

DESCRIPTION

The Halo LT560 is an LED Baffle-Trim Module for 5" and 6" aperture recessed downlights; suitable for new construction, remodel and retrofit installation. The LT560 is cULus Listed for use with Halo and All-Pro, and is UL Classified for use with other compatible 5" and 6" housings. Precision construction makes any housing AIR-TITE for added HVAC savings and code compliance.

| | | |
|-------------|--|------|
| Catalog # | | Type |
| Project | | |
| Comments | | Date |
| Prepared by | | |

SPECIFICATION FEATURES

MECHANICAL

Module - Trim

- Module construction includes LED, heat sink, reflector, lens, baffle and trim ring

Lens

- Regressed lens
- Impact-resistant polycarbonate
- Convex form for lamp-like appearance
- Diffusing for even illumination

Mounting

- Torsion springs are pre-installed and adjust to fit 5" and 6" compatible housings

Housing Compatibility

See Housing Compatibility

LED

- Color Temperature (CCT)
Options: 2700K, 3000K, 3500K, 4000K, 5000K
- CRI: 90
- 90 CRI can be used for California Title 24 compliance/certified to Title 20

LED Chromaticity

- A tight chromaticity specification ensures LED color uniformity, sustainable Color Rendering Index (CRI) and Correlated Color Temperature (CCT) over the useful life of the LED
- LED chromaticity of 3 SDCM exceeds ENERGY STAR® color standards per ANSI C78.377- 2011
- High color performance with R9 greater than 50
- Halo LED serialized testing and measurement ensures color and lumen consistency on a per-unit basis, and validates long-term product consistency over time

ELECTRICAL

Power Connections

- LED connector is a non-screw base luminaire disconnect offering easy installation with the matching Halo 5" and 6" LED

housings

- LED Connector meets California Title-24 high efficacy luminaire requirement for a non-screw base socket, and where required to qualify as a high efficacy luminaire
- The included E26 medium screw-base Edison adapter provides easy retrofit of incandescent housings (see Housing Compatibility)

Ground Connection

Separate grounding cable included on the module for attachment to the housing during installation

LED Driver

- 120V 50/60 Hz constant current dimmable driver provides high-efficiency operation
- If dimming is not required the fixture can be operated from a standard wall switch

Dimming

- Designed for continuous dimming capability to nominally 10% with many 120V Leading Edge (LE) and Trailing Edge (TE) Phase Control dimmers. (Dimmers with low end trim adjustment offer greater assurance of achieving 10% level.)
- Consult dimmer manufacturer for compatibility and conditions of use

Note: some dimmers require a neutral in the wallbox.

Warranty

Five-year limited warranty.

Compliance Labels

- UL/cUL Listed 1598 Luminaire (with listed housings)
- UL Classified (with other housings - see Housing Compatibility)
- UL/cUL Listed for Damp Location
- UL/cUL Listed for Wet Location covered ceiling – Shower Applications

- IP56 Ingress Protection rated
- May be installed in housings in direct contact with insulation** and combustible material

COMPLIANCE

- Airtight certified per ASTM-E283-04 (not exceeding 2.0 CFM under 75 Pascals pressure difference)
- Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Title 20 Appliance Efficiency Database.*
- Can be used for International Energy Conservation Code (IECC) high efficiency luminaire compliance.
- ENERGY STAR® Certified luminaire - consult ENERGY STAR® Certified Product List*
- EMI/RFI per FCC 47CFR Part 15 Class B Consumer limits, suitable for use in residential and commercial installations
- Contains no mercury or lead and RoHS compliant.
- Photometric testing in accordance with IES LM-79
- Lumen maintenance projections in accordance with IES LM-80 and TM-21
- Can be used in closets. Compliant with NFPA 70, NEC section 410.16 (A)(1) and 410.16 (C)(3).



LT560

600 Series 5/6-Inch LED Recessed Retrofit Module-Trim

90CRI
2700K, 3000K, 3500K,
4000K, 5000K

FOR USE IN
INSULATED CEILING
AND NON-INSULATED
CEILING RATED
HOUSINGS

HIGH-EFFICACY LED
WITH INTEGRAL
DRIVER - DIMMABLE

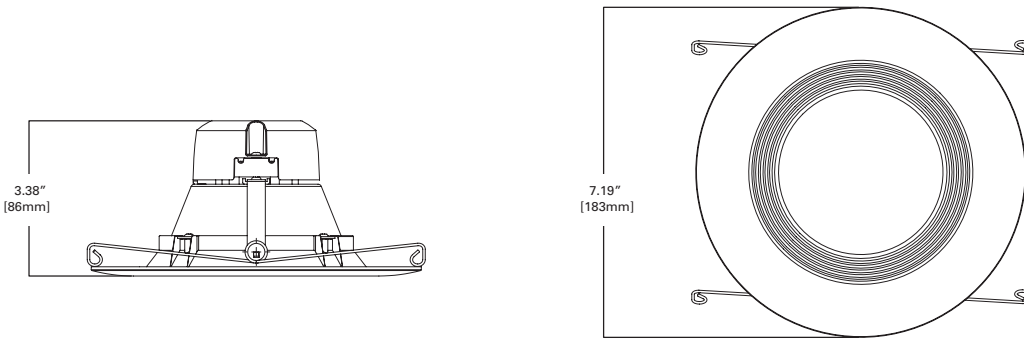
ENERGY DATA

| LT56 Series (Values at non-dimming line voltage) | |
|---|--------------------------------------|
| Input Voltage | 120 VAC |
| Input Current | 0.085A - 0.089A (per input power) |
| Input Power | LT560WH6927 10.0 W |
| | LT560WH6930 10.0 W |
| | LT560WH6935 10.0 W |
| | LT560WH6940 10.4 W |
| | LT560WH6950 10.3 W |
| THD | ≤ 24% |
| PF | ≥ 0.90 |
| T Ambient | -30°C to +40°C |
| Sound Rating | Class A |
| (all values at 25°C without a dimming control in circuit) | |




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.

DIMENSIONS



ORDERING INFORMATION

SAMPLE NUMBER: LT560WH6930
 Complete unit includes an LT560 Baffle-Trim LED module and a 5" or 6" compatible housing ordered separately.

| Models | Accessory (Order Separately) |
|--|---|
| <p>LT560WH6927= 5"/6" Retrofit Baffle - Trim LED Module, 90 CRI, 2700K, Matte White LT560WH6930= 5"/6" Retrofit Baffle - Trim LED Module, 90 CRI, 3000K, Matte White LT560WH6935= 5"/6" Retrofit Baffle - Trim LED Module, 90 CRI, 3500K, Matte White LT560WH6940= 5"/6" Retrofit Baffle - Trim LED Module, 90 CRI, 4000K, Matte White LT560WH6950= 5"/6" Retrofit Baffle - Trim LED Module, 90 CRI, 5000K, Matte White</p> | <p>HE26LED=Replacement screw base adapter (one included with unit)</p>  <p>E26 Screw base adapter for retrofit (included)</p> |

HOUSING COMPATIBILITY

Compatible Halo LED Housings with LED luminaire connector (high-efficacy compliant)

| HALO LED | Recessed Can Size | Catalog Number |
|-----------------|-------------------|--|
| | 5" | H550ICAT, H550RICAT |
| | 6" | H750ICAT, H750RICAT, H750T, H750TCP, H2750ICAT, H2750RICAT |

Halo LED Retrofit Enclosures

| HALO | 6" | Catalog Number |
|-------------|-----------|---------------------|
| | | ML7BXRFK, ML7E26RFK |

Compatible Halo Incandescent E26 Screwbase Housings

| HALO | 5" | Catalog Number |
|-------------|-----------|----------------|
| | | 6" |

Compatible All-Pro Incandescent E26 Screwbase Housings

| ALL-PRO | 5" | Catalog Number |
|----------------|-----------|----------------|
| | | 6" |

LT56 Series LED Retrofit is UL Classified for retrofit in the following 5/6" recessed housings:

The LT Series LED light module - trim combination 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 in³ in addition to those noted above.

Product Specifications

LT560WH6927 - 90 CRI

| | |
|---|-------------------|
| LED lighting facts A Program of the U.S. DOE | |
| Light Output (Lumens) | 700 |
| Watts | 10 |
| Lumens per Watt (Efficacy) | 70 |
| Color Accuracy Color Rendering Index (CRI) | 90 |
| Light Color Correlated Color Temperature (CCT) | 2700 (Warm White) |
| | |
| <small>All results are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.</small> | |
| <small>Visit www.lightingfacts.com for the Label Reference Guide.</small> | |
| <small>Registration Number: F4QJ-BAY23A (1/12/2016) Model Number: LT560WH6927 Type: Luminaire - Downlight</small> | |

LT560WH6930 - 90 CRI

| | |
|---|---------------------|
| LED lighting facts A Program of the U.S. DOE | |
| Light Output (Lumens) | 683 |
| Watts | 10 |
| Lumens per Watt (Efficacy) | 68.3 |
| Color Accuracy Color Rendering Index (CRI) | 90 |
| Light Color Correlated Color Temperature (CCT) | 3000 (Bright White) |
| | |
| <small>All results are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.</small> | |
| <small>Visit www.lightingfacts.com for the Label Reference Guide.</small> | |
| <small>Registration Number: F4QJ-XBLXSH (8/16/2016) Model Number: LT560WH6930 (Upgrade: 8/16/2016) Type: Luminaire - Downlight</small> | |

LT560WH6935 - 90 CRI

| | |
|---|---------------------|
| LED lighting facts A Program of the U.S. DOE | |
| Light Output (Lumens) | 697 |
| Watts | 10 |
| Lumens per Watt (Efficacy) | 69.7 |
| Color Accuracy Color Rendering Index (CRI) | 90 |
| Light Color Correlated Color Temperature (CCT) | 3500 (Bright White) |
| | |
| <small>All results are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.</small> | |
| <small>Visit www.lightingfacts.com for the Label Reference Guide.</small> | |
| <small>Registration Number: F4QJ-6Q8R24 (8/16/2016) Model Number: LT560WH6935 (Upgrade: 8/16/2016) Type: Luminaire - Downlight</small> | |

LT560WH6940 - 90 CRI

| | |
|---|---------------------|
| LED lighting facts A Program of the U.S. DOE | |
| Light Output (Lumens) | 737 |
| Watts | 10.4 |
| Lumens per Watt (Efficacy) | 70.87 |
| Color Accuracy Color Rendering Index (CRI) | 90 |
| Light Color Correlated Color Temperature (CCT) | 4000 (Bright White) |
| | |
| <small>All results are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.</small> | |
| <small>Visit www.lightingfacts.com for the Label Reference Guide.</small> | |
| <small>Registration Number: F4QJ-TTCXMG (1/2/2016) Model Number: LT560WH6940 Type: Luminaire - Downlight</small> | |

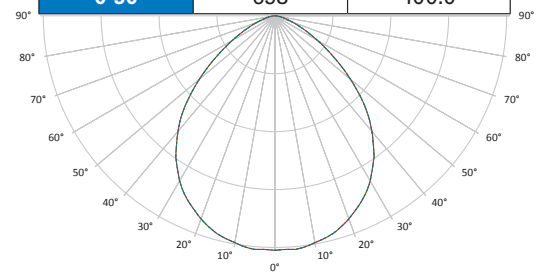
LT560WH6950 - 90 CRI

| | |
|---|-----------------|
| LED lighting facts A Program of the U.S. DOE | |
| Light Output (Lumens) | 754 |
| Watts | 10.3 |
| Lumens per Watt (Efficacy) | 73.2 |
| Color Accuracy Color Rendering Index (CRI) | 90 |
| Light Color Correlated Color Temperature (CCT) | 5000 (Daylight) |
| | |
| <small>All results are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.</small> | |
| <small>Visit www.lightingfacts.com for the Label Reference Guide.</small> | |
| <small>Registration Number: F4QJ-18BXF (8/16/2016) Model Number: LT560WH6950 (Upgrade: 8/16/2016) Type: Luminaire - Downlight</small> | |

Photometric Data

LT56 Photometric*

| LT560WH6930 | | |
|-----------------------|----------|----------|
| Luminaire lumens | 698 | |
| Input watts | 10 | |
| LER (LPW) | 69.8 | |
| Spacing Criteria | 0-180 | 1.21 |
| | 90-270 | 1.21 |
| | Diagonal | 1.27 |
| Beam angle (degrees) | 93.3 | |
| Field angle (degrees) | 137.9 | |
| Zonal lumen | Lumens | % Lumens |
| 0-30 | 253 | 36.3 |
| 0-40 | 405 | 58.0 |
| 0-60 | 632 | 90.6 |
| 0-90 | 698 | 100.0 |



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

DESCRIPTION

The Halo LT560 is an LED Baffle-Trim Module for 5" and 6" aperture recessed downlights; suitable for new construction, remodel and retrofit installation. The LT560 is cULus Listed for use with Halo and All-Pro, and is UL Classified for use with other compatible 5" and 6" housings. Precision construction makes any housing AIR-TITE for added HVAC savings and code compliance.

| | | |
|-------------|--|------|
| Catalog # | | Type |
| Project | | |
| Comments | | Date |
| Prepared by | | |

SPECIFICATION FEATURES

MECHANICAL

Module - Trim

- Module construction includes LED, heat sink, reflector, lens, baffle and trim ring

Lens

- Regressed lens
- Impact-resistant polycarbonate
- Convex form for lamp-like appearance
- Diffusing for even illumination

Mounting

- Torsion springs are pre-installed and adjust to fit 5" and 6" compatible housings

Housing Compatibility

See Housing Compatibility

LED

- Color Temperature (CCT)
Options: 2700K, 3000K, 3500K, 4000K, 5000K
- CRI: 90
- 90 CRI can be used for California Title 24 compliance/certified to Title 20

LED Chromaticity

- A tight chromaticity specification ensures LED color uniformity, sustainable Color Rendering Index (CRI) and Correlated Color Temperature (CCT) over the useful life of the LED
- LED chromaticity of 3 SDCM exceeds ENERGY STAR® color standards per ANSI C78.377- 2011
- High color performance with R9 greater than 50
- Halo LED serialized testing and measurement ensures color and lumen consistency on a per-unit basis, and validates long-term product consistency over time

ELECTRICAL

Power Connections

- LED connector is a non-screw base luminaire disconnect offering easy installation with the matching Halo 5" and 6" LED

housings

- LED Connector meets California Title-24 high efficacy luminaire requirement for a non-screw base socket, and where required to qualify as a high efficacy luminaire
- The included E26 medium screw-base Edison adapter provides easy retrofit of incandescent housings (see Housing Compatibility)

Ground Connection

Separate grounding cable included on the module for attachment to the housing during installation

LED Driver

- 120V 50/60 Hz constant current dimmable driver provides high-efficiency operation
- If dimming is not required the fixture can be operated from a standard wall switch

Dimming

- Designed for continuous dimming capability to nominally 10% with many 120V Leading Edge (LE) and Trailing Edge (TE) Phase Control dimmers. (Dimmers with low end trim adjustment offer greater assurance of achieving 10% level.)
- Consult dimmer manufacturer for compatibility and conditions of use

Note: some dimmers require a neutral in the wallbox.

Warranty

Five-year limited warranty.

Compliance Labels

- UL/cUL Listed 1598 Luminaire (with listed housings)
- UL Classified (with other housings - see Housing Compatibility)
- UL/cUL Listed for Damp Location
- UL/cUL Listed for Wet Location covered ceiling – Shower Applications

- IP56 Ingress Protection rated
- May be installed in housings in direct contact with insulation** and combustible material

COMPLIANCE

- Airtight certified per ASTM-E283-04 (not exceeding 2.0 CFM under 75 Pascals pressure difference)
- Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Title 20 Appliance Efficiency Database.*
- Can be used for International Energy Conservation Code (IECC) high efficiency luminaire compliance.
- ENERGY STAR® Certified luminaire - consult ENERGY STAR® Certified Product List*
- EMI/RFI per FCC 47CFR Part 15 Class B Consumer limits, suitable for use in residential and commercial installations
- Contains no mercury or lead and RoHS compliant.
- Photometric testing in accordance with IES LM-79
- Lumen maintenance projections in accordance with IES LM-80 and TM-21
- Can be used in closets. Compliant with NFPA 70, NEC section 410.16 (A)(1) and 410.16 (C)(3).



LT560

600 Series 5/6-Inch LED Recessed Retrofit Module-Trim

90CRI
2700K, 3000K, 3500K,
4000K, 5000K

FOR USE IN
INSULATED CEILING
AND NON- INSULATED
CEILING RATED
HOUSINGS

HIGH-EFFICACY LED
WITH INTEGRAL
DRIVER - DIMMABLE

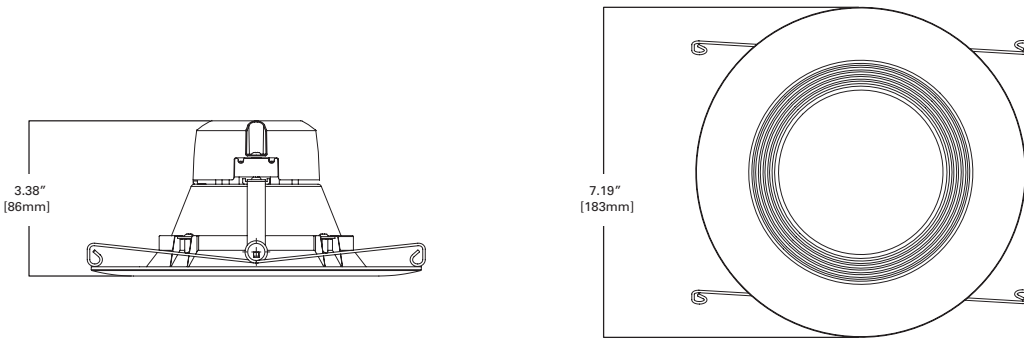
ENERGY DATA

| LT56 Series (Values at non-dimming line voltage) | |
|---|--------------------------------------|
| Input Voltage | 120 VAC |
| Input Current | 0.085A - 0.089A (per input power) |
| Input Power | LT560WH6927 10.0 W |
| | LT560WH6930 10.0 W |
| | LT560WH6935 10.0 W |
| | LT560WH6940 10.4 W |
| | LT560WH6950 10.3 W |
| THD | ≤ 24% |
| PF | ≥ 0.90 |
| T Ambient | -30°C to +40°C |
| Sound Rating | Class A |
| (all values at 25°C without a dimming control in circuit) | |



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.

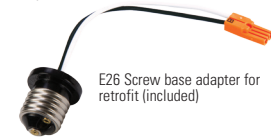
DIMENSIONS



ORDERING INFORMATION

SAMPLE NUMBER: LT560WH6930
 Complete unit includes an LT560 Baffle-Trim LED module and a 5" or 6" compatible housing ordered separately.

| Models | Accessory (Order Separately) |
|--|---|
| LT560WH6927= 5"/6" Retrofit Baffle - Trim LED Module, 90 CRI, 2700K, Matte White LT560WH6930= 5"/6" Retrofit Baffle - Trim LED Module, 90 CRI, 3000K, Matte White LT560WH6935= 5"/6" Retrofit Baffle - Trim LED Module, 90 CRI, 3500K, Matte White LT560WH6940= 5"/6" Retrofit Baffle - Trim LED Module, 90 CRI, 4000K, Matte White LT560WH6950= 5"/6" Retrofit Baffle - Trim LED Module, 90 CRI, 5000K, Matte White | HE26LED =Replacement screw base adapter (one included with unit) |



E26 Screw base adapter for retrofit (included)

HOUSING COMPATIBILITY

Compatible Halo LED Housings with LED luminaire connector (high-efficiency compliant)

| HALO LED | Recessed Can Size | Catalog Number |
|----------|-------------------|--|
| | 5" | H550ICAT, H550RICAT |
| | 6" | H750ICAT, H750RICAT, H750T, H750TCP, H2750ICAT, H2750RICAT |

Halo LED Retrofit Enclosures

| HALO | 6" | ML7BXRFK, ML7E26RFK |
|------|----|---------------------|
|------|----|---------------------|

Compatible Halo Incandescent E26 Screwbase Housings

| HALO | 5" | H5ICAT, H5ICATNB, H5RICAT, H5T, H5TNB, H5RT, H5TM, H25ICAT, H25ICATNB, E5ICAT, E5ICATNB, E5RICAT, E5TAT, E5TATNB, E5RTAT |
|------|----|--|
| | 6" | H7ICAT, H7RICAT, H7ICT, H7RICT, H7ICATNB, H7ICTNB, H7T, H7RT, H7TNB, H7TCP, H7UICAT, H7UICATNB, H27ICAT, H27RICAT, H27ICT, H27RICT, H27T, H27RT, E7ICAT, E7RICAT, E7ICATNB, E27ICAT, E27RICAT, E7TAT, E7RTAT |

Compatible All-Pro Incandescent E26 Screwbase Housings

| ALL-PRO | 5" | EI500AT, EI500RAT, ET500, ET500R |
|---------|----|---|
| | 6" | EI700AT, EI700RAT, EI700, EI700R, EI700ATNB, EI700NB, EI700U, EI700UAT, ET700, ET700R, EI2700AT, EI2700, EI2700R, ET2700, ET2700R |

LT56 Series LED Retrofit is UL Classified for retrofit in the following 5/6" recessed housings:

The LT Series LED light module - trim combination 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 in³ in addition to those noted above.

Product Specifications

LT560WH6927 - 90 CRI

| | |
|---|-------------------|
| LED lighting facts A Program of the U.S. DOE | |
| Light Output (Lumens) | 700 |
| Watts | 10 |
| Lumens per Watt (Efficacy) | 70 |
| Color Accuracy Color Rendering Index (CRI) | 90 |
| Light Color Correlated Color Temperature (CCT) | 2700 (Warm White) |
| | |
| <small>All results are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.</small> | |
| <small>Visit www.lightingfacts.com for the Label Reference Guide.</small> | |
| <small>Registration Number: F4QJ-BAY23A (1/12/2016) Model Number: LT560WH6927 Type: Luminaire - Downlight</small> | |

LT560WH6930 - 90 CRI

| | |
|---|---------------------|
| LED lighting facts A Program of the U.S. DOE | |
| Light Output (Lumens) | 683 |
| Watts | 10 |
| Lumens per Watt (Efficacy) | 68.3 |
| Color Accuracy Color Rendering Index (CRI) | 90 |
| Light Color Correlated Color Temperature (CCT) | 3000 (Bright White) |
| | |
| <small>All results are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.</small> | |
| <small>Visit www.lightingfacts.com for the Label Reference Guide.</small> | |
| <small>Registration Number: F4QJ-XBLXSH (8/16/2016) Model Number: LT560WH6930 (Upgrade: 8/16/2016) Type: Luminaire - Downlight</small> | |

LT560WH6935 - 90 CRI

| | |
|---|---------------------|
| LED lighting facts A Program of the U.S. DOE | |
| Light Output (Lumens) | 697 |
| Watts | 10 |
| Lumens per Watt (Efficacy) | 69.7 |
| Color Accuracy Color Rendering Index (CRI) | 90 |
| Light Color Correlated Color Temperature (CCT) | 3500 (Bright White) |
| | |
| <small>All results are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.</small> | |
| <small>Visit www.lightingfacts.com for the Label Reference Guide.</small> | |
| <small>Registration Number: F4QJ-6Q8R24 (8/16/2016) Model Number: LT560WH6935 (Upgrade: 8/16/2016) Type: Luminaire - Downlight</small> | |

LT560WH6940 - 90 CRI

| | |
|---|---------------------|
| LED lighting facts A Program of the U.S. DOE | |
| Light Output (Lumens) | 737 |
| Watts | 10.4 |
| Lumens per Watt (Efficacy) | 70.87 |
| Color Accuracy Color Rendering Index (CRI) | 90 |
| Light Color Correlated Color Temperature (CCT) | 4000 (Bright White) |
| | |
| <small>All results are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.</small> | |
| <small>Visit www.lightingfacts.com for the Label Reference Guide.</small> | |
| <small>Registration Number: F4QJ-TTCXMG (1/2/2016) Model Number: LT560WH6940 Type: Luminaire - Downlight</small> | |

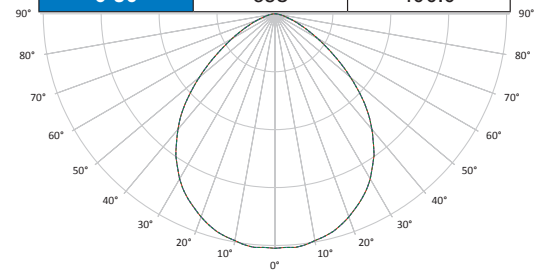
LT560WH6950 - 90 CRI

| | |
|---|-----------------|
| LED lighting facts A Program of the U.S. DOE | |
| Light Output (Lumens) | 754 |
| Watts | 10.3 |
| Lumens per Watt (Efficacy) | 73.2 |
| Color Accuracy Color Rendering Index (CRI) | 90 |
| Light Color Correlated Color Temperature (CCT) | 5000 (Daylight) |
| | |
| <small>All results are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.</small> | |
| <small>Visit www.lightingfacts.com for the Label Reference Guide.</small> | |
| <small>Registration Number: F4QJ-18BXF (8/16/2016) Model Number: LT560WH6950 (Upgrade: 8/16/2016) Type: Luminaire - Downlight</small> | |

Photometric Data

LT56 Photometric*

| LT560WH6930 | | |
|-----------------------|----------|----------|
| Luminaire lumens | 698 | |
| Input watts | 10 | |
| LER (LPW) | 69.8 | |
| Spacing Criteria | 0-180 | 1.21 |
| | 90-270 | 1.21 |
| | Diagonal | 1.27 |
| Beam angle (degrees) | 93.3 | |
| Field angle (degrees) | 137.9 | |
| Zonal lumen | Lumens | % Lumens |
| 0-30 | 253 | 36.3 |
| 0-40 | 405 | 58.0 |
| 0-60 | 632 | 90.6 |
| 0-90 | 698 | 100.0 |



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