Project		Catalog #		Type	
Prepared by		Notes		Date	

HALO

RL4 | Selectable CCT

4-inch All-purpose LED retrofit module with SeleCCTable switch

Typical Applications

Residential

600 Lumen

900 Lumen

Interactive Menu

Product Certification

ENERGY STAR

IECC International Energy Conservation Code High Efficacy Compliance

Can be used for — Can be used to comply with 2019 Title 24 Part 6 LED Enclosed Light Source Requirements (JA8)

Efficiency Standards T24

Efficiency Standards T20 — California Title 20 Certified LED Tier 2 Lamp

UL CERTIFIED

RoHS COMPLIANT

Refer to ENERGY STAR® Certified Products List.
Can be used to comply with California Title 24 High Efficacy requirements.
Certified to California Appliance Efficiency Database under JA8.

Note: Due to T20 change, as of July 1, 2019 consult factory on correct catalog number and availability for T20 compliant California product.
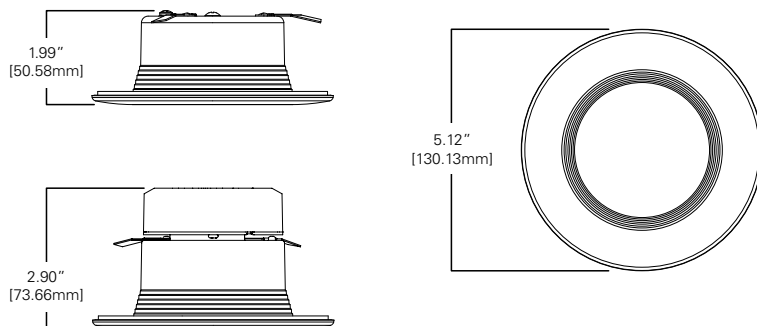
Product Features

5 seleCCTable colors — 2700K • 3000K • 3500K • 4000K • 5000K

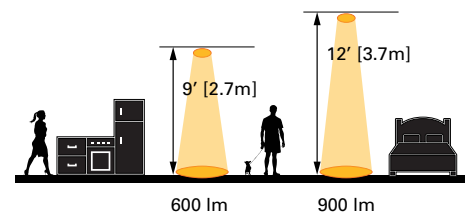airOOP

Showerlight

Top Product Features

- Select from 5 CCTs via switch; 2700K, 3000K, 3500K, 4000K, 5000K CCT; 90 CRI
- Lumens: 600, 900
- Use with 4" housings with screwbase adapter included
- Dimmable down to 5%
- Friction blade mounting

Dimensional and Mounting Details

1.99" [50.58mm]

2.90" [73.66mm]

5.12" [130.13mm]

Note: .86" lens regression

Scale

9' [2.7m]

12' [3.7m]

600 lm

900 lm

Order Information*

SAMPLE ORDER NUMBER: RL4069S1EWHR

Models	Lumens	CRI/CCT	Driver	Finish	Packaging	T20 Compliant
Models	**Lumens**	**CRI/CCT**	**Driver**	**Finish**	**Packaging**	**T20 Compliant**
RL4 = 4" all- purpose retrofit LED module	**06 =** 600 lumens (nominal) **09 =** 900 lumens (nominal)	**9S** = 90 CRI minimum, white tuning, selectable CCT 2700K-5000K	**1E =** 120V 60Hz leading or trailing edge phase cut 1% dimming	**WH =** Matte white baffle	**R =** Recyclable	**-CA**
Notes	**Notes**	**Notes**	**Notes**	**Notes**	**Notes**	**Notes**

Accessories
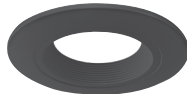
Accessories
Designer Trims   **RL4TRMWHB** = 4" decorative overlay, white paintable, Baffle   **RL4TRMMBB** = 4" decorative overlay, matte black, Baffle   **RL4TRMSNB** = 4" decorative overlay, satin nickel, Baffle   **RL4TRMTBZB** = 4" decorative overlay, tuscan bronze, Baffle   **RL4TRMWH** = 4" decorative overlay, white paintable, smooth splay   **RL4TRMMB** = 4" decorative overlay, matte black, smooth splay   **RL4TRMSN** = 4" decorative overlay, satin nickel, smooth splay   **RL4TRMTBZ** = 4" decorative overlay, tuscan bronze, smooth splay
Notes

Housings

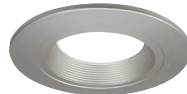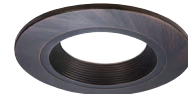| Housings |
|---|
| **Halo Ultra-shallow LED Housings**
 H245ICAT = 4" IC, airtight ultra-shallow new construction housing, LED, 120 - 277V
 H245RICAT = 4" IC, airtight ultra-shallow remodeler housing, LED, 120 - 277V

 Halo LED Housings
 H995ICAT = 4" IC, airtight shallow new construction housing, LED, 120 - 277V
 H995RICAT = 4" IC, airtight shallow remodeler housing, LED, 120 - 277V

 Halo Housings
 H99TAT = 4" non-IC, airtight shallow new construction housing, E26, 120V
 H99RTAT = 4" non-IC, airtight shallow remodeler housing, E26, 120V
 H99ICAT = 4" IC, airtight shallow new construction housing, E26, 120V
 E4TATSB = 4" non-IC, airtight shallow new construction housing, adjustable socket bracket, E26, 120V
 E4RTATSB = 4" non-IC, airtight shallow remodeler housing, adjustable socket bracket, E26, 120V
 E4ICATSB = 4" non-IC, airtight shallow new construction housing, adjustable socket bracket, E26, 120V |
| **Notes** |

RL4TRMWHB
White (Paintable), Baffle

RL4TRMMBB
Matte Black, Baffle

RL4TRMSNB
Satin Nickel, Baffle

RL4TRMTBZB
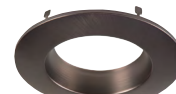Tuscan Bronze, Baffle

RL4TRMWH
White (Paintable), Splay

RL4TRMWB
Matte Black, Splay

RL4TRMSN
Satin Nickel, Splay

RL4TRMTBZ
Tuscan Bronze, Splay

Product Specifications

CCT Select System
- Use the switch to choose between 2700K, 3000K, 3500K, 4000K, and 5000K CCT.

Module - Trim
- Module construction includes LED array, heat sink, reflector, lens, baffle and trim ring.
- Regressed baffle
- Heat sink designed to conduct heat away from the LED array, keeping the junction temperatures below specified maximums, even when installed in insulated ceiling environments.

LED Array
- Mid power LED array provides a uniform source with high efficiency and no pixilation.
- 90 CRI minimum, R9 greater than 50
- Color accuracy at 4 SDCM in between endpoints, provide color accuracy and uniformity.
- Color Temperature (CCT) has a selectable range from 2700K to 5000K (factory default 3000K)

Optical Assembly
- Regressed lens
- Impact-resistant polycarbonate
- Convex form and lamp-like appearance
- Diffuse for even illumination

Driver
- Integral 120V 60 Hz constant current driver provides noise free operation
- Continuous, flicker-free dimming from 100% to 5%.
- Inline electrical quick connect and E26 adapter (provided) provides mains connections
- See Dimming Guide for compatible dimmers

Retention
- Push-N-Twist universal installation clips
- Clips are pre-installed and designed to fit 4" compatible recessed housings

Designer Skins (sold separately)
- RL4 skins are accessory rings that attach to the RL4 for a permanent finish. Refer to the RL4 accessories specification sheet for details.
  - White (Paintable)
  - Satin Nickel
  - Tuscan Bronze

Gaskets
- Closed cell gaskets achieve restrictive airflow requirements without additional caulking

Compliance
- UL Certified
- Wet and Damp location listed
- Airtight certified per ASTM-E283
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
- EMI/RFI emissions per FCC 47CFR Part 15 consumer limits
- Contains no mercury or lead and RoHS compliant
- Photometric testing in accordance with IES LM-79-08
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11
- Can be used for State of California Title 24 high efficacy luminaire compliance. Complies with Title 24 JA8-2016-E.
- Can be used International Energy Conservation Code (IECC) high efficiency luminaire compliance.
- ENERGY STAR® listed, reference database for current listings

Warranty
- Five year limited warranty, consult website for details. www.cooperlighting.com/warranty

Photometric Data

View IES files
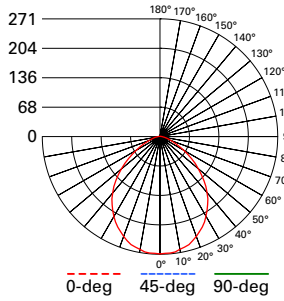
RL4069S1EWHR-3000K

Spacing criterion: (0-180) 1.18
(90-270) 1.18
(Diagonal) 1.26

Beam Angle: 93.1°
Field Angle: 141.1°
Lumens: 597
Input Watts: 8.0 W
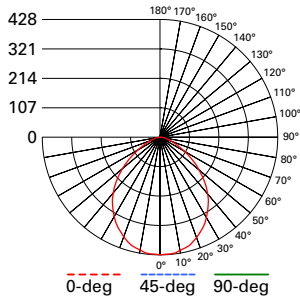Efficacy: 74.6 LPW
Test Report:
RL4069S1EWHR-3000K.ies

0-deg 45-deg 90-deg

Zonal Lumen	Lumens	% Lumens
0-30	203	35.3
0-40	322	56
0-60	511	88.8
0-90	575	100

TM-30-15	Rf = 91.1
	Rg = 100.9
CRI/CIE	Ra = 93.1
	R9 = 64.9

CCT - Range of 2700K- 5000K

warm ← → cool

93°

RL4099S1EWHR-3000K

Spacing criterion: (0-180) 1.17
(90-270) 1.17
(Diagonal) 1.25

Beam Angle: 93°
Field Angle: 141.1°
Lumens: 952
Input Watts: 12.0 W
Efficacy: 79.3 LPW
Test Report:
RL4099S1EWHR-3000K.ies

0-deg 45-deg 90-deg

Zonal Lumen	Lumens	% Lumens
0-30	323	35.3
0-40	512	56
0-60	813	88.8
0-90	915	100

TM-30-15	Rf = 91.1
	Rg = 100.9
CRI/CIE	Ra = 93.1
	R9 = 64.9

CCT - Range of 2700K- 5000K

warm ← → cool

93°

Energy and Performance Data

RL4069S1EWHR	
Max. Lumens	632 @ 5000K
Input Voltage	120V
Input Frequency	50/60 Hz
Input Power	8.0W
Input Current	0.075A - 0.0875A (Per input power)
Power Factor	>0.90
THD	<20%
EMI/RFI	FCC Title 47 CFR, Part 15, Class B (Consumer)
Sound Rating	Class A
Minimum Starting Temp	-30°C (-22°F)

RL4099S1EWHR	
Max. Lumens	1033 @ 5000K
Input Voltage	120V
Input Frequency	50/60 Hz
Input Power	11.9W
Input Current	0.075A - 0.0875A (Per input power)
Power Factor	>0.90
THD	<20%
EMI/RFI	FCC Title 47 CFR, Part 15, Class B (Consumer)
Sound Rating	Class A
Minimum Starting Temp	-30°C (-22°F)

Tested in accordance with IES LM63. Field results may vary.

Note: Refer to IES files for more product data.

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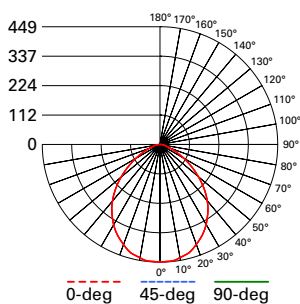
Photometric Data

RL4069S1EWHR-CA-3000K

Spacing criterion: (0-180) 1.17
(90-270) 1.17
(Diagonal) 1.25

Beam Angle: 93.1°
Field Angle: 141.1°
Lumens: 576
Input Watts: 6.3 W
Efficacy: 91.4 LPW
Test Report:
RL4069S1EWHR-CA-3000K.ies

265
199
133
66
0

180° 170° 160° 150° 140° 130° 120° 110° 100° 90° 80° 70° 60° 50° 40° 30° 20° 10° 0°

--- 0-deg   45-deg   —— 90-deg

Zonal Lumen	Lumens	% Lumens
0-30	203	35.3
0-40	322	56
0-60	511	88.8
0-90	576	100

TM-30-15	Rf = 91.1
	Rg = 100.9
CRI/CIE	Ra = 93.1
	R9 = 64.9

CCT - Range of 2700K- 5000K

warm ◄————————► cool

93°

RL4099S1EWHR-CA-3000K

Spacing criterion: (0-180) 1.17
(90-270) 1.17
(Diagonal) 1.25

Beam Angle: 93°
Field Angle: 141.1°
Lumens: 967
Input Watts: 9.9 W
Efficacy: 97.7 LPW
Test Report:
RL4099S1EWHR-CA-3000K.ies

449
337
224
112
0

180° 170° 160° 150° 140° 130° 120° 110° 100° 90° 80° 70° 60° 50° 40° 30° 20° 10° 0°

--- 0-deg   45-deg   —— 90-deg

Zonal Lumen	Lumens	% Lumens
0-30	341	35.3
0-40	542	56
0-60	859	88.8
0-90	967	100

TM-30-15	Rf = 91.1
	Rg = 100.9
CRI/CIE	Ra = 93.1
	R9 = 64.9

CCT - Range of 2700K- 5000K

warm ◄————————► cool

93°

Energy and Performance Data

RL4069S1EWHR-CA	
Max. Lumens	590 @ 4000K
Input Voltage	120V
Input Frequency	50/60 Hz
Input Power	6.3W
Input Current	0.075A - 0.0875A (Per input power)
Power Factor	>0.90
THD	<20%
EMI/RFI	FCC Title 47 CFR, Part 15, Class B (Consumer)
Sound Rating	Class A
Minimum Starting Temp	-30°C (-22°F)

RL4099S1EWHR-CA	
Max. Lumens	992 @ 5000K
Input Voltage	120V
Input Frequency	50/60 Hz
Input Power	9.8W
Input Current	0.075A - 0.0875A (Per input power)
Power Factor	>0.90
THD	<20%
EMI/RFI	FCC Title 47 CFR, Part 15, Class B (Consumer)
Sound Rating	Class A
Minimum Starting Temp	-30°C (-22°F)

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