prescolite

LBRST-RD
LIGHT COMMERCIAL DOWNLIGHT

LITEBOX® standard

FEATURES

- 4", 6" and 8" apertures
- Switchable lumen output
- Switchable CCT (27/30/35/40/50K)
- New construction housing accessories available
- Universal 120–277V with Tri-Dimming (0–10V/TRIAC/ELV)
- Long Life L80 at >54,000 hrs (TM-21)
- Five year warranty

*(4" only)

SERVICE PROGRAMS

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SPECIFICATIONS

CONSTRUCTION
- Canless New Construction, Remodel, or Retrofit, Non-IC. Select IC models available.
- Single piece luminaire allowing for quick, simple and tool-less install
- Color trim accessories available in White, Black and Silver offer dead front properties

OPTICS
- Polycarbonate lensed optic, suitable for wet location, covered ceiling applications

ELECTRICAL
- LED array with 3 SDCM color consistency
- Maintains 80% of lumen output at >54,000 hours of operation (L80 at 54,000hrs TM-21)
- Switchable CCT (2700K, 3000K, 3500K, 4000K, 5000K)
- 90 CRI+ with R9 >50
- Switchable Lumen: 4" (750/1100/1500lm); 6" (1100/1500/2500lm); 8" (3000/4000/4600lm)
- High efficiency integral driver with universal 120-277V, 50/60Hz

ELECTRICAL (CONTINUED)
- Tri-Dimming: 0–10V to 1% and ELV/Triac Phase dimming to 5%
- 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

INSTALLATION
- Robust trim mounting springs hold fixture firmly against ceiling surface
- Accommodates ceiling thicknesses up to 1" (for 6" and 8"); ¾" (for 4")
- Fixture installs below the ceiling without a housing
- Optional new construction mounting pans with bar hangers available
- Field select CCT at installation with an integral switch on fixture module
- Field select lumen output at installation with an integral switch of fixture module

CERTIFICATIONS
- cETLus listed to UL1598
- 4" models: Can be used in direct contact with insulation
- Certified Air Tight per ASTM E283
- 4" models: Meet CA Title 24 High Efficacy (JA8-2019) requirements
- Suitable for wet locations, covered ceilings
- Emergency battery packs are California Energy Commission (CEC) Title 20 Compliant

WARRANTY
- 5 year warranty

KEY DATA	
Lumen Range	750–4600
Wattage Range	9–49
Efficacy Range (LPW)	76–106
Reported Life (Hours)	L80 @ >54,000

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ORDERING GUIDE

Example: LBRST-4RD-M-LSSL-CS9-WH

CATALOG #

FIXTURE MODULE / TRIM

LBRST	–			M		LS		–
Family		**Aperture/Shape/Function**		**Model/Type**		**Switchable Technology**	**Nominal Lumen Range [1]**	
LBRST LiteBox® Standard		**4RD** 4" Round		**M** Fixture Module/Trim, Round Direct Install, 120–277V with Tri-Dimming 0–10V to 1% and ELV/Triac Phase to 5%		**LS** Switchable Lumen	**SL** 750/1100/**1500** lumens (4" only)	
		6RD 6" Round					**ML** 1100/1500/**2500** lumens (6" only)	
		8RD 8" Round					**HL** 3000/4000/**4600** lumens (8" only)	

CS9		–	WH		–		
CCT/CRI [1]			**Reflector Finish/Color**			**Option**	
CS9 Switchable CCT (2700/3000/**3500**/4000/5000K), 90CRI			**WH** White			*Standard without EMR capability*	
						EMR Emergency Battery Backup Ready [2,3]	

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 & square combination new construction housing [4]
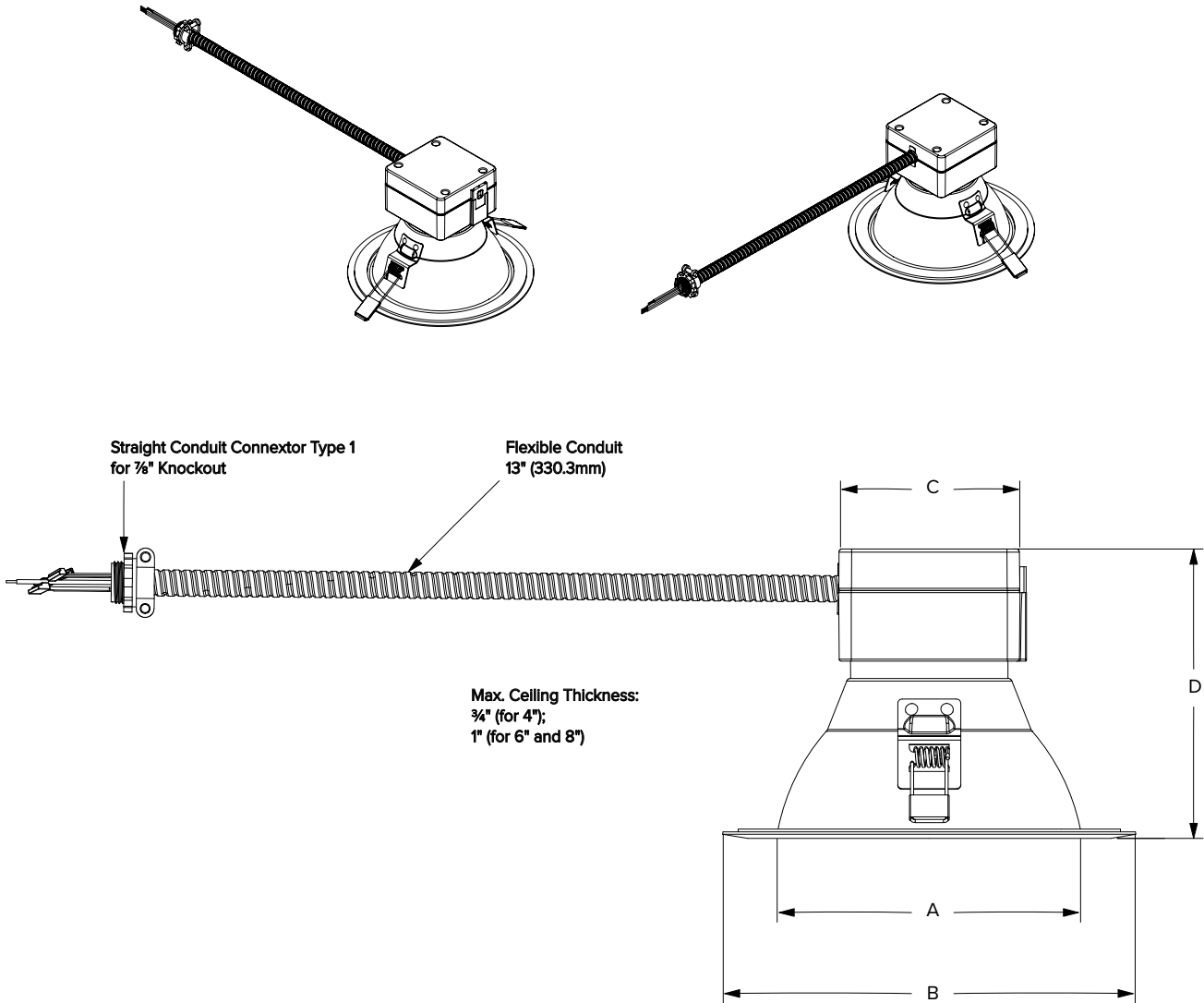☐ **J-BOX**   New construction housing compatible junction box [5]

Emergency Backup Kit

☐ **LDEMBBKIT**   Emergency Battery (CEC T20 compliant) Kit, remote test switch [2,3]

Notes:
1. Factory default setting in bold
2. Emergency Battery Backup fixture requires -EMR Module/Trim Option and Emergency Battery Backup kit.
3. EMR Ready module option must be ordered with LDEMBBKIT.
4. Housing comes ready for round trims as shown.
5. Junction box is not required but available as needed to meet local electrical codes.

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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

LBRST-RD
LIGHT COMMERCIAL DOWNLIGHT

DIMENSIONS

Straight Conduit Connextor Type 1 for ⅞" Knockout

Flexible Conduit 13" (330.3mm)

Max. Ceiling Thickness:
¾" (for 4");
1" (for 6" and 8")

C

D

A

B

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)

| Nominal Aperture	A Aperture Diameter	B Overall Trim Diameter	C Overall Module Heat Sink	D Overall Height (Assembled)
4"	3.98" (101.2mm)	5.6" (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)

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LIGHT COMMERCIAL DOWNLIGHT

DIMENSIONS (CONTINUED)

MOUNTING PANS
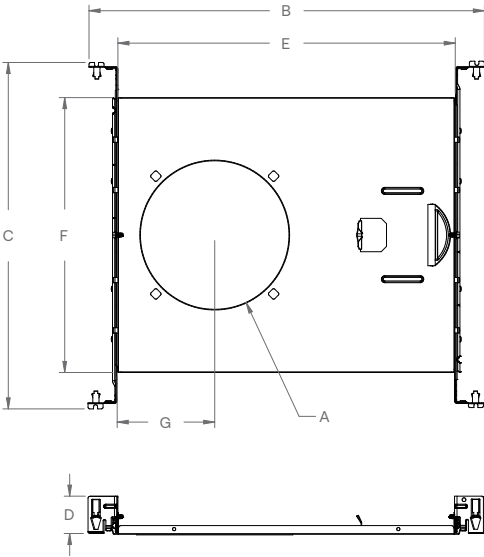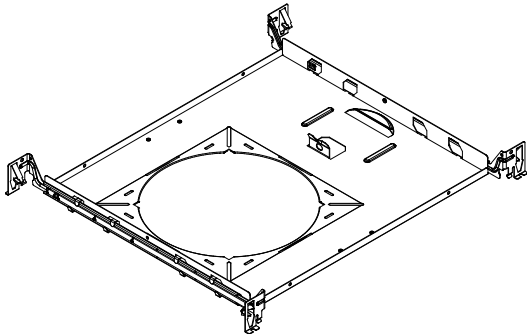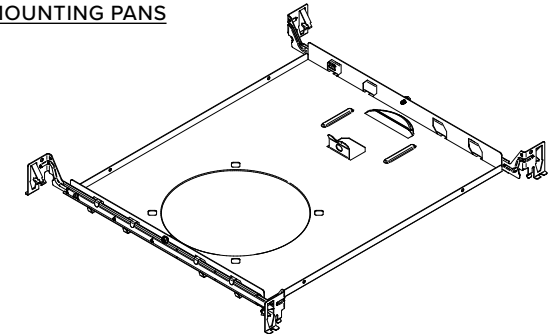
4" & 6" MODELS
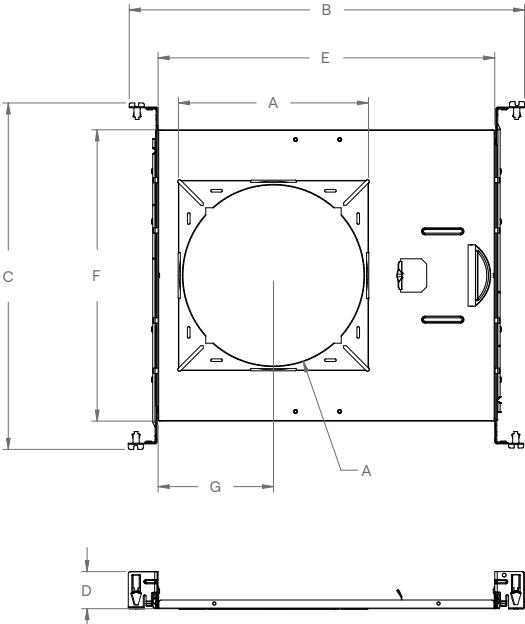
8" MODEL

For 4" & 6" Models:

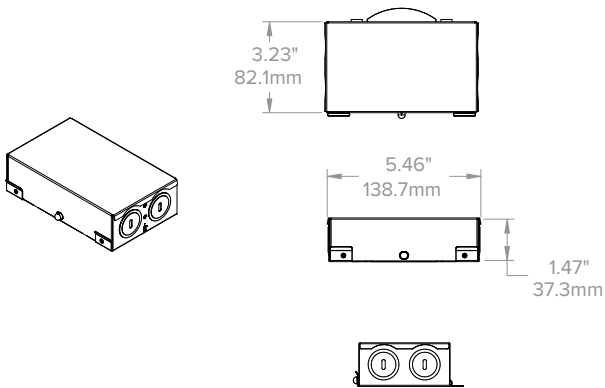| Catalog Number	"A" Aperture Opening	"B" Overall Length	"C" Overall Width	"D" Height	"E" Pan Length	"F" Pan Width	"G" Aperture Center
FRAME4R-HB	Ø 4.94" (125.5mm)	17.65" (448.3mm)	14.57" (370.1mm)	1.68" (42.7mm)	15.03" (381.8mm)	12.28" (311.9mm)	4.32" (109.7mm)
FRAME6R-HB	Ø 6.64" (168.7mm)						

For 8" Model:

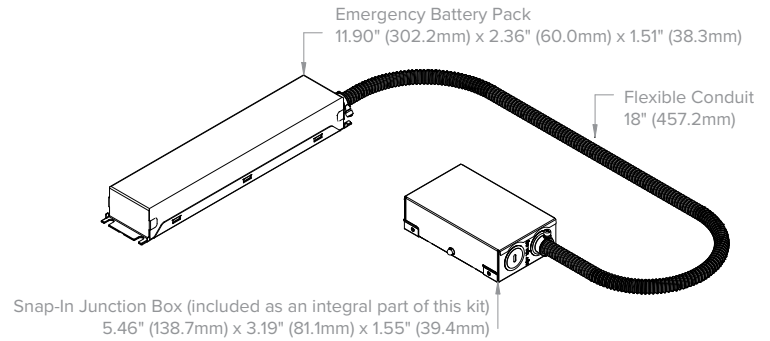| Catalog Number	"A" Aperture Opening	"B" Overall Length	"C" Overall Width	"D" Height	"E" Pan Length	"F" Pan Width	"G" Aperture Center
FRAME8-HB	Ø 8.07" (205mm)	17.65" (448.3mm)	14.57" (370.1mm)	1.68" (42.7mm)	15.03" (381.8mm)	12.99" (329.9mm)	5.14" (130.6mm)

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DIMENSIONS (CONTINUED)

SNAP-IN JUNCTION BOX ACCESSORY

3.23"
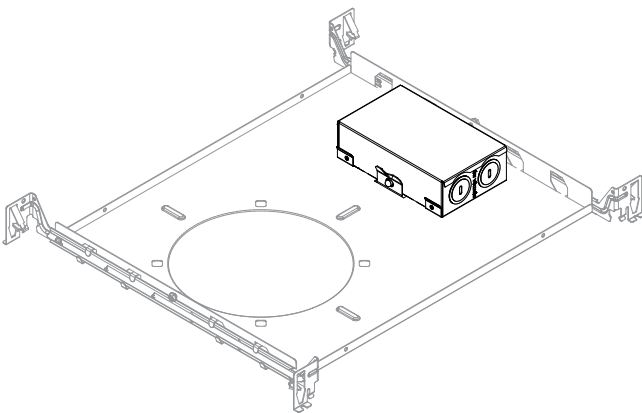82.1mm

5.46"
138.7mm

1.47"
37.3mm

Snap-In Junction Box Accessory (J-BOX)

Optional if needed or required per local code

EMERGENCY BATTERY BACKUP KIT ACCESSORY

Emergency Battery Pack
11.90" (302.2mm) x 2.36" (60.0mm) x 1.51" (38.3mm)

Flexible Conduit
18" (457.2mm)

Snap-In Junction Box (included as an integral part of this kit)
5.46" (138.7mm) x 3.19" (81.1mm) x 1.55" (39.4mm)

Emergency Battery Backup Accessory Kit (LDEMBBKIT)

Frame and Junction Box Example

FRAME6R-HB and J-BOX
(ordered separately)
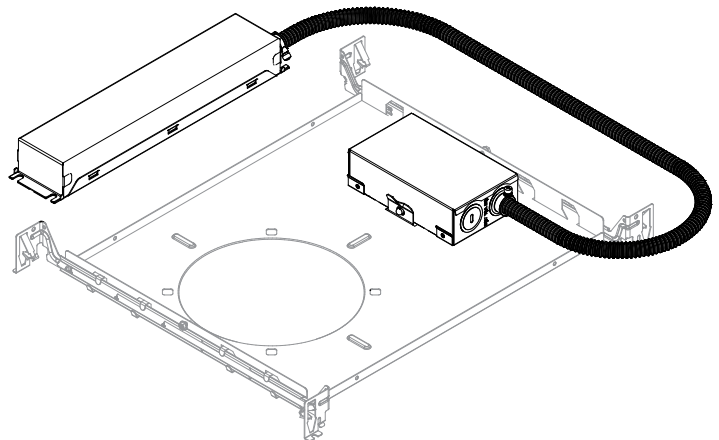
Emergency Battery Backup and Frame Example

FRAME6R-HB and LDEMBBKIT
(ordered separately)

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DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

PERFORMANCE DATA TABLE

Nominal Aperture	Switchable Lumen Setting	Nominal Lumens	Cat #	CCT	CRI	Delivered Lumens	Watts	LPW
4"	Low	750	LBRST-4RD-M-LSSL-CS9-WH	27K		773	8.8W	88
			LBRST-4RD-M-LSSL-CS9-WH	30K		780	8.8W	89
			LBRST-4RD-M-LSSL-CS9-WH	35K		787	8.8W	90
			LBRST-4RD-M-LSSL-CS9-WH	40K		795	8.7W	92
			LBRST-4RD-M-LSSL-CS9-WH	50K		807	8.8W	92
	Med	1100	LBRST-4RD-M-LSSL-CS9-WH	27K		1090	12.8W	85
			LBRST-4RD-M-LSSL-CS9-WH	30K		1105	12.8W	86
			LBRST-4RD-M-LSSL-CS9-WH	35K		1119	12.8W	87
			LBRST-4RD-M-LSSL-CS9-WH	40K		1133	12.9W	88
			LBRST-4RD-M-LSSL-CS9-WH	50K		1153	12.9W	89
	High	1500	LBRST-4RD-M-LSSL-CS9-WH	27K		1521	18.9W	80
			LBRST-4RD-M-LSSL-CS9-WH	30K		1539	19.1W	81
			LBRST-4RD-M-LSSL-CS9-WH	35K		1560	19.1W	82
			LBRST-4RD-M-LSSL-CS9-WH	40K		1572	19.1W	83
			LBRST-4RD-M-LSSL-CS9-WH	50K		1583	19.1W	83
6"	Low	1100	LBRST-6RD-M-LSML-CS9-WH	27K		1160	13.4W	87
			LBRST-6RD-M-LSML-CS9-WH	30K		1183	13.4W	89
			LBRST-6RD-M-LSML-CS9-WH	35K		1205	13.3W	91
			LBRST-6RD-M-LSML-CS9-WH	40K		1227	13.3W	92
			LBRST-6RD-M-LSML-CS9-WH	50K		1258	13.3W	95
	Med	1500	LBRST-6RD-M-LSML-CS9-WH	27K	90	1470	17.4W	84
			LBRST-6RD-M-LSML-CS9-WH	30K		1506	17.5W	86
			LBRST-6RD-M-LSML-CS9-WH	35K		1540	17.5W	88
			LBRST-6RD-M-LSML-CS9-WH	40K		1570	17.5W	90
			LBRST-6RD-M-LSML-CS9-WH	50K		1613	17.5W	92
	High	2500	LBRST-6RD-M-LSML-CS9-WH	27K		2351	30.8W	76
			LBRST-6RD-M-LSML-CS9-WH	30K		2403	30.8W	78
			LBRST-6RD-M-LSML-CS9-WH	35K		2455	30.7W	80
			LBRST-6RD-M-LSML-CS9-WH	40K		2502	30.7W	82
			LBRST-6RD-M-LSML-CS9-WH	50K		2543	30.5W	83
8"	Low	3000	LBRST-8RD-M-LSHL-CS9-WH	27K		3032	29.7W	102
			LBRST-8RD-M-LSHL-CS9-WH	30K		3074	29.8W	103
			LBRST-8RD-M-LSHL-CS9-WH	35K		3096	29.8W	104
			LBRST-8RD-M-LSHL-CS9-WH	40K		3118	29.7W	105
			LBRST-8RD-M-LSHL-CS9-WH	50K		3132	29.5W	106
	Med	4000	LBRST-8RD-M-LSHL-CS9-WH	27K		3973	41.5W	96
			LBRST-8RD-M-LSHL-CS9-WH	30K		4011	41.4W	97
			LBRST-8RD-M-LSHL-CS9-WH	35K		4074	41.5W	98
			LBRST-8RD-M-LSHL-CS9-WH	40K		4101	41.6W	99
			LBRST-8RD-M-LSHL-CS9-WH	50K		4116	41.5W	99
	High	4600	LBRST-8RD-M-LSHL-CS9-WH	27K		4477	48.7W	92
			LBRST-8RD-M-LSHL-CS9-WH	30K		4527	48.6W	93
			LBRST-8RD-M-LSHL-CS9-WH	35K		4568	48.5W	94
			LBRST-8RD-M-LSHL-CS9-WH	40K		4596	48.4W	95
			LBRST-8RD-M-LSHL-CS9-WH	50K		4611	48.2W	96

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PHOTOMETRY

LBRST-4RD-M-LSSL-CS9-WH

LUMINAIRE DATA

Test No	LBSTD230244NB-A-R22
Description	4" LBRST, High Lumen @ 3000K
Delivered Lumens	1539
Watts	18.9W
Efficacy	81.1
Mounting	Recessed
Spacing Criterion	1.14

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	914	59.4
0-60	1383	89.9
0-90	1539	100.0
0-180	1539	100.0

POLAR GRAPH

199
399
598
797
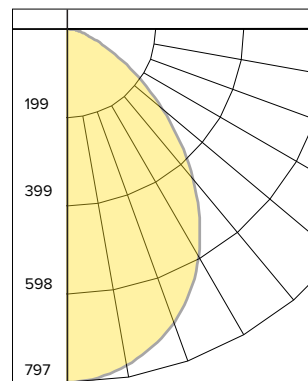
CANDELA DISTRIBUTION

Degree	Candela
0	797
5	790
15	744
25	657
35	522
45	362
55	208
65	94
75	42
85	10

LUMINANCE DATA*

Vertical Angle	Average
45°	63029
55°	44731
65°	27368
75°	19860
85°	14525

*Candela/Square Meter

LBRST-6RD-M-LSML-CS9-WH

LUMINAIRE DATA

Test No	LBSTD230244NB-B-R22
Description	6" LBRST, High Lumen @ 3000K
Delivered Lumens	2403
Watts	30.8W
Efficacy	78.1
Mounting	Recessed
Spacing Criterion	1.14

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1464	60.9
0-60	2194	91.3
0-90	2403	100.0
0-180	2403	100.0

POLAR GRAPH

317
634
951
1267
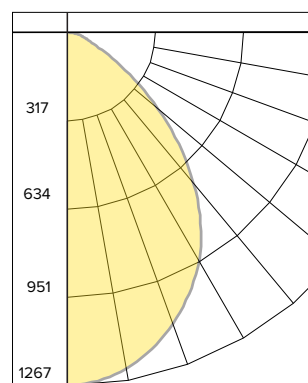
CANDELA DISTRIBUTION

Degree	Candela
0	1267
5	1255
15	1178
25	1037
35	840
45	571
55	298
65	117
75	58
85	15

LUMINANCE DATA*

Vertical Angle	Average
45°	44257
55°	28493
65°	15117
75°	12283
85°	9402

*Candela/Square Meter

LBRST-8RD-M-LSHL-CS9-WH

LUMINAIRE DATA

Test No	LBSTD230244NB-C-R22
Description	8" LBRST, High Lumen @ 3000K
Delivered Lumens	4527
Watts	48.6W
Efficacy	93.1
Mounting	Recessed
Spacing Criterion	1.12

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2753	60.8
0-60	4189	92.5
0-90	4527	100.0
0-180	4527	100.0

POLAR GRAPH

609
1217
1826
2435
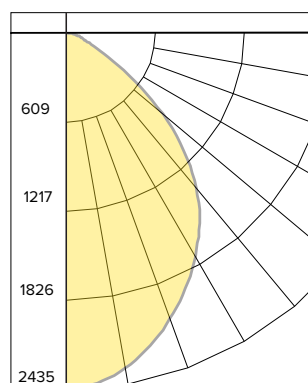
CANDELA DISTRIBUTION

Degree	Candela
0	2435
5	2407
15	2222
25	1940
35	1608
45	1156
55	600
65	198
75	92
85	24

LUMINANCE DATA*

Vertical Angle	Average
45°	50384
55°	32245
65°	14448
75°	10910
85°	8482

*Candela/Square Meter

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ADDITIONAL INFORMATION

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

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