

Lumaris Tunable White Recessed Downlight Family

The Lumaris downlight family makes it easy to bring the familiar feelings of daylight and incandescent light to new or existing spaces. A unique combination of warm-dim and tunable white in one, Lumaris downlights deliver a more natural-feeling electric light and intuitive end-user control.

Lumaris downlights are available in multiple installation options to suit unique project requirements, combining superior lighting quality with flexible design choices.

Features

Lighting System

- Works seamlessly with HomeWorks QSX and RadioRA 3 systems
- Independent control of intensity and color temperature
- Warm dimming to mimic the dimming curve of an incandescent lamp
- Programming presets can automatically change color temperature based on the time of day
- Manual adjustments via the Lutron app or integration

Downlight

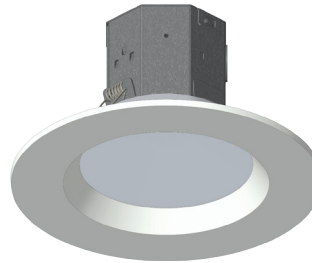
- 1800 K - 4000 K CCT range, matching all Lumaris family products
- 2-channel, continuous, flicker-free dimming from 100% down to 0.1% of measured light output
- Output: 800 lumens
- CRI: 90+ throughout the tunable white range
- 50,000 hours rated lifetime (L70)
- Uses Clear Connect – Type X wireless communication
- 0.5 in (12.7 mm) regress to reduce unwanted glare
- Permanently affixed white or black trim options available
- Retrofit or canless options available



4 in (101.6 mm)
Canless Downlight



4 in (101.6 mm)
Retrofit Downlight



6 in (152.4 mm)
Canless Downlight



5 in (127 mm) /
6 in (152.4 mm)
Retrofit Downlight

Model Number		Description
HomeWorks QSX	RadioRA 3	
HWL-RD4WH-TW	RRL-RD4WH-TW	4 in (101.6 mm) retrofit recessed downlight with white trim
HWL-RD4BL-TW	RRL-RD4BL-TW	4 in (101.6 mm) retrofit recessed downlight with black trim
HWL-RD6WH-TW	RRL-RD6WH-TW	5 in (127 mm) / 6 in (152.4 mm) retrofit recessed downlight with white trim
HWL-RD6BL-TW	RRL-RD6BL-TW	5 in (127 mm) / 6 in (152.4 mm) retrofit recessed downlight with black trim
HWL-CD4WH-TW	RRL-CD4WH-TW	4 in (101.6 mm) canless recessed downlight with white trim
HWL-CD4BL-TW	RRL-CD4BL-TW	4 in (101.6 mm) canless recessed downlight with black trim
HWL-CD6WH-TW	RRL-CD6WH-TW	6 in (152.4 mm) canless recessed downlight with white trim
HWL-CD6BL-TW	RRL-CD6BL-TW	6 in (152.4 mm) canless recessed downlight with black trim

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Specifications

Electrical

- 120 V~ 60 Hz
- 0.07 A
- 8.5 W
- 40 downlights maximum per 15 A breaker

Regulatory Approvals

- cULus listed
- FCC approved. Complies with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules
- Industry Canada certified
- California Title 24 as detailed in Reference Joint Appendix JA8 for High Luminous Efficacy Light Sources

Environmental

- Ambient operating temperature:
32 °F to 104°F (0 °C to 40 °C)
- Relative humidity: 0% – 90% non-condensing
- Suitable for dry or damp locations
- Suitable for wet locations. Covered ceiling only
- Type IC rated and inherently protected
(canless versions)
- Suitable for Type IC and Non-IC luminaires
(retrofit versions)

Warranty

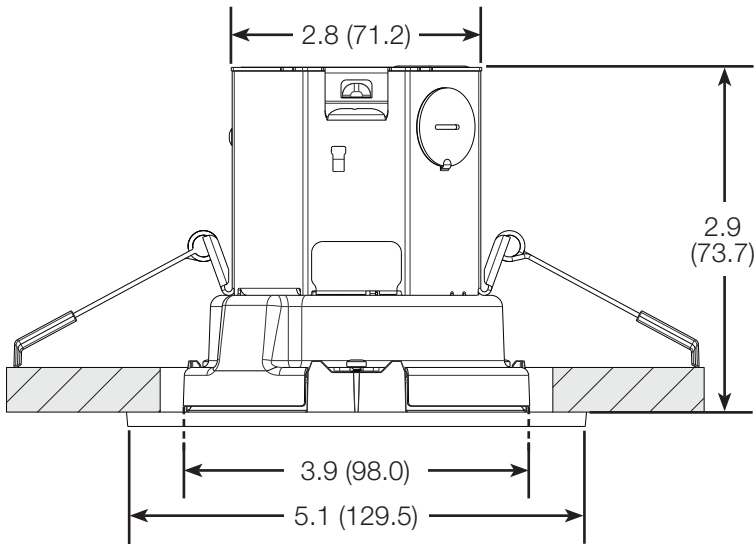
- Limited Warranty: www.lutron.com/warranty or call 1.844.LUTRON1 for a printed copy

Lumaris Tunable White Recessed Downlight Family

Dimensions: Canless Downlight

All dimensions shown as: in (mm)

4 in (101.6 mm) Canless Downlight

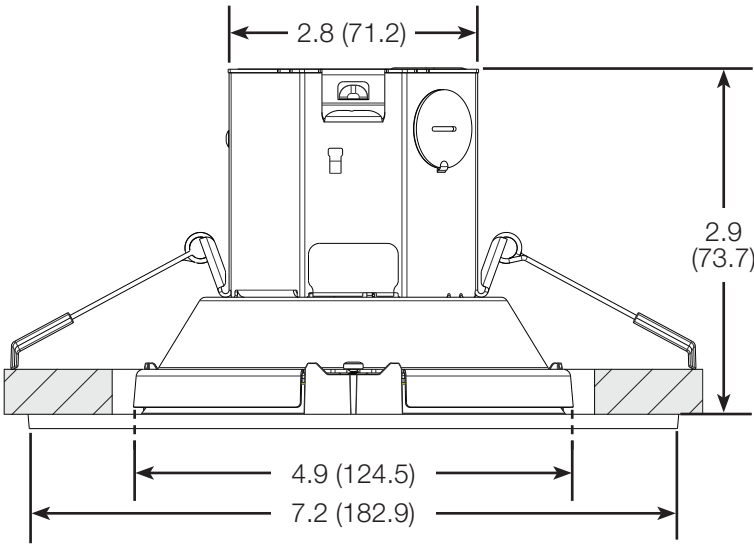


Required hole dimension:
4 ¼ in to 4 ½ in (107.9 mm to 114.3 mm)
Acceptable ceiling thickness:
1/2 in to 1 ⅜ in (12.7 mm to 34.9 mm)

Junction box wire capacity:

Wire	AWG (mm²)	Quantity
12/2 with ground	12 (4)	2
14/2 with ground	14 (2.5)	2
14/3 with ground	14 (2.5)	2

6 in (152.4 mm) Canless Downlight



Required hole dimension:
5 ¼ in to 5 ½ in (133.3 mm to 139.7 mm)
Acceptable ceiling thickness:
1/2 in to 1 ⅜ in (12.7 mm to 34.9 mm)

Junction box wire capacity:

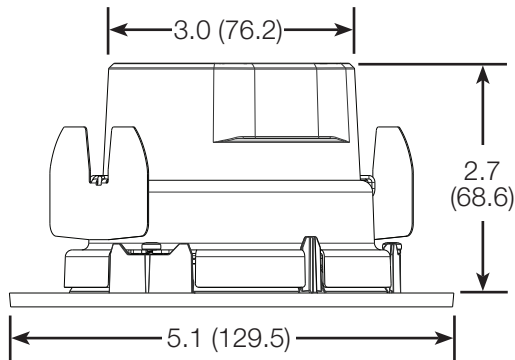
Wire	AWG (mm²)	Quantity
12/2 with ground	12 (4)	2
14/2 with ground	14 (2.5)	2
14/3 with ground	14 (2.5)	2

Lumaris Tunable White Recessed Downlight Family

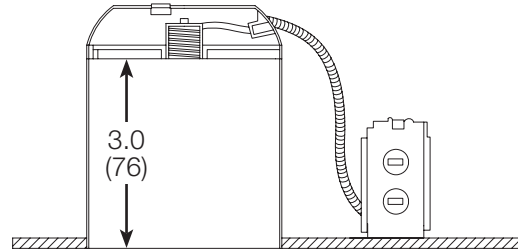
Dimensions: Retrofit Downlight

All dimensions shown as: in (mm)

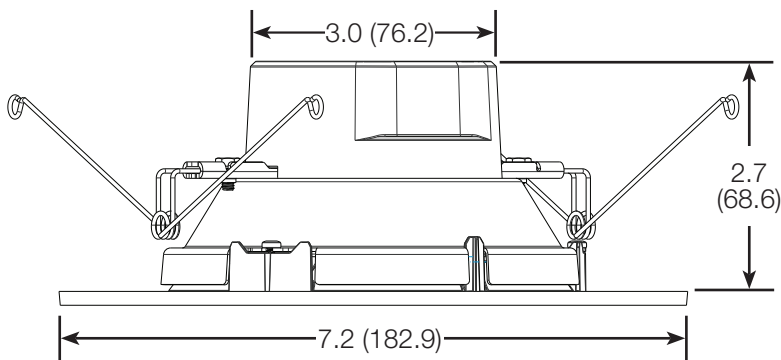
4 in (101.6 mm) Retrofit Downlight



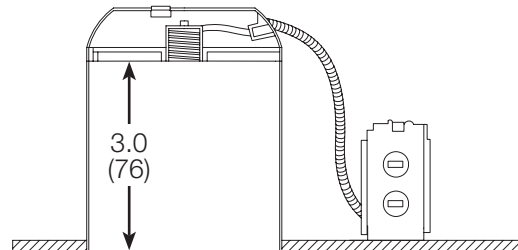
Note: Minimum recessed housing depth for 4 in (101.6 mm) and 6 in (152.4 mm) retrofit downlights: 3.0 in (76 mm)



5 in (127 mm)/6 in (152.4 mm) Retrofit Downlight



Note: Minimum recessed housing depth for 4 in (101.6 mm) and 5 in (127 mm)/6 in (152.4 mm) retrofit downlights: 3.0 in (76 mm)

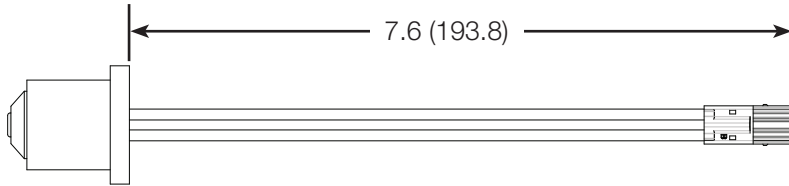


Lumaris Tunable White Recessed Downlight Family

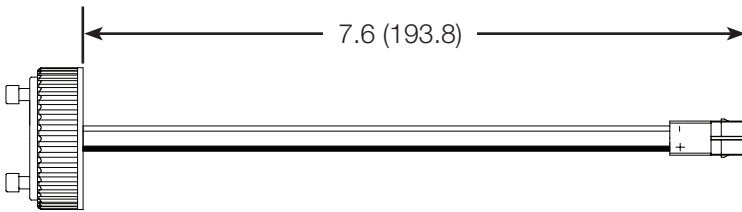
Dimensions: Retrofit Downlight (*continued*)

All dimensions shown as: in (mm)

E26 Adapter (Included with retrofit downlight)



GU24 Adapter (LU-RD-GU24)

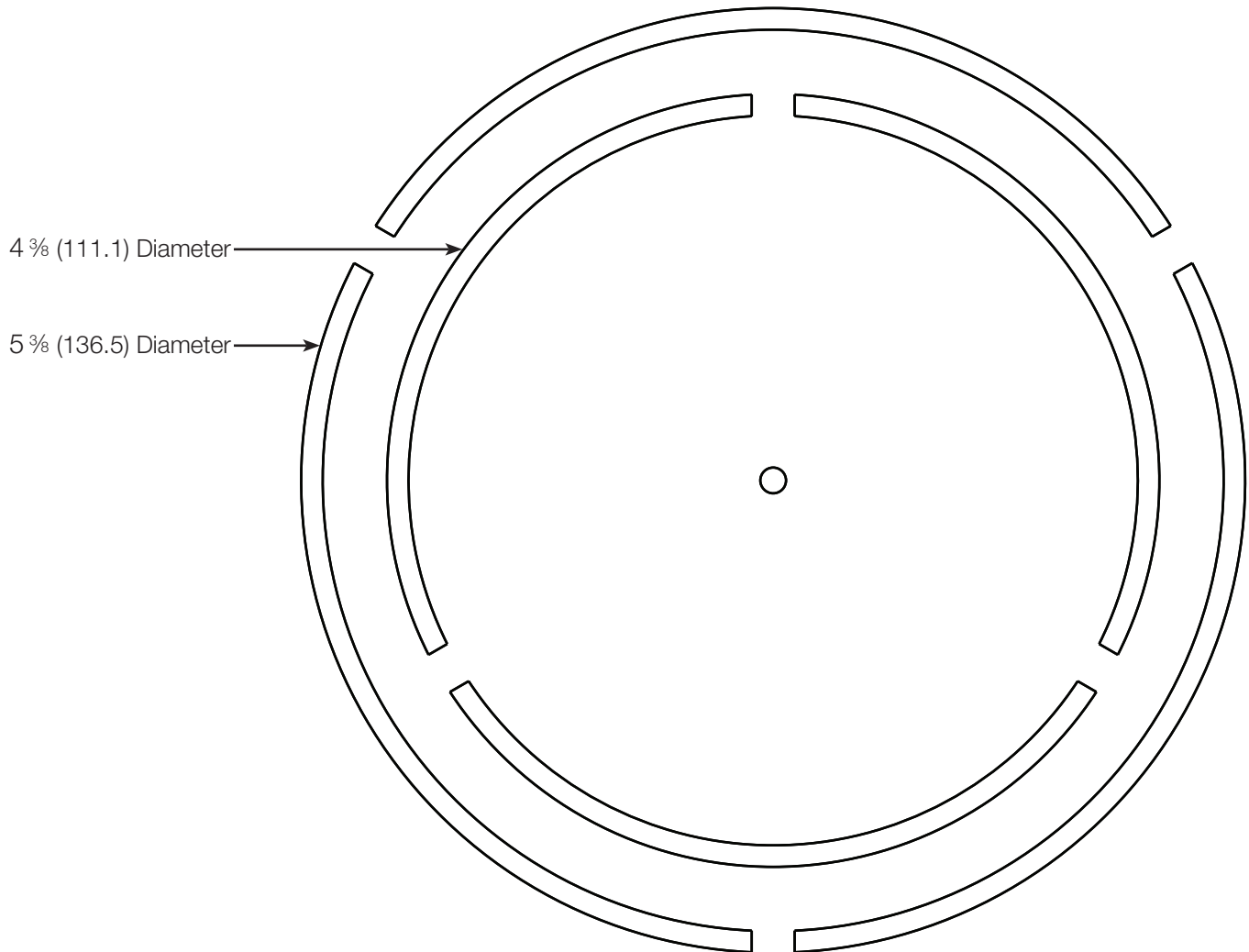


Lumaris Tunable White Recessed Downlight Family

Dimensions: Retrofit Downlight (*continued*)

All dimensions shown as: in (mm)

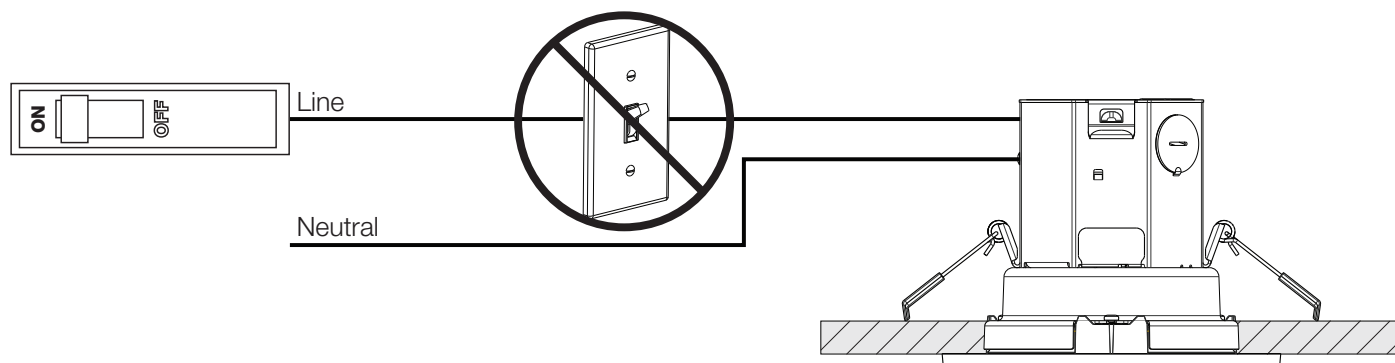
Canless Downlight Template



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Wiring Diagram

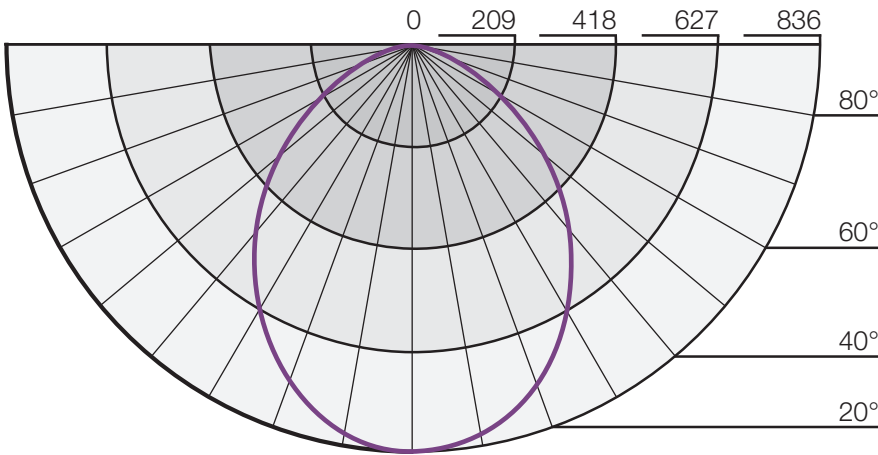
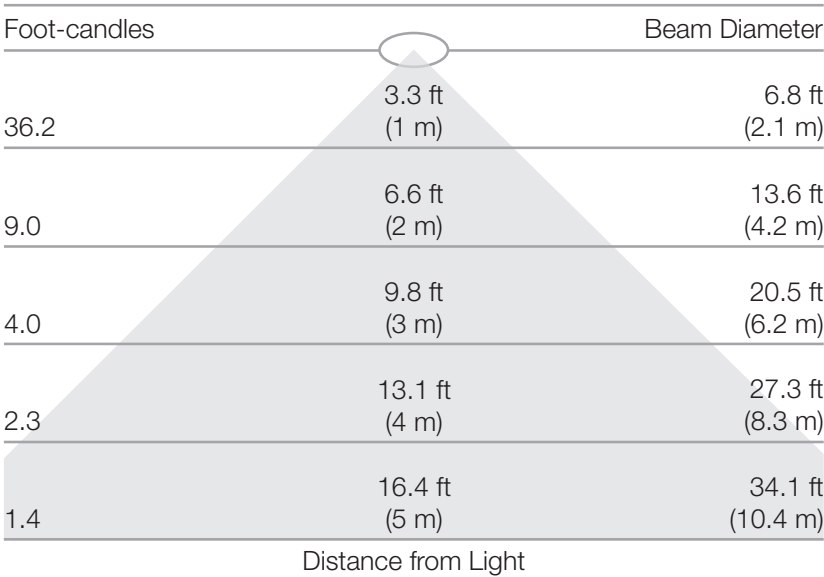
Lumaris downlights are rated to be powered directly by a breaker. Any dimmer or switch in between the breaker and the downlight should be bypassed.



Lumaris Tunable White Recessed Downlight Family

Photometric Data, 4 in (101.6 mm)¹

Model Number	Wattage (W)	Delivered Lumens	CBCP
XXX-XD4XX-TW	8.5	800	836

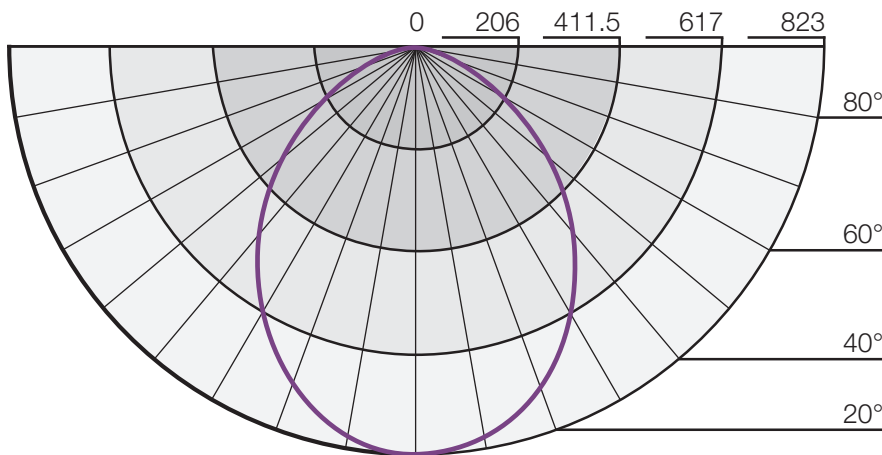
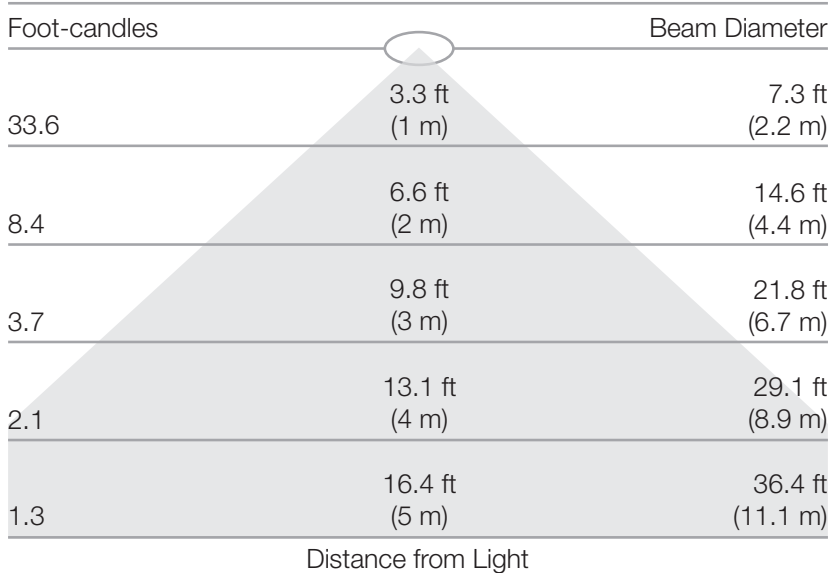


¹ All data is simulated to represent the typical performance expected with the following parameters, unless otherwise stated: white trim, 3000 K, 77 °F (25 °C) ambient, 100% power input.

Lumaris Tunable White Recessed Downlight Family

Photometric Data, 6 in (152.4 mm)¹

Model Number	Wattage (W)	Delivered Lumens	CBCP
XXX-XD6XX-TW	8.5	800	823



¹ All data is simulated to represent the typical performance expected with the following parameters, unless otherwise stated: white trim, 3000 K, 77 °F (25 °C) ambient, 100% power input.