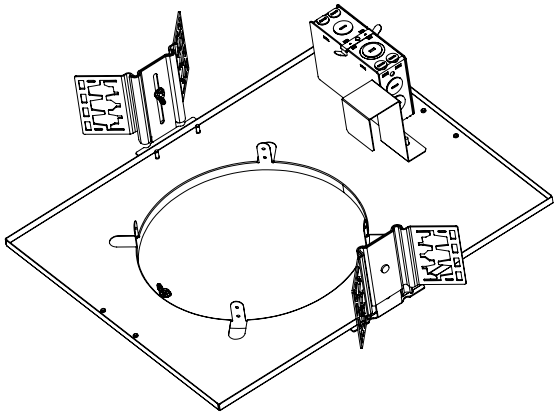
STANDARD CANLESS DIRECT INSTALL DOWNLIGHT

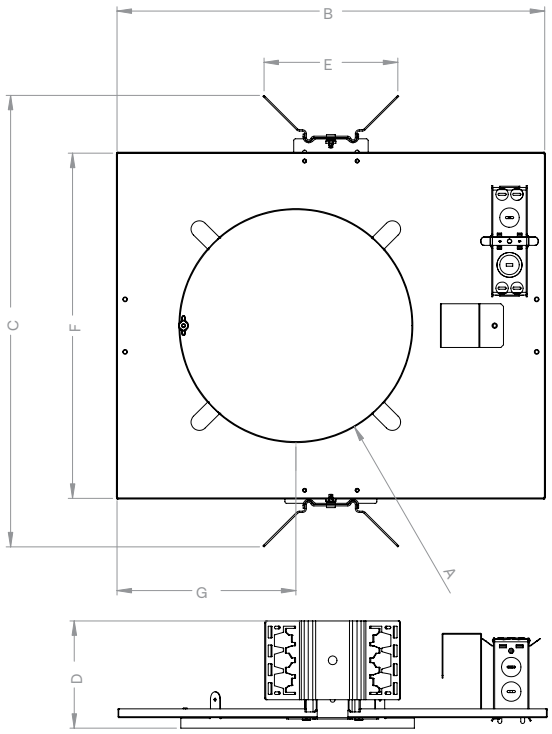
DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

DIMENSIONS (CONTINUED)





10" MODEL

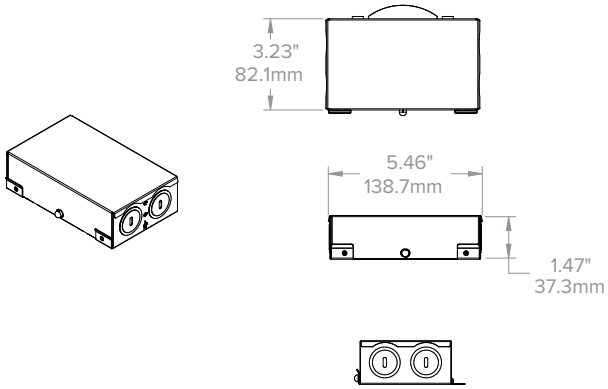
For 10" Model:

Catalog Number	"A" Aperture Opening	"B" Overall Length	"C" Overall Width	"D" Height	"E" Mounting Bar Bracket	"F" Pan Width	"G" Aperture Center
FRAME10R	Ø 10.43" (265mm)	19.29" (490mm)	19.89" (505.3mm)	4.82" (122.5mm)	6.10" (155mm)	15.59" (396mm)	8.07" (205mm)

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DIMENSIONS (CONTINUED)

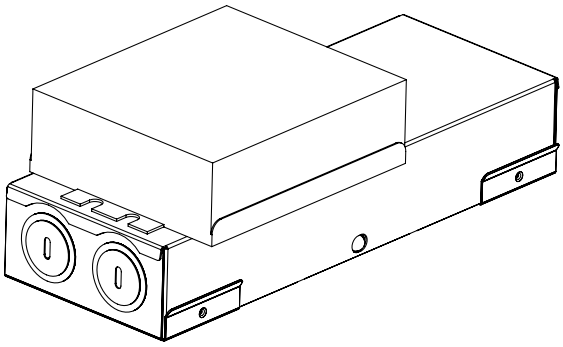
SNAP-IN JUNCTION BOX ACCESSORY



Snap-In Junction Box Accessory (J-BOX)

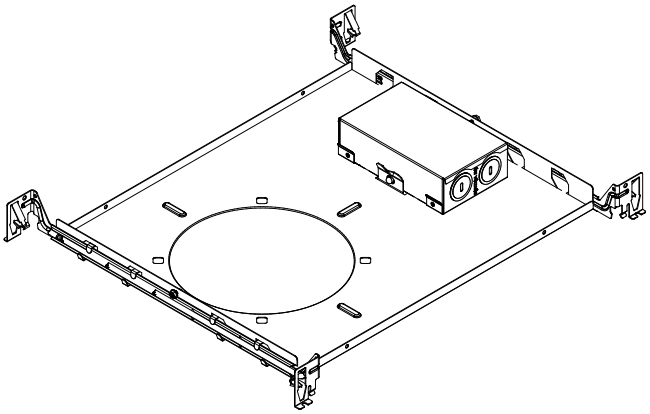
(Optional if needed or required per local code)

EMERGENCY BATTERY BACKUP KIT ACCESSORY



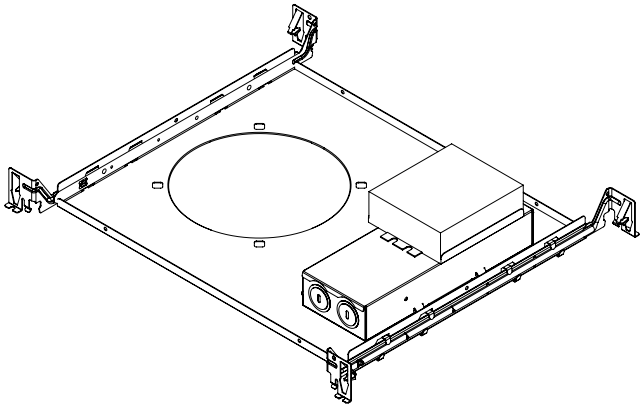
Emergency Battery Backup Accessory Kit (LDEMBBKIT)

Overall dimensions:
8.81" (223.8mm) L x 3.74" (95.0 mm) W x 2.86" (72.6mm) H



Frame and Junction Box Example

FRAME6R-HB and J-BOX
(ordered separately)



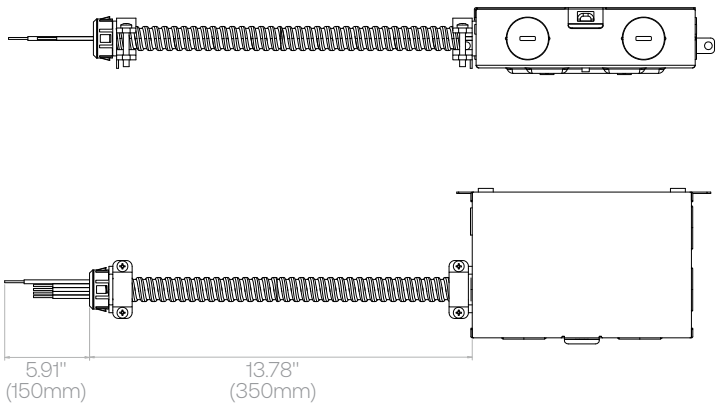
Emergency Battery Backup and Frame Example

FRAME6R-HB and LDEMBBKIT
(ordered separately)

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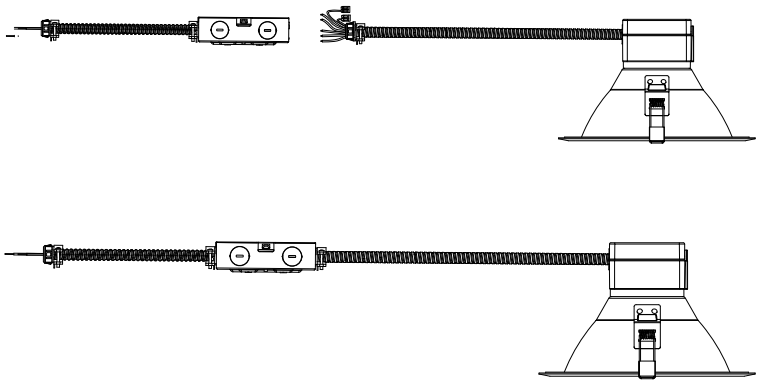
DIMENSIONS (CONTINUED)

JUNCTION BOX QUICK CONNECT KIT



Junction Box Quick Connect Kit (DLP3-QDJBA)

(Optional, ordered separately)



Junction Box Quick Connect Example

DLP3-QDJBA

(ordered separately, see installation guide for more information)

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LBRST-RD (120-347V)

STANDARD CANLESS DIRECT INSTALL DOWNLIGHT

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TYPE: PROJECT:

CATALOG #:

PERFORMANCE DATA TABLE

Nominal Aperture	Switchable Lumen Setting	Nominal Lumens	CCT	CRI	Delivered Lumens	Watts	LPW
4"	Low	850	27K	90	819	8.8W	94
			30K		831	8.8W	95
			35K		844	8.8W	96
			40K		857	8.8W	98
			50K		871	8.7W	100
	Med	1250	27K		1209	13.5W	89
			30K		1233	13.6W	91
			35K		1252	13.6W	92
			40K		1276	13.6W	94
			50K		1290	13.6W	95
	High	1650	27K		1581	18.8W	84
			30K		1612	18.8W	86
			35K		1639	18.9W	87
			40K		1668	18.9W	88
			50K		1705	19.1W	89
6"	Low	1400	27K		1405	14.4W	98
			30K		1426	14.4W	99
			35K		1451	14.4W	101
			40K		1479	14.4W	103
			50K		1512	14.3W	105
	Med	1750	27K		1755	18.6W	94
			30K		1787	18.6W	96
			35K		1819	18.7W	98
			40K		1855	18.7W	99
			50K		1898	18.7W	101
	High	2700	27K		2637	30.8W	86
			30K		2682	30.7W	87
			35K		2720	30.7W	89
			40K		2765	30.7W	90
			50K		2773	30.8W	90

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LBRST-RD (120-347V)

STANDARD CANLESS DIRECT INSTALL DOWNLIGHT

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

PERFORMANCE DATA TABLE (CONTINUED)

Nominal Aperture	Switchable Lumen Setting	Nominal Lumens	CCT	CRI	Delivered Lumens	Watts	LPW
8"	Low	3300	27K	90	3414	31.4W	109
			30K		3428	31.3W	110
			35K		3457	31.2W	111
			40K		3475	31.2W	112
			50K		3496	31.1W	113
	Med	4300	27K		4364	42.7W	102
			30K		4408	42.8W	103
			35K		4456	42.9W	104
			40K		4526	43.1W	105
			50K		4560	43.2W	106
	High	4800	27K		4746	47.8W	99
			30K		4776	47.7W	100
			35K		4805	47.5W	101
			40K		4829	47.4W	102
			50K		4901	48.1W	102
10"	Low	4000	27K		4038	37.0W	109
			30K		4176	36.8W	113
			35K		4406	36.2W	122
			40K		4567	36.3W	126
			50K		4595	37.1W	124
	Med	5000	27K		4900	46.1W	106
			30K		5067	45.8W	111
			35K		5346	45.1W	119
			40K		5547	45.2W	123
			50K		5575	46.2W	121
	High	6000	27K		5615	55.7W	101
			30K		5810	55.3W	105
			35K		6129	54.4W	113
			40K		6356	54.5W	117
			50K		6388	55.8W	115

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LBRST-RD (120-347V)

STANDARD CANLESS DIRECT INSTALL DOWNLIGHT

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CATALOG #:

PHOTOMETRY

LBRST3-4RDSL-CS9

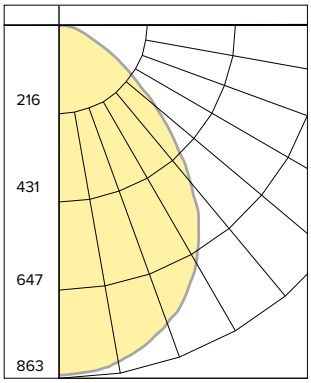
LUMINAIRE DATA

Test No	STD241126NB-A-R01
Description	4" LBRST3, High Lumen @ 3000K
Delivered Lumens	1667
Watts	16.8W
Efficacy	99
Mounting	Recessed
Spacing Criterion	1.18

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1008	60.5
0–60	1501	90.0
0–90	1665	99.9
0–180	1667	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	857
5	852
15	806
25	720
35	564
45	375
55	203
65	96
75	44
85	11

LUMINANCE DATA*

Vertical Angle	Average
45°	109578
55°	72772
65°	45850
75°	34106
85°	26467

*Candela/Square Meter

LBRST3-6RDML-CS9

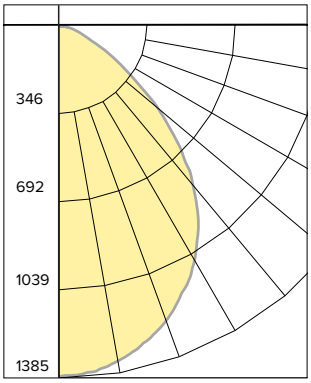
LUMINAIRE DATA

Test No	STD241126NB-B-R01
Description	6" LBRST, High Lumen @ 3000K
Delivered Lumens	2724
Watts	28.3W
Efficacy	96
Mounting	Recessed
Spacing Criterion	1.18

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1630	59.8
0–60	2450	91.1
0–90	2721	99.9
0–180	2724	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1377
5	1365
15	1292
25	1155
35	962
45	673
55	360
65	139
75	65
85	17

LUMINANCE DATA*

Vertical Angle	Average
45°	120687
55°	80681
65°	41790
75°	31850
85°	24153

*Candela/Square Meter

LBRST3-8RDHL-CS9

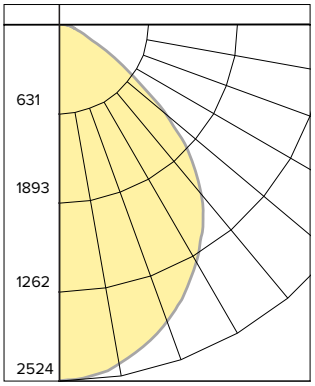
LUMINAIRE DATA

Test No	STD241126NB-C-R01
Description	8" LBRST, High Lumen @ 3000K
Delivered Lumens	4908
Watts	46.5W
Efficacy	106
Mounting	Recessed
Spacing Criterion	1.16

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	2962	60.4
0–60	4537	92.4
0–90	4904	99.9
0–180	4908	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	2506
5	2488
15	2336
25	2070
35	1742
45	1260
55	622
65	215
75	96
85	25

LUMINANCE DATA*

Vertical Angle	Average
45°	161113
55°	97575
65°	47142
75°	33817
85°	27005

*Candela/Square Meter

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PHOTOMETRY (CONTINUED)

LBRST3-10RDVL-CS9

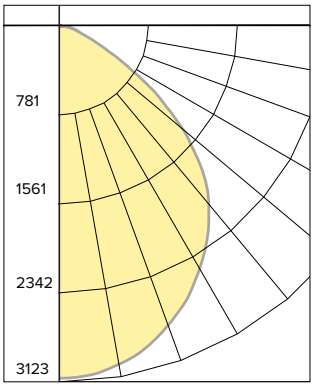
LUMINAIRE DATA

Test No	STD241126NB-D-R01
Description	10" LBRST, High Lumen @ 3000K
Delivered Lumens	6478
Watts	56.5W
Efficacy	115
Mounting	Recessed
Spacing Criterion	1.2

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	3732	57.6
0–60	5950	91.9
0–90	6471	99.9
0–180	6478	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	3089
5	3070
15	2930
25	2624
35	2258
45	1740
55	992
65	316
75	134
85	34

LUMINANCE DATA*

Vertical Angle	Average
45°	139022
55°	96433
65°	42646
75°	29519
85°	25201

*Candela/Square Meter

LUMEN MULTIPLIER

Option	27K, 90 CRI	30K, 90 CRI	35K, 90 CRI	40K, 90 CRI	50K, 90 CRI
Multiplier	0.99	1.00	1.01	1.08	1.03

Photometrics above are published at nominal 3000K, 90 CRI. This table may be used to approximate the lumen values at different Kelvin temperature settings. Power consumption remains the same.

ADDITIONAL INFORMATION

DIMMING COMPATIBILITY

For more details and recommended dimmer list, see Dimming Compatibility Information on currentlighting.com/prescolite.

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