

LED Retrofit Collection
RL and RA Series

HALO



EATON

Powering Business Worldwide

RL4 Series



- Up to 700 lumens (lumens per selected CCT and CRI)
- Use to replace 60W PAR16, 50W PAR20 or 40W R20 lamp
- 2700K, 3000K, 3500K, 4000K Correlated Color Temperature (CCT)
- 80 CRI or 90 CRI
- 7.2W - 9.6W (Per CRI and CCT), 120V
- Halo matte white finish
- Push-N-Twist universal installation clips pre-installed
- Compatible with most 4" recessed housings
- Dimmable to 5% with select dimmers
- Damp and wet location listed (shower rated)
- Rated for IC, ICAT and may be used in Non-IC housings
- AIR-TITE™ certified per ASTM-E283
- Diffusing, regressed lens
- Five-year limited warranty

RL4 Designer Trims (Order Separately)



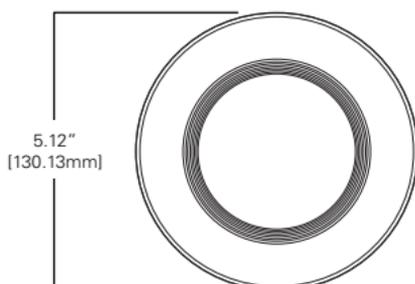
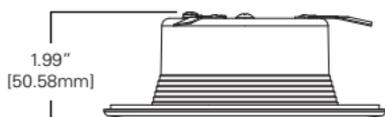
RL4TRMWH
White (Paintable)



RL4TRMTBZ
Tuscan Bronze



RL4TRMSN
Satin Nickel



OVER \$500^Δ SAVINGS

^Δ Savings are over the life of the Halo RL4 luminaire.

Energy savings: \$383

Replacement lamp savings: \$166

Savings based on \$0.155 per kilowatt hour, average six hours use per day, 50,000 hours of lamp usage, and 60W PAR16 Halogen lamp lumen equivalent.

4" LED Retrofit Downlight

Push-N-Twist

Universal Installation Clip



Ordering Information

Sample Number: **RL460WH830PK**

Order Halo housing separately.

RL4 Models – 4" LED Retrofit Baffle - Trim

80 CRI

RL460WH827PK= 80 CRI, 2700K

RL460WH830PK= 80 CRI, 3000K

RL460WH835PK= 80 CRI, 3500K

RL460WH840PK= 80 CRI, 4000K

90 CRI

RL460WH927PK= 90 CRI, 2700K

RL460WH930PK= 90 CRI, 3000K

RL460WH935PK= 90 CRI, 3500K

RL460WH940PK= 90 CRI, 4000K

LED Housings (Order Separately)

See Housing Compatibility, Page 12

Accessories (Order Separately)

RL4TRMSN=Satin Nickel Trim Ring

RL4TRMTBZ=Tuscan Bronze Trim Ring

RL4TRMWH=White Paintable Trim Ring

HE26LED=Replacement screw base adapter (one included with unit)



HE26LED

Edison Base Adapter for retrofit (included)

RL4 Energy Data	80 CRI	90 CRI
Max. Lumens (4000K)	713	623
Input Voltage	120V	
Input Frequency	50/60 Hz	
Input Power	7.2W - 9.6W (Per CRI and CCT)	
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)	



90 CRI

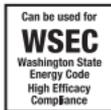


Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Title 20 Appliance Efficiency Database.

80 CRI



Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire.



Refer to ENERGY STAR® Certified Products List.

RL56 Series



RL56 - 600 Series



RL56 - 900 Series

- 600 Series: up to 671 lumens (lumens per selected CCT and CRI)
900 Series: up to 1100 lumens (lumens per selected CCT and CRI)
- 600 Series: use to replace 65W BR30 or 50W PAR30 lamp
900 Series: use to replace 75W PAR30 lamp
- 2700K, 3000K, 3500K, 4000K Correlated Color Temperature (CCT)
- 80 CRI or 90 CRI
- 600 Series: 7.2W - 9.6W (per CRI and CCT), 120V
900 Series: 13.5W, 120V
- Halo matte white finish
- Torsion springs preinstalled
- Optional Push-N-Twist universal installation clips pre-installed
- Compatible with most 5" and 6" standard and shallow recessed housings
- Dimmable to 5% with select dimmers
- Damp and wet location listed (shower rated)
- Rated for IC, ICAT and may be used in Non-IC housings
- AIR-TITE™ certified per ASTM-E283
- Diffusing, regressed lens
- Five-year limited warranty

RL56 Designer Trims (Order Separately)



RL56TRMWH
White (Paintable)



RL56TRMTBZ
Tuscan Bronze



RL56TRMSN
Satin Nickel



^Δ Savings are over the life of the Halo RL56 luminaire.

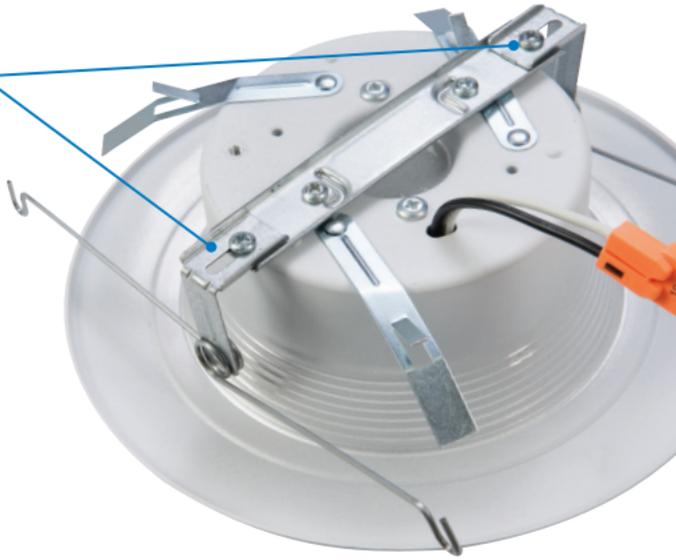
Energy savings: \$430

Replacement lamp savings: \$100

Savings based on \$0.155 per kilowatt hour, average six hours use per day, 50,000 hours of lamp usage, and 65W BR30 Halogen lamp lumen equivalent.

5" / 6" LED Retrofit Downlight 600 and 900 Series

Torsion Springs



Example:
RL56-600 Series



5 Inch housing position



6 Inch housing position

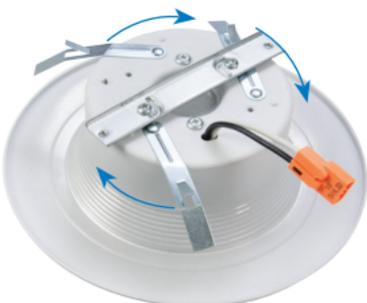
Push-N-Twist
Universal Installation Clip



Example:
RL56-600 Series



To use the Push-N-Twist clips, the torsion springs must be removed. Do not remove the main bracket.



Once the torsion springs are removed, rotate the clips into position and install into the housing.

RL56 Series

Ordering Information

Sample Number: **RL560WH6827**

Order Halo housing separately.

RL56 600 Series – 5"/6" LED Retrofit Baffle - Trim

80 CRI

RL560WH6827= 80 CRI, 2700K

RL560WH6830= 80 CRI, 3000K

RL560WH6835= 80 CRI, 3500K

RL560WH6840= 80 CRI, 4000K

90 CRI

RL560WH6927= 90 CRI, 2700K

RL560WH6930= 90 CRI, 3000K

RL560WH6935= 90 CRI, 3500K

RL560WH6940= 90 CRI, 4000K

RL56 900 Series – 5"/6" LED Retrofit Baffle - Trim

80 CRI

RL560WH9827= 80 CRI, 2700K

RL560WH9830= 80 CRI, 3000K

RL560WH9835= 80 CRI, 3500K

RL560WH9840= 80 CRI, 4000K

90 CRI

RL560WH9927= 90 CRI, 2700K

RL560WH9930= 90 CRI, 3000K

RL560WH9935= 90 CRI, 3500K

RL560WH9940= 90 CRI, 4000K

LED Housings (Order Separately)

See Housing Compatibility, Page 13

Accessories (Order Separately)

RL56TRMSN=Satin Nickel Trim Ring

RL56TRMTBZ=Tuscan Bronze Trim Ring

RL56TRMWH=White Paintable Trim Ring

OT400P=Oversize Flat White Metal Trim Ring, 6" I.D. x 9-1/4" O.D. (Ring slips behind RL56 ring in stepped configuration.)

OT403P=Oversize White Plastic Trim Ring, 6" I.D. x 8" O.D. (Ring slips behind RL56 ring in stepped configuration.)

TRM690WH=Oversize Matte White Metal Trim Ring. Designed for RL56 ring to inset into oversize ring for an even (non-stepped) trim surface.

HE26LED=Replacement screw base adapter (one included with unit)



HE26LED
Edison Base Adapter
for retrofit (included)



90 CRI



Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Title 20 Appliance Efficiency Database.

80 CRI



Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire.

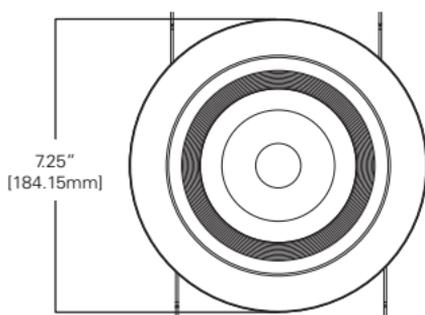
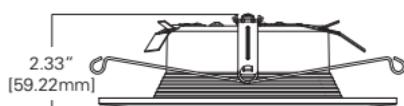


Refer to ENERGY STAR® Certified Products List.

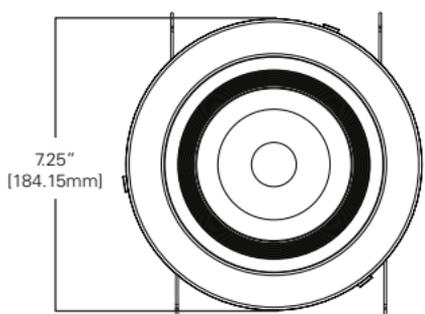
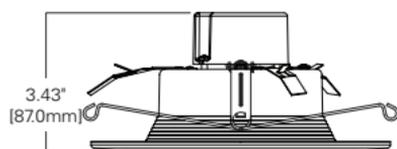
5" / 6" LED Retrofit Downlight 600 and 900 Series

RL56 Energy Data	600 Series		900 Series	
	80 CRI	90 CRI	80 CRI	90 CRI
Max. Lumens (4000K)	598	653	1100	950
Input Voltage	120V			
Input Frequency	50/60 Hz			
Input Power	7.2W - 9.6W (Per CRI and CCT)		13.5W	
Input Current	0.15 A			
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)			

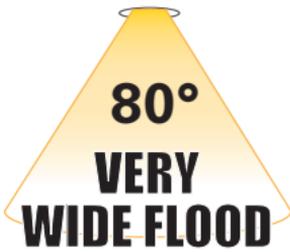
RL56 - 600



RL56 - 900

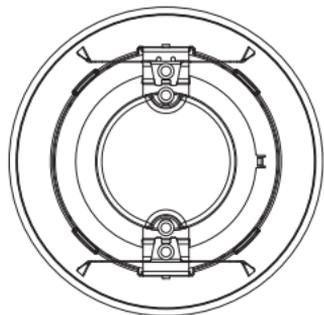
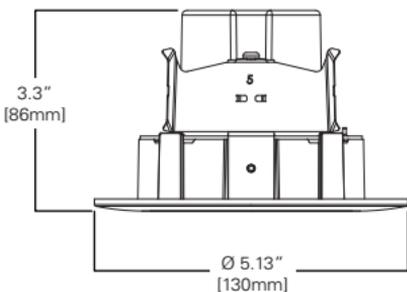


RA4 Series



- Adjustable Gimbal for accent, task, grazing and downlighting
 - 35° Tilt, up to 360° rotation
- Beam distribution options
 - NFL - Narrow Flood (25°)
 - VWFL - Very Wide Flood (80°)
- Up to 640 lumens (lumens per selected CCT and CRI)
- Use to replace 40W R40 lamp (VWFL), or 60W PAR16 (NFL), or 50W PAR20 lamp (NFL)
- 2700K, 3000K Correlated Color Temperature (CCT)
- 90 CRI
- 10.0W, 120V
- Halo matte white finish
- Compatible with most 4" recessed housings
- Flexible mounting with friction blades
- Dimmable to 5% with select dimmers
- Damp location listed
- Rated for IC, ICAT and may be used in Non-IC housings
- Five-year limited warranty

*Lumens per CCT and beam optic



4" LED Retrofit Adjustable Gimbal

Ordering Information

Sample Number: **RA406930WH**

Order Halo housing separately.

RA4 Models – 4" LED Adjustable Gimbal

Very Wide Flood – VWFL Models

RA406927WH= 90 CRI, 2700K

RA406930WH= 90 CRI, 3000K

Narrow Flood – NFL Models

RA406927NFLWH= 90 CRI, 2700K

RA406930NFLWH= 90 CRI, 3000K

LED Housings (Order Separately)

See Housing Compatibility, Page 12

Accessories

HE26LED=Replacement screw base adapter (one included with unit)

RA4 Energy Data	NFL	VWFL
Max. Lumens (3000K)	640	615
Input Voltage	120V	
Input Frequency	50/60 Hz	
Input Power	10W	
Input Current	0.85 A	
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)	



^A Savings are over the life of the Halo RA4 luminaire.

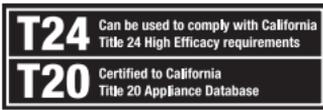
Energy savings: \$387

Replacement lamp savings: \$166

Savings based on \$0.155 per kilowatt hour, average six hours use per day, 50,000 hours of lamp usage, and 60W PAR16 Halogen lamp lumen equivalent.

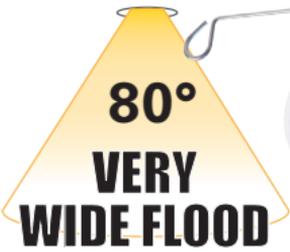


90 CRI

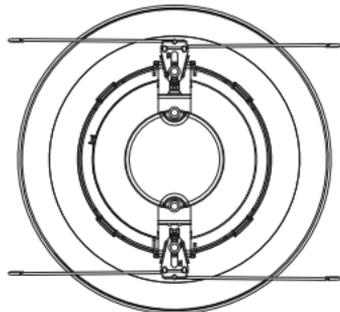
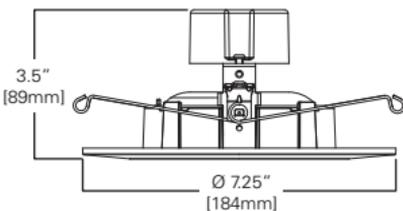


Refer to ENERGY STAR® Certified Products List. Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Title 20 Appliance Efficiency Database.

RA56 Series



- Adjustable Gimbal for accent, task, grazing and downlighting
 - 35° Tilt, up to 360° rotation
- Beam distribution options
 - NFL - Narrow Flood (25°)
 - VWFL - Very Wide Flood (80°)
- Up to 670 lumens (lumens per selected CCT, CRI and beam optic.)
- Use to replace 65W BR30 lamp (VWFL) or 50W PAR30 lamp (NFL)
- 2700K, 3000K Correlated Color Temperature (CCT)
- 90 CRI
- 10.0W, 120V
- Halo matte white finish
- Compatible with most 5" and 6" standard and shallow recessed housings
- Flexible mounting with torsion springs or friction clips (included)
- Dimmable to 5% with select dimmers
- Damp location listed
- Listed use in IC, ICAT and may be used in Non-IC housings
- Five-year limited warranty



5" / 6" LED Retrofit Adjustable Gimbal

Ordering Information

Sample Number: **RA5606930WH**

Order Halo housing separately.

RA56 Models – 5"/6" LED Adjustable Gimbal

Very Wide Flood - VWFL Models

RA5606927WH= 90CRI, 2700K

RA5606930WH= 90CRI, 3000K

Narrow Flood - NFL Models

RA5606927NFLWH= 90CRI, 2700K

RA5606930NFLWH= 90CRI, 3000K

LED Housings (Order Separately)

See Housing Compatibility, Page 13

Accessories

HE26LED=Replacement screw base adapter (one included with unit)

RL56CLIP=Replacement kit of 5" and 6" Friction Clips for retrofitting into an existing housing without torsion spring receiving brackets.

(One set of clips included with the unit.)

OT400P=Oversize Flat White Metal Trim Ring, 6" I.D. x 9-1/4" O.D.

(ring slips behind RA56 ring in stepped configuration)

OT403P=Oversize White Plastic Trim Ring, 6" I.D. x 8" O.D.

(ring slips behind RA56 ring in stepped configuration)

TRM690WH=Oversize Matte White Metal Trim Ring. Designed for RA56 ring to inset into oversize ring for an even (non-stepped) trim surface.

Friction Clips

5" and 6" friction clips for retrofitting into an existing housing without torsion spring receiving brackets.



RA56 Energy Data	NFL	VWFL
Max. Lumens (3000K)	640	670
Input Voltage	120V	
Input Frequency	50/60 Hz	
Input Power	10W	
Input Current	0.85 A	
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)	



^A Savings are over the life of the Halo RA56 luminaire.

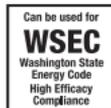
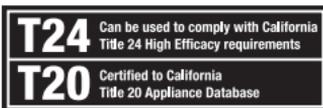
Energy savings: \$426

Replacement lamp savings: \$100

Savings based on \$0.155 per kilowatt hour, average six hours use per day, 50,000 hours of lamp usage, and 65W BR30 lamp lumen equivalent.



90 CRI



Refer to ENERGY STAR® Certified Products List. Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Title 20 Appliance Efficiency Database.

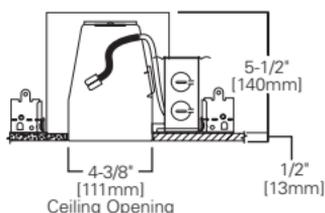
RL4 / RA4 Housing Compatibility

RL4 and RA4 LED are rated for installation in 4" HALO®, All-Pro™ and other housings.

Halo LED	H995ICAT, H995RICAT (Non-screw base, high-efficacy code compliant)
Halo	H99ICAT, H99RTAT, H99TAT
All-Pro	ET400ATSB, ET400RATSB, EI400ATSB
Other Brands	The RL/RA Series is cULus Listed or UL Classified for use with any 4" diameter recessed housing constructed of steel or aluminum with an internal volume that exceeds 62.3 in ³ in addition to those noted above.

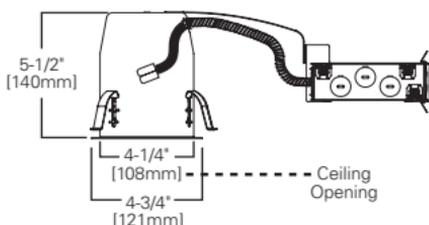
H995ICAT

4" LED, IC, AIR-TITE,
New Construction Housing



H995RICAT

4" LED, IC, AIR-TITE,
Remodel Housing



Lighting Control Solution

Eaton dimmers offer versatile options to set the mood and reduce energy consumption. These compatible LED dimmers are ideal for both residential and light commercial applications and are compatible with decorator (screwless) style devices and wallplates. Refer to www.eaton.com for additional information.



Smart
(AAL06)



Decorator
(DAL06P)



Slide
(SAL06P)



Toggle
(TAL06P)



Powering Business Worldwide

RL56 / RA56 Housing Compatibility

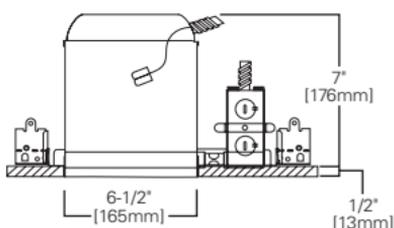
RL56 and RA56 LED are rated for installation in 5" and 6" HALO®, All-Pro™ and other housings.

Halo 5" LED	H550ICAT, H550RICAT (Non-screw base, high-efficacy code compliant)
Halo 6" LED	H2750ICAT, H750ICAT, H750T, H750TCP, H750RICAT, H750RINTD010 (Non-screw base, high-efficacy code compliant)
Halo 5"	H5T, H5RT, H5TM, H5ICAT, H5RICAT, H25ICAT
Halo 6"	H7ICT, H7ICAT, H7T, H7ICATNB, H7ICTNB, H7TNB, H7UICAT, H7UICT, H7TCP, H7RICAT, H7RICT, H7RT, H27T, H27RT, H27ICAT, H27ICT, H27RICAT, H27RICT
Halo LED Retrofit	ML7BXRFK, ML7E26RFK
All-Pro 5"	EI500AT, EI500RAT, ET500, ET500R
All-Pro 6"	EI700, EI700AT, EI700ATNB, EI700U, EI700UAT, EI700NB, EI700R, EI700RAT, ET700, ET700R, EI2700, EI2700AT, EI2700R, ET2700, ET2700R
Other Brands*	The RL/RA Series is cULus Listed or UL Classified for use with any 5"/6" diameter recessed housing constructed of steel or aluminum with an internal volume that exceeds 107.9 in ³ in addition to those noted above.

*When using RL56 torsion springs or with RA56 torsion springs for retrofit some housings will not have torsion spring receiver brackets –use Halo ML7RAB retrofit adapter band (order separately)

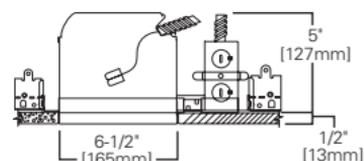
H750ICAT

6" LED, IC, AIR-TITE, Standard New Construction Housing



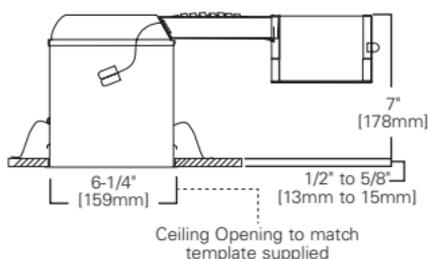
H2750ICAT

6" LED, IC, AIR-TITE, Shallow New Construction Housing



H750RICAT

6" LED, IC, AIR-TITE, Standard Remodel Housing



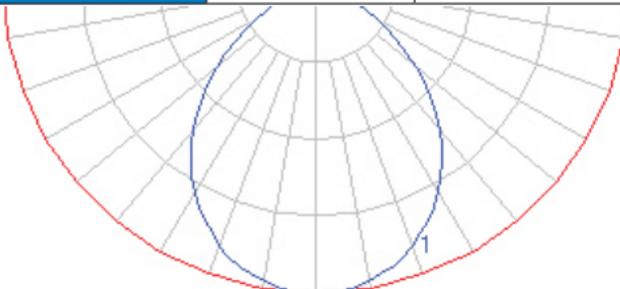
Product and Photometric Data

RL4 and RL56 - 600 Series

Cat No.	CRI	CCT	Lumens	Power (W)	LPW
RL460WH827PK	80	2700	600	7.4	81
RL460WH830PK	80	3000	587	7.2	82
RL460WH835PK	80	3500	589	7.22	82
RL460WH840PK	80	4000	713	7.21	99
RL460WH927PK	90	2700	560	9.63	58
RL460WH930PK	90	3000	581	8.62	67
RL460WH935PK	90	3500	548	8.91	61
RL460WH940PK	90	4000	623	8.65	72
RL560WH6827	80	2700	648	8.03	81
RL560WH6830	80	3000	671	7.23	93
RL560WH6835	80	3500	616	7.23	85
RL560WH6840	80	4000	598	7.17	83
RL560WH6927	90	2700	600	9.65	62
RL560WH6930	90	3000	579	8.02	72
RL560WH6935	90	3500	614	8.95	69
RL560WH6940	90	4000	653	8.6	76

RL56-600 Series Photometric*

RL560WH6830		
Luminaire lumens		671
Input watts		7.23
LER (LPW)		93
Spacing Criteria	0-180	1.22
	90-270	1.22
	Diagonal	1.32
Beam angle (degrees)		101
Field angle (degrees)		148
Zonal lumen	Lumens	% Lumens
0-30	212	32%
0-40	343	51%
0-60	574	86%
0-90	671	100%

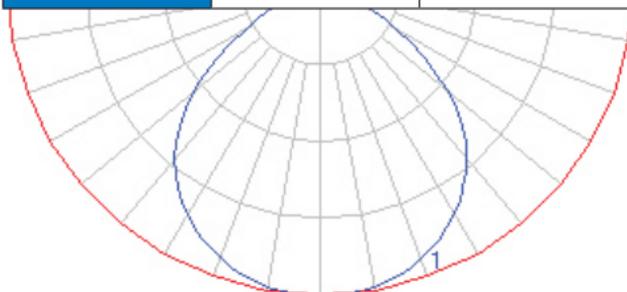


RL56 - 900 SERIES

Cat No.	CRI	CCT	Lumens	Power (W)	LPW
RL560WH9827	80	2700	1000	13.5	74
RL560WH9830	80	3000	1030	13.5	76
RL560WH9835	80	3500	1080	13.5	80
RL560WH9840	80	4000	1100	13.5	81
RL560WH9927	90	2700	850	13.5	63
RL560WH9930	90	3000	885	13.5	66
RL560WH9935	90	3500	910	13.5	67
RL560WH9940	90	4000	930	13.5	69

RL56-900 Series Photometric*

RL560WH9830		
Luminaire lumens		1030
Input watts		13.5
LER (LPW)		76
Spacing Criteria	0-180	1.28
	90-270	1.28
	Diagonal	1.36
Beam angle (degrees)		102
Field angle (degrees)		145
Zonal lumen	Lumens	% Lumens
0-30	334	32%
0-40	545	53%
0-60	908	88%
0-90	1030	100%



- Downlight distribution
- Maximum spacing criteria
- Optimized design for general downlighting
- Exceeds 86% of light between 0-60° cone-of-light zone
- ENERGY STAR® and California Title 24 - zonal and efficacy requirements

*Additional photometric ies files available online.

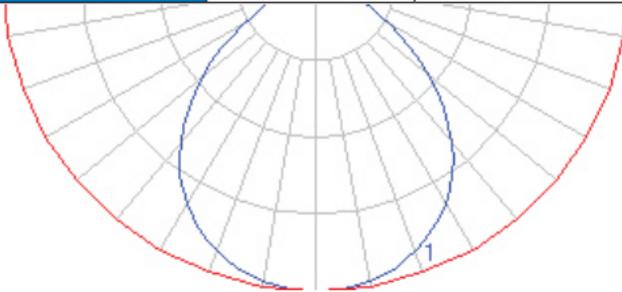
Product and Photometric Data

RA4 and RA56 - Very Wide Flood Series

Cat No.	CRI	CCT	Lumens	Power (W)	LPW
RA406927WH	90	2700	600	10	60
RA406930WH	90	3000	615	10	62
RA5606927WH	90	2700	645	10	64
RA5606930WH	90	3000	670	10	67

RA56 - Very Wide Flood Series Photometric*

RA5606930WH		
Luminaire lumens		670
Input watts		10
LER (LPW)		67
Spacing Criteria	0-180	1.24
	90-270	1.24
	Diagonal	1.3
Beam angle (degrees)		97
Field angle (degrees)		147
Zonal lumen	Lumens	% Lumens
0-30	222	33%
0-40	358	53%
0-60	582	87%
0-90	1030	100%

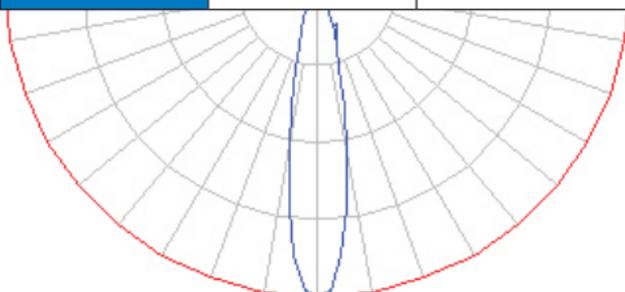


RA4 and RA56 - Narrow Flood Series

Cat No.	CRI	CCT	Lumens	Power (W)	LPW
RA406927NFLWH	90	2700	640	10	64
RA406930NFLWH	90	3000	640	10	64
RA5606927NFLWH	90	2700	630	10	63
RA5606930NFLWH	90	3000	640	10	64

RA56 - Narrow Flood Series Photometric*

RA5606930NFLWH		
Luminaire lumens		640
Input watts		10
LER (LPW)		64
Spacing Criteria	0-180	0.38
	90-270	0.38
	Diagonal	0.38
Beam angle (degrees)		21
Field angle (degrees)		48
Zonal lumen	Lumens	% Lumens
0-30	542	85%
0-40	590	92%
0-60	627	98%
0-90	640	100%



*Additional photometric ies files available online.





Eaton

1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting

Canada Sales
5925 McLaughlin Road
Mississauga, Ontario L5R 1B8
P: 905-501-3000
F: 905-501-3172

Our Lighting Product Lines

Halo
Halo Commercial
Portfolio
IRiS
RSA
Metalux
Corelite
Neo-Ray
Fail-Safe
MWS
Ametrix
Shaper
io
Lumark
McGraw-Edison
Invue
Lumière
Streetworks
AtLite
Sure-Lites

Our Controls Product Lines

Greengate
iLumin
Zero 88
Fifth Light Technology
iLight (International Only)

Eaton

1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting

© 2015 Eaton
All Rights Reserved
Printed in USA
Publication No. BR518009EN
July 2015

Products, specifications and
compliances are subject to
change without notice.

Eaton is a registered trademark.

All other trademarks are property
of their respective owners.



Powering Business Worldwide