

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	Lum. Lumens	LLF	Description*	Arm	BUG Rating
⊙	12	C	SINGLE	NA.	11034	0.850	DMS55-135V80LED4K-ES-LE4F	0	B2-U0-G2

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	
Parking	Illuminance	Fc	2.04	6.0	0.6	3.40	10.00	

* The Luminous center (LC) is measured from ground level up to the light source. 6" or less difference in reality will not modify the photometric results.
 Le centre lumineux (CL) est mesuré depuis le niveau du sol jusqu'à la source lumineuse. Une différence de 6" et moins dans la réalité ne modifiera pas la photométrie.

Please contact us or visit our website to receive the IES files used for this project.
 Veuillez nous contacter ou visiter notre site web pour obtenir les fichiers IES utilisés dans ce projet.

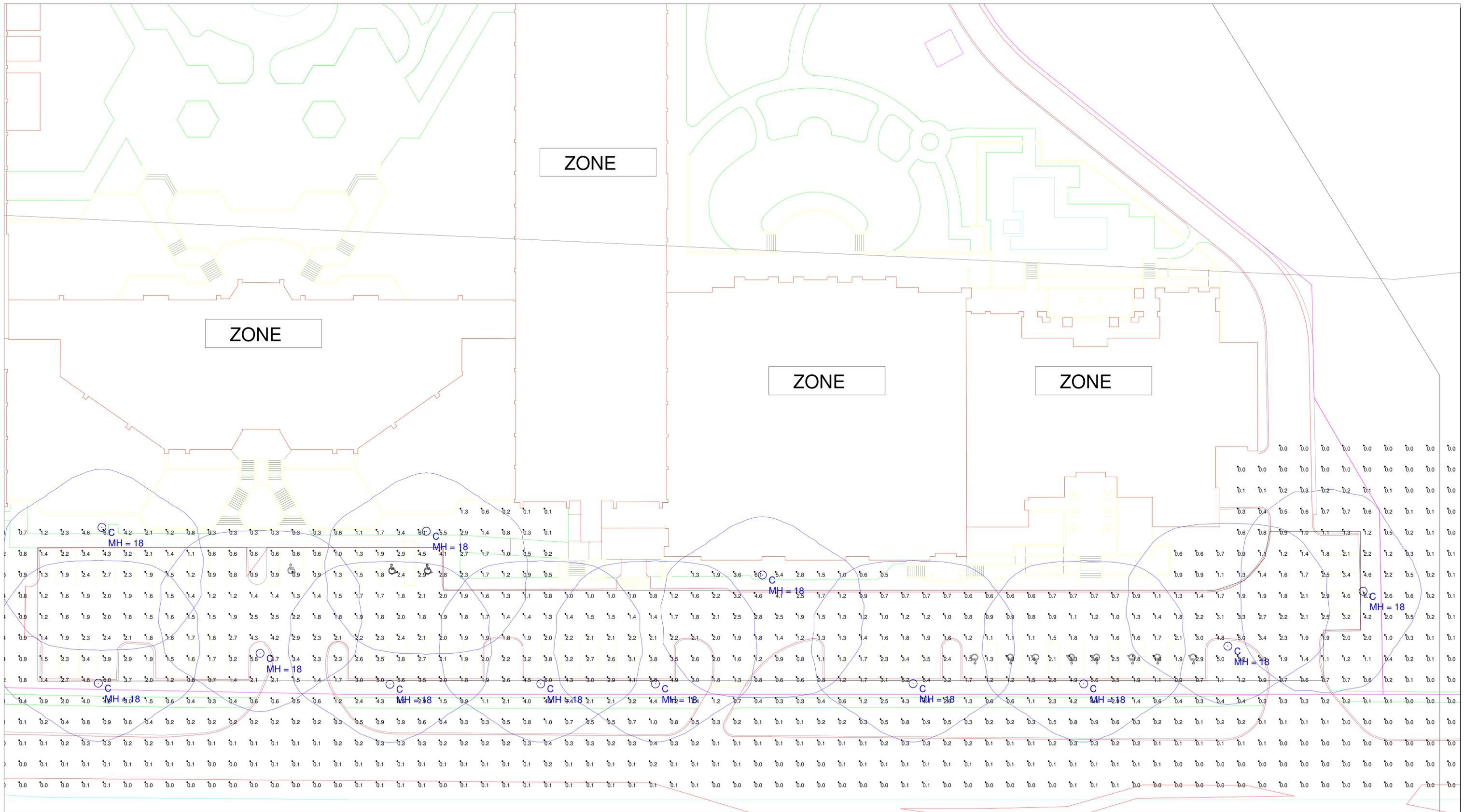
www.lumec.com
lumec.photo@philips.com
 450-430-7040 ext. 501

Filename: Marco Island Marriott 2 (091412).AGI

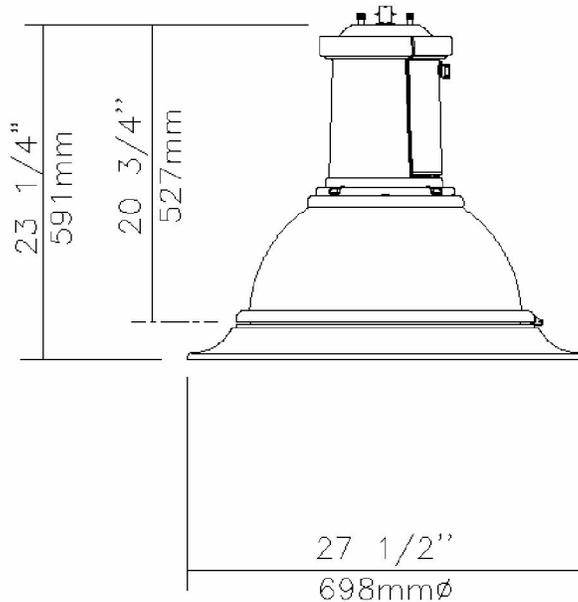
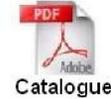
Photometric department / Département photométrique
 640 Curé-Boivin
 Boisbriand (Québec) J7G 2A7 Canada

Date: 2012-09-14 Page 1 of 2





Specification



EPA: 1.64 sq ft / weight: 49.349 lb (22.43 kg)
Note: 3D image may not represent color or option selected.
Logos above include link, click to access.



Qty	1	Luminaire	DMS55-135W80LED4K-ES-LE3F-VOLT-COLTX
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Description of Components:

Hood: Die cast A360.1 aluminium dome, mechanically assembled on the luminaire housing.

Housing: In a round shape, this housing is made of injection die cast A360.1 aluminium, complete with a weatherproof door giving a toolfree access to the ballast, without disconnection of wiring, mechanically assembled. This suspension system permits a full rotation of the luminaire in 90 degree increments.

Access-Mechanism: A die cast A360 aluminum technical ring with latch and hinge c/w a cast-in reflector. The mechanism shall offer toolfree access to the inside of the luminaire. An embedded memory-retentive gasket shall ensure weatherproofing.

Light Engine: LEDgine composed of 4 main components: **LED lamp / Optical System / Heat Sink / Driver**
Electrical components are RoHS compliant.

Lens: Made of soda-lime tempered glass lens, mechanically assembled and sealed onto the lower part of the heat sink.

Lamp: (Included), Lamp type Philips Lumileds Rebel ES. Composed of 80 high-performance white LEDs, 135w lamp wattage. Color temperature of 4000 Kelvin nominal, 70 CRI. Operating lifespan based on LM80 results after which 50% still emits over 70% (L70) of its original lumen output. Use of a metal core board insures greater heat transfer and longer lifespan of the light engine. The LED circuit board is included with a connector, (no connection wire required for ease of replacement).

Optical System: (LE3F), I.E.S type III (asymmetrical). Composed of high-performance acrylic refractors lenses to achieve desired distribution optimized to get maximum spacing, target lumen's and a perfect lighting uniformity. System is rated

Specification

IP66. Performance shall be tested per LM63 and LM79 and TM15 (IESNA) certifying its photometric performance.

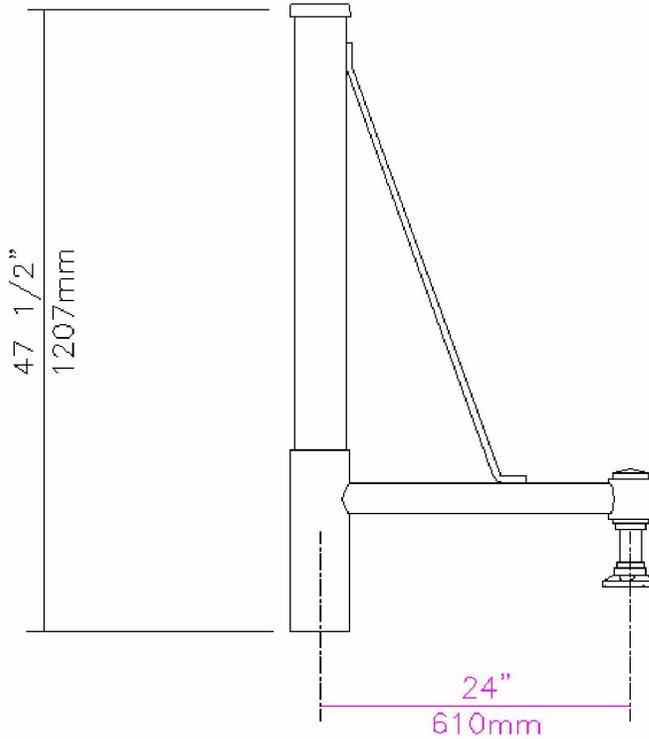
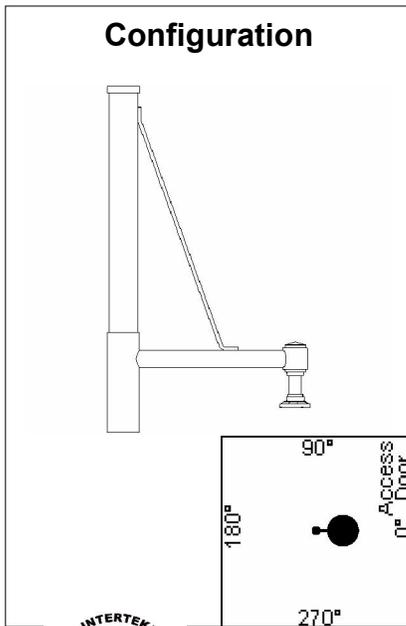
Heat Sink: Heat Sink: Made of die cast A360 aluminum optimising the LEDs efficiency and life, complete with a cast in skirt and technical ring. Product does not use any cooling device with moving parts (only passive cooling device)

Driver: High power factor of 95%. Electronic driver, operating range 50-60 Hz. **Auto-adjusting to a voltage between 120 and 277 volt AC rated for both application line to line or line to neutral, Class I**, THD of 20% max. Maximum ambient operating temperature from -40F(-40C) to 130F(55C) degrees. Certified in compliance to cULus requirement. Dry and damp location. Assembled on a unitized removable tray with Tyco quick disconnect plug resisting to 221F(105C) degrees.

The current supplying the LEDs will be reduced by the driver if the internal temperature exceeds 176F(80C), as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction.

Surge Protector: LED Driver 3 poles 10KV surge Protectors that protect Line-Ground, Line-Neutral, and Neutral-Ground in accordance with IEEE / ANSI C62.41.2 guidelines.

Specification



Qty 1 Bracket PC-1A-COLTX

Description of Components:

Arm: Shall be made from aluminum tubing 6061-T6, 2 3/8" (60mm) outside diameter, welded.

Decorative Element: Bent decorative aluminum rod, 6063-T5 alloy, 1/2" (13mm) outside diameter, welded assembly.

Central Adaptor: Made of aluminum. Slip-fits 9" (229mm) over a 4" (102mm) outside diameter pole or tenon. Mechanically fastened to the pole or tenon by two sets of three set-screws at 120 degrees around the bracket.

Specification

Miscellaneous

Description of Components:

Wiring: Gauge (#14) TEW/AWM 1015 or 1230 wires, 6" (152mm) minimum exceeding top of the bracket.

Hardware: All exposed screws shall be stainless steel with Ceramic primer-seal basecoat to reduce seizing of the parts. All seals and sealing devices are made and/or lined with EPDM and/or silicone.

Finish: Textured color to be advised (Standard Lumec color): _____ (COLTX) and in accordance with the AAMA 2603 standard. Application of a polyester power coat paint (4 mils/100 microns) with ± 1 mils/24 microns of tolerance. The Thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D 2244 standard, as well as luster retention in keeping with the ASTM D 523 standard and humidity proof in accordance with the ASTM-D2247 standard.

The surface treatment achieves a minimum of 2000 hours for salt spray resistant finish in accordance with the tests performed and the ASTM-B117 standard.

Note: IMPORTANT: All missing details must be clearly specified on the return of these approval drawings. Thank you for your cooperation.

COLOR: _____ / VOLTAGE: _____

Pole Information: This bracket is available for a 4"(102mm), 5"(127mm) or 5 9/16" (141mm) Outside Diameter pole or tenon.

Please specify diameter required: _____

LED products manufacturing standard: The electronic components sensitive to electrostatic discharge (ESD) such as light emitting diodes (LEDs) are assembled in compliance with IEC61340-5-1 and ANSI/ESD S20.20 standards so as to eliminate ESD events that could decrease the useful life of the product.

Quality Control: The manufacturer must provide a written confirmation of its ISO 9001-2008 and ISO 14001-2004 International Quality Standards Certification.

Mechanical resistance: In order to ensure the mechanical resistance of the poles, the reflected area should be calculated according to AASHTO standards and resists to a wind of 140 km/hr.

Web site information details: Click on any specific information details you need:

[Paint finish](#) / [Warranties](#) / [Installation pictures](#) / [ISO 9001-2008 Certification](#) / [ISO 14001-2004 Certification](#)

Specification

Lamp technical information for DMS50 DMS55										
LED = Philips Lumileds Rebel ES, CRI = 70, CCT = 4000K (+/- 350K)										
System (LED + driver) rated life = 100,000 hrs ¹										
Lamp	Typical delivered lumens ²		Typical lamp wattage (W)	Typical system wattage ³ (W)	Typical current @ 120 V (A)	Typical current @ 240 V (A)	Typical current @ 277 V (A)	LED current (mA)	HPS equivalent ⁴	Luminaire Efficacy Rating (Lm/W)
	Flat lens	Sag lens								
70W64LED4K-ES	6470	6680	70	86	0.72	0.36	0.31	350	100 W	78
110W64LED4K-ES	9170	9460	110	135	1.13	0.56	0.49	530	200 W	70
90W80LED4K-ES	8200	8450	90	95	0.79	0.40	0.34	350	150 W	89
135W80LED4K-ES	11600	12000	135	138	1.15	0.58	0.50	530	250 W	87

¹ L70 = 100,000 hrs (at ambient temperature = 25°C and forward current = 700 mA)

² May vary depending on the optical distribution used

³ System wattage includes the lamp and the LED driver.

⁴ Compared to Dorus (equivalence should always be confirmed by a photometric layout)

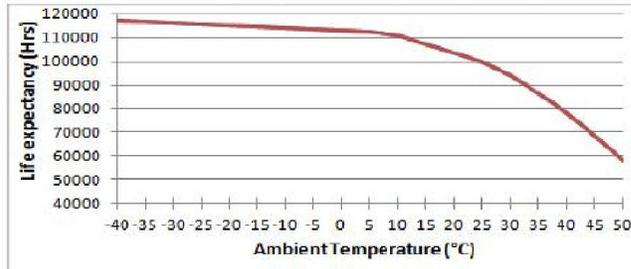
Photometric tests are done at 25°C ambient (as requested by LM-79). If our product is used at a different ambient temperature (nighttime average), you can multiply the lumens by the percentage below.

Ambient (°C)	-20	-10	0	5	10	15	20	25
% Flux	105.8	105.1	104.2	103.8	102.8	101.9	101	100

As 4000K is our standard, photometric tests are only done with this CCT. If you want to use another CCT (6000K or 3000K) you can multiply the lumens by the percentage below.

CCT (K)	6000	4000	3000
% Flux	100	100	59.28

Life expectancy vs ambient temperature (@ 700 mA)



Note: Due to rapid and continuous advances in LED technology, LED luminaire data is subject to change without notice and at the discretion of Philips.

COMPOSITE LIGHT POLES

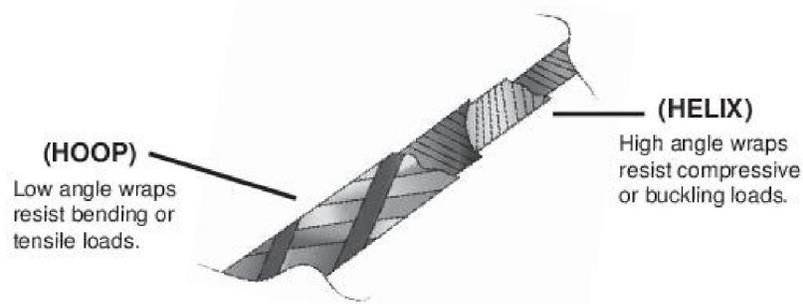
Fiberglass was invented in 1938 by Russell Games Slayter of Owens-Corning. The material was originally used as insulation but has since been developed for usage in many different forms, including composite fiberglass poles. Composites are made up of 2 individual materials referred to as constituent materials; (1) matrix and (2) reinforcement. The composite poles we offer are formed from (1) continuous wound fiberglass and (2) resin. The fiberglass filament strands are saturated with a pigmented resin before the winding process. State of the art equipment calculates the fiberglass placement and wind angle, when combining both;

1. A steep wind angle (hoop) which provides radial strength and
2. A shallow wind angle (helix) which provides axial strength and stiffness

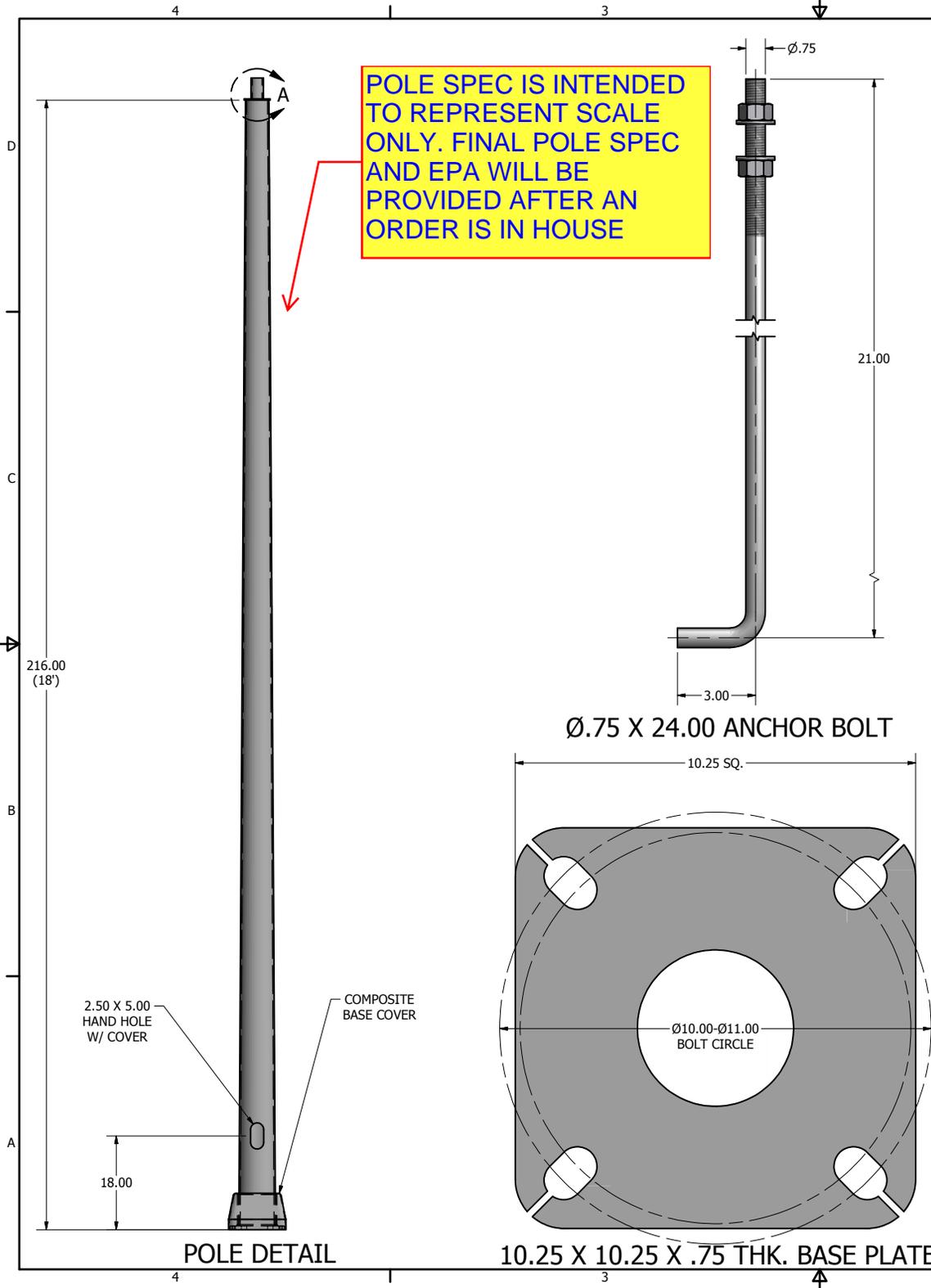
With over 10,000 miles of continuous fiberglass filaments used in every pole, our composite poles exceed the AASHTO and ANSI C136.20 national specifications for deflection and stiffness.

Advantages of Fiberglass Composite Poles:

- Will not rust, rot or corrode
 - Will outlast wood, aluminum, steel and concrete poles under the same climatic and environmental conditions
 - Won't deteriorate in salt air, acid rain or acid soil
 - Can withstand chemical-laden environments
- Safe / non conductive material
 - Reduces the hazards of electric shock and its associated liability
- Lightweight
 - Save Money: Lower installation cost
 - Save Time: Faster installation
 - Save Man Power and Equipment Costs: Does not require heavy lifting equipment
- Engineered with a minimum of a 2:1 safety factor for the specified wind loads
 - Wind shear resistant with minimum deflection
 - Vibration resistant
- Engineered to withstand extreme temperatures
 - Composite poles actually become stronger in extreme cold
- Environmentally safe – no chemical preservatives or emissions
- Significantly greater strength to weight ratio than competitive materials

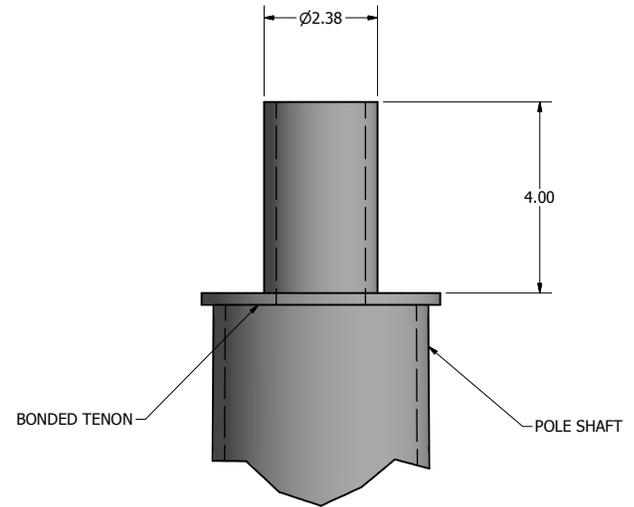


POLE SPEC IS INTENDED TO REPRESENT SCALE ONLY. FINAL POLE SPEC AND EPA WILL BE PROVIDED AFTER AN ORDER IS IN HOUSE



POLE SHAFT SPECIFICATIONS			
1.	THE POLE SHAFT SHALL BE CONSTRUCTED OF CONTINUOUS FIBERGLASS FILAMENT COMBINED WITH A THERMOSETTING POLYESTER RESIN. THE GLASS FILAMENT SHALL BE HELICALLY WOUND AT ALTERNATING HIGH AND LOW ANGLE LAYERS FOR MAXIMUM COMPRESSIVE AND BENDING STRENGTH. THE HAND HOLE AREA AND HARDWARE ATTACHMENT AREAS SHALL BE REINFORCED.		
2.	BASE PLATES ARE CONSTRUCTED OF STRUCTURAL QUALITY HOT ROLLED CARBON STEEL PLATE (ASTM A36) WITH A GUARANTEED MINIMUM YIELD STRENGTH OF 36,000 PSI AND FACTORY BONDED TO THE POST.		
3.	ANCHOR BOLTS ARE "L" FORMED RODS HAVING A MINIMUM YIELD STRENGTH OF 55,000 PSI FABRICATED FROM ASTM F1554 GR. 55, THE BOLTS ARE PARTIALLY GALVANIZED PER ASTM A153 SPECIFICATIONS AND FURNISHED COMPLETE WITH 2 HEX NUTS AND 2 FLAT WASHERS.		
4.	FINISH SHALL BE A UV RESISTANT CATALYZED URETHANE SMOOTH COATING IN A STANDARD COLOR.		
POLE DIMENSIONS			
POLE HGT. (FT.)	TOP DIA. (IN.)	BOTTOM DIA. (IN.)	MTG. HGT. (FT.)
18'	4.50	7.02	18'
BASE PLATE DIMENSIONS			
BOLT CIRCLE (IN.)	BASE SIZE (IN.)	BOLT HOLE (IN.)	PLATE THK. (IN.)
10.00-11.00 BC	10.25 SQ	1.00	.75
ANCHOR BOLT DIMENSIONS			
ANCHOR BOLT DIA. (IN.)		ANCHOR BOLT LENGTH (IN.)	
.75		24.00	
ALLOWABLE WIND LOADING (SQ. FT.)			
WIND* EPA		150 MPH 2.7	

*2001 AASHTO LTS-4 (3 SEC. GUST FACTOR)



DETAIL A
T2 TENON MOUNT DETAIL VIEW

DRAWN M. HARVALA	9/13/2012	 LYTE POLES, INC. P.O. BOX 340 EASTPOINTE, MI 48021
CHECKED		
REVISION:	DATE:	TITLE
APPROVED:		MARCO ISLAND
QUOTE: 1203982		SIZE C
S.O.#		CATALOG NO. 315-18-45SM-AB-T2-STD
		SCALE NONE
		DWG NO. SD-1428
		SHEET 1 OF 1