

ADDENDUM 01 | Issue Date: 05/21/2026

FROM: Goodwyn Mills Cawood (GMC)
915 Lady Street, Suite C
Columbia, SC 29201

TO: Prospective Bidders

The following items shall take precedence over the drawings and specifications for the above named project and shall become a part of the contract documents. Where any item called for in the specifications, or indicated on the drawings, is not supplemented hereby, the original requirements shall remain in effect. Where any original item is amended, voided or superseded hereby, the provisions of such item not specifically amended, voided or superseded shall remain in effect.

GENERAL

1. **The bidder must acknowledge receipt of the Addendum in the box(es) provided on the Bid Form. Failure to acknowledge may be grounds for rejection of the bid.**
2. Bidders are hereby advised that information from bid documents which are not obtained from the sources listed in the Invitation for Bids is not legitimate and the bidder accepts full responsibility for any differences. GMC has not authorized the scanning of the documents. Bidders should be aware that the plans are copyrighted and any unlawful use is subject to legal action. Bidders are further advised that the purchase and/or use of partial bid documents is not recommended and bidder will be responsible for any discrepancies which might have been avoided had a full set of documents been reviewed.
3. Listing of multiple products or manufacturers within specifications or approval of products or manufacturers via substitution request does not waive or preclude any and all performance, warranty or specific requirements listed within the specification unless specifically noted in the Addendum. Only manufacturers and products meeting the specification requirements and listed in the specifications or included in the Addendum shall be approved for the project.

ATTACHMENTS

1. 8.5" x 11" **Approved substitution requests documentation for products indicated herein, attached to Addendum 01 dated 05/21/2026.**
2. 30" x 42" **Sheet C-6.0 Grading and Utility Plan, Addendum 02, dated 05/21/2026. Attached to Addendum 01 dated 05/21/2026.**

CHANGES TO PROJECT MANUAL:

1. **Sheet C-6.0 Grading and Utility Plan;**
 - a. The limits of asphalt demolition and the extent of the new concrete slab have been revised to reflect the correct scope of work.

APPROVED SUBSTITUTION REQUESTS:

1. **Lighting Fixture-LW, refer to Sheet E1.01:**
 - a. **FINELITE** is an acceptable manufacturer, **HP-4** is an acceptable product.
2. **Lighting Fixture-P2, refer to Sheet E1.01:**
 - a. **HE WILLIAMS** is an acceptable manufacturer, **6CR** is an acceptable product.
3. **EXIT Sign-EX1, refer to Sheet E1.01:**
 - a. **BEGHELLI USA** is an acceptable manufacturer, **LC1E** is an acceptable product.

End of Addendum

PRIOR APPROVALS

May 14 2026

Project Number PJ00148529

MTC AMSC EXPANSION AIRPORT



- Prepared By -

DEBBIE PARHAM - SESCO - South Carolina
864-675-9250

dparham@sescolighting.com

39 Pelham Davis Circle
Greenville, SC 29615, USA



PRIOR APPROVALS
MTC AMSC EXPANSION AIRPORT
Project Number PJ00148529

Table of Contents

Datasheets

Unknown			
Type	Manufacturer	Model Number & Description	Pg.
LW	FINELITE	HP-4-WM-D-4'-TL1000LM/FT-840-F-96LG-VOLT-SC-FC-1%-MB-FE-STD FINISH	2
P2	HE WILLIAMS	6CR-TL-10-L30/840-STD FINISH-DIM-UNV-OM-CS-PM48/STD FINISH	22
EX1	BEGHELLI USA	LC1E-SA-LR/LG-1-W-W	28



PRIOR APPROVALS
MTC AMSC EXPANSION AIRPORT

Project Number PJ00148529

Datasheets

Unknown



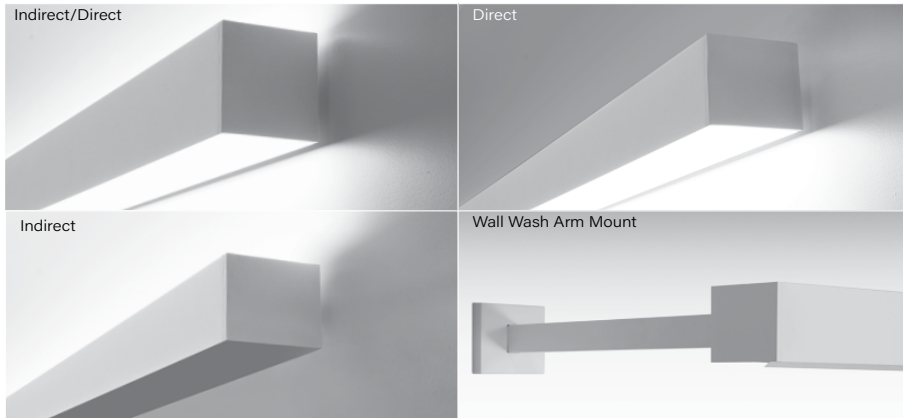
Job Name : MTC AMSC EXPANSION AIRPORT
Manufacturer : FINELITE
Model Number : HP-4-WM-D-4'-TL1000LM/FT-840-F-96LG-VOLT-SC-FC-1%-MB-FE-STD
FINISH

Type :
LW

Submitted by:		Date:
Type:	Project:	
Ordering Info:		



High Performance 4" Aperture (HP-4) Wall Mount and Arm Mount



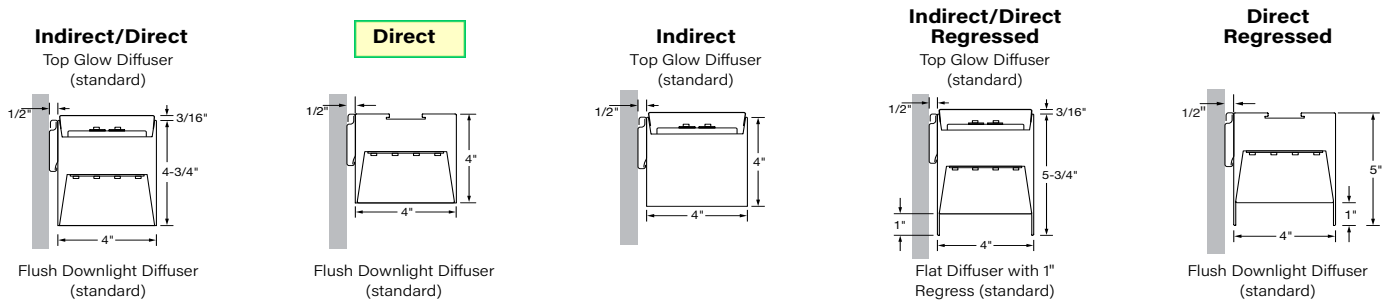
High Performance 4" Aperture Wall Mount family includes Indirect/Direct, Direct, Indirect, and Wall Wash Arm Mount luminaires. HP-4 delivers excellent performance using an advanced optical design and mid-power LEDs deliver uniform illumination with a clean aesthetic, while adaptable for a wide range of applications and spaces. 10-year performance-based warranty on all standard components.

This product is enrolled in the International Living Future Institute (ILFI) Declare 2.0 Program and is third-party verified with options achieving **Red List Approved** and **Red List Declared** status.

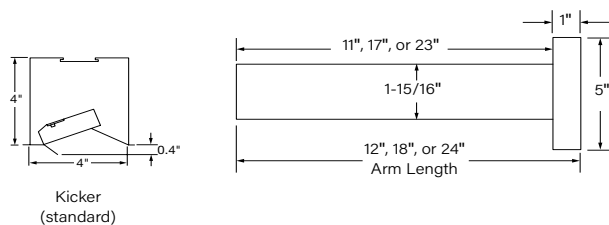
Signal White is standard finish

Note: see page 6 for all aesthetic options

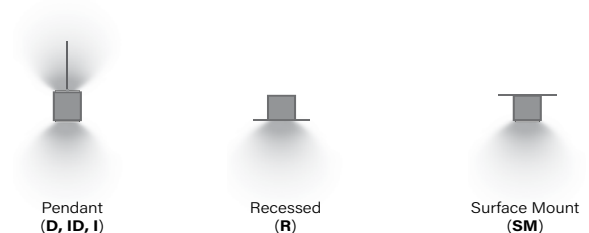
CROSS SECTIONS



Wall Wash Arm Mount



ALSO AVAILABLE IN



Finelite, Inc. • 30500 Whipple Road • Union City • CA 94587-1530 • 510-441-1100 • www.finelite.com. © 2025 FINELITE, INC. ALL RIGHTS RESERVED. V23 CTK0237. 12/25. Due to continuing product improvements, Finelite reserves the right to change specifications without notice. Visit www.finelite.com for the most current data. Protected by one or more US Patents: 8915613; D702,391; D702,390; D700,732

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 A brand of **legrand**



Job Name : MTC AMSC EXPANSION AIRPORT
Manufacturer : FINELITE
Model Number : HP-4-WM-D-4'-TL1000LM/FT-840-F-96LG-VOLT-SC-FC-1%-MB-FE-STD FINISH

Type :
LW



Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Wall Mount and Arm Mount

Clear Form

Ordering Guide Example: HP - 4 - WM - ID - 36' - S - S - 835 - F - F - 96LG - 120 - SC - FC-10% - MB - FE - SW - LGD18W - OBO1 - CP - SQ2

BODY TYPE			OUTPUT and LED TYPE			
Platform	Series Name	Luminaire Type	Luminaire Distribution	Total Length of Run	Uplight Output ID & I Only (Flush)	Downlight Output ID & D Only (Flush)
<input checked="" type="radio"/> HP - High Performance	<input checked="" type="radio"/> 4	<input checked="" type="radio"/> WM - Wall Mount ¹ <input type="radio"/> WM RG - Wall Mount Regressed ¹ <input type="radio"/> AM - Arm Mount <input type="radio"/> AM RG - Arm Mount Regressed	Wall Mount <input checked="" type="radio"/> D - Direct <input type="radio"/> ID - Indirect/Direct <input type="radio"/> I - Indirect Arm Mount <input type="radio"/> D - Direct <input type="radio"/> ID - Indirect/Direct <input type="radio"/> I - Indirect (Not available for AM RG) <input type="radio"/> WW-D - Wall Wash Direct (Not available for AM RG)	4' Minimum 2' section length. Increments accurate to 1/16" (±1/32"), standard. 12' maximum section length. Use Configuration section to specify size and shape.	<input type="radio"/> S - Standard (428 lm/ft) <input type="radio"/> B - Boosted (538 lm/ft) <input type="radio"/> H - High (813 lm/ft) <input type="radio"/> V - Very High (1045 lm/ft) <input type="radio"/> TL - Tailored: _____lm/ft*	<input type="radio"/> S - Standard (379 lm/ft) <input type="radio"/> B - Boosted (477 lm/ft) <input type="radio"/> H - High (721 lm/ft) <input type="radio"/> V - Very High (927 lm/ft) <input checked="" type="radio"/> TL - Tailored: _____lm/ft* TL1000LM/FT

MECHANICAL/OPTICAL OPTIONS			ELECTRICAL OPTIONS	
LED CRI/CCT	Uplight Optics ID & I Only	Downlight Optics ID & D Only	Reflector System	Voltage
<input type="radio"/> 830 - 80 CRI, 3000K <input type="radio"/> 835 - 80 CRI, 3500K <input checked="" type="radio"/> 840 - 80 CRI, 4000K <input type="radio"/> 930 - 90 CRI, 3000K <input type="radio"/> 935 - 90 CRI, 3500K <input type="radio"/> 940 - 90 CRI, 4000K <input type="radio"/> 8TW - 80 CRI, Tunable White <input type="radio"/> 9TW - 90 CRI, Tunable White	<input type="radio"/> TG - Top Glow (standard) <input type="radio"/> F - Flush <input type="radio"/> ASY-L - Asymmetric Left Optic <input type="radio"/> ASY-R - Asymmetric Right Optic <input type="radio"/> ASYTG-L - Asymmetric Left Optic with Top Glow <input type="radio"/> ASYTG-R - Asymmetric Right Optic with Top Glow <input type="radio"/> WSO - Widespread Optic <input type="radio"/> WSO TG - Widespread Optic with Top Glow	<input checked="" type="radio"/> F - Flush (standard) ¹ <input type="radio"/> BG - Bottom Glow ¹ <input type="radio"/> DAO-L - Downlight Asymmetric Optic Left ¹ <input type="radio"/> DAO-R - Downlight Asymmetric Optic Right ¹ <input type="radio"/> DL - 1" Drop Down Lens ¹ <input type="radio"/> RG-D - Flat Diffuser with 1" Regress ^{1,2} <input type="radio"/> RG-WCB - White Cross Blade Baffle ^{1,2} <input type="radio"/> RG-LHE - Hollowed Ellipse Louver ^{1,2} <input type="radio"/> RG-LHC - Hex Louver ^{1,2} <input type="radio"/> K - Kicker for Wall Wash only (standard) ³ <input type="radio"/> FO - Fully Open for Wall Wash only	<input checked="" type="radio"/> 96LG - 96 Low Gloss White <input type="radio"/> SSA - Semi-Specular Aluminum for Wall Wash only	<input type="radio"/> 120 - 120 Voltage <input type="radio"/> 277 - 277 Voltage <input type="radio"/> 347 - 347 Voltage (OTI only)
			Circuiting ⁴ <input type="radio"/> SC - Single Circuit* One single circuit in a run <input type="radio"/> DC - Dual Circuit* ⁵ Independent control of up and down separately in an I/D style fixture <input type="radio"/> MC - Multi-Circuit* More than one switch leg or zone. Factory shop drawings required	

ELECTRICAL OPTIONS		MOUNTING OPTIONS		OTHER OPTIONS	
Driver Selection	DMX Driver Options	Mounting Method	Endcap Style	Finish	
0-10V Driver Options <input type="radio"/> FC-10% - 0-10V 10% (standard) <input checked="" type="radio"/> FC-1% - 0-10V 1% <input type="radio"/> OTI-10% - EldoLED OTI, 0-10V 10% ⁶ <input type="radio"/> OTI-1% - EldoLED OTI, 0-10V 1% ⁶ <input type="radio"/> ELD-10V-0% - EldoLED SOLOdrive, 0-10V 0.1% <input type="radio"/> 10V-TW-10% - EldoLED OTI, 0-10V 10% (Tunable White) ⁶ DALI Driver Options <input type="radio"/> FC-DALI-1% - DALI 1% <input type="radio"/> DXL-DALI-1% - EldoLED Dexal, 1% <input type="radio"/> ELD-DALI-0% - EldoLED SOLOdrive, 0.1% <input type="radio"/> ELD-DALI-TW - EldoLED DUALdrive LightShape, 0.1% (Tunable White)	<input type="radio"/> DMX-DMX - EldoLED POWERdrive, 0.1% <input type="radio"/> ELD-DMX-TW - EldoLED POWERdrive, 0.1% (Tunable White) Lutron Driver Options <input type="radio"/> LUT-ES1 - Lutron, Ecosystem 1% <input type="radio"/> LUT-TW - Lutron LD2 DALI-2 1% (Tunable White)	<input checked="" type="radio"/> MB - Mounting Bracket Wall Mount only <input type="radio"/> AM12 - 12" Arm Mount only <input type="radio"/> AM18 - 18" Arm Mount only <input type="radio"/> AM24 - 24" Arm Mount only	<input checked="" type="radio"/> FE - Flat Endcap (standard) <input type="radio"/> DE - 1" Drop Endcap ⁷ <input type="radio"/> OE - Open Endcap ⁸	<input type="radio"/> SW - Signal White (standard) <input type="radio"/> FB - Finelite Black ⁹ <input type="radio"/> SA - Satin Aluminum ⁹ <input type="radio"/> MM01 - Gray Elm ¹⁰ <input type="radio"/> MM02 - White Oak ¹⁰ <input type="radio"/> MM03 - Teak ¹⁰ <input type="radio"/> MM04 - Walnut ¹⁰ <input type="radio"/> ### - RAL Color Code ¹⁰	

OTHER OPTIONS		Emergency Style (Optional)		Integrated Sensor (Optional) ⁹		Special Options (Optional)		Configuration ¹⁵		
Emergency Style (Optional)	Clear Selection	Emergency Style (Optional)	Clear Selection	Integrated Sensor (Optional) ⁹	Clear Selection	Special Options (Optional)	Clear Selection	Configuration ¹⁵	Clear Selection	
<input type="radio"/> LGD18W - Legrand 18W Brand Battery Back-up <input type="radio"/> LGD10W - Legrand 10W Brand Battery Back-up <input type="radio"/> EM/GEN - Emergency to Generator <input type="radio"/> NL - Night Light <input type="radio"/> BSL722 - Bodine Battery Back up <input type="radio"/> BSL310LP - Bodine Battery Back up Low Profile <input type="radio"/> BSL10T3 - Bodine Battery Back up Low Profile Compact <input type="radio"/> GTD - Generator Transfer Device <input type="radio"/> ALCR - Automatic Load Control Relay		<input type="radio"/> LUT-ES1 - Lutron, Ecosystem 1% <input type="radio"/> LUT-TW - Lutron LD2 DALI-2 1% (Tunable White)		<input type="radio"/> OBO1 - WS FS-305 w/ FS-L6 lens on/off (max mounting height 8") ¹¹ OCC Sensor <input type="radio"/> OBO2 - WS FS-305 w/ FS-L3W lens on/off (max mounting height 20") ¹¹ OCC Sensor <input type="radio"/> OBO3 - WS FS-305D w/ FS-L6 lens Dim to 50% (max mounting height 8") ¹¹ OCC Sensor <input type="radio"/> OBO4 - WS FS-305D w/ FS-L3W lens Dim to 50% (max mounting height 20") ¹¹ OCC Sensor <input type="radio"/> OBO5 - WS FS-505 Low Voltage Stair Mount Sensor <input type="radio"/> OBD - Daylight <input type="radio"/> W601 - Wattstopper Sensor ¹² <input type="radio"/> CLM - Wattstopper Plus RF <input type="radio"/> SLM - Wattstopper Plus Sensor		<input type="radio"/> CP - Chicago Plenum <input type="radio"/> RLA - Red List Approved <input type="radio"/> RLD - Red List Declared <input type="radio"/> BABA - Build America, Buy America Act ¹⁵ (Wall Mount Direct only)	<input type="radio"/> SQ - Square (side 1) <input type="radio"/> REC - Rectangle (side 1 x side 2) <input type="radio"/> L - "L" Shape (side 1 x side 2) <input type="radio"/> U - "U" Shape (side 1 x side 2 x side 3) <input type="radio"/> 99CFG - Custom Configuration ¹⁷			

¹ Not available for Wall Wash
² Regressed only
³ Kicker standard in Signal White. Customer Custom color kickers have a surcharge
⁴ Contact factory for switching options
⁵ Indirect/Direct only
⁶ Add DTO to gain "Dim to Off" functionality (FC-10% - DTO, FC-1% - DTO)
⁷ 1" Drop Down Lens downlight only
⁸ Available with Hollowed Ellipse Louver (LHE) only
⁹ 15 business days lead time
¹⁰ 20 business days lead time for MM and color
¹¹ Not available with Indirect
¹² LMFS-601 w/ 0-10V driver(s) and LMFI-111, up to 6 drivers may be connected.
¹³ LMFS-601 w/ DALI driver, only 1 driver can be connected.
¹⁴ Contact factory
¹⁵ 0-10V Drivers - AOCC up to 10 drivers may be connected; ARF up to 40 driver may be connected
¹⁶ Connected DALI Drivers - AOCC & ARF up to 4 drivers can be connected
¹⁷ Lutron Vibe Integrated Sensors require a DALI driver. Contact Factory for Indirect Distribution.
¹⁸ Apply to independent fixture lengths 4 ft. - 12 ft. and continuous runs only
¹⁹ See pages 9 for more details and examples
²⁰ Please provide drawing with dimensions



Job Name : MTC AMSC EXPANSION AIRPORT
Manufacturer : FINELITE
Model Number : HP-4-WM-D-4'-TL1000LM/FT-840-F-96LG-VOLT-SC-FC-1%-MB-FE-STD
FINISH

Type :
LW



Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Wall Mount and Arm Mount

SUPPLEMENTARY DRIVER PAGE

0-10V Driver Options	
FC-10%	Factory Choice, 0-10V 10% Dimming (Linear)
FC-10%-DTO	Factory Choice, 0-10V 10% Dimming, Dim-to-Off (Linear)
FC-1%	Factory Choice, 0-10V 1% Dimming (Linear)
FC-1%-DTO	Factory Choice, 0-10V 1% Dimming, Dim-to-Off (Linear)
ELD-10V-0%	EldoLED SOLOdrive, 0-10V 0.1% Dimming (Linear)
ELD-10V-1%	EldoLED ECOdrive, 0-10V 1% Dimming (Linear)
10V-TW-10%	EldoLED OTi, 0-10V 10% Dimming, <i>Tunable White</i> (Linear)
10V-TW-10%-DTO	EldoLED OTi, 0-10V 10% Dimming, Dim-to-Off, <i>Tunable White</i> (Linear)
OTi-10%	EldoLED OTi, 0-10V 10% Dimming (Linear)
OTi-10%-DTO	EldoLED OTi, 0-10V 10% Dimming, Dim-to-Off (Linear)
OTi-1%	EldoLED OTi, 0-10V 1% Dimming (Linear)
OTi-1%-DTO	EldoLED OTi, 0-10V 1% Dimming, Dim-to-Off (Linear)

DALI Driver Options	
FC-DALI-1%	Factory Choice, DALI 1% Dimming (Logarithmic)
ODXL-DALI-1%	EldoLED Dexal, DALI 1% Dimming (Logarithmic)
ELD-DALI-0%	EldoLED SOLOdrive, DALI 0.1% Dimming (Logarithmic)
ELD-DALI-1%	EldoLED ECOdrive, DALI 1% Dimming (Logarithmic)
ELD-DALI-TW	EldoLED DUALdrive Light Shape, DALI 0.1% Dimming, <i>Tunable White</i> (Logarithmic Dimming , Linear CCT Control)

DMX Driver Options	
ELD-DMX	EldoLED POWERdrive, DMX 0.1% Dimming (8 Bit, 1CH) (Linear)
ELD-DMX-16	EldoLED POWERdrive, DMX 0.1% Dimming (16 Bit, 2CH) (Linear)
ELD-DMX-TW	EldoLED POWERdrive, DMX 0.1% Dimming, <i>Tunable White</i> (8 Bit, 2CH - CH1 Warm / CH2 Cool) (Linear)
ELD-DMX-TW16	EldoLED POWERdrive, DMX 0.1% Dimming, <i>Tunable White</i> (16 Bit, 4CH - CH1, 2 Warm / CH3, 4 Cool) (Linear)

Lutron Driver Options	
LUT-ES1	Lutron, Ecosystem 1% Dimming
LUT-TW	Lutron LD2 Dali-2 1%, <i>Tunable White</i>



Job Name : MTC AMSC EXPANSION AIRPORT
Manufacturer : FINELITE
Model Number : HP-4-WM-D-4'-TL1000LM/FT-840-F-96LG-VOLT-SC-FC-1%-MB-FE-STD
FINISH

Type :
LW



Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Wall Mount and Arm Mount

SPECIFICATIONS

BODY TYPE

CONSTRUCTION: Precision-cut 6063-T6 extruded aluminum body. Internal joiner system, plug-together wiring, standard.

LENGTHS: Any length, 2' minimum, in increments down to 1/16" (±1/32"). 12' maximum section length. Hollowed Ellipse Louver (LHE), Hex Louver (LHC), and White Cross Blade Baffle (WCB) are available in 1' increments.

MITERED CORNERS¹: Illuminated corners of greater than 60° and less than 180° in a single plane, available with Flush Diffuser, Bottom Glow Diffuser, Regressed Diffuser, White Cross Blade Baffle² or Wall Wash. Corners not available with Wall Wash (WW-D), Hollowed Ellipse Louver (LHE), Hex Louver (LHC) or 1" Drop Down Lens. Contact factory for Double miters using the White Cross Blade Baffle. Consult factory for tailored lighting options.

OUTPUT AND LED TYPE

LIGHT OUTPUT: Four lumen packages available, Standard (S), Boosted Standard (B), High (H), and Very High (V). For lengths 3' and greater, the uplight and downlight can be specified with different lumen packages and dual controls. For Tailored Outputs outside of range from Standard (S) to Very High (V), consult factory. Light engines are replaceable.

WELL Building, feature L04 Electric Light Glare control: *HP-4 D F*: 80 CRI - S/B, 90CRI - S/B/H; *HP-4 D LHE*: 80 CRI - S/B, 90CRI - S/B/H; *HP-4 D DL*: 80 CRI - S/B, 90CRI - S/B/H; *HP-4 D LHC*: 80 CRI - S/B, 90CRI - S/B/H; *HP-4 D WCB*: 80 CRI - S/B, 90CRI - S/B;



LEED v5, interior Lighting Indoor Environmental Quality (qualify for LEED v4.1): *HP-4 D F*: 80 CRI - S/B, 90CRI - S/B/H; *HP-4 D LHE*: 80 CRI - S/B/H, 90CRI - S/B/H/V; *HP-4 D RG*: 80 CRI - S/B, 90CRI - S/B/H; *HP-4 D DL*: 80 CRI - S/B/H, 90CRI - S/B/H/V; *HP-4 D LHC*: 80 CRI - S/B, 90CRI - S/B/H/V; *HP-4 D WCB*: 80 CRI - S/B, 90CRI - S/B/H;



MECHANICAL/OPTICAL OPTIONS

UPLIGHT OPTION⁴: Patented Top Glow frost white diffuser standard. 12 ft. maximum diffuser length. 73% transmissive, 99% diffusion. Internal secondary diffusers at corners ensure visually seamless, uniform, continuous illumination Optional: Flush frost white snap-in diffuser, 73% transmissive, 99% diffusion; Widespread Optic (WSO) and Widespread Optic with Top Glow (WSOTG); WSO enables increased luminaire spacing with improved ceiling uniformity. **ASY-L** distributes light to the left, **ASY-R** distributed light to the right of the luminaire. Consult factory for more tailored lumen outputs.

DOWNLIGHT OPTION⁵: 12' maximum diffuser length. Flush frost white snap-in diffuser standard, 73% transmissive, 99% diffusion. Internal secondary diffusers at corners ensure visually seamless, uniform, continuous illumination. Available with Flush (F), Bottom Glow (BG), 1" Drop Down Lens (DL), White Cross Blade Baffle (WCB)⁶, Hollowed Ellipse Louver (LHE)⁶, Hex Louver (LHC)⁶, Downlight Asymmetric Optic Left and Right (DAO-L, DAO-R)¹, and Regressed downlight diffusers (RG). 1" Drop Down Lens made of highly efficient acrylic. Available with a solid endcap or an endcap with a diffuse filler to continue the luminous aesthetic. Downlight Asymmetric Optic (DAO) are an extruded lenses with a subtle ribbed appearance providing desired improved optical performance. Consult factory for more tailored lumen outputs.

LUMEN MAINTENANCE: 90% of initial light output (L90) at 60,000+ hours.

REFLECTORS: Wall Mount: Die-formed 20-gauge cold-rolled steel reflectors finished in 96LG High Reflectance white powder coat paint. **Arm Mount:** The standard Semi-Specular Aluminum (SSA) Kicker (K) reflector delivers light high on the vertical surface. The Kicker reflector can be easily removed for open distribution (FO).

ELECTRICAL FEATURES

STATIC WHITE FEED: Standard with one 18-gauge/5-conductor single-circuit feed controlling uplight and downlight together (power and dimming). Specify dual feeds for independent control of uplight and downlight. 14-gauge feed used when luminaire current exceeds 5 amps.

TUNABLE WHITE FEED: Standard with one 18-gauge/5-conductor single-circuit feed. 14-gauge feed used when luminaire current exceeds 5 amps. DMX feeds cannot be cut or spliced. DMX feeds should be ordered based on fixed lengths.

0-10V:

- One 18-gauge / 3-conductor power
- One 18-gauge / 4-conductor for dimming and controls

Dali:

- One 18-gauge / 5-conductor power and controls

DMX:

- One 18-gauge / 3-conductor power
- One DMX feed

STATIC WHITE DRIVER: Replaceable 120V, 277V, and 347V Constant Current Reduction dimming driver standard. Can be wired dimming or non-dimming. 0-10V dimming controls with a range of 10%- 100% standard. Dimming to 1% available. Separate dimming for uplight and downlight available. Driver is fully accessible from below the ceiling.

- **Power Factor:** ≥ 0.9
- **Total Harmonic Distortion (THD):** <20%
- **Expected driver lifetime:** 100,000 hours

LUTRON DRIVER OPTIONS:

LUT-ES1 - Hi-lume 1% EcoSystem with Soft-On, Fade-to-Black dimming (LDE1 series).

TUNABLE WHITE DRIVER: Replaceable LED driver. Driver is accessible from below the ceiling. 120V and 277V

- **Power factor:** ≥0.90
- **Total Harmonic Distortion (THD):** <20%
- **Dimming Range:** 100%-10%
- **Expected driver lifetime:** 100,000 hours

LUTRON TUNABLE WHITE DRIVER OPTION: LUT-TW - Lutron LD2 Dali-2 1%, Tunable White.

¹ Not available with Wall Wash

² Indirect/Direct and Direct only

³ White Cross Blade (WCB) baffles not available with custom angles. Available in 90 degrees only

⁴ Wall Mount Indirect/Direct, Wall Mount Regressed Indirect/Direct, ⁶ Wall Mount Regressed Indirect/Direct & Wall Mount Regressed Direct and Wall Mount Indirect only

⁵ Wall Mount Indirect/Direct, Wall Mount Regressed Indirect/Direct, Wall Mount Direct, and Wall Mount Regressed Direct only

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Job Name : MTC AMSC EXPANSION AIRPORT

Manufacturer : FINELITE

Model Number : HP-4-WM-D-4'-TL1000LM/FT-840-F-96LG-VOLT-SC-FC-1%-MB-FE-STD FINISH

Type : LW



Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Wall Mount and Arm Mount

SPECIFICATIONS

MOUNTING OPTIONS

HANGING HARDWARE: Wall Mount: Luminaire hangs securely from mounting brackets fastened directly to the wall for easy installation. Luminaire stands 1/2" off the wall. The mounting bracket is concealed behind the luminaire. **Arm Mount:** bracket mounts directly to wall j-box, extends luminaire 12", 18", or 24" from wall. Other lengths available. Consult factory.

TUNABLE WHITE DMX HANGING HARDWARE: For grid ceiling applications the dual GridBox™ mounting is supplied (standard). For hard ceiling applications the ceiling mounting box is supplied (standard). DMX feeds cannot be cut or spliced. DMX feeds should be ordered based on fixed lengths. Available DMX pendant feed lengths are 5', 12', and 30' (5' standard).

TUNABLE WHITE DMX INTERCONNECTION CABLES: Luminaires are prewired with plug-and-play interconnected cables to support easy plug-together joining of fixture runs. DMX to RJ45 adapters and an RJ45 terminator for every 32 DMX drivers are included.

OTHER OPTIONS

ENDCAPS: Flat diecast aluminum endcaps (FE) add 1/4" to each end of luminaire. 1" Drop Down Lens Endcap (DE)⁷ includes diffuse element to continue luminance of drop lens. Open Endcap (OE) is for use with the Hollowed Ellipse Louver (LHE); following the curve of the louver.

EMERGENCY STYLE: Optional emergency to generator/inverter wiring, internal generator transfer switch, nightlight wiring, step-dimming driver, backup battery.

Backup Battery

	Legrand 18W	Legrand 10W/ Bodine BSL310LP
HP4-P-D		
Min. Housing Length	8'	4'
EM Lumen Output	1854	1102
EM Section Illum.	2'	2' or 4'
HP4-P-WW-D		
Min. Housing Length	8'*	4'*
EM Lumen Output	2000	1189
EM Section Illum.	4'	4'
HP4-P-ID		
Min. Housing Length	8'	4'
EM Lumen Output	1854	1102
EM Section Illum.	2'	2' or 4'
HP4-P-I		
Min. Housing Length	8'	4'
EM Lumen Output	2057	1222
EM Section Illum.	2'	2' or 4'

* Minimum fixture housing length for battery pack approved without sensor
The lumens are based on 835. For other CCT/CRI, refer to the Lumen Adjustment Factor table on page 10.

⁷ Available in Indirect/Direct Regressed & Direct Regressed only
⁸ Consult Finelite for Generator Transfer Device and Battery Backup fit
⁹ 15 business days lead time
¹⁰ 20 business days lead time for Material Mimic and color
¹¹ Excludes Battery Back up and Generator Transfer Device weight

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Protected by one or more US Patents: 8915613; D702,391; D702,390; D700,732

TUNABLE WHITE ELECTRICAL OPTIONS⁸:

TW Driver Options

- **0-10V:** EM/GEN, GTD or Battery Back Up
- **DMX:** Battery Back Up
- **DALI:** EM/GEN, GTD or Battery Back Up
- **LUTRON:** EM/GEN, GTD or Battery Back Up

INTEGRATED SENSORS: Integrated PIR (Passive Infrared) Occupancy (**OBO**) or Daylight Sensors (**OBD**) available with Flush and Bottom Glow downlight diffusers. PIR sensors not recommended for stairwell applications. Refer to Occupancy Sensor & Daylight Sensor tech sheet and the Embedded Intelligence landing page for more information and additional sensor options. The default location for the Connected Lighting Module (**CLM**) will be on the top side of the fixture for all mounting types except for Surface Mount (**SM**). In SM fixtures the CLM will be located on the direct side of fixture housed in a bracket that is flush with the direct lens.

FINISHES: Finelite Signal White (**SW**) powder coat is standard. Finelite Black (RAL 9005) with semi gloss fine texture (**FB**)⁹, and Satin Aluminum (**SA**)⁹ are available. Material Mimic options¹⁰: Gray Elm (**MM01**), White Oak (**MM02**), Teak (**MM03**), Walnut (**MM04**). Optional Adder: 179 RAL colors¹⁰ are available.

LABELS: Luminaire and electrical components are ETL-listed conforming to UL 1598 in the U.S.A. and CAN/CSA C22.2 No. 250.0 in Canada. In accordance with NEC Code 410.130 (G), this luminaire contains an internal driver disconnect. UL 924 and UL 2108 - PoE options available on request. These fixtures are rated for Damp Location. Chicago Plenum options available for C1, C2, or C3 suspension using our GridBox. Finelite products use electronic components that are RoHS compliant, and the mechanical components of the luminaire have been verified to not knowingly contain any restricted substances listed per RoHS Directive 2015/863. Consult factory for tailored lighting options. Finelite makes the specification process easy when putting healthier products on your projects. Simply add - **RLA** (Red List Approved) or - **RLD** (Red List Declared) to your part number.

WEIGHT¹¹: ID - 3.4 lb/ft; D - 2.8 lb/ft; I - 2.8 lb/ft; AM - 2.9 lb/ft (luminaire only)

DLC QUALIFIED: Contact factory

WARRANTY: 10-year performance-based warranty on all standard components. Optional accessories such as emergency battery packs are covered by their individual manufacturer warranties.



Job Name : MTC AMSC EXPANSION AIRPORT
Manufacturer : FINELITE
Model Number : HP-4-WM-D-4'-TL1000LM/FT-840-F-96LG-VOLT-SC-FC-1%-MB-FE-STD
FINISH

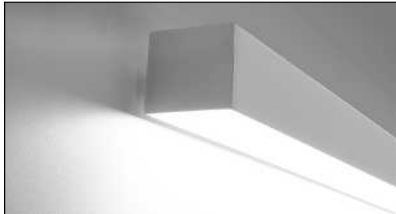
Type :
LW

Submitted by:		Date:
Type:	Project:	
Ordering Info:		



High Performance 4" Aperture (HP-4) Wall Mount and Arm Mount

AESTHETIC OPTIONS



Flush Diffuser (**F**)¹



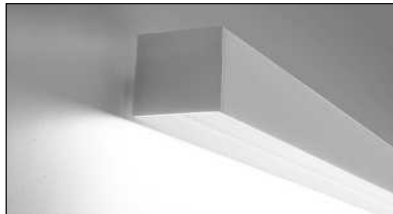
Bottom Glow Diffuser (**BG**)¹



1" Drop Down Lens (**DL**)¹



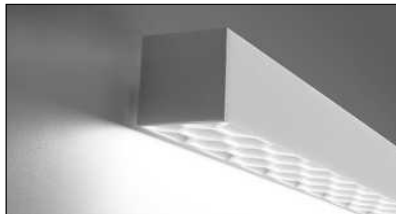
Flat Diffuser with 1" Regressed (**RG-D**)¹



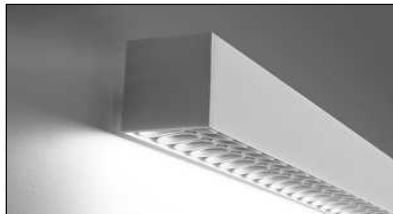
Downlight Asymmetric Optic (**DAO**)¹
 Externally flush



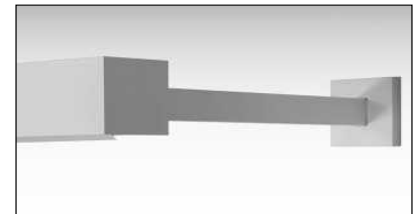
White Cross Blade Baffle (**RG-WCB**)¹



Hex Louver (**RG-LHC**)¹



Hollowed Ellipse Louver (**RG-LHE**)¹



Kicker (**K**) - Wall Wash Arm Mount only

MATERIAL MIMIC OPTIONS²



Gray Elm (**MM01**)



White Oak (**MM02**)



Teak (**MM03**)



Walnut (**MM04**)

The appearance of Material Mimic finishes may vary due to environmental lighting conditions and surrounding color influences. Sample swatches are available upon request for evaluation in situ under expected lighting and design conditions.

¹ Not available with Wall Wash

² Due to the uniqueness of Material Mimic options, color and grain pattern may vary, sample swatches are available upon request.

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Job Name : MTC AMSC EXPANSION AIRPORT
Manufacturer : FINELITE
Model Number : HP-4-WM-D-4'-TL1000LM/FT-840-F-96LG-VOLT-SC-FC-1%-MB-FE-STD FINISH

Type :
LW



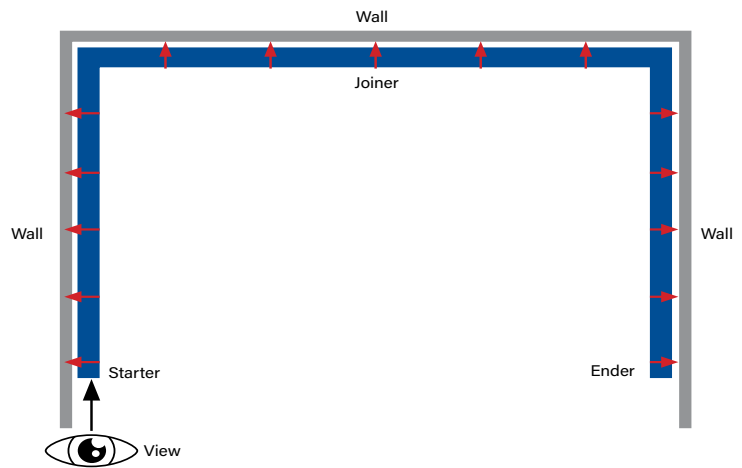
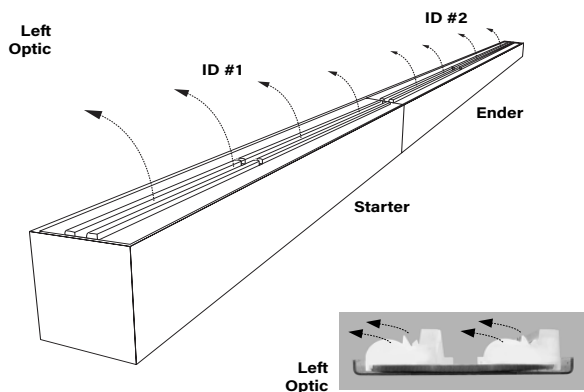
Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Wall Mount and Arm Mount

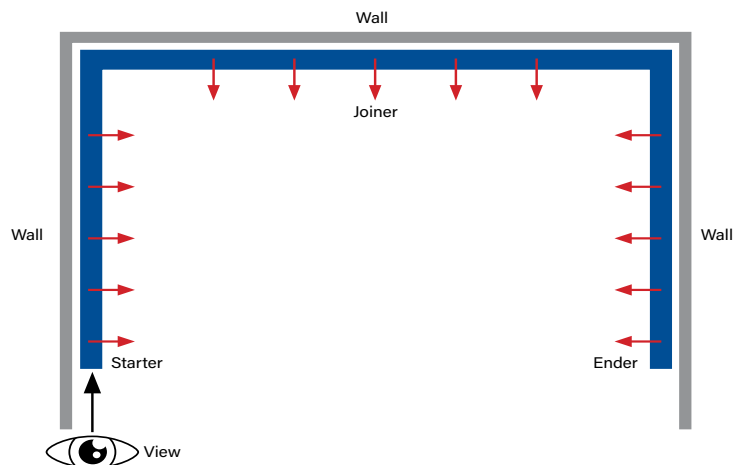
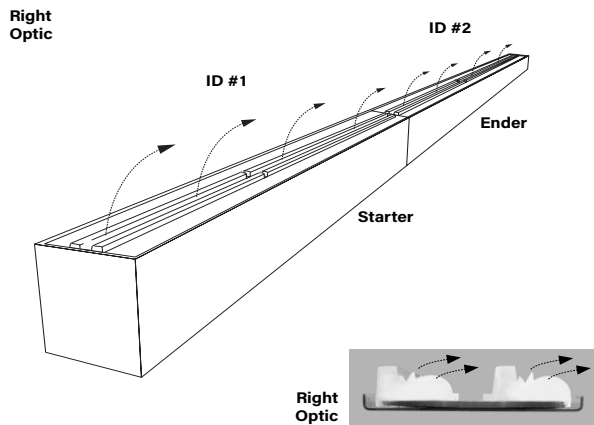
ASYMMETRIC OPTIONS

The diagrams below show a linear run from power feed to ender. Specifying ASY-L distributes light to the left or ASY-R distributes light to the right. For proper orientation: view luminaire from starter end when specifying the direction of the Asymmetric optic.

Asymmetric Left Optic (ASY-L)



Asymmetric Right Optic (ASY-R)





Job Name : MTC AMSC EXPANSION AIRPORT
Manufacturer : FINELITE
Model Number : HP-4-WM-D-4'-TL1000LM/FT-840-F-96LG-VOLT-SC-FC-1%-MB-FE-STD FINISH

Type :
LW



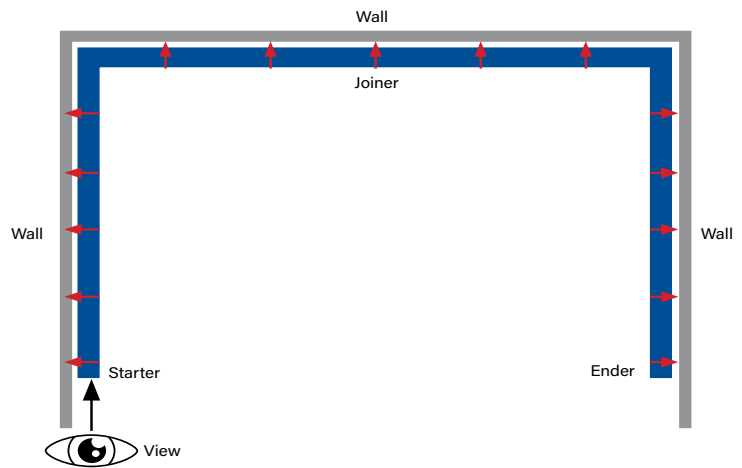
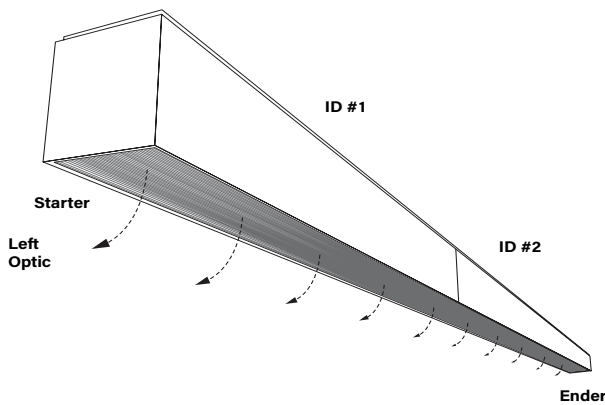
Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Wall Mount and Arm Mount

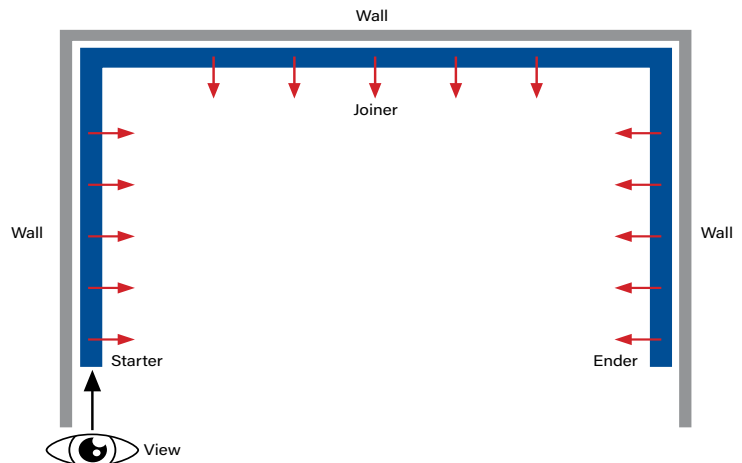
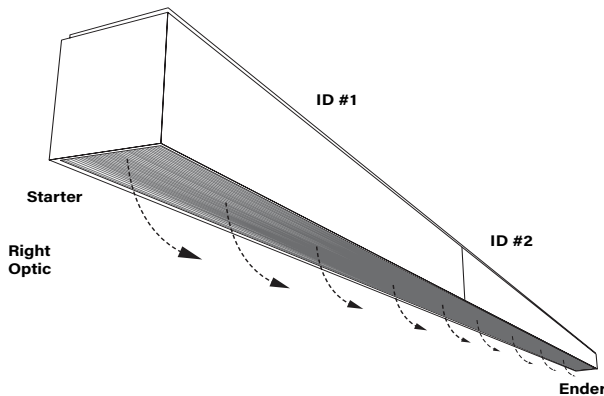
DOWNLIGHT ASYMMETRIC OPTIONS

The diagrams below show a linear run from power feed to ender. Specifying DAO-L distributes light to the left or DAO-R distributes light to the right. For proper orientation: view luminaire from starter end when specifying the direction of the Downlight Asymmetric optic.

Downlight Asymmetric Optic Left (DAO-L)



Downlight Asymmetric Optic Right (DAO-R)



PREINSTALLED LABEL



For DAO, Preinstalled label on diffuser shows direction of light. Remove after installation.



Job Name : MTC AMSC EXPANSION AIRPORT
Manufacturer : FINELITE
Model Number : HP-4-WM-D-4'-TL1000LM/FT-840-F-96LG-VOLT-SC-FC-1%-MB-FE-STD
FINISH

Type :
LW



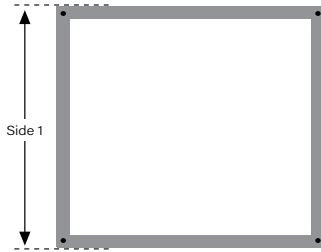
Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Wall Mount and Arm Mount

STANDARD CONFIGURATION EXAMPLES ^{1,2}

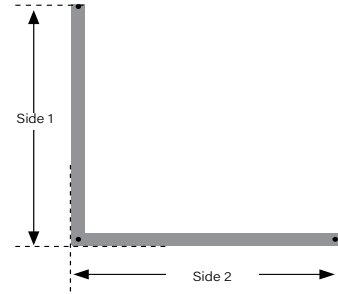
SQ _____
 Square- Provide
 Side 1 dimension

Example - SQ6'



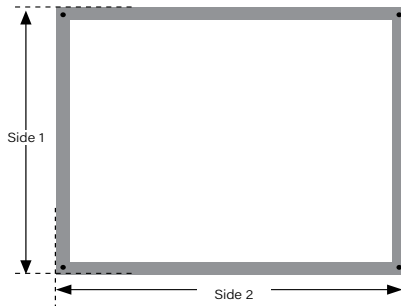
L _____ x _____
 L- Provide
 Side 1x Side 2
 dimensions

Example - L6'x6'



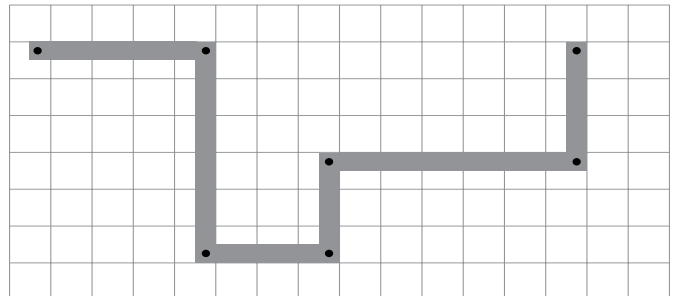
REC _____ x _____
 Rectangle - Provide
 Side 1 x Side 2
 dimension

Example - REC5'x7'



99CFG ³
 Custom Configuration - Please provide a sketch or drawing
 showing desired linear length dimensions and curved sections.
 Template available on page 10.

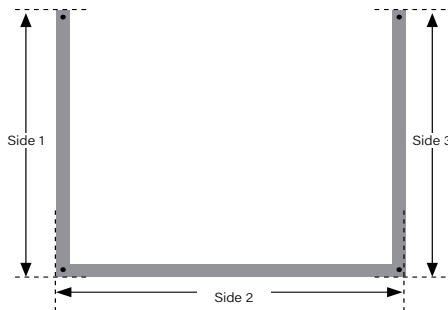
Example -



= 1 ft²

U _____ x _____ x _____
 U Shape - Provide
 Side 1 x Side 2 x Side
 3 dimension

Example - U5'x7'x5'



● = Suspension Points

¹ Drawings are not to scale

² 2' minimum length for linear sections

³ 99CFG between 60 - 179 degree with seamless joints

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Job Name : MTC AMSC EXPANSION AIRPORT
Manufacturer : FINELITE
Model Number : HP-4-WM-D-4'-TL1000LM/FT-840-F-96LG-VOLT-SC-FC-1%-MB-FE-STD
FINISH

Type :
LW

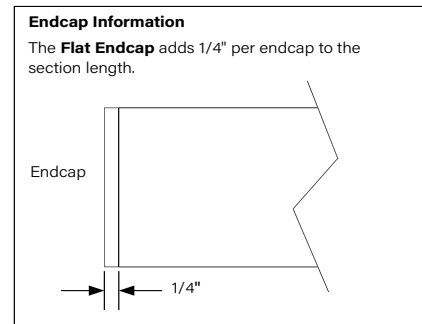
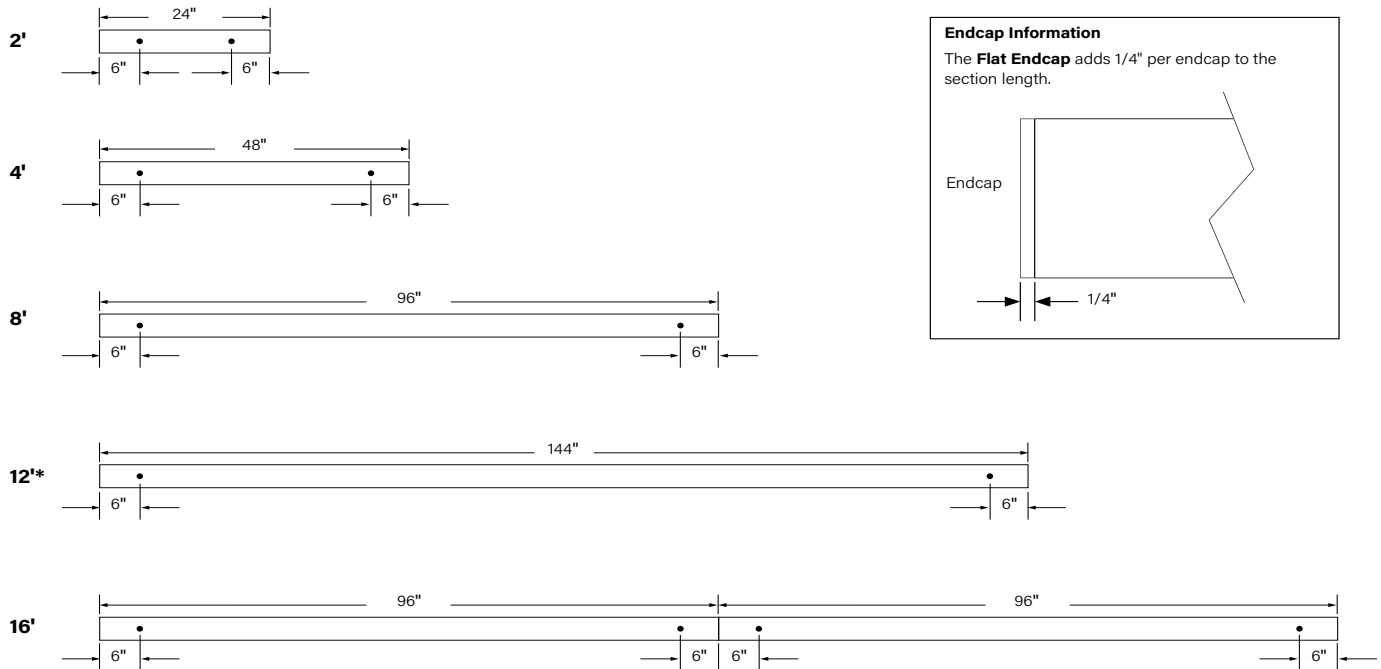
Submitted by:		Date:
Type:	Project:	
Ordering Info:		



High Performance 4" Aperture (HP-4) Wall Mount and Arm Mount

WALL WASH ARM MOUNT - Run Lengths & Mounting Location Examples

Tailored Lengths Available Down To 1/16" (±1/32")



• = Bracket Location
 * = 12' Maximum spacing for two Arm Mount supports



Job Name : MTC AMSC EXPANSION AIRPORT
Manufacturer : FINELITE
Model Number : HP-4-WM-D-4'-TL1000LM/FT-840-F-96LG-VOLT-SC-FC-1%-MB-FE-STD
FINISH

Type :
LW



Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Wall Mount and Arm Mount

Indirect/Direct Photometry - 4' Luminaire 3500K

HP4-WM-ID-4'-V-V-835-ASY-R-DAO

Uplight: Asymmetric Right / **Downlight:** Downlight Asymmetric Optic

Distribution: 53% Up (V) / 47% Down (V)

Efficacy: 115 lm/W

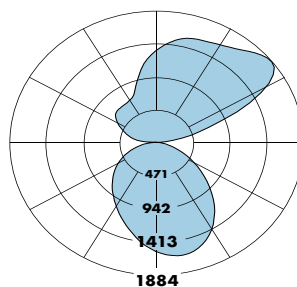
Uplight: 4436 lumens (1108 lumens/foot)

Downlight: 3884 lumens (971 lumens/foot)

Total luminaire output: 8320 lumens (2080 lm/ft)
72.5 watts (18.1 W/ft)

CRI: 80 / CCT: 3500K

ITL LM79 Report 89988 and 94331



CANDELA DISTRIBUTION						
	0.0	22.5	45.0	67.5	90.0	FLUX
0	1552	1552	1552	1552	1552	
5	1609	1605	1591	1569	1543	146
15	1641	1635	1599	1533	1468	413
25	1538	1537	1506	1415	1323	609
35	1315	1325	1314	1224	1116	704
45	1019	1039	1052	976	872	692
55	710	733	759	707	629	587
65	438	452	476	450	404	423
75	216	224	239	230	214	239
85	57	57	62	62	63	70
90	0	0	0	0	0	
95	142	145	146	149	57	146
105	582	627	647	445	207	432
115	1335	1341	1134	661	369	692
125	1861	1728	1288	811	545	796
135	1803	1664	1318	959	724	743
145	1657	1575	1367	1118	909	641
155	1581	1541	1432	1254	1084	513
165	1537	1515	1446	1332	1220	345
175	1401	1392	1366	1332	1293	123
180	1302	1302	1302	1302	1302	

Complete LM79 LED Photometry

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire

	1S ¹	1B ¹	1H ¹	1V ²
1S ¹	3406 [153% 47%↓]	3873 [159% 41%↓]	5040 [169% 31%↓]	6026 [174% 26%↓]
1B ¹	3815 [147% 52%↓]	4282 [153% 47%↓]	5449 [163% 37%↓]	6435 [169% 31%↓]
1H ¹	4837 [138% 62%↓]	5304 [143% 57%↓]	6471 [153% 47%↓]	7457 [160% 40%↓]
1V ²	5700 [132% 68%↓]	6167 [137% 63%↓]	7344 [147% 53%↓]	8320 [153% 47%↓]

Light Output, 3500K, 80 CRI (Lumens Per Foot)

	1S ¹	1B ¹	1H ¹	1V ²
1S ¹	851	968	1260	1506
1B ¹	954	1070	1362	1609
1H ¹	1209	1326	1618	1864
1V ²	1425	1542	1834	1995

Power, 3500K (Watts Per Foot)

	1S ¹	1B ¹	1H ¹	1V ²
1S ¹	7.1	8.1	10.5	12.6
1B ¹	8.1	9.0	11.5	13.6
1H ¹	10.5	11.5	13.9	16.0
1V ²	12.6	13.6	16.0	18.1

Efficacy, 3500K, 80 CRI (Lumens Per Watt)

	1S ¹	1B ¹	1H ¹	1V ²
1S ¹	120	120	120	120
1B ¹	118	119	119	119
1H ¹	115	116	116	116
1V ²	113	114	115	115

Wattage is Real Power. If you would like additional details to calculate Apparent Power, please contact your local Finelite representative.

S - Standard Output, B - Boosted Standard Output, H - High Output, V - Very High Output

¹ Family Correlation based on 4' luminaire 3500K Very High Output (V) test - 120V.

² Based on ITL report: 89988, 94331

Sample Lumen Adjustment Calculation

Lumen Adjustment Factors 80 CRI

3000K	0.985
3500K	1.000
4000K	1.032

Lumen Adjustment Factors 90 CRI

3000K	0.746
3500K	0.760
4000K	0.789

High Output (H) / Standard Output (S), 4000K, 90 CRI

Lumen Adjustment Factor: 0.789

Total Light Output: 5040 lm x 0.789 = 3977 lm

Total Light Output per Foot: 1213 lm/ft x 0.789 = 994 lm/ft.

watts/foot: 10.5 W/ft.

$$\text{Efficacy} = \frac{994 \frac{\text{lm}}{\text{ft}}}{10.5 \frac{\text{W}}{\text{ft}}} = 95 \text{ lm/W}$$



Job Name : MTC AMSC EXPANSION AIRPORT
Manufacturer : FINELITE
Model Number : HP-4-WM-D-4'-TL1000LM/FT-840-F-96LG-VOLT-SC-FC-1%-MB-FE-STD FINISH

Type :
LW



Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Wall Mount and Arm Mount

Indirect/Direct Photometry - 4' Luminaire 3500K

HP4-WM-ID-4'-V-V-835

Uplight: Flush Diffuser / **Downlight:** Flush Diffuser

Distribution: 53% Up (V) / 47% Down (V)

Efficacy: 106 lm/W

Uplight: 4180 lumens (1045 lumens/foot)

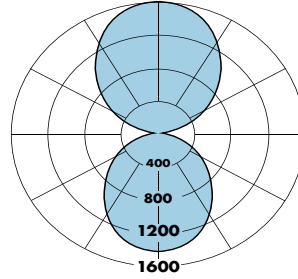
Downlight: 3706 lumens (927 lumens/foot)

Total luminaire output: 7886 lumens (1972 lm/ft)
74.1 watts (18.5 W/ft)

Peak Candela Value: 1600 @ 180°

CRI: 80 / CCT: 3500K

ITL LM79 Report 85125



	0.0	22.5	45	67.5	90	Flux
0	1443	1443	1443	1443	1443	
5	1433	1434	1434	1433	1434	136
15	1368	1360	1365	1363	1356	384
25	1239	1225	1228	1224	1216	564
35	1062	1050	1049	1040	1034	654
45	859	850	847	838	832	652
55	647	640	637	628	624	568
65	435	430	429	424	422	424
75	233	234	233	234	232	248
85	65	67	68	69	70	76
90	0	0	0	0	0	
95	71	72	76	81	82	86
105	257	261	266	270	269	281
115	485	483	485	490	486	482
125	723	726	726	720	717	646
135	963	958	961	958	951	739
145	1189	1177	1185	1179	1172	738
155	1377	1367	1374	1368	1363	631
165	1517	1510	1514	1511	1510	426
175	1590	1590	1590	1589	1590	151
180	1600	1600	1600	1600	1600	

Complete LM79 LED Photometry

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire

	1S ¹	1B ¹	1H ¹	1V ²
1S ¹	3228 (153% 47%↓)	3668 (159% 41%↓)	4768 (168% 32%↓)	5697 (173% 27%↓)
1B ¹	3618 (147% 53%↓)	4058 (153% 47%↓)	5158 (163% 37%↓)	6087 (169% 31%↓)
1H ¹	4594 (137% 63%↓)	5034 (143% 57%↓)	6134 (153% 47%↓)	7062 (159% 41%↓)
1V ²	5417 (132% 68%↓)	5857 (137% 63%↓)	6957 (147% 53%↓)	7886 (153% 47%↓)

Light Output, 3500K, 80 CRI (Lumens Per Foot)

	1S ¹	1B ¹	1H ¹	1V ²
1S ¹	807	917	1192	1424
1B ¹	905	1015	1290	1522
1H ¹	1148	1258	1533	1766
1V ²	1354	1464	1739	1972

Power, 3500K (Watts Per Foot)

	1S ¹	1B ¹	1H ¹	1V ²
1S ¹	7.3	8.2	10.7	12.9
1B ¹	8.2	9.2	11.7	13.9
1H ¹	10.7	11.7	14.2	16.4
1V ²	12.9	13.9	16.4	18.5

Efficacy, 3500K, 80 CRI (Lumens Per Watt)

	1S ¹	1B ¹	1H ¹	1V ²
1S ¹	111	111	111	111
1B ¹	110	110	110	110
1H ¹	107	107	108	108
1V ²	105	106	106	106

Wattage is Real Power. If you would like additional details to calculate Apparent Power, please contact your local Finelite representative.

S - Standard Output, B - Boosted Standard Output, H - High Output, V - Very High Output

¹ Family Correlation based on 4' luminaire 3500K Very High Output (V) test - 120V.

² Based on ITL report: 89125

Sample Lumen Adjustment Calculation

Lumen Adjustment Factors 80 CRI

3000K	0.985
3500K	1.000
4000K	1.032

Lumen Adjustment Factors 90 CRI

3000K	0.746
3500K	0.760
4000K	0.789

High Output (H) / Standard Output (S), 4000K, 90 CRI

Lumen Adjustment Factor: 0.789

Total Light Output: 4768 lm x 0.789 = 3762 lm

Total Light Output per Foot: 1192 lm/ft x 0.789 = 940 lm/ft.

watts/foot: 10.7 W/ft.

$$\text{Efficacy} = \frac{940 \frac{\text{lm}}{\text{ft}}}{10.7 \frac{\text{W}}{\text{ft}}} = 88 \text{ lm/W}$$

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A brand of Legrand



Job Name : MTC AMSC EXPANSION AIRPORT
Manufacturer : FINELITE
Model Number : HP-4-WM-D-4'-TL1000LM/FT-840-F-96LG-VOLT-SC-FC-1%-MB-FE-STD
FINISH

Type :
 LW



Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Wall Mount and Arm Mount

Indirect/Direct Photometry - 4' Luminaire 3500K

HP4-WM-RG-ID-4'-V-V-835

Uplight: Flush Diffuser / **Downlight:** Regressed Diffuser

Distribution: 56% Up (V) / 44% Down (V)

Efficacy: 108 lm/W

Uplight: 4406 lumens (1102 lumens/foot)

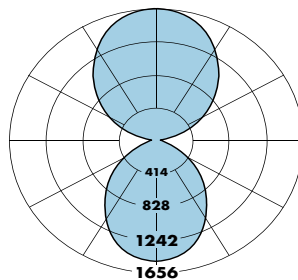
Downlight: 3531 lumens (883 lumens/foot)

Total luminaire output: 7937 lumens (1984 lm/ft)
73.2 watts (18.3 W/ft)

Peak Candela Value: 1656 @ 180°

CRI: 80 / CCT: 3500K

ITL LM79 Report 90353



CANDELA DISTRIBUTION						
	0.0	22.5	45.0	67.5	90.0	FLUX
0	1507	1507	1507	1507	1507	
5	1497	1496	1496	1497	1498	142
15	1429	1419	1418	1410	1400	398
25	1293	1276	1259	1237	1227	579
35	1109	1087	1053	1020	1003	659
45	902	871	824	780	764	638
55	682	645	588	541	525	532
65	457	418	358	313	299	364
75	244	203	151	120	115	178
85	60	36	33	32	31	43
90	0	0	0	0	0	
95	75	78	81	84	85	91
105	276	281	287	293	293	303
115	514	516	523	528	526	516
125	65	764	768	772	774	687
135	1010	1003	1011	1016	1016	779
145	1241	1227	1240	1239	1237	773
155	1434	1421	1433	1431	1426	658
165	1574	1568	1571	1568	1565	442
175	1646	1646	1646	1645	1645	156
180	1656	1656	1656	1656	1656	

Complete LM79 LED Photometry

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire

	1S ¹	1B ¹	1H ¹	1V ²
1S ¹	3249 [155% 45%↓]	3713 [161% 39%↓]	4872 [170% 30%↓]	5851 [175% 25%↓]
1B ¹	3621 [150% 50%↓]	4085 [155% 45%↓]	5244 [165% 35%↓]	6223 [171% 29%↓]
1H ¹	4550 [140% 60%↓]	5014 [145% 55%↓]	6173 [156% 44%↓]	7152 [162% 38%↓]
1V ²	5335 [134% 66%↓]	5798 [139% 61%↓]	6958 [149% 51%↓]	7937 [156% 44%↓]

Light Output, 3500K, 80 CRI (Lumens Per Foot)

	1S ¹	1B ¹	1H ¹	1V ²
1S ¹	812	928	1218	1463
1B ¹	905	1021	1311	1556
1H ¹	1137	1253	1543	1788
1V ²	1334	1450	1739	1984

Power, 3500K (Watts Per Foot)

	1S ¹	1B ¹	1H ¹	1V ²
1S ¹	7.2	8.1	10.6	12.7
1B ¹	8.1	9.1	11.6	13.7
1H ¹	10.6	11.6	14.0	16.2
1V ²	12.7	13.7	16.2	18.3

Efficacy, 3500K, 80 CRI (Lumens Per Watt)

	1S ¹	1B ¹	1H ¹	1V ²
1S ¹	113	114	115	115
1B ¹	111	112	113	114
1H ¹	107	108	110	111
1V ²	105	106	108	108

Wattage is Real Power. If you would like additional details to calculate Apparent Power, please contact your local Finelite representative.

S - Standard Output, B - Boosted Standard Output, H - High Output, V - Very High Output

¹ Family Correlation based on 4' luminaire 3500K Very High Output (V) test - 120V.

² Based on ITL report: 90353

Sample Lumen Adjustment Calculation

Lumen Adjustment Factors 80 CRI

3000K	0.985
3500K	1.000
4000K	1.032

Lumen Adjustment Factors 90 CRI

3000K	0.746
3500K	0.760
4000K	0.789

High Output (H) / Standard Output (S), 4000K, 90 CRI

Lumen Adjustment Factor: 0.789

Total Light Output: 4872 lm x 0.789 = 3844 lm

Total Light Output per Foot: 1218 lm/ft x 0.789 = 961 lm/ft.

watts/foot: 10.6 W/ft.

$$\text{Efficacy} = \frac{961 \frac{\text{lm}}{\text{ft}}}{10.6 \frac{\text{W}}{\text{ft}}} = 91 \text{ lm/W}$$

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Job Name : MTC AMSC EXPANSION AIRPORT
Manufacturer : FINELITE
Model Number : HP-4-WM-D-4'-TL1000LM/FT-840-F-96LG-VOLT-SC-FC-1%-MB-FE-STD
FINISH

Type :
LW



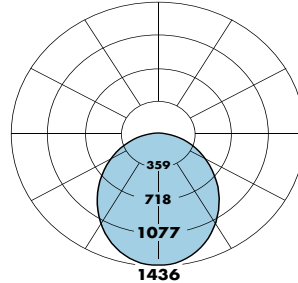
Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Wall Mount and Arm Mount

Direct Photometry - 4' Luminaire 3500K

HP4-WM-D-4'-V-835
Downlight: Flush Diffuser

Efficacy: 100 lm/W
Total luminaire output: 3705 lumens (926 lm/ft)
 37 watts (9.3 W/ft)
Peak Candela Value: 1436 @ 0°
 CRI: 80 / CCT: 3500K
 ITL LM79 Report 85124



CANDELA DISTRIBUTION						
	0.0	22.5	45.0	67.5	90.0	FLUX
0	1436	1436	1436	1436	1436	
5	1428	1428	1427	1427	1427	135
15	1363	1353	1358	1357	1350	382
25	1236	1221	1226	1219	1212	563
35	1060	1047	1048	1037	1030	653
45	859	849	848	836	831	652
55	647	639	637	628	623	568
65	434	432	431	425	424	425
75	236	236	237	235	236	250
85	67	68	69	70	69	77
90	0	0	0	0	0	

Complete LM79 LED Photometry

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire

S ¹	B ¹	H ¹	V ²
1517	1907	2882	3705

Light Output, 3500K, 80 CRI (Lumens Per Foot)

S ¹	B ¹	H ¹	V ²
379	477	720	926

Power, 3500K (Watts Per Foot)

S ¹	B ¹	H ¹	V ²
3.6	4.6	7.1	9.3

Efficacy, 3500K, 80 CRI (Lumens Per Watt)

S ¹	B ¹	H ¹	V ²
105	107	102	100

Sample Lumen Adjustment Calculation

Lumen Adjustment Factors 80 CRI

3000K	0.985
3500K	1.000
4000K	1.032

Lumen Adjustment Factors 90 CRI

3000K	0.746
3500K	0.760
4000K	0.789

High Output (H), 4000K, 90 CRI

Lumen Adjustment Factor: 0.789

Total Light Output: 2882 lm x 0.789 = 2274 lm

Total Light Output per Foot: 720 lm/ft x 0.789 = 568 lm/ft.

watts/foot: 71 W/ft.

$$\text{Efficacy} = \frac{568 \frac{\text{lm}}{\text{ft}}}{71 \frac{\text{W}}{\text{ft}}} = 80 \text{ lm/W}$$

Wattage is Real Power. If you would like additional details to calculate Apparent Power, please contact your local Finelite representative.

S - Standard Output, B - Boosted Standard Output, H - High Output, V - Very High Output
¹ Family Correlation based on 4' luminaire 3500K Very High Output (V) test - 120V.
² Based on ITL report: 85124

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Job Name : MTC AMSC EXPANSION AIRPORT
Manufacturer : FINELITE
Model Number : HP-4-WM-D-4'-TL1000LM/FT-840-F-96LG-VOLT-SC-FC-1%-MB-FE-STD
FINISH

Type :
LW



Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Wall Mount and Arm Mount

Direct Photometry - 4' Luminaire 3500K

HP4-WM-D-4'-V-835-DAO

Downlight: Downlight Asymmetric Optic

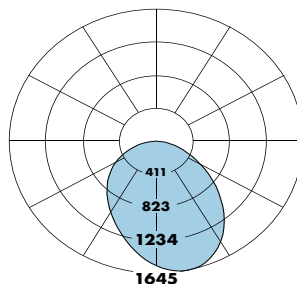
Efficacy: 109 lm/W

Total luminaire output: 3884 lumens (971 lm/ft)
35.6 watts (8.9 W/ft)

Peak Candela Value: 1645 @ 12.5°

CRI: 80 / CCT: 3500K

ITL LM79 Report 94331



	0.0	22.5	45.0	67.5	90.0	Flux
0	1552	1552	1552	1552	1552	1552
5	1609	1591	1543	1494	1476	146
15	1641	1599	1468	1341	1292	413
25	1538	1506	1323	1153	1110	609
35	1315	1314	1116	960	939	704
45	1019	1052	872	768	779	691
55	710	759	629	578	616	587
65	438	476	404	391	436	423
75	216	239	214	218	248	239
85	57	62	63	64	70	70
90	0	0	0	0	0	0

Complete LM79 LED Photometry

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire

S ¹	B ¹	H ¹	V ²
1590	1999	3021	3884

Light Output, 3500K, 80 CRI (Lumens Per Foot)

S ¹	B ¹	H ¹	V ²
397	500	755	971

Power, 3500K (Watts Per Foot)

S ¹	B ¹	H ¹	V ²
3.5	4.4	6.8	8.9

Efficacy, 3500K, 80 CRI (Lumens Per Watt)

S ¹	B ¹	H ¹	V ²
114	113	111	109

Sample Lumen Adjustment Calculation

Lumen Adjustment Factors 80 CRI

3000K	0.985
3500K	1.000
4000K	1.032

Lumen Adjustment Factors 90 CRI

3000K	0.746
3500K	0.760
4000K	0.789

High Output (H), 4000K, 90 CRI

Lumen Adjustment Factor: 0.789

Total Light Output: 3021 lm x 0.789 = 2384 lm

Total Light Output per Foot: 755 lm/ft x 0.789 = 596 lm/ft.

watts/foot: 6.8 W/ft.

$$\text{Efficacy} = \frac{596 \frac{\text{lm}}{\text{ft}}}{6.8 \frac{\text{W}}{\text{ft}}} = 88 \text{ lm/W}$$

Wattage is Real Power. If you would like additional details to calculate Apparent Power, please contact your local Finelite representative.

S - Standard Output, B - Boosted Standard Output, H - High Output, V - Very High Output

¹ Family Correlation based on 4' luminaire 3500K Very High Output (V) test - 120V.

² Based on ITL report: 94331

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Job Name : MTC AMSC EXPANSION AIRPORT
Manufacturer : FINELITE
Model Number : HP-4-WM-D-4'-TL1000LM/FT-840-F-96LG-VOLT-SC-FC-1%-MB-FE-STD
FINISH

Type :
LW



Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Wall Mount and Arm Mount

Indirect Photometry - 4' Luminaire 3500K

HP4-WM-I-4'-V-835

Uplight: Flush Diffuser

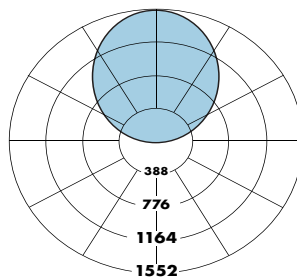
Efficacy: 112 lm/W

Total luminaire output: 4114 lumens (1029 lm/ft)
37 watts (9.2 W/ft)

Peak Candela Value: 1552 @ 180°

CRI: 80 / CCT: 3500K

ITL LM79 Report 85127



	0.0	22.5	45.0	67.5	90.0	Flux
90	0	0	0	0	0	0
95	76	77	79	80	80	88
105	264	263	267	270	269	283
115	487	481	482	489	484	479
125	714	715	714	708	710	637
135	943	947	947	940	937	727
145	1161	1151	1166	1155	1151	724
155	1343	1332	1341	1338	1331	616
165	1475	1467	1473	1471	1468	414
175	1542	1542	1543	1543	1542	146
180	1552	1552	1552	1552	1552	

Complete LM79 LED Photometry

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire

S ¹	B ¹	H ¹	V ²
1684	2117	3200	4114

Light Output, 3500K, 80 CRI (Lumens Per Foot)

S ¹	B ¹	H ¹	V ²
421	529	800	1029

Power, 3500K (Watts Per Foot)

S ¹	B ¹	H ¹	V ²
3.6	4.6	7.1	9.2

Efficacy, 3500K, 80 CRI (Lumens Per Watt)

S ¹	B ¹	H ¹	V ²
117	116	114	112

Sample Lumen Adjustment Calculation

Lumen Adjustment Factors 80 CRI

3000K	0.985
3500K	1.000
4000K	1.032

Lumen Adjustment Factors 90 CRI

3000K	0.746
3500K	0.760
4000K	0.789

High Output (H), 4000K, 90 CRI

Lumen Adjustment Factor: 0.789

Total Light Output: 3200 lm x 0.789 = 2525 lm

Total Light Output per Foot: 800 lm/ft x 0.789 = 631 lm/ft.

watts/foot: 7.1 W/ft.

$$\text{Efficacy} = \frac{631 \frac{\text{lm}}{\text{ft}}}{7.1 \frac{\text{W}}{\text{ft}}} = 89 \text{ lm/W}$$

Wattage is Real Power. If you would like additional details to calculate Apparent Power, please contact your local Finelite representative.

S - Standard Output, B - Boosted Standard Output, H - High Output, V - Very High Output

¹ Family Correlation based on 4' luminaire 3500K Very High Output (V) test - 120V.

² Based on ITL report: 86127

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Job Name : MTC AMSC EXPANSION AIRPORT
Manufacturer : FINELITE
Model Number : HP-4-WM-D-4'-TL1000LM/FT-840-F-96LG-VOLT-SC-FC-1%-MB-FE-STD
FINISH

Type :
LW



Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Wall Mount and Arm Mount

Wall Wash Direct Photometry - 4' Luminaire 3500K

HP4-AM-WW-D-K-4'-B-835

Downlight: With Kicker

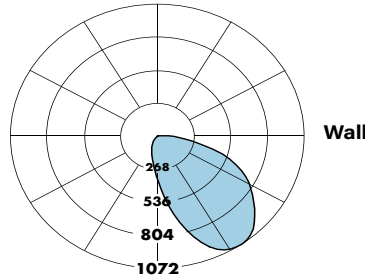
Efficacy: 92 lm/W

Total luminaire output: 1816 lumens (454 lm/ft)
21.5 watts (5.4 W/ft)

Peak Candela Value: 1072 @ 35°

CRI: 80 / CCT: 3500K

ITL LM79 Report 85130



CANDELA DISTRIBUTION						
	0.0	22.5	45.0	67.5	90.0	FLUX
0	373	373	373	373	373	
5	495	456	374	306	281	37
15	791	649	366	209	175	121
25	1018	818	347	147	115	217
35	1072	896	315	101	72	294
45	996	848	271	62	35	328
55	842	708	214	28	6	311
65	673	536	149	5	6	259
75	407	363	84	4	5	173
85	157	137	25	0	0	70
90	75	54	0	0	0	

Complete LM79 LED Photometry

Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire

S ¹	B ¹	H ¹	V ²
743	935	1412	1816

Light Output, 3500K, 80 CRI (Lumens Per Foot)

S ¹	B ¹	H ¹	V ²
186	234	353	454

Power, 3500K (Watts Per Foot)

S ¹	B ¹	H ¹	V ²
2.0	2.5	3.8	5.0

Efficacy, 3500K, 80 CRI (Lumens Per Foot)

S ¹	B ¹	H ¹	V ²
91	92	92	92

Sample Lumen Adjustment Calculation

Lumen Adjustment Factors 80 CRI

3000K	0.985
3500K	1.000
4000K	1.032

Lumen Adjustment Factors 90 CRI

3000K	0.746
3500K	0.760
4000K	0.789

High Output (H), 4000K, 90 CRI

Lumen Adjustment Factor: 0.789

Total Light Output: 1412 lm x 0.789 = 1114 lm

Total Light Output per Foot: 353 lm/ft x 0.789 = 279 lm/ft.

watts/foot: 3.8 W/ft.

$$\text{Efficacy} = \frac{279 \frac{\text{lm}}{\text{ft}}}{3.8 \frac{\text{W}}{\text{ft}}} = 73 \text{ lm/W}$$

Wattage is Real Power. If you would like additional details to calculate Apparent Power, please contact your local Finelite representative.

S - Standard Output, B - Boosted Standard Output, H - High Output, V - Very High Output

¹ Family Correlation based on 4' luminaire 3500K Very High Output (V) test - 120V.

² Based on ITL report: 86130

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Job Name : MTC AMSC EXPANSION AIRPORT

Manufacturer : FINELITE

Model Number : HP-4-WM-D-4'-TL1000LM/FT-840-F-96LG-VOLT-SC-FC-1%-MB-FE-STD FINISH

Type : LW



Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Wall Mount and Arm Mount

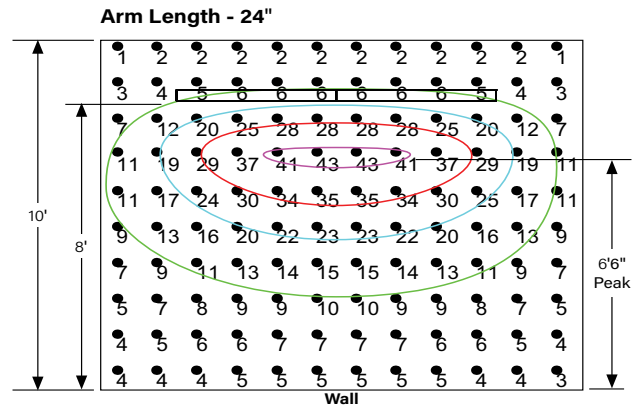
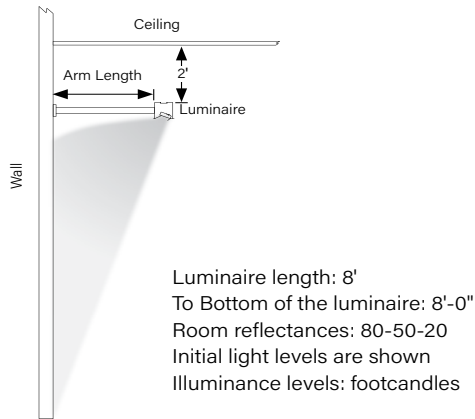
Wall Wash Arm Mount Direct - Setback Info and Application Data

HP4-AM-WW-D-K-4'-B-835

Downlight: With Kicker

Total luminaire output: 935 lumens (234 lm/ft)
10.2 watts (2.6 W/ft)

CRI: 80 / CCT: 3500K



Downlight Asymmetric Optic - Setback Info and Application Data

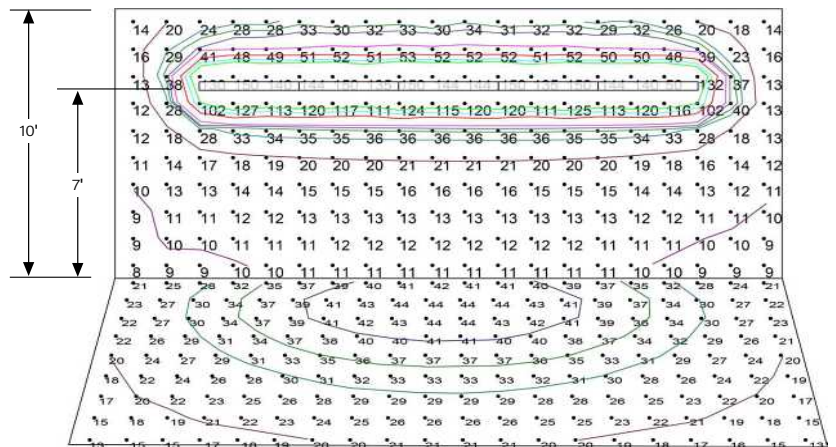
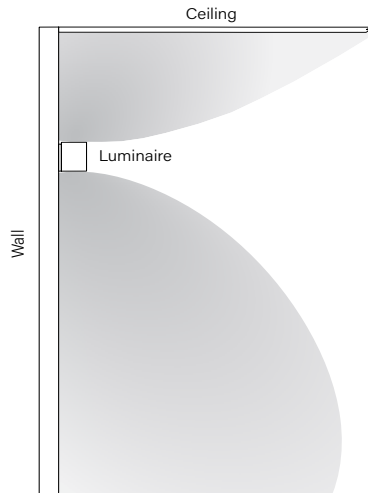
HP-4-WM-ID-4'-S-S-835-ASY-DAO

Uplight: ASY

Downlight: DAO

Total luminaire output: 3406 lumens (852 lm/ft)
28.4 watts (7.1 W/ft)

CRI: 80 / CCT: 3500K





Job Name : MTC AMSC EXPANSION AIRPORT
Manufacturer : FINELITE
Model Number : HP-4-WM-D-4'-TL1000LM/FT-840-F-96LG-VOLT-SC-FC-1%-MB-FE-STD
FINISH

Type :
LW



Submitted by:		Date:
Type:	Project:	
Ordering Info:		

0-10V Tunable White

Finelite's contractor friendly Tunable White luminaires are available at low cost, with powerful and simple 0-10V tuning and intensity controls.

TUNABLE WHITE FEATURES

- CCT range: 2700K - 6500K
- Dimming Range: 100% to 10%
- CRI Options: 80 CRI or 90 CRI

Note:
 Dim to Off options available.

LUMINAIRE FAMILY MODIFICATIONS/RESTRICTIONS

Surface Mount Direct	Section Lengths										
	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'
Output S,B,H,V Single Circuit	Rows can be comprised of 2'-12' sections. Tailored lengths available.										
Integral Battery Backup (BSL310LP)							✓		✓		✓

PHOTOMETRY

Apply a power adjustment factor to calculate wattage usage

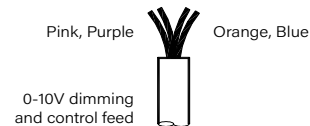
POWER	CONVERSION FACTOR
	1.1X

(Example: a 50 watt luminaire in static white would draw 55 watts using 0-10V Tunable White)

DUAL FEED DETAIL



WIRING LEGEND		
Black	Hot	Line Voltage
White	Neutral	Line Voltage
Green	Ground	



WIRING LEGEND		
Pink	Dimming	0-10V DC
Purple	Dimming	0-10V DC
Orange	TW	0-10V DC
Blue	TW	0-10V DC



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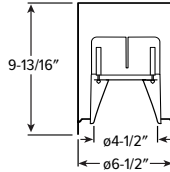
Job Name : MTC AMSC EXPANSION AIRPORT

Manufacturer : HE WILLIAMS

Model Number : 6CR-TL-10-L30/840-STD FINISH-DIM-UNV-OM-CS-PM48/STD FINISH

Type : P2

6CR LED 6.5" Compact Cylinder – Round



CATALOG #: _____
TYPE: _____
PROJECT: _____



TrimLock® TwistLock®

ORDERING EXAMPLE: 6CR - TL - 10 - L20/835 - OPTIONS - WHT - CONTROL/DIM - UNV - OW - CS - TRIM OPTIONS - CM |
HOUSING TRIM MOUNT.

HOUSING

SERIES	HEIGHT	LUMENS ^[1]	Remote Driver	CRI	CCT	OPTIONS	HOUSING FINISH ^[2]
6CR - TL	10 10" ^[3]	Integral Driver ^[4]	L50 5,000lm	8 80	27 2700K	EM/10WRM/RTS	ALUM Silver sparkle aluminum
TrimLock		L10 1,000lm	L60 6,000lm	9 90	30 3000K	Remote mount 10-watt emergency battery with regressed test switch ^[6]	BLK Textured black
		L15 1,500lm	L70 7,000lm ^[5]		35 3500K F	Fuse	BRZ Textured bronze
		L20 2,000lm			40 4000K RDB	Remote mount control/driver box, galvanized steel ^[7]	NKL Textured nickel
		L30 3,000lm			50 5000K		SLV Textured silver
		L40 4,000lm					WHT Textured white

CONTROL

See page 3 for ADDITIONAL CONTROL/DRIVER OPTIONS.

– None

AVI-LVFA Avi-on wireless fixture control ^[8]

AWNRLutron Athena wireless node integral fixture control, RF only ^[9]

DRIVER

See page 3 for ADDITIONAL CONTROL/DRIVER OPTIONS.

DIM Dimming driver, 0-10V

DIM1 1% Dimming driver, 0-10V

DA Driver with 12V auxiliary power, without external dimming wires ^[10]

VOLTAGE

UNV 120-277V

347 347V ^[11]

TRIM

TRIM TYPE

O Open reflector

F Open reflector with frosted top diffuser ^[13]

L Flush lens

R Regressed lens

DISTRIBUTION

See page 2 for BEAM ANGLE.

W Wide

M Medium ^[14]

N Narrow ^[15]

REFLECTOR FINISH ^[12]

Open Trim Types

CS Clear semi-specular anodize

SG Satin-glow anodize

GD Gold anodize

CG Champagne gold anodize

PW Pewter anodize

SPC Clear specular anodize

RG Rose gold anodize

WH White texture powder coat

BL Black texture powder coat

Lens Trim Types

CS Clear semi-specular powder coat

WH White texture powder coat

BL Black texture powder coat

BZ Bronze texture powder coat

NK Nickel texture powder coat

SV Silver texture powder coat

AL Silver sparkle aluminum

TRIM OPTIONS

AD Diffuse acrylic lens ^[16]

PD Diffuse 1/8" polycarbonate lens ^[17]

MOUNTING

MOUNTING TYPE ^[18]

CM Adjustable aircraft cable mount, 24", 48", 96", or 144" only, must specify. Example: 24" cable = CM24 ^[19]

PM Pendant mount. Example: 24" pendant = PM24 ^[20] PM48 = 48" VERIFY LENGTH REQUIRED

PC Power cord mount. Example: 24" cord = PC24 ^[21]

SM TwistLock surface mount to octagonal J-box

WM Wall mount

NOTES

¹ Lumen output based on O Trim Type, W Distribution and CS Reflector Finish, 80 CRI/3500K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.

² See page 4 for HOUSING FINISH DETAILS.

³ Must specify RDB Option with L50 lumen package and higher.

⁴ Restrictions apply. See page 3 for ADDITIONAL CONTROL/DRIVER OPTIONS.

⁵ O Trim Type only.

⁶ Max remote distance 50', including suspension length. Large remote box provided. Specify CEC in the option code when California Energy Commission regulations are required. See page 3 for EMERGENCY BATTERY DETAILS.

⁷ Painted driver box available, specify RDB/BLK or RDB/WH.

⁸ DA Driver only. Installed in remote box, must specify RDB Option. See page 6 for AVI-ON BLUE TOOTH WIRELESS CONTROL DETAILS.

⁹ DA Driver only. Installed in remote box, must specify RDB Option.

¹⁰ Avi-on and Lutron Athena Controls only.

¹¹ RDB Option required. Not available with EM batteries, DA, or DMX drivers.

¹² See page 4 for REFLECTOR FINISH DETAILS.

¹³ L50 lumen package max.

¹⁴ Not available with lumen stops L50 and higher when specified with flush or regressed trim types.

¹⁵ Not available with lumen stops L50 and higher when specified with flush or regressed trim types.

¹⁶ Not available with O or F Trim Types. W Distribution only.

¹⁷ Not available with O or F Trim Types. W Distribution only.

¹⁸ See page 5 for MOUNTING DETAILS.

¹⁹ Canopy painted white unless specified otherwise. Must specify cord. See page 5 for CORD OPTIONS.

²⁰ Specify length in 1" increments, minimum 6". Canopy and pendant match fixture housing color unless specified otherwise.

²¹ 48" and 96" lengths available. Canopy painted white unless specified otherwise. Must specify cord. See page 5 for CORD OPTIONS.



H.E. Williams, Inc. ■ Carthage, Missouri ■ www.hew.com ■ 417-358-4065 ■ Designed and Manufactured in the USA
Information contained herein is subject to change without notice. REV.01/10/25.JL

Cylinders
Page 1 of 6



6CR LED 6.5" Compact Cylinder – Round

FEATURES

- Engineered to deliver great performance in a sleek, space-saving design
- Parallel the performance and style of the Williams downlight collection
- Superior optical control with beams as narrow as 10° and field changeable optics as wide as 65°
- Complement the architectural elements of any space with a multitude of housing, trim and cord finishes
- Limitless application opportunities via pendant, cable, power cord, wall and ceiling mounts
- Ensure a simple and secure installation with TwistLock™ surface mount technology
- Precision-engineered extruded aluminum housing and die-cast aluminum trim face for clean aesthetic
- Low UGR meets LEED and WELL requirements
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING – Extruded aluminum with die-cast aluminum accent ring.
- FINISH – Polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- TRIMLOCK – Innovative TrimLock® reflector retention system ensures trim remains secure.
- OPEN REFLECTOR – Low-iridescent anodized aluminum. Clear semi-specular finish standard.
- LENSED TRIM – Die-cast aluminum frame with micro-prismatic, acrylic lens.
- ELECTRICAL – High-performance Class 2 C.O.B. LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>55,000 hours. Reported L90>55,000 hours. Estimated L70 = 200,000 hours. 50/60 Hz constant current driver.
- MOUNTING – Surface, cable, pendant, power cord, or wall mount. Indoor applications only.
- LISTINGS –
 - cSAs conform to UL STD 1598 and UL STD 8750. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for dry and damp locations.
 - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american.
- WARRANTY – 5-year limited warranty, see hew.com/warranty.

FIXTURE PERFORMANCE DATA

	DISTRIBUTION	WATTAGE	OPEN REFLECTOR TRIM TYPE		FLUSH LENS TRIM TYPE		REGRESSED LENS TRIM TYPE	
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
L10	W	9.0	1027	114	674	75	660	73
	M	9.0	999	111	895	99	895	99
	N	9.0	1000	111	914	102	882	98
L15	W	13.9	1466	105	994	72	972	70
	M	13.9	1471	106	1319	95	1319	95
	N	13.9	1473	106	1347	97	1300	94
L20	W	19.8	2005	101	1352	68	1323	67
	M	19.8	2002	101	1794	91	1795	91
	N	19.8	2004	101	1833	93	1769	89
L30	W	27.8	2985	107	2022	73	1979	71
	M	27.8	2900	104	2683	97	2685	97
	N	27.8	2734	98	2741	99	2646	95
L40	W	38.0	3979	105	2695	71	2638	69
	M	38.0	3865	102	3577	94	3579	94
	N	38.0	3644	96	3654	96	3527	93
RDB OPTION REQUIRED								
L50	W	45.2	5124	113	3364	74	3292	73
	M	45.2	4956	110	-	-	-	-
	N	45.1	4818	107	-	-	-	-
L60	W	50.4	6041	120	4074	81	3986	79
	M	50.4	5842	116	-	-	-	-
	N	50.4	5679	113	-	-	-	-
L70	W	61.7	7044	114	-	-	-	-
	M	61.7	6812	110	-	-	-	-
	N	61.7	6623	107	-	-	-	-

MULTIPLIER TABLES

CCT	COLOR TEMPERATURE	
	CONVERSION FACTOR	
2700K	0.92	
3000K	0.98	
3500K	1.00	
4000K	1.01	
5000K	1.02	

CCT	CONVERSION FACTOR
2700K	0.76
3000K	0.79
3500K	0.82
4000K	0.84
5000K	0.88

TRIM OPTIONS	
CATALOG NUMBER	CONVERSION FACTOR
F	0.75
AD	0.85
PD	0.85

BEAM ANGLE

TRIM TYPE [2]	BEAM ANGLE			
	O	F	L	R
W	65°	60°	50°	50°
M	45°	50°	35°	30°
N	10°	25°	25°	25°

REFLECTOR FINISH	
CATALOG NUMBER	CONVERSION FACTOR
CS	1.00
SG [1]	0.92
GD	0.93
CG	0.96
PW	0.86
SPC	1.02
RG	0.88
WH [1]	0.89
BL [1]	0.47

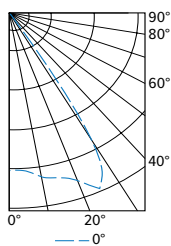
R TRIM	
CATALOG NUMBER	CONVERSION FACTOR
WH	1.00
CS [1]	0.98
BL [1]	0.79
BZ [1]	0.76
NK [1]	0.81
SV [1]	0.81
AL [1]	0.86

1 Distribution will also be affected, consult factory.
2 Beam angle based on CS or WH Reflector Finish.

- Photometrics tested in accordance with IESNA LM-79. Results based on CS (O Trim Type) or WH (L and R Trim Types) Reflector Finish, W Distribution, 80 CRI/3500K CCT, average wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

PHOTOMETRY

6CR-TL-10-L20/835-DIM-UNV-OW-CS Total Luminaire Output: 2005 lumens; 19.8 Watts | Efficacy: 101.0 lm/W | 80 CRI; 3500K CCT



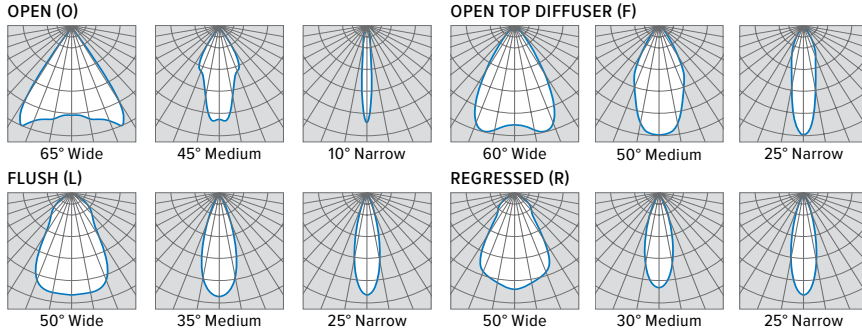
VERTICAL ANGLE	HORIZONTAL ANGLE		ZONAL LUMENS
	0°		
0			1810
5			1864
15			1960
25			2231
35			307
45			44
55			11
65			1
75			0
85			0
90			0

LUMEN SUMMARY		
ZONE	LUMENS	% FIXTURE
0 - 40	1959	98
0 - 60	2004	100
0 - 90	2005	100
0-180	2005	100

PHOTOMETRY CONTINUED ON NEXT PAGE.



6CR^{LED} 6.5" Compact Cylinder – Round



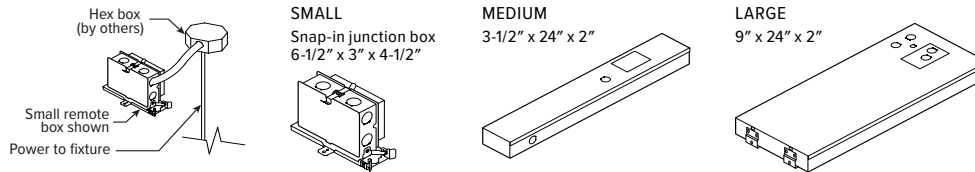
ADDITIONAL CONTROL/DRIVER OPTIONS

Lumen restrictions apply: L50 max DALI driver, L40 max for DMX and LDE1 drivers, L15 min to L60 max for DIM LINE driver.

CONTROL/DRIVER	DESCRIPTION	RDB DETAILS BY LUMEN STOP								
		L10	L15	L20	L30	L40	L50	L60	L70	w/EM
DIM	Dimming driver prewired for 0-10V low voltage applications	OIS	OIS	OIS	OIS	OIM	RIM	RIM	RIM	RIL
DIM1	1% dimming driver prewired for 0-10V low voltage applications	OIS	OIS	OIS	OIS	OIM	RIM	RIM	RIM	RIL
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible at 120V only)	—	OIS	OIS	OIS	OIM	RIM	RIM	—	RIL
DMX	0.1% dimming driver for DMX controls	RIM	RIM	RIM	RIM	RIM	—	—	—	RIL
DALI	DALI dimming driver	RIM	RIM	RIM	RIM	RIM	RIM	—	—	RIL
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver	RIM	RIM	RIM	RIM	RIM	—	—	—	RIL
AVI-LVFA/DA	Avi-on wireless fixture control for use with driver with 12V auxiliary power	RIS	RIS	RIS	RIS	RIM	RIM	RIM	RIM	RIL
AWN/DA	Lutron Athena wireless node integral fixture control, RF only, for use with driver with 12V auxiliary power	RIS	RIS	RIS	RIS	RIM	RIM	RIM	RIM	RIL

REMOTE MOUNT DETAILS

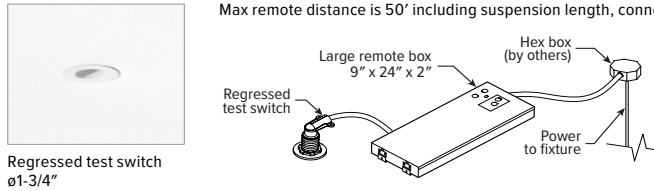
Max remote distance is 50' including suspension length, connection by others. Must be room-side accessible for maintenance.



REMOTE MOUNT KEY	
RIS	RDB Required, Small Box
OIS	RDB Optional, Small Box
OIM	RDB Optional, Medium Box
RIM	RDB Required, Medium Box
RIL	RDB Required, Large Box

EMERGENCY BATTERY DETAILS

Max remote distance is 50' including suspension length, connection by others.



TRIMLOCK DETAILS



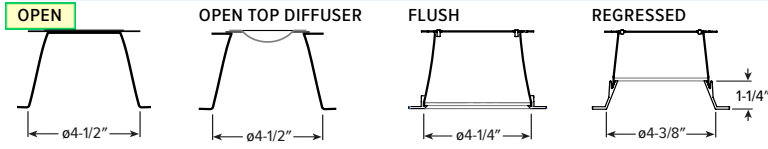


Job Name : MTC AMSC EXPANSION AIRPORT
Manufacturer : HE WILLIAMS
Model Number : 6CR-TL-10-L30/840-STD FINISH-DIM-UNV-OM-CS-PM48/STD FINISH

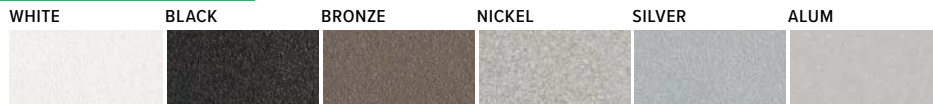
Type :
P2

6CR^{LED} 6.5" Compact Cylinder – Round

TRIM TYPE DETAILS



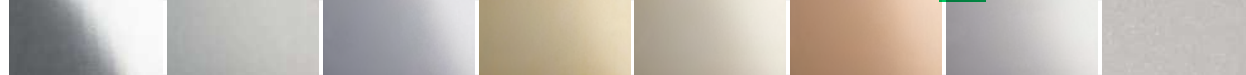
HOUSING FINISH DETAILS



For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

REFLECTOR FINISH DETAILS

Smooth Finish
 SPC



Textured Finish
 WH



SEE NEXT PAGE FOR MOUNTING DETAILS.



6CR LED 6.5" Compact Cylinder – Round

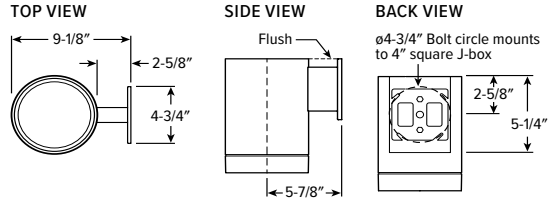
MOUNTING DETAILS

PENDANT MOUNT (PM_)



- Provided with:
- 38" Swivel canopy
 - 3/8" IPS Threaded stem
 - Specify length of stem, 6" minimum, 24" default length

WALL MOUNT (WM)



SURFACE MOUNT (SM)



TwistLock™
 Simple lift-and-twist mounting secures fixture to J-box.

CABLE MOUNT (CM_)



- Provided with:
- Adjustable length aircraft cable, must specify length in 24", 48", 96", or 144" inches.
 - 18-gauge cord, see Cord Options for ordering info.
 - One 5" canopy
 - T-bar clip with 1/4-20 stud
 - Hard ceiling anchor provided by others

POWER CORD MOUNT (PC)



- Provided with:
- 18-gauge cord, see Cord Options for ordering info.
 - One 5" canopy
 - Power cord mounting adaptor

CORD OPTIONS

Must specify cord when cable and power cord mounting.

ORDERING EXAMPLE: S2438/W				
CORD TYPE	LENGTH	# CONDUCTORS	WIRE SIZE	COLOR
S Straight	24 24"	3 3	8 18-gauge	Standard
	48 48"	4 4		/W White
	96 96"	5 5		/B Black
		6 6		Braided ⁽¹⁾
				/WH White
				/BL Black
			/BR Brass	
			/AE Aegean Blue	
			/RE Red	
			/SV Silver	
			/GU Gunmetal	
			/NK Nickel	
			/GR Gray	

¹ (5) conductors cord only.

COLOR DETAILS

Additional colors may be available, consult factory.



SEE NEXT PAGE FOR CONTROL DETAILS.



6CR LED

6.5" Compact Cylinder – Round

AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

FEATURES

Simple

- Gateway-free distributed control
- Contractor friendly installation
- Occupancy/vacancy/daylight sensing

Scalable

- Virtually unlimited network size
- Spans small offices to large warehouses
- Flexible control strategies

Secure

- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

COMMISSIONING & INSTALLATION TOOLS

Avi-on mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers. Live commissioning training and on-site or remote support by Avi-on must be ordered separately through Avi-on.



Commissioning Mobile App

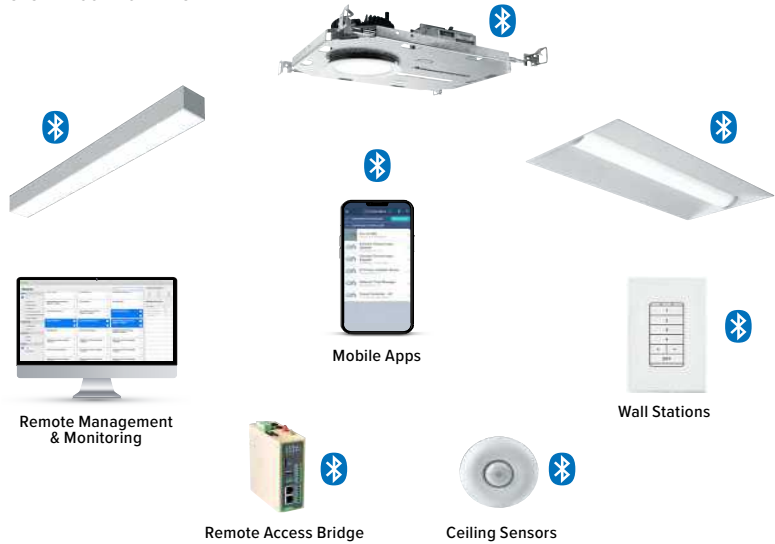


Zone Scanner Web App



Commissioning Pro App

SYSTEM COMPONENTS



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ACCESSORIES

WALL STATIONS	
AVI-B-2401AC-1	Scene controller - buttons numbered 1-4 and up/down/off, 120-277VAC
AVI-B-2402BAT-1	Scene controller - buttons numbered 1-4 and up/down/off, battery powered
AVI-B-2401AC-2	Dimmer with presets - buttons with percentages and up/down/off, 120-277VAC
AVI-B-2402BAT-2	Dimmer with presets - buttons with percentages and up/down/off, battery powered
AVI-B-2401AC-3	Two button control on/off or hold to dim up/down, 120-277VAC
AVI-B-2402BAT-3	Two button control on/off or hold to dim up/down, battery powered

NETWORK	
AVI-RAB-LTE	Remote access bridge
AVI-NTM	Network time manager with battery backup
CEILING MOUNT SENSORS	
AVI-KIT-SEN-DUCM	PIR motion and ultrasonic sensor kit
AVI-KIT-SEN-ICM	PIR motion and photocell sensor kit

For load controllers and additional accessory info, see hew.com/avi-on



Job Name : MTC AMSC EXPANSION AIRPORT
Manufacturer : BEGHELLI USA
Model Number : LC1E-SA-LR/LG-1-W-W

Type :
EX1

LC1E



TITLE
20



Job: _____ Type: _____
 Model: _____ Date: _____



■ about

The **LC1E** provides a thin-profile, lightweight alternative to the traditional die-cast exits. The strength of die-cast aluminum with the low-profile look, makes it ideal for today's contemporary applications.

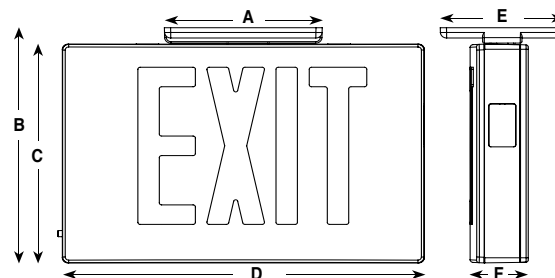
■ internal

Self-powered and AC only: comes standard configured with 120/277V input. Nickel- Cadmium batteries provide a minimum 90 minutes of emergency duration. Solid state charger & transfer. Fuse protection is standard.

■ external

The **LC1E** is designed to provide a durable, attractive and maintenance free exit sign. The **LC1E** is manufactured from premium-grade, aluminum housing (also available in black or white powder-coated finishes). A universal mounting canopy is also included for ceiling and end mount applications. The **LC1E** comes standard configured with high-output LED technology, available in red or green. AC only and Self-powered versions are available. The **LC1E** is damp location rated.

■ dimensions



Series	A	B	C	D	E	F
LC1E	5 1/2"	9"	8 3/8"	12 5/8"	4 5/16"	2"
	170 mm	286 mm	213 mm	321 mm	110 mm	51 mm

■ ordering information

EXAMPLE: LC1E HT LR 1 WW

Series	Operation	Letter Color	No. of Faces	Housing	Face Color	Options
LC1E	HT (AC only)	LG (green)	1 (single)	AL (aluminum)	AL ¹ (aluminum)	2CK ² (dual circuit operation)
	SA (self-powered)	LR (red)	2 (double)	B ¹ (black)	B (black)	AT (autotest - SA only)
		SPECIFY LETTER COLOR	U (universal)	W (white)	W (white)	TP (tamper proof screws)
Wireguard Accessories						USA ³ (assembled in America)
WG 6DX16.5LX14W WHT						

NOTE 1: Standard configuration - black housing, brushed aluminum faceplate (shown)

NOTE 2: Specify voltage 120V or 277V

NOTE 3: Contact factory



www.beghelliusa.com

03/21/25

Beghelli reserves the right to change, without notice, specifications or materials that in our opinion will not alter the function or performance of the product. Technical specifications that appear on www.beghelliusa.com supersede all other versions existing in print or electronic form.



Job Name : MTC AMSC EXPANSION AIRPORT
Manufacturer : BEGHELLI USA
Model Number : LC1E-SA-LR/LG-1-W-W

Type :
EX1

Technical

■ electrical

BATTERY: The **LC1E SA** is designed with a maintenance free, Nickel-Cadmium battery providing a minimum emergency duration of 90 minutes. Recharge time is twenty-four (24) hours. The battery operating temperature is from 32°F to 122°F (0°C to 50°C).

CIRCUIT: The **LC1E** is configured with high-output LED lamps. Standard with 120/277V input. All LED versions consume only 1.1W nominal power.

■ mechanical

The **LC1E** is constructed from durable die-cast aluminum. Universal mounting pattern and key hole slots are stamped on the back. A surface mount conduit entry knockout is also provided through the back of the fixture. Field removable directional chevron arrows are standard. The **LC1E** is supplied standard with a brushed aluminum face(s) and a black coated housing held securely in place with no visible screws, nuts or fasteners for a clean look.

■ self-powered

The **LC1E** is designed to operate on battery power in the event of a regular/mains power failure. Both the battery and charger are completely contained within the standard enclosure. There are no external components and no alterations made to the external dimensions of the standard sign.

■ die-cast design

The excellent visual performance and architecturally pleasing design makes the **LC1E** the premier choice for applications requiring the durability and the craftsmanship of die-cast aluminum exit signs. The standard brushed aluminum face blends well with any setting and provides a clean, contemporary look. The die-cast aluminum construction provides the **LC1E** with exceptional rigidity and strength.

■ autotest

For the **LC1E**, the Beghelli Autotest diagnostic system is available as an option. Featuring continuous monitoring of the units main components (battery, charger, transformer, lamps & LED's) and providing instant visual verification of the status.

AUTO-TEST FEATURES:

- Monitor battery disconnection, charger failure, lamp failure, LED failure and transformer fault every 5 seconds without discharging the battery.
- Automatically indicates lamp, battery and charger status by dual-color LED lamp.
- Factory preset Autotest does not need to be field adjusted or reset for proper operation.

AUTO-TEST FUNCTIONS:

- Verifies battery disconnect, charger board failure, lamp failure, LED failure and transformer failure every 5 seconds.
- One (1) minute Autotest every month.
- Thirty (30) minute Autotest every six (6) months.
- Ninety (90) minute Autotest every twelve (12) months.

■ warranty

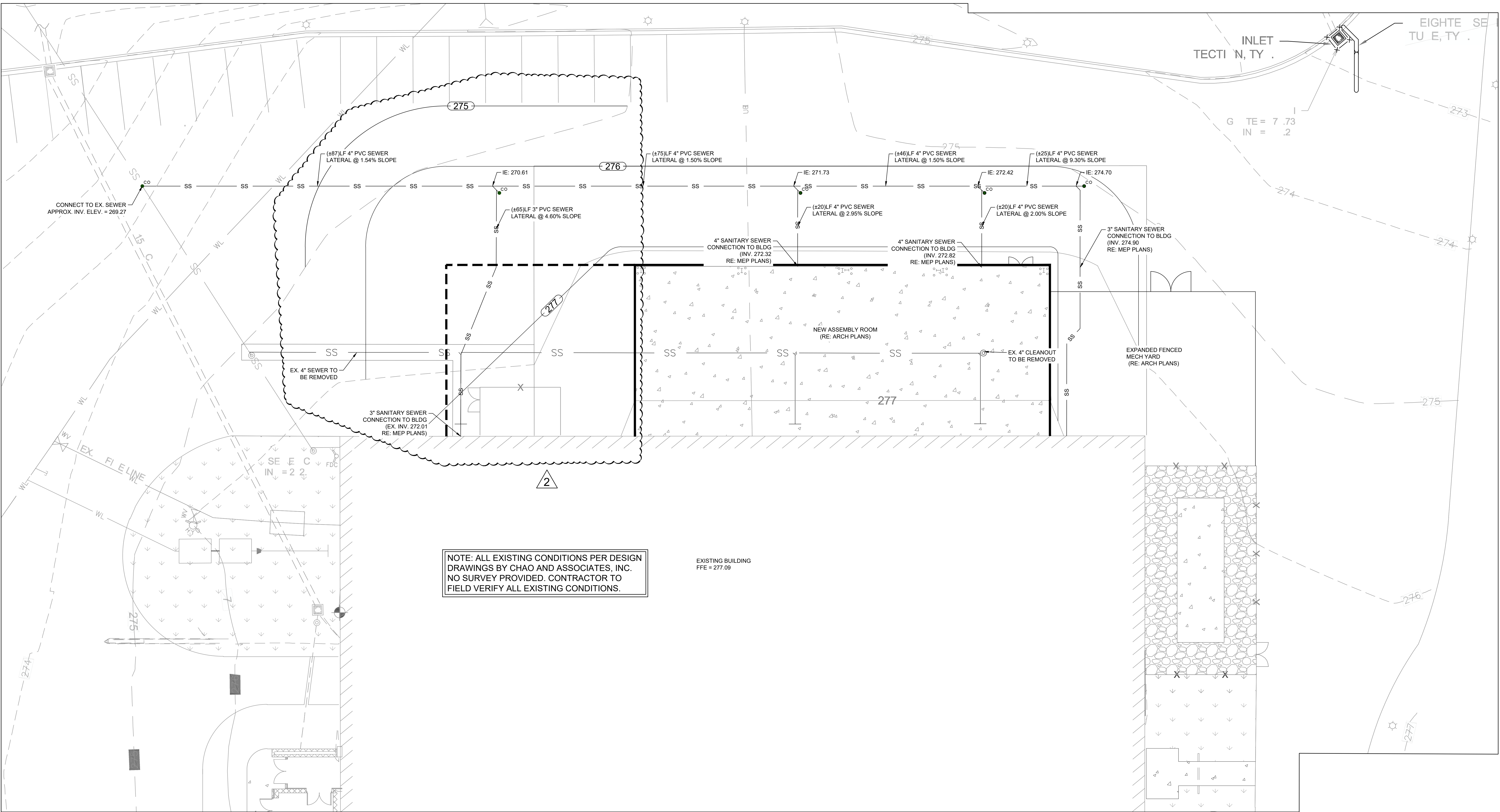
The **LC1E** comes with a 5-year factory warranty. Deliberate damage, misuse, improper installation effectively cancel the warranty. Find complete warranty details on-line at beghelliusa.com.

UTILITY NOTES

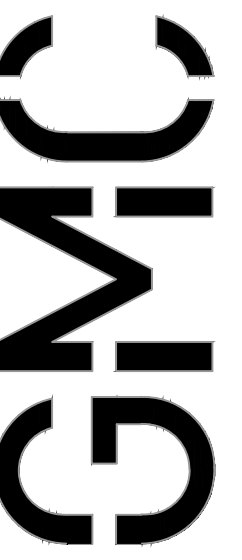
1. ALL SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE STATE OF SOUTH CAROLINA AND CITY OF CAYCE.
2. SEWER LINES (INCLUDING LATERALS) SHALL BE POLYVINYL CHLORIDE (PVC) SDR 26 PER ASTM D-3034.
3. SEWER CLEANOUTS SHALL BE IN ACCORDANCE WITH THE CITY OF WEST COLUMBIA DETAILS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT UTILITY EXIT POINTS, EXIT PORCHES, ETC.
5. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND FIELD LOCATIONS WHEN POSSIBLE, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SPECIFIED ON THE PLAN OR 12", WHICHEVER IS LESS, CONTACT THE DESIGN ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
6. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND/OR FINAL CONNECTION OF SERVICES.
7. A MINIMUM OF 10 FEET HORIZONTAL SEPARATION MUST BE MAINTAINED BETWEEN WATER AND SEWER LINES. THE VERTICAL SEPARATION IS TO BE A MINIMUM OF 18".
8. REFER TO THE PHOTOMETRIC AND ARCHITECTURAL PLANS FOR SITE LIGHTING ELECTRICAL DESIGN AND LAYOUT.
9. ALL SITEWORK SHALL MEET OR EXCEED THE CITY OF CAYCE STANDARDS AND THE SITEWORK SPECIFICATIONS.
10. LOCATION OF SITE UTILITIES SHALL BE VERIFIED BY GENERAL CONTRACTOR & THE PROPER UTILITY COMPANY PROVIDING SERVICE.
11. GENERAL CONTRACTOR SHALL PROVIDE 2' x 2' x 6" THICK BLACK CONCRETE APRON AT ALL CLEANOUTS OUTSIDE OF BUILDING.
12. RESTRAINED JOINTS SHALL BE PROVIDED AT ALL BENDS, TEES, AND FIRE HYDRANTS.
13. DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR FITTING.
14. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
15. GENERAL CONTRACTOR SHALL HAVE APPROVAL OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THIS SYSTEM PRIOR TO INSTALLATION.

LEGEND

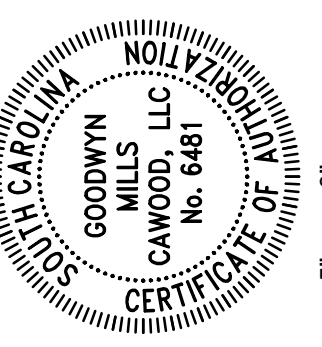
- - - - - EXISTING CONTOUR
- 990 ○ PROPOSED CONTOUR
- SS — SANITARY SEWER LINE



NOTE: ALL EXISTING CONDITIONS PER DESIGN DRAWINGS BY CHAO AND ASSOCIATES, INC. NO SURVEY PROVIDED. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS.



117 Welborn Street
Greenville, SC 29601
T 864.527.0460



DATE	06/02/2025	ML	CS
CONSTRUCTION SET	05/27/2025		
ADDENDUM 02			
CHECKED BY:			
DRAWN BY:			



GRADING AND UTILITY PLAN

MTC AMSC CENTER
1260 LEXINGTON DRIVE
WEST COLUMBIA, SC 29170
GMC Project#GRCBXXXXXX

C-6.0