



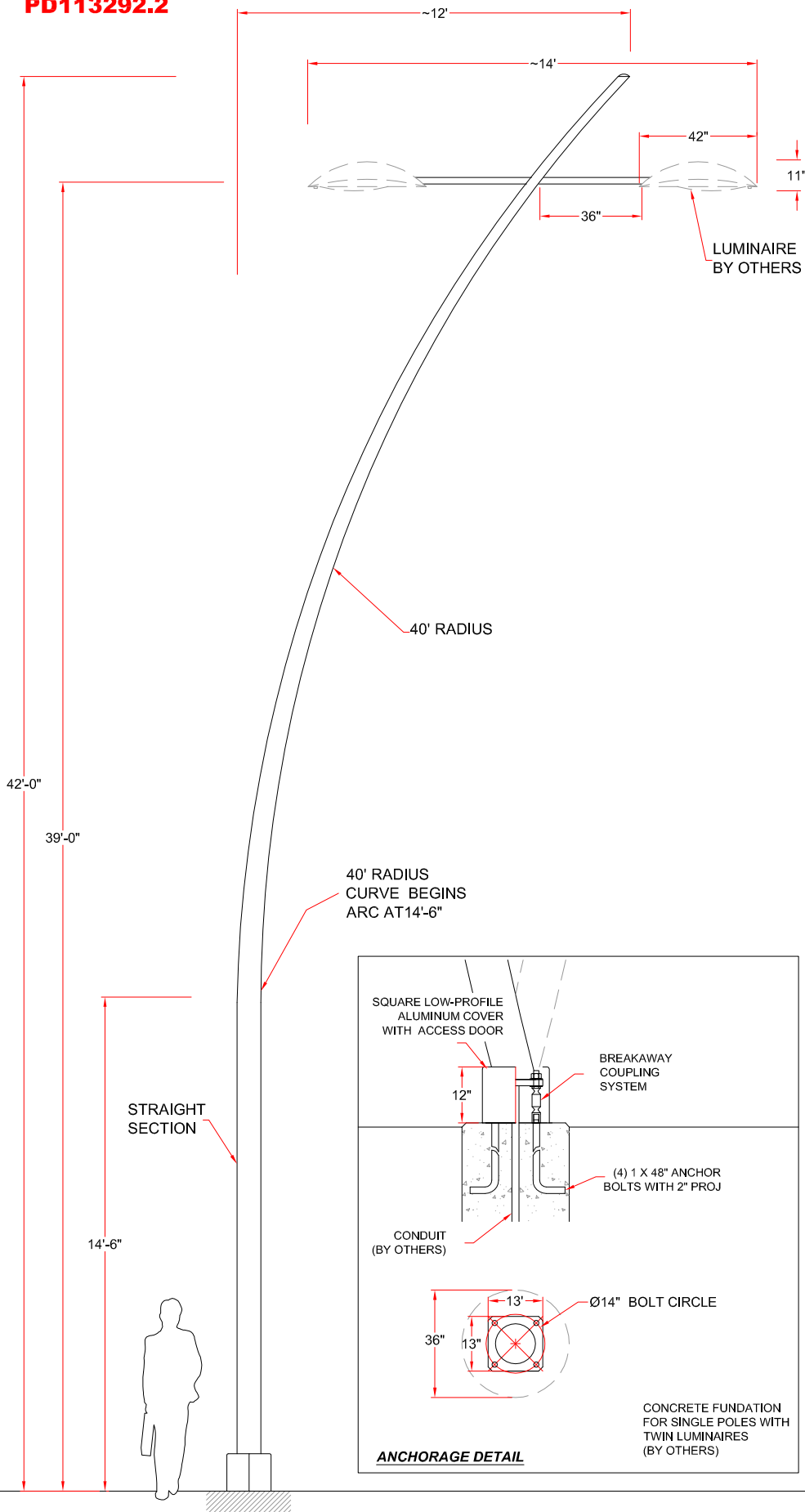
Belt Line Replacement Street Lighting Assemblies

Description: This bid is to purchase eight 40' radius street light poles, ten base covers, sixteen luminaires, 40 anchor bolts, and twenty pulse start lamps. All hardware is to be included.

Materials: The lighting assemblies will be of same manufacture as in the details sheets attached. All poles will be individually wrapped for protection from damage. The color of the lighting assemblies shall be approved by the Town prior to the powder coating process. Anchor bolts are to be provided with each pole.

Delivery: Delivery will only be accepted on Mondays – Fridays only between the hours of 8:00 am and 2:00 pm. The Town will be notified 48 hours in advance of delivery being made. Contact information will be provided to the lowest most responsible bidder.

PD113292.2



BELTLINE ROAD MEDIAN

Light fixture: by others

Pole: 7 ga steel, curved, tapering from 9.5" at the bottom to 3.5" at the top, welded to a 1" thick base plate. Pole is rated for 90 mph + 30% gust factor.

EPA @ 90 mph: 9.2 sqf

Arm: 2" steel pipe welded to the pole

Base cover: two-piece cast aluminum attached to pole with tamper resistant s/s hardware

Hand hole: 2-1/2" x 5" opening with a 3-1/2" x 6" steel door tethered to the pole with s/s cable

Anchor bolts: four 48"L x 1"O.D. galvanized 55ksi min. yield bolts with 4" hook and projection, with two nuts and two washers each and steel template to install bolts on 14" bolt circle.

All exposed hardware: stainless steel

Finish: smooth semi-gloss TGIC polyester powder coat over galvanized

Color: custom as per specifications: Sherwin Williams B65W00651.

Date:
Jun. 2, 2011

Model:
CSP39-RTC-40-BAB-SW

Sheridan
lighting systems, inc.

Sheridan Lighting Systems, Inc.
4-2525 Dunwin Dr
Mississauga, ON L5L 1R9

T 905-369-0101 F 905-369-0102
sales@sheridansys.com www.sheridansys.com

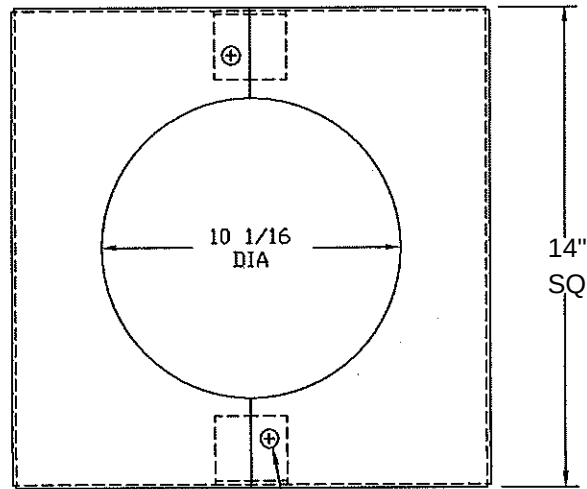
Pole Color

IFS COATINGS, INC.

Product # SRSL 90259

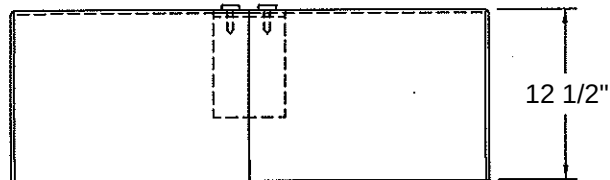
Batch # C11341

Desc: Kim Platinum Silver



(2) 560A317-1 BASE COVER
HALF (CUT FROM 560B265-2
BASE COVER HALF WELDMENT)

(2) #10 X 1/2 LG TYPE B PH
PAN HD SELF TAPPING SCREW
(18-8 SS)



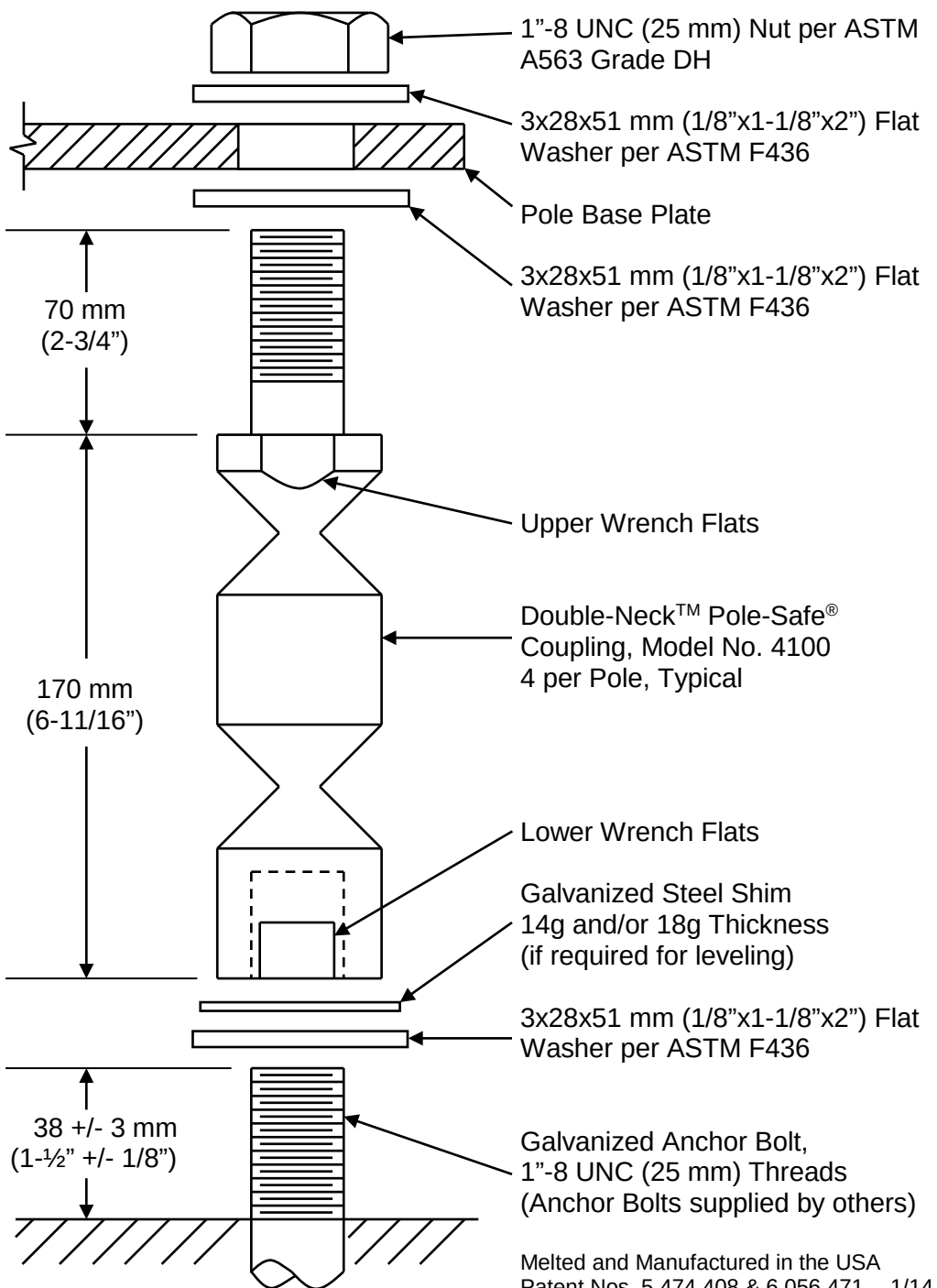
NOTE:

1. MATERIAL- LOW CARBON STEEL 50,000 PSI
MIN YIELD PER ASTM A1011 (A606 IF SELF
WEATHERING)
2. THE (2) 560A317-1 BASE COVER HALF AND
(2) #10 X 1/2 LG TYPE B PH PAN HD SELF
TAPPING SCREW (18-8 SS) ARE SHIPPED
UNASSEMBLED
3. FINISH- TO MATCH POLE

560A317	5	BASE COVER (9.85 RD)
PART NO	QTY	DESCRIPTION

MMC SO# 58572

DWN: PAUL F.	BASE COVER (9.85 RD POLE)	
DATE: 10-20-08	FOR 13" SQ BASE WITH 1" OR 1 1/4 ANCHOR BOLTS	
CHK: FLOYD F.	Millerbernd MANUFACTURING CO. WINSTED, MN	560A317
SCALE: NTS		



SPECIFICATIONS

Performance Criteria:

1. Double-Neck™ Pole-Safe® conforms to AASHTO "Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals."
2. Double-Neck™ Pole-Safe® has been crash-tested and FHWA approved in accordance with the requirements of NCHRP Report 350, "Recommended Procedures for the Safety Performance Evaluation of Highway Features."
3. Maximum Allowable Pole Mass = 450 kg (992 lb.) (total, including fixtures).

Physical Properties per Coupling:

1. Ultimate Tensile Strength = 221.5 kN (49.8 kips), minimum.
2. Tensile Yield Strength = 192.0 kN (43.2 kips), minimum.
3. Ultimate Restrained Shear Strength = 16.9 kN (3.8 kips), minimum.
4. Ultimate Restrained Shear Strength = 24.4 kN (5.5 kips), maximum.

Corrosion Protection:

1. All Double-Neck™ Pole-Safe® couplings, nuts, bolts, and washers are galvanized after fabrication in accordance with ASTM A153. All leveling shims are galvanized after fabrication in accordance with ASTM A653.

Pole-Safe® Model No. 4100 Breakaway Support System for Light Poles



20 Jones Street
New Rochelle, NY 10801
914-636-1000
www.transpo.com



Pole-Safe® Model No. 4100

Breakaway Support System for Light Poles

INSTALLATION INSTRUCTIONS

NOTE: Proper Installation is essential for the Pole-Safe Breakaway Support System to function correctly as designed.

1. Surface of foundation around anchor bolts must be smooth, flat and free of debris.
2. Existing anchor bolts MUST be sized to the proper projection height as shown on the reverse side of these instructions. Then, anchor bolts shall be cleaned, and if necessary, coated with cold galvanizing material prior to installing Pole-Safe couplings.
3. Install lower flat washers, and thread Pole-Safe couplings on to anchor bolts.
4. If needed, shims are provided for leveling of the pole base plate, and may be installed at the base of the coupling(s). No more than 2 shims shall be installed on any one coupling. For larger adjustments that may be required, install no more than one additional flat washer under the base plate, on the top shank of the coupling(s).
5. Use lower wrench flats to tighten Pole-Safe couplings on to the anchor bolts. Secure couplings as tight as possible using conventional wrenches. Do not use a pipe wrench. Couplings must be seated squarely on the washers, and washers must be seated uniformly on top of the foundation. If necessary, remove coupling and reduce the anchor bolt projection height to allow proper seating of the couplings.
6. Install a flat washer on top of each Pole-Safe coupling, and set the pole with base plate on top of the couplings.
7. Install a flat washer and nut on to each Pole-Safe coupling extended through the pole base plate. If pole is not plumb, install shims and/or washers for proper leveling as described in Step 4 above.
8. Tighten each nut on to pole base plate. Pole-Safe couplings must be held with an additional wrench on the upper wrench flats to prevent an induced torque stress across the necked portion of the couplings. Nuts shall be tightened using the turn-of-nut method in accordance with American Institute of Steel Construction (AISC) procedures (for ASTM A325 and A490 anchor bolts, 1/3 rotation past "snug tight").

Transpo Industries, Inc., 20 Jones Street, New Rochelle, NY 10801-6098
Phone: 914-636-1000 Fax: 914-636-1282
www.transpo.com



Horizontal
Pulse Start

MS 350W/H75/T15/S/PS/740

GENERAL Characteristics

Lamp Type	MH Pulse Start Single Ended
ANSI Code	M131/E
Bulb Shape	T15
Base Type	Mogul (E39)
Bulb Finish	Clear
Rated Life	26000 hours
Operating Position	Horizontal $\pm 75^\circ$
Dimming	50% Rated Power

PHOTOMETRIC

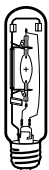
Initial Lumens	33000
Scotopic Lumens (S/P 1.7)	56000
Lumens Per Watt	94
Lamp Lumen Depreciation (LLD)	.80 (80%) @ 8000 hours
Correlated Color Temperature	4000K
Chromaticity Coordinates (CIE-x,y)	.385 .390
Color Rendering Index (CRI)	68

PHYSICAL

Bulb Diameter	2.0" (52mm)
Max. Overall Length (MOL)	8.3" (211mm)
Light Center Length (LCL)	5.0" (127mm)
Effective Arc Length	38.4mm
Max. Base Temperature ($^\circ\text{C}$)	210
Max. Bulb Temperature ($^\circ\text{C}$)	500
Socket Pulse Rating (KV)	4
Luminaire Type	Enclosed Rated



T15



Dia. = 2.0" (52mm)
MOL = 8.3" (211mm)
LCL = 5.0" (127mm)
Base = Mogul (E39)

(800) 451-2606
or (440) 248-3510

Fax: (800) 451-2605
7905 Cochran Road
Glenwillow, Ohio 44139 USA
E-mail: venture@adlt.com
VentureLighting.com

ELECTRICAL

Lamp Watts	350
Lamp Oper. Voltage (Nom.)	135

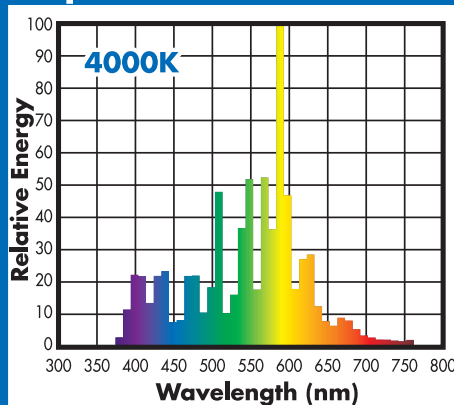
SUSTAINABILITY

Recycling Program	Smartpac® 800-451-2606
Picograms Hg per Mean Lumen Hour	41
MR-Credit 4 Reduced Mercury in Lamps	1 LEED point
EISA 2007 Compliant	Yes

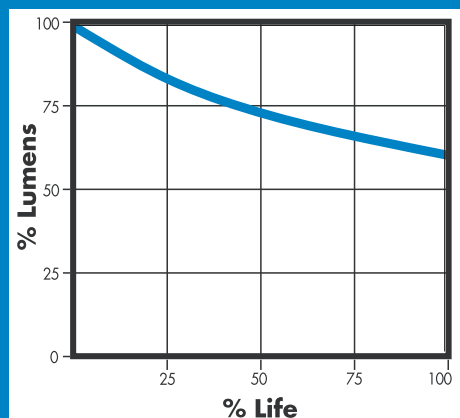
NOTES

Lamp performance ratings published in this data sheet are based on operation with magnetic ballasts. Performance of position-rated lamps outside of their tolerances will result in poor performance. Minimum Starting Temperature: $-40^\circ\text{C}/^\circ\text{F}$. To calculate nighttime Scotopic lumens, multiply the lumen rating by the S/P ratio. **LEED V3, MR CREDIT 4: Sustainable Purchasing - Reduced Mercury in Lamps is awarded 1 point for projects which at least 90% of all mercury-containing lamps purchased during the performance period comply and meet the target for mercury content of 90 picograms per lumen-hour or less.

Spectral Distribution



Lumen Maintenance



THIS LAMP CONFORMS TO FEDERAL STANDARD 21 CFR 1040.30

Warning: This lamp can cause skin burn and eye inflammation from shortwave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Lamps that will automatically extinguish when outer envelope is broken or punctured are commercially available.

This Product is Recyclable Through Smartpac
RECYCLING SERVICE



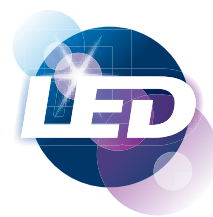
CAPELLA

SERIES

Product Overview and Technical information >>

>>

LUMINAIRE > CPLM-TH3F
POLE > ATR85C2



Some luminaires of this series are IDA (International Dark-Sky Association) approved.



CPLM



CPLS

CAPELLA

SERIES

Inspired by movement / Inspired by the splendor of movement, the Capella is one of the most adaptable luminaires on the market. With its graceful curves and sweeping lines it contributes to the beautification of any environment and enhances the visual impact of any project. >>





ADAPTABILITY

The Capella comes in two sizes to maximize its potential and appeal. The smaller version is perfect for lighting alleyways, pathways, sidewalks and small roadways while the larger version is ideal for city streets and boulevards. The two complement each other and can be used in tandem to add a measure of grace and fluidity to any area, big or small.

PERFORMANCE

Photometric performance at its finest. With the Capella you get exceptional light distribution and spread as well as efficiency and durability. Full cut-off optics protect the night sky, energy efficiency protects the environment, and high-quality aluminum construction protects Capella's beauty for years to come. Durable, reliable, with easy toolfree maintenance, the Capella is as tough and practical as it is beautiful.

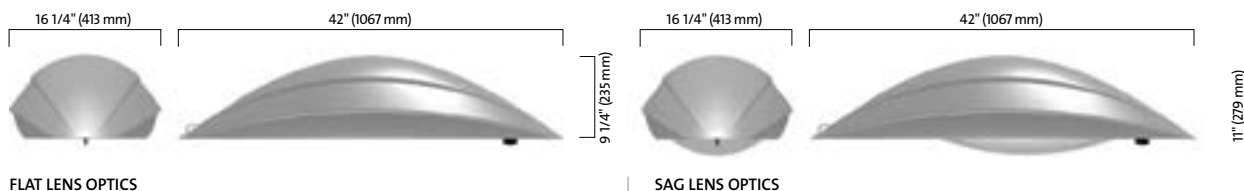


BENEFITS

- Pure lines with high visual appeal.
- Exceptional durability and reliability.
- Simple, toolfree maintenance.
- Superior photometric performance.
- Respectful of the environment and the night sky.

LUMINAIRES

Conform to the **UL 1598** and **CSA C22.2 No. 250.0-08** standards



CPLM

EPA: 0,83 sq. ft.
Weight: 55 lbs (25 kg)



LAMPS / LED

LAMP CODE DEFINITION / 40W 49LED 4K

- Lamp wattage
- Number of diodes (LED)
- Color temperature

LED = Philips Lumileds Rebel ES, CRI = 70, CCT = 4000K (+/- 350K)

LED rated life = 100,000 hrs¹ - Driver rated life = 50,000 hrs

LUMINAIRE	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								FLAT LENS	SAG LENS
CPLM	40W49LED4K-ES	4025	4070	42	47	0.39	0.20	0.17	285	100 W	86	87
	65W49LED4K-ES	5385	5440	65	72	0.60	0.30	0.26	428	100 W	75	76
	90W49LED4K-ES	6450	6515	90	102	0.85	0.43	0.37	571	150 W	63	64

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 Capella (equivalence should always be confirmed by a photometric layout).

WATTAGE	LE2F / LE2S LE3F / LE3S LE4F / LE4S LE5F / LE5S
40W49LED4K-ES	✓
65W49LED4K-ES	✓
90W49LED4K-ES	✓

✓ : Available N/A: Not available

VOLTAGE

120 / 208 / 240 / 277 / 347¹ / 480¹

¹ Comes with a step-down transformer with 40W49LED4K-ES and 65W49LED4K-ES.

OPTICAL SYSTEMS / LED



Flat lens

IP66 rated optical system, composed of individual pre-oriented lens to achieve desired distribution, assembled with a tempered-glass flat lens permanently sealed onto the lower part of the heat sink.

LE2F: Asymmetrical
LE3F: Asymmetrical
LE4F: Asymmetrical
LE5F: Symmetrical (square)
> House shield available in option (HS)



Sag lens

IP66 rated optical system, composed of individual pre-oriented lens to achieve desired distribution, assembled with a tempered-glass sag lens permanently sealed onto the lower part of the heat sink.

LE2S: Asymmetrical
LE3S: Asymmetrical
LE4S: Asymmetrical
LE5S: Symmetrical (square)
> House shield available in option (HS)

* Photometry available on Philips Lumec web site www.philips.com/lumec.

LAMPS / HID

WATTAGE	TH2 / TH3	TH2F / TH3F
50 MH, medium	✓	✓
70 MH, medium	✓	✓
100 MH, medium	✓	✓
150 MH, medium	✓	✓
200 MH, mogul	✓ ³	✓ ³
320 MH, mogul	✓	✓ ²
175 PSMH, mogul	✓	N/A
250 PSMH, mogul	✓	✓ ²
400 PSMH, mogul	✓	N/A
35 HPS, mogul	✓	✓
50 HPS, mogul	✓	✓ ¹
70 HPS, mogul	✓	✓ ¹
100 HPS, mogul	✓	✓ ¹
150 HPS, mogul	✓	✓ ¹
200 HPS, mogul	✓	✓
250 HPS, mogul	✓	✓
400 HPS, mogul	✓	✓

✓ : Available N/A : Not available

¹ Use only with ED17 medium base lamp.

² Use only with short version LCL 5 3/4" of T15 mogul base lamp.

³ Use only with short version LCL 5" of T15 mogul base lamp.

OPTICAL SYSTEMS / HID

(Lamps not included)



FLAT LENS optics

Sealed optical chamber consisting of an hydroformed reflector permanently sealed on a flat tempered-glass lens.

TH2F: Full cut-off (II)
TH3F: Full cut-off (III)



SAG LENS optics

Sealed optical chamber consisting of an hydroformed reflector permanently sealed on a sagged tempered-glass lens.

TH2: Cut-off (II)
TH3: Cut-off (III)

* Photometry available on Philips Lumec web site www.philips.com/lumec.

VOLTAGE

HID¹ & MASTERCOLOR®: 120 / 208 / 240 / 277 / 347 / 480

CosmoPolis™: 120 / 208 / 240 / 277

¹ Multi-top ballast also available.

¹ Only available with 60 CW.

CosmoPolis™ / new generation of ceramic metal halide lamp

WATTAGE	TH2 / TH3	TH2F / TH3F
60 CW	✓	✓
90 CW	✓	✓

✓ : Available

MasterColor® / new generation of ceramic metal halide lamp

WATTAGE	TH2 / TH3	TH2F / TH3F
210 MCE	✓	✓

✓ : Available

LAMPS / QL

WATTAGE	TH	THF
55 QL	✓	✓
85 QL	✓	✓

✓ : Available

High frequency generator for induction lamp (4000K).
Instant start. Operating range 50-60 Hz or DC.
Lamp minimum starting temperature -40F (-40 °C).

OPTICAL SYSTEMS / QL

(Lamps not included)



FLAT LENS optics

Sealed optical chamber consisting of an hydroformed reflector permanently sealed on a flat tempered-glass lens.

THF: Full cut-off (II)



SAG LENS optics

Sealed optical chamber consisting of an hydroformed reflector permanently sealed on a sagged tempered-glass lens.

TH: Cut-off (II)

* Photometry available on Philips Lumec web site www.philips.com/lumec.

VOLTAGE

120 / 208 / 240 / 277

› Multi-top ballast also available.

LUMINAIRE OPTIONS

- HS** House shield
- PH8** Quarter-turn photoelectric cell
- SAR** Short arm for round pole
(E.P.A.: 0.25 sq. ft. / Weight: 2.6 lbs (1.2 kg))

FINISHES

(Consult Philips Lumec's Color Chart for complete specifications)

The specially formulated **Lumital** powder coat finish is available in a range of many standard colors.

ORDERING SAMPLE

PRODUCT	LAMP	OPTICAL SYSTEM	VOLTAGE	OPTIONS	FINISH
CPLM	250 HPS	TH2F	120	HS	NP

MAINTENANCE



ACCESS TO INTERNAL COMPONENT

The luminaire opens by simply turning the compression twist lock located underneath the luminaire at the front end. The hood can then be pivoted along a incorporated hinge found at the back of the luminaire. When opened, a safety cord holds in place the bottom part of the luminaire.



ACCESS TO LAMP

A simple quarter-turn of the sealed shutter provides easy access to the lamp. Quick-disconnect terminals between the lamp and the ballast tray ensure safe and easy lamp replacement.



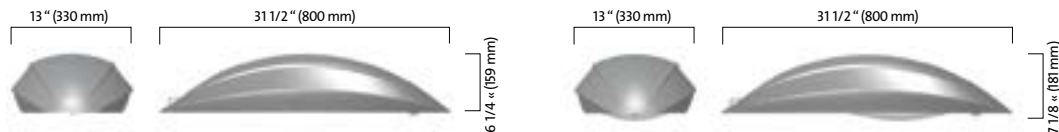
ACCESS TO BALLAST

The toolfree drop-in unitized ballast tray is slipped into the ballast box. Here again, the use of quick-disconnect terminals ensures safe and easy ballast maintenance.



LUMINAIRES

Conform to the **UL 1598** and **CSA C22.2 No. 250.0-08** standards



FLAT LENS OPTICS

SAG LENS OPTICS

CPLS

EPA: 0,47 sq. ft.
Weight: 30 lbs (13.6 kg)

LAMPS / LED

LAMP CODE DEFINITION / **40W 49LED 4K**

Lamp wattage
Number of diodes (LED)
Color temperature

LED = Philips Lumileds Rebel ES, CRI = 70, CCT = 4000K (+/- 350K)

LED rated life = 100,000 hrs¹ - Driver rated life = 50,000 hrs

LUMINAIRE	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								FLAT LENS	SAG LENS
CPLS	40W30LED4K-ES	2965	3000	40	45	0.38	0.19	0.16	400	70 W	66	67
	60W30LED4K-ES	4025	4070	60	68	0.57	0.28	0.25	600	100 W	59	60

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 Capella (equivalence should always be confirmed by a photometric layout).

WATTAGE	LE2F / LE2S LE3F / LE3S LE4F / LE4S LE5F / LE5S
40W30LED4K-ES	✓
60W30LED4K-ES	✓

VOLTAGE

✓ : Available N/A: Not available

120 / 208 / 240 / 277

OPTICAL SYSTEMS / LED



Flat lens

IP66 rated optical system, composed of individual pre-oriented lens to achieve desired distribution, assembled with a tempered-glass flat lens permanently sealed onto the lower part of the heat sink.

LE2F: Asymmetrical
LE3F: Asymmetrical
LE4F: Asymmetrical
LE5F: Symmetrical (square)
> House shield available in option (HS)



Sag lens

IP66 rated optical system, composed of individual pre-oriented lens to achieve desired distribution, assembled with a tempered-glass sag lens permanently sealed onto the lower part of the heat sink.

LE2S: Asymmetrical
LE3S: Asymmetrical
LE4S: Asymmetrical
LE5S: Symmetrical (square)
> House shield available in option (HS)

* Photometry available on Philips Lumec web site www.philips.com/lumec.

LAMPS / HID

WATTAGE	2H / 4H	2HF / 4HF
50 MH, medium	✓	✓
70 MH, medium	✓	✓
100 MH, medium	✓	✓
150 MH, medium	✓	✓
175 MH, medium	✓	✓
35 HPS, medium	✓	✓
50 HPS, medium	✓	✓
70 HPS, medium	✓	✓
100 HPS, medium	✓	✓
150 HPS, medium	✓	✓
18 CF	✓	✓
26 CF	✓	✓
32 CF	✓	✓
42 CF	✓	✓

✓ : Available N/A: Not available

> Socket: GX24Q-2 (18W), GX24Q-3 (26W)(32W), GX24Q-4 (42W), triple tube for compact fluorescent (lamp not included).

OPTICAL SYSTEMS / HID

(Lampes non incluses)



FLAT LENS optics

Sealed optical chamber consisting of an hydroformed reflector permanently sealed on a flat tempered-glass lens.

2HF: Full cut-off (II)
4HF: Full cut-off (IV)



Optique / LENTILLE EN SAILLIE

Bloc optique scellé composé d'un réflecteur hydroformé scellé de façon permanente sur une lentille en saillie en verre trempé.

2H: Défilé (II)
4H: Défilé (IV)

* Photometry available on Philips Lumec web site www.philips.com/lumec.

VOLTAGE

HID¹: 120 / 208 / 240 / 277 / 347 / 480

CosmoPolis™: 120² / 208 / 240 / 277

¹ Multi-top ballast also available.

² Only available with 60 CW.

CosmoPolis™ / new generation of ceramic metal halide lamp

WATTAGE	2H / 4H	2HF / 4HF
60 CW	✓	✓
90 CW	✓	✓

✓ : Available

LUMINAIRE OPTIONS

- HS** House shield
PH Photoelectric cell

FINISHES

(Consult Philips Lumec's Color Chart for complete specifications)

The specially formulated **Lumital** powder coat finish is available in a range of many standard colors.

ORDERING SAMPLE

PRODUCT	LAMP	OPTICAL SYSTEM	VOLTAGE	OPTIONS	FINISH
CPLS	150 HPS	2HF	120	PH7	NP

MAINTENANCE



ACCESS TO INTERNAL COMPONENT

The luminaire opens by simply turning the compression twist lock located underneath the luminaire at the front end. The hood can then be pivoted along a incorporated hinge found at the back of the luminaire. When opened, a safety cord holds in place the bottom part of the luminaire.



ACCESS TO LAMP

A simple quarter-turn of the sealed shutter provides easy access to the lamp. Quick-disconnect terminals between the lamp and the ballast tray ensure safe and easy lamp replacement.

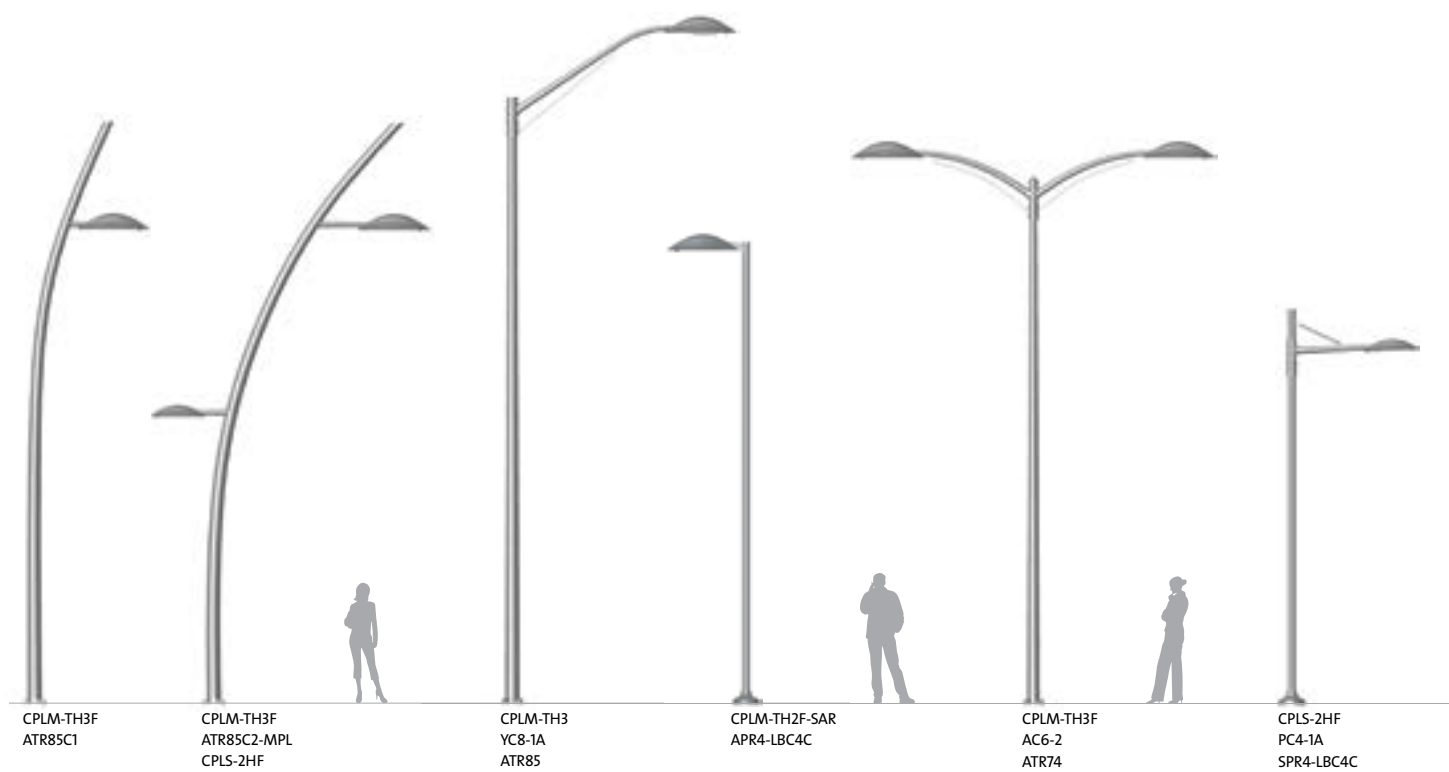


ACCESS TO BALLAST

The toolfree drop-in unitized ballast tray is slipped into the ballast box. Here again, the use of quick-disconnect terminals ensures safe and easy ballast maintenance.



ASSEMBLY EXAMPLES





>>

LUMINAIRE > CPLM-TH3F
POLE > ATR85C2-MF
MID-POLE LUMINAIRE > CPLS-2HF



www.philips.com/lumec

PHILIPS LUMEC HEAD OFFICE

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F : 450.430.1453

ONTARIO OFFICE

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F : 866.971.2825

For the details of our different agents and representatives, please consult the **Contact us** section of our Website.

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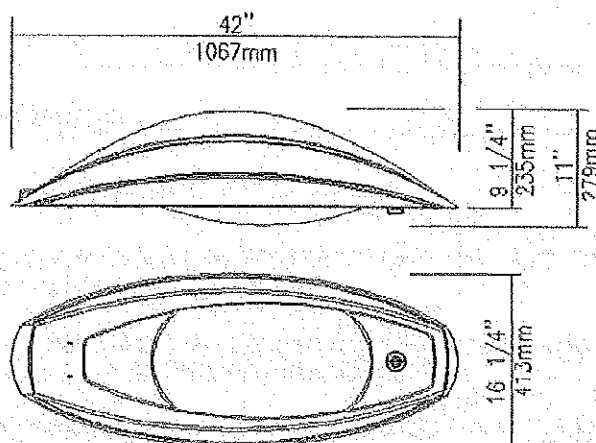
All rights reserved. We reserve the right to change details of design, materials and finishes.



/ Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org



The choice to not print paper brochures anymore but to make them available on-line is an example of the positive environmental actions that Philips Lumec has decided to undertake. This not only considerably reduces our paper consumption but also guarantees the exactitude of the information our clients receive.



Qty 20 Luminaire [CPLM-004]-350PSML-T15-TH3-240-HE-SC

Description of Components:

Housing: the upper and lower part of the housing are made of die cast A360 Aluminum alloy 0.180 (4.6mm) minimum thickness. The mounting means includes two brackets made of stamped galvanized-steel (12ga.). Fits on a 1.9" (49mm) to 2 3/8" (60mm) OD by 10 1/2" (267mm) long tenon, fixed by 3/8-16 UNC steel zinc plated bolts. An integral part of the housing permits an adjustment of +/- 5°. The housing is complete with a ground lug and a terminal block that accepts (#8 max.) wires from the primary circuit.

Access-Mechanism: Quarter-turn pressure locking system made of die cast aluminum. The mechanism shall offer toolfree access to the inside of the luminaire. An embedded memory-retentive gasket shall ensure weatherproofing.

Lamp: (Not included), 350 watt metal halide Pulse Start Type (ANSI Code M131), short version LCL 5 3/4" T15 bulb from Venture reduced outer jacket, mogul base.

Optical System: (TH3), I.E.S. type III cut-off (asymmetrical) complete with a sag lens. Smartseal system. System composed of 3 main components:

- Shutter** made of injection molded A360 aluminum alloy. Removable with a quarter turn, c/w an injection molded silicone gasket (duro 60 shore A). Horizontal lamp position.
- Multi-faceted reflector** made of hydroformed 3002-0 aluminum alloy chemically brightened and anodized (5 micron min) complete with additional reflectors made of aluminum with 95% reflectivity.
- Sag Lens** made of clear tempered glass of 0.20" (5mm) thickness, permanently sealed onto the reflector. The Smartseal optical system is rated IP66.

Bird Guard: Prevents birds from entering the luminaire. Made of high-density polyethylene 0.030" (0.8mm) thick and captive to the housing.

Miscellaneous

Description of Components:

Wiring: The connection of the luminaire is done using a terminal block connector 500V, 57A for use with bare son (#8 max.) wires from the primary circuit, located inside the housing.

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: (SC = Sherwin Williams #B65W00651) and in accordance with the AAMA 2604 standard. Application of a polyester power coat paint (4 mils/100 microns). The chemical composition 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 3000 hours for salt spray resistant finish in accordance with the tests performed and the ASTM-B117 standard.

Surface Finish: *The above mentioned product has been specified in a smooth finish. We wish to inform you that Lumec cannot guarantee a finish without imperfections (e.g. apparent grinding marks and porosity). We strongly recommend the use of a textured finish which provides better uniformity of surface finish. No return of merchandise showing above mentioned imperfection will be granted.*

Vibration Resistance: The CPLM meets the ANSI C136.31-2001 table 2, American National Standard for Roadway Luminaire Vibration specifications for Bridge/overpass applications. (Tested for 3G over 100 000 cycles by an independent lab)

Luminaire: Ballast conforms to the EISA of 2007 Regulations requirements.