

FBR Series

2-Hour Fire-Rated Downlight

DATE	PROJECT
TYPE	CATALOG NO.

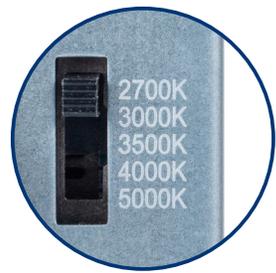


PRODUCT OVERVIEW

FEATURES

- Available in 4- and 6-inch diameter round models
- Tested and cETLus Listed in accordance with UL263, CAN/ULC S101 and ASTM E119 standards for **2-Hour** fire resistance
- Field selectable color temperature (CCT)
- Regressed lens with Baffle for less glare
- Closed cell gasket included for use in wet location environments
- 120V Forward or Reverse Phase Dimming down to 10%
- IC Rated, air-tight, and ENERGY STAR®

5 Selectable CCTs
2700K/3000K/3500K/4000K/5000K



PERFORMANCE

Catalog No.	Size	Lumen Output ¹	Input Power	CRI	Color Temperature
FBR40-S1W	4-Inch Round	1000Lm	12W	90+	2700K / 3000K / 3500K / 4000K / 5000K
FBR60-S1W	6-Inch Round	1350Lm	15W		

1. Values are nominal and vary based on CCT

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TECHNICAL INFORMATION

MATERIAL SPECIFICATIONS

- Fixture**
Fire-resistant baffle downlight
- Shape**
Round
- Sizes**
Available in 4- and 6-inch diameter models
- Finish**
White trim and red painted housing
- Lens**
Polycarbonate light diffuser for uniform even light distribution
- Trim Style**
Baffle

LED CHARACTERISTICS

- Color Temperature**
Selectable CCT: 2700K / 3000K / 3500K / 4000K / 5000K
Factory default set to 2700K
- Color Rendering Index (CRI)**
90+
- R9 Value**
High color performance with R9 value greater than 50
- Color Consistency**
<4-Step MacAdam Ellipse binning to achieve Fixture to Fixture Color Consistency
- Beam Angle**
109°
- LED Life**
50,000 Hours @ 70% Lumen Maintenance

ELECTRICAL

- Driver**
Constant Current, Class 2
- Power Factor**
≥0.9
- Input Voltage**
120V
- Operating Frequency**
60Hz
- Operating Temperature**
-4°F to 104°F (-20°C to 40°C)
- Dimmable**
120V Forward or Reverse Phase Dimming down to 10%
(See dimmer compatibility list)

COMPLIANCE

- Fire-Rating**
2-Hour Fire-Rated, cETLus Listed in accordance with UL263, CAN/ULC S101 and ASTM E119
- cETLus**
cETLus listed in accordance with UL 1598 and CSA C22.2 No. 250.0
- Environment**
Suitable for Wet Locations, covered ceilings
- Energy Rating**
ENERGY STAR® Certified
- Title 24**
Complies with Title 24 Part 6 JA8 High Efficacy LED Light Source Requirements
- National Electric Code (NEC)**
Suitable for use in clothes closets when installed in accordance with NEC® 410.16 (A)(1) (C)(3) spacing requirements
- IC Rated**
Suitable for direct contact with insulation
- Air-Tight**
Housing certified in accordance with ASTM E283

INSTALLATION

- Mounting**
No housing required. Two steel tension spring clips secure luminaire to ceiling. Accommodates ceiling thickness up to 2 inches. New construction mounting plates are available.
- Remote Driver Construction**
Steel driver/junction box with captive hinged junction box cover. Easy to wire 1 in / 1 out (plus ground) applications. Two (2) conduit pry outs and three (3) poke-in connectors to facilitate wiring.
- Cable**
CMP Rated cable
- Template Size**
4-inch: 4-1/4"
6-inch: 6-1/4"

5 YEAR LIMITED WARRANTY

Leviton warrants to its customer and the original end user the LED electronics and components of its properly installed LED products, to be free of defects in material and workmanship, in normal use, for a period of five (5) years from the date of shipment by Leviton and warrants the painted finish for a period of one (1) year from the date of shipment by Leviton.

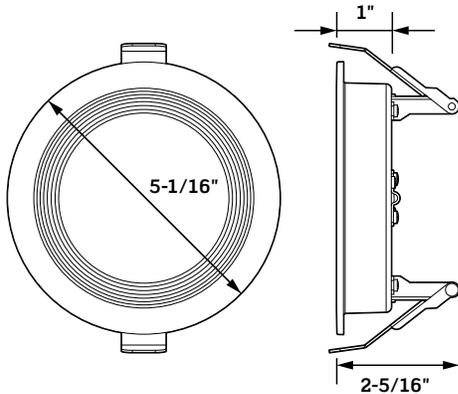
See the rest of our warranty [here](#).

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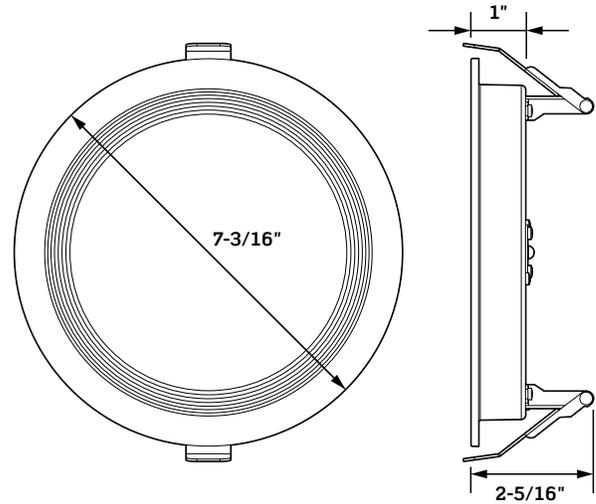
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DIMENSIONS

FBR40-S1W



FBR60-S1W



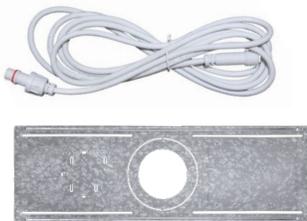
ORDERING INFORMATION

FIRE-RATED DOWNLIGHTS



CAT. NO.	Description	UPC Number	Std. Pack
FBR40-S1W	4" Fire-Rated Baffle Slim Downlight	07847702803 2	12
FBR60-S1W	6" Fire-Rated Baffle Slim Downlight	07847702804 9	12

ACCESSORIES



CAT. NO.	Description	UPC Number	Std. Pack
FB00X-ETW	20' Extension Cable	07847702805 6	50
DBRCX-H00	4" / 6" NC Mounting Plate	07847702352 5	15

FBR Series

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DIMMER COMPATIBILITY

The following list of Dimming Controls have gone through testing by Leviton to determine proper operation when paired with the Leviton Surface Mount Downlights

Supplier	Series	Model No.	Dimming Type	Dimming Range
Leviton	SureSlide	6674	Forward Phase	100-10%
Leviton	SureSlide	6674N	Forward Phase	100-10%
Leviton	SureSlide	66DF	Forward Phase	100-10%
Leviton	IllumaTech	IPL06	Forward Phase	100-10%
Leviton	IllumaTech	IPE04	Reverse Phase	100-10%
Leviton	Decora Slide with Lever Edge	ESL01	Forward Phase	100-10%
Leviton	Decora Slide	DSL06	Forward Phase	100-10%
Leviton	Decora Slide	DSE06	Reverse Phase	100-10%
Leviton	Decora Slide	DSM10	Forward Phase	100-10%
Leviton	Decora Digital	DDM06	Forward Phase	100-10%
Leviton	Decora Smart Wi-Fi	D26HD	Forward Phase	100-10%
Leviton	Decora Smart Wi-Fi	D2ELV	Phase Selectable (Reverse / Forward)	100-10%
Leviton	Decora Smart Wi-Fi	D2MSD	Forward Phase	100-10%
Leviton	Decora Smart Z-Wave	ZW6HD	Forward Phase	100-10%
Leviton	Decora Evolve	VM2D3	Forward Phase	100-10%
Leviton	Decora Evolve	VMDD3	Forward Phase	100-10%
Leviton	Toggle Slide	TSL06	Forward Phase	100-10%
Leviton	Toggle Slide	TSM10	Forward Phase	100-10%
Leviton	Trimatron Rotary	RDL06	Forward Phase	100-10%
Leviton	Trimatron Rotary	RNLO6	Forward Phase	100-10%

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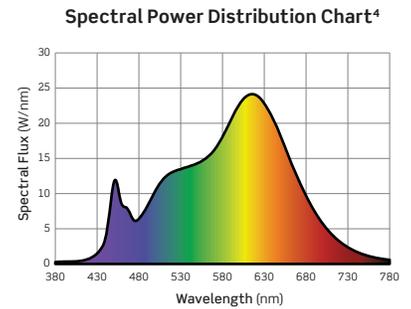
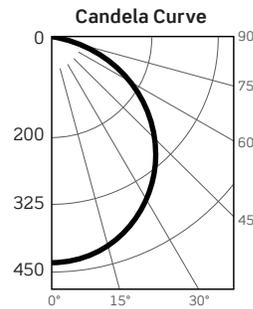
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PHOTOMETRICS

FBR40-001-S1W: 4-Inch Round Fire-Rated Baffle Slim Downlight

Fixture Delivered Lumens: 1144
 Total Watts@120V: 11.7
 Lumens Per Watt: 97.8
 Center Beam Candle Power: 432
 Beam Distribution: 109°
 Spacing Criterion: 1.35
 Color Rendering Index (CRI)¹: 94.4
 Color Temperature (CCT)²: 3051K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G24120505
 LM-79 Test No. S24120902

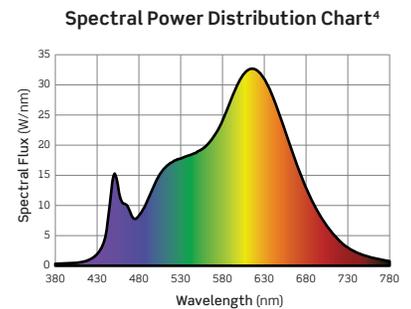
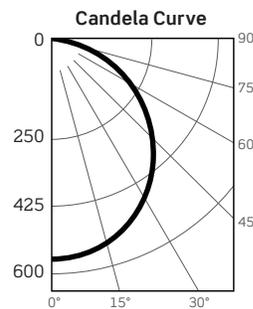
Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6 FT	12.0	16.9
8 FT	6.8	22.6
10 FT	4.3	28.2
12 FT	3.0	33.9
14 FT	2.2	39.5
16 FT	1.7	45.1



FBR60-001-S1W: 6-Inch Round Fire-Rated Baffle Slim Downlight

Fixture Delivered Lumens: 1518
 Total Watts@120V: 14.8
 Lumens Per Watt: 102.6
 Center Beam Candle Power: 561
 Beam Distribution: 109°
 Spacing Criterion: 1.35
 Color Rendering Index (CRI)¹: 94.3
 Color Temperature (CCT)²: 2997K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G24120602
 LM-79 Test No. S24121002

Intensity Distribution		
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6 FT	15.6	16.8
8 FT	8.8	22.4
10 FT	5.6	28.0
12 FT	3.9	33.6
14 FT	2.9	39.2
16 FT	2.2	44.8



1. Accuracy of Rendering Colors 2. Color Appearance of Light Source 3. Dependent on Surrounding Temperatures 4. Colors Present within the Light Source

PHOTOMETRIC MULTIPLICATION FACTORS

Lumen output values fluctuate based on Color Temperature (CCT), Color Rendering Index (CRI), Trim Finish, and Wattage.

To estimate lumen output of other combinations, multiply the published results by the following factors:

FBR40	
CCT	90+ CRI
2700K	0.97
3000K	1.00
3500K	1.03
4000K	1.03
5000K	1.01

FBR60	
CCT	90+ CRI
2700K	0.98
3000K	1.00
3500K	1.02
4000K	1.04
5000K	1.03

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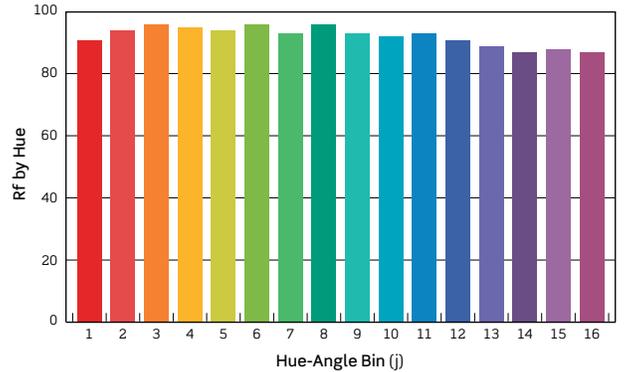
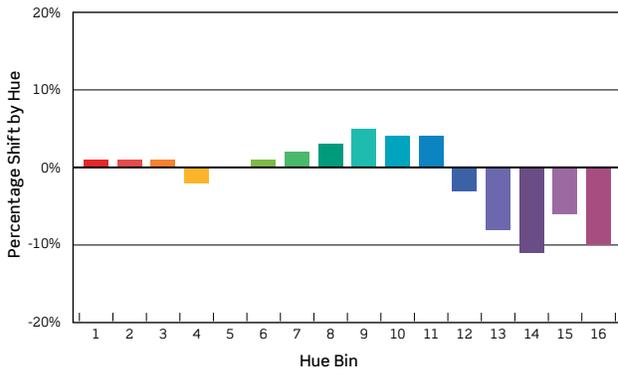
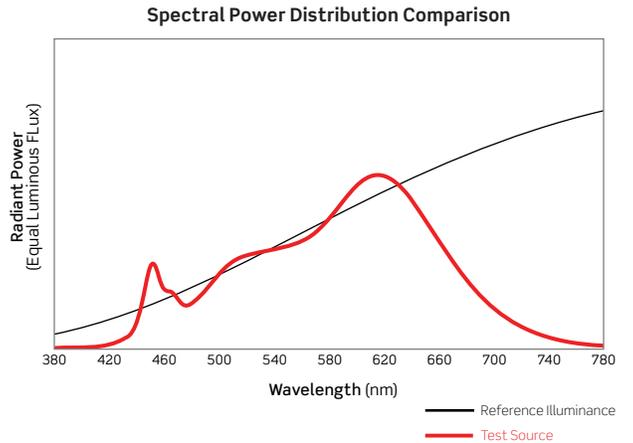
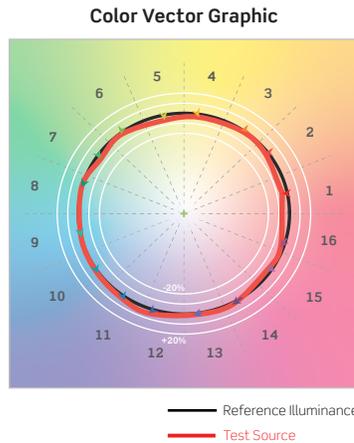
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PHOTOMETRICS

TM-30 DATA: FBR40-001-S1W 4-Inch Round Fire-Rated Baffle Slim Downlight

ANSI/IES TM-30-18 Color Rendition Report Test No. S24120902

R_f	92
R_g	98
CCT(K)	3051K
D_{uv}	0.0009
u^l	0.2485
v^l	0.5216



HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	1%	1%	1%	-2%	0%	1%	2%	3%	5%	4%	4%	-3%	-8%	-11%	-6%	-10%
R _f VALUE	91	94	96	95	94	96	93	96	93	92	93	91	89	87	88	87

Colors are for visual orientation purposes only

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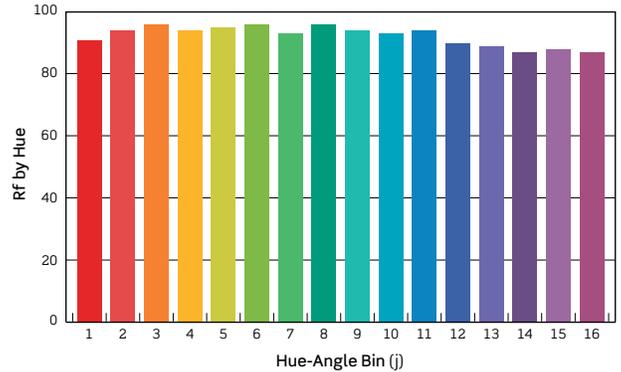
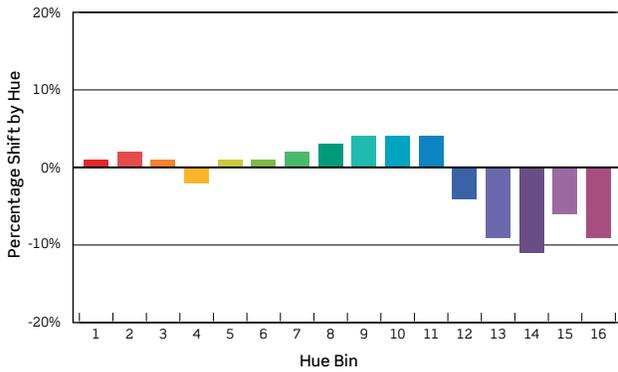
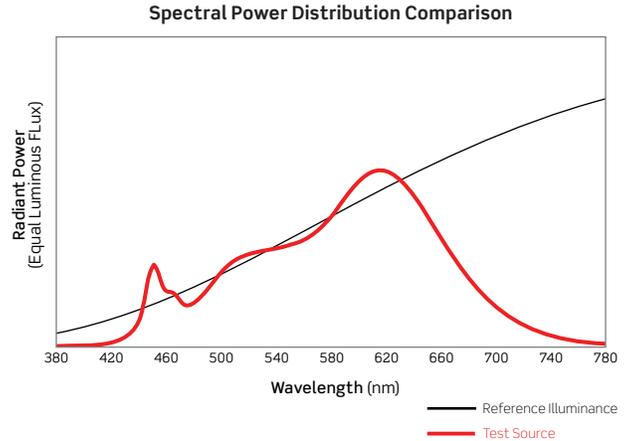
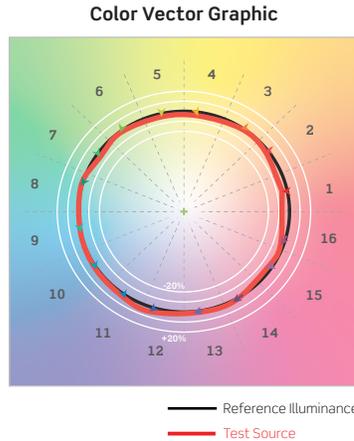
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PHOTOMETRICS

TM-30 DATA: FBR60-001-S1W 6-Inch Round Fire-Rated Baffle Slim Downlight

ANSI/IES TM-30-18 Color Rendition Report Test No. S24121002

R_f	93
R_g	98
CCT(K)	2997K
D_{uv}	0.0009
u^l	0.2504
v^l	0.5227



HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	1%	2%	1%	-2%	1%	1%	2%	3%	4%	4%	4%	-4%	-9%	-11%	-6%	-9%
Rf VALUE	91	94	96	94	95	96	93	96	94	93	94	90	89	87	88	87

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