

**FINANCE COMMITTEE MEETING
6:00 P.M., THURSDAY, JUNE 8, 2017
COUNCIL CHAMBERS – BUCKSPORT TOWN OFFICE**

AGENDA

- 1. Call meeting to order**
- 2. Roll call**
- 3. LED lighting Town Office, Public Safety Building, Waterfront & recommendation**
- 4. Adjournment**

Finance Committee

Peter Stewart, Chairperson

Paul Gauvin

Robert Carmichael, Jr.

CED

DBA GILMAN ELECTRIC-ELLSWORTH
25 EASTWARD LANE, SUITE 2
ELLSWORTH ME 04605
TEL: 207 667-6166 FAX: 207 667-2201
CONTACT: TBLACK

QUOTE FOR: TOWN OF BUCKSPORT
ACCT #: DM-19546 TOWN OF BUCKSPORT

PO BOX DRAWER X
BUCKSPORT, ME 04416

QUOTATION		PAGE 001 OF 002	
QUOTE #	DATE	REV #	REV DATE
1026534	05/11/17	004	05/17/17
QUOTE EXPIRES		PREPARED BY	
06/10/2017		TIM	
SLS		INSL	
3324		2500	
FOB		FREIGHT	
SHIPPING POINT		PREPAID	

CUS PO #:	TOWN OFFICE BLDG
JOB NAME:	TOWN OFFICE BLDG

LN	QTY	MFR	CATALOG #	DESCRIPTION	PRICE	UOM	EXT AMT
01	35	OPTI	RKT2418M-50	40 WATT 2X42" 5650 LUMEN 5K	67.67	E	2,368.45
02	*	REBATE \$ 50.00 EA TOTAL \$ 1,750.00					
03	*	2X4 AND 1X4 LENSED FIXTURES					
04	11	OPTI	RKT2209M-40	22 WATT 2 X 21" 2600 LUMEN (2X2)	60.16	E	661.76
05	*	REBATE \$ 50.00 EA TOTAL \$ 550.00					
06	*	2X2 AND 1X2 LENSED FIXTURES					
07	11	RAB	SWISH2X439N/D10	LED TROFFER	111.00	E	1,221.00
08	*	REBATE \$75.00 EA TOTAL \$ 825.00					
09	*	2X4 PARABOLIC FIXTURE REPLACEMENTS					
10	31	RAB	SWISH2X229N/D10	LED TROFFER (2X2)	85.00	E	2,635.00
11	*	REBATE \$70.00 EA TOTAL \$ 2,170.00					
12	*	2X2 PARABOLIC REPLACEMENTS					
13	4	SYL	LED17PAR38DIM4083FL0	74070 LED 17W PAR38 EFF	7.00	E	28.00
14	*	ALREADY REBATED FOR OUTSIDE CYLINDER LIGHTS					
15	2	RAB	BULLET12NW	12W LED FLOOD WHT	68.27	E	136.54
16	*	REPLACE HEADS ON 2HEAD FIXTURE OUTSIDE SIDE DOOR					
17	*	NO REBATE					
18	*	TOTAL REBATE AFTER INSTALL \$ 5,295.00					
19	*	OUT OF POCKET MATERIAL COST AFTER REBATE \$ 1,755.75					
20	*	OPTION FOR DIMMING					
21	1	LEV	IP710DLZ	ILLUMATECH MARK 7 DMR	59.61	E	59.61
22	500	CC	TSTAT18/2	18/2 CL2 THERMO-WIRE 47104801	135.95	M	67.98
23	*	WOULD SUGGEST DIMMING IN MAIN OFFICE,					
24	*	AND OTHERS THAT MAY WANT IT AS THSI WILL BE A BRIGHTER					
25	*	TYPE LIGHT ALSO THE COUNCIL CHAMBER DIMMER WOULD BE NEED					
26	*	ED FOR EACH INDIVIDUAL AREA					

PLEASE NOTE: THIS IS NOT AN OFFER TO CONTRACT, BUT MERELY A QUOTATION OF CURRENT PRICES FOR YOUR CONVENIENCE AND INFORMATION. ORDERS BASED ON THIS QUOTATION ARE SUBJECT TO YOUR ACCEPTANCE OF THE TERMS AND CONDITIONS LOCATED AT SALES.OUR-TERMS.COM, WHICH WE MAY CHANGE FROM TIME TO TIME WITHOUT PRIOR NOTICE. WE MAKE NO REPRESENTATION WITH RESPECT TO COMPLIANCE WITH JOB SPECIFICATIONS.

CED

DBA GILMAN ELECTRIC-ELLSWORTH
25 EASTWARD LANE, SUITE 2
ELLSWORTH ME 04605
TEL: 207 667-6166 FAX: 207 667-2201
CONTACT: TBLACK

QUOTE FOR: TOWN OF BUCKSPORT
ACCT #: DM-19546 TOWN OF BUCKSPORT

PO BOX DRAWER X
BUCKSPORT, ME 04416

QUOTATION		PAGE 002 OF 002	
QUOTE #	DATE	REV #	REV DATE
1026534	05/11/17	004	05/17/17
QUOTE EXPIRES	PREPARED BY		
06/10/2017	TIM		
SLS	INSL		
3324	2500		
FOB	FREIGHT		
SHIPPING POINT	PREPAID		

CUS PO #:
TOWN OFFICE BLDG
JOB NAME:
TOWN OFFICE BLDG

MDSE: 7,178.34
TAX: 0.00
TOTAL: 7,178.34

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KELCO QUONSET HUTS

1. Compute the total power (kilowatts, kW) saved by upgrading older lamps to energy saving SYLVANIA replacements

Original System Wattage		Replacement System Wattage		Watts Saved per System
<u>7456 W</u>	-	<u>3040 W</u>	=	4416 W
		Total Watts Saved		Total Kilowatts Saved
		= 4416 W	/1000 =	4.416 kW

2. Compute the total energy (kilowatt hours, kWh) saved annually by performing this upgrade

Total Kilowatts Saved		Hours of Use per Day		
<u>4.416 kW</u>	X	<u>10 hrs/day</u>		
		Days of Use per Week		Weeks of Use per Year
		X <u>5 days/wk</u>	X	<u>52 wks/yr</u>
				Total kWh Saved per Year
				11481.6 kWh/yr

3. Compute the total energy cost savings per year

Total kWh Saved per Year		Your Energy Cost per kWh (typically \$0.10)		Total Energy Cost Savings per Year
<u>11481.6 kWh/yr</u>	X	<u>0.1</u>	=	1148.16

Simple Payback =	$\frac{\text{Initial Cost of Lighting Upgrade}}{\text{Total Energy Cost Savings per Year}} =$	$\frac{\$1,755.75}{\$1,148.16} =$	1.53 years
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Return on Investment (ROI) =	$\frac{100}{\text{Simple Payback}} =$	$\frac{100}{1.529185828} =$	65.4 %
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CED

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ELLSWORTH ME 04605
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ACCT #: DM-19546 TOWN OF BUCKSPORT

PO BOX DRAWER X
BUCKSPORT, ME 04416

QUOTATION		PAGE 001 OF 002	
QUOTE #	DATE	REV #	REV DATE
1026541	05/16/17	007	05/17/17
QUOTE EXPIRES		PREPARED BY	
06/11/2017		TIM	
SLS	INSL		
3324	2500		
FOB		FREIGHT	
SHIPPING POINT		PREPAID	

CUS PO #:
FD LED RETRO
JOB NAME:
FD LED RETRO

LN	QTY	MFR	CATALOG #	DESCRIPTION	PRICE	UOM	EXT AMT
01	125	OPTI	RKT2418M-50	40 WATT 2X42" 5650 LUMEN 5K	67.67	E	8,458.75
02	*	REBATE \$ 50.00 EA TOTAL \$6,250.00					
03	2	OPTI	RKT1418M-50	20WATT 1 X 42" 2825 LUMEN 5000K	60.16	E	120.32
04	*	REBATE \$ 50.00 EA TOTAL \$ 100.00					
05	11	OPTI	RKT2209M-40	22 WATT 2 X 21" 2600 LUMEN (2X2)	60.16	E	661.76
06	*	REBATE \$ 50.00 EA TOTAL \$ 550.00 QUOTING 4000K					
07	*	WILL ORDER 5000K					
08	19	T-1	T1SLED87250	LINEAR LED STRIP 8'	136.83	E	2,599.77
09	*	REBATE \$ 100.00 EA TOTAL \$ 1,900.00					
10	16	T-1	T1SLED43650	LINEAR LED STRIP 4'	91.50	E	1,464.00
11	*	REBATE \$ 60.00 TOTAL \$ 960.00					
12	5	RAB	SLIM26/PC	26W LED WALL PACK	252.29	E	1,261.45
13	*	REBATE \$ 100.00 EA TOTAL \$500.00					
14	1	RAB	PIP30/D10	30 WATT /5000K FLOOD	161.10	E	161.10
15	*	REBATE \$ 125.00 EA TOTAL \$ 125.00					
16	2	ETI	54075142	22W FLUSH MOUNT	50.00	E	100.00
17	6	TOPAZ	L4T8B/840/18/U/F	4' T8 FROSTED BALLAST BYPASS	13.95	E	83.70
18	*	NO REBATE					
19	*	TOTAL REBATE \$ 10,385					
20	*	OPTION					
21	1	LEV	IP710DLZ	ILLUMATECH MARK 7 DMR	59.61	E	59.61
22	500	CC	TSTAT18/2	18/2 CL2 THERMO-WIRE 47104801	135.95	M	67.98
23	*	TO BE USED WERE DIMMING WOULD BE NEEDED I.E. MEETING					
24	*	ROOM					

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GED

DBA GILMAN ELECTRIC-ELLSWORTH
25 EASTWARD LANE, SUITE 2
ELLSWORTH ME 04605
TEL: 207 667-6166 FAX: 207 667-2201
CONTACT: TBLACK

QUOTE FOR: TOWN OF BUCKSPORT
ACCT #: DM-19546 TOWN OF BUCKSPORT

PO BOX DRAWER X
BUCKSPORT, ME 04416

QUOTATION		PAGE 002 OF 002	
QUOTE #	DATE	REV #	REV DATE
1026541	05/16/17	007	05/17/17
QUOTE EXPIRES	PREPARED BY		
06/11/2017	TIM		
SLS	INSL		
3324	2500		
FOB	FREIGHT		
SHIPPING POINT	PREPAID		

CUS PO #:
FD LED RETRO
JOB NAME:
FD LED RETRO

MDSE: 15,038.44
TAX: 0.00
TOTAL: 15,038.44

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KELCO QUONSET HUTS

1. Compute the total power (kilowatts, kW) saved by upgrading older lamps to energy saving SYLVANIA replacements

Original System Wattage		Replacement System Wattage		Watts Saved per System
<u>12850 W</u>	-	<u>7516 W</u>	=	5334 W
		Total Watts Saved		Total Kilowatts Saved
		= 5334 W	/1000 =	5.334 kW

2. Compute the total energy (kilowatt hours, kWh) saved annually by performing this upgrade

Total Kilowatts Saved		Hours of Use per Day		
<u>5.334 kW</u>	X	<u>24</u> hrs/day		
		Days of Use per Week		Weeks of Use per Year
		<u>7</u> days/wk	X	<u>52</u> wks/yr
				Total kWh Saved per Year
				46597.824 kWh/yr

3. Compute the total energy cost savings per year

Total kWh Saved per Year		Your Energy Cost per kWh (typically \$0.10)		Total Energy Cost Savings per Year
<u>46597.824 kWh/yr</u>	X	<u>0.1</u>	=	4659.7824

Simple Payback =	$\frac{\text{Initial Cost of Lighting Upgrade}}{\text{Total Energy Cost Savings per Year}}$	=	$\frac{\$4,525.80}{\$4,659.78}$	=	0.97 years
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Return on Investment (ROI)	=	$\frac{100}{\text{Simple Payback}}$	=	$\frac{100}{0.971247069}$	=	103 %
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KELCO QUONSET HUTS

1. Compute the total power (kilowatts, kW) saved by upgrading older lamps to energy saving SYLVANIA replacements

Original System Wattage	-	Replacement System Wattage	=	Watts Saved per System
<u>12850 W</u>		<u>7516 W</u>		5334 W
		Total Watts Saved		Total Kilowatts Saved
		= 5334 W	/1000 =	5.334 kW

2. Compute the total energy (kilowatt hours, kWh) saved annually by performing this upgrade

Total Kilowatts Saved		Hours of Use per Day			
<u>5.334 kW</u>	X	<u>12 hrs/day</u>			
		Days of Use per Week		Weeks of Use per Year	Total kWh Saved per Year
X		<u>7 days/wk</u>	X	<u>52 wks/yr</u>	= 23298.912 kWh/yr

3. Compute the total energy cost savings per year

Total kWh Saved per Year		Your Energy Cost per kWh (typically \$0.10)	=	Total Energy Cost Savings per Year
<u>23298.912 kWh/yr</u>	X	<u>0.1</u>		2329.8912

Simple Payback =	=	$\frac{\text{Initial Cost of Lighting Upgrade}}{\text{Total Energy Cost Savings per Year}}$	=	$\frac{\$4,525.80}{\$2,329.89}$	1.94 years
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Return on Investment (ROI)	=	$\frac{100}{\text{Simple Payback}}$	=	$\frac{100}{1.942494139}$	51.5 %
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CED

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ACCT #: DM-19546 TOWN OF BUCKSPORT

PO BOX DRAWER X
BUCKSPORT, ME 04416

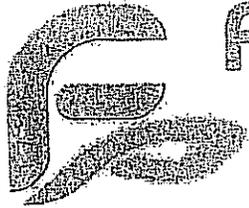
QUOTATION			PAGE 001 OF 001
QUOTE #	DATE	REV #	REV DATE
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QUOTE EXPIRES		PREPARED BY	
06/17/2017		TIM	
SLS	INSL		
3324	2500		
FOB		FREIGHT	
SHIPPING POINT		PREPAID	

CUS PO #:
WALK WALL LIGHT
JOB NAME:
DARK SKY RETRO FIT

LN	QTY	MFR	CATALOG #	DESCRIPTION	PRICE	UOM	EXT AMT
01	60	FPI	F-DSR12BMOG-ASS	W/ 88064-CL-8F	64.50	E	3,870.00
02	*		MOGUL BASE STYLE				
03	*		MEDIUM BASE STYLE				
04	*		LESS THAN 60 PIECE PURCHASE PRICE WILL BE \$ 78.50 EA				
05	*		WE WILL NEED TO JUST CONFIRM IF THEY ARE MOG OR MED BASE				

MDSE: 3,870.00
TAX: 0.00
TOTAL: 3,870.00

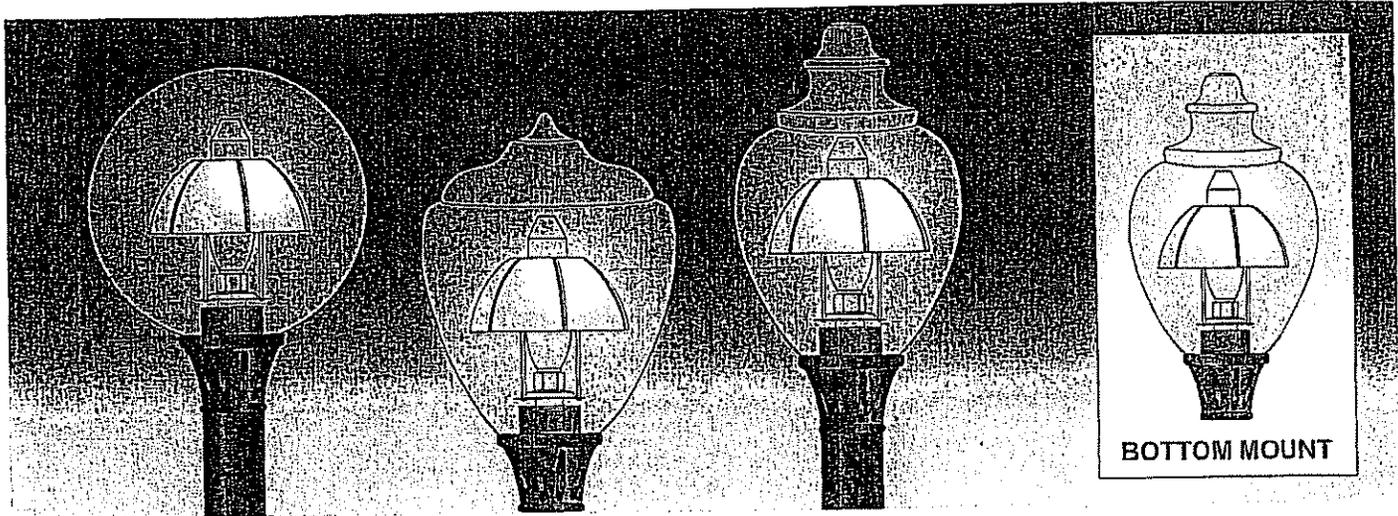
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DARK SKY REFLECTOR



Keep The Traditional Look

F-DSR12-BMOG-ASS - for mogul base sockets

F-DSR12-BMED-ASS - for medium base sockets

Use With Most Traditional Streetlamps, Globes, & Acorns (for neck size 8" or larger, 7" min opening)

- High Downlight Efficiency
- Low Uplight Levels
- Ideal For Retrofits
- Easy To Install, Self Collapsing Design
- Coming Soon:

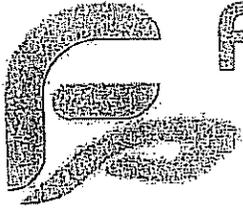
- Easy Access for Lamp Replacement
- Made of High Heat Resin
- Self Positioning & Leveling
- Adjustable Light Output Levels
- Type V data shown below
- Use With 175W MH Max (237°F / 114°C)

- Top Mount Version
- Type III Adaptor for Bottom Mount
- Bottom Mount Bracket for Use With Glass Refractors
- Smaller Unit for Use With Smaller Enclosures (i.e. 5.25" Opening & Larger)

	F-DSR12-BMOG-ASS WITH 20018-CL-8F	F-DSR12-BMOG-ASS WITH 88064-CL-8F	F-DSR12-BMOG-ASS WITH 88066-CL-8F
TOTAL LIGHT EFFICIENCY	69.9%	64.7%	66.3%
DOWNWARD LIGHT EFFICIENCY	68.6%	60.0%	60.0%
UPWARD LIGHT LOW (UL)	0.70%	2.78%	2.28%
UPWARD LIGHT HIGH (UH)	0.64%	1.94%	4.16%
MAX CANDLEPOWER ZONE	65	67.5	62.5

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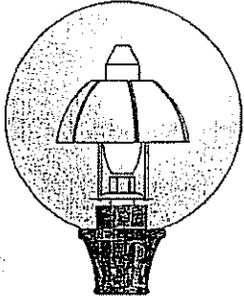
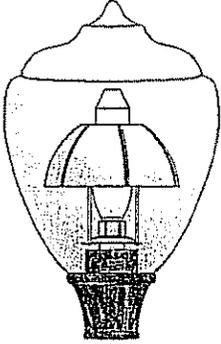
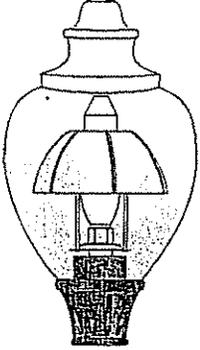
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OPTICAL EVALUATION EXAMPLES

175 W MH RATED 15,000 LUMENS				
	F-DSR12-BMOG-ASS WITH 20018-CL-8F	F-DSR12-BMOG-ASS WITH 88064-CL-8F	F-DSR12-BMOG-ASS WITH 88066-CL-8F	
	Forward Light			
	Luminaire Lumens	5140.8	4492.8	4493.7
% Lamp Lumens	34.27%	29.95%	29.96%	
FL (0°-30°)	1.07%	0.73%	0.95%	
FM (30°-60°)	14.12%	8.30%	9.91%	
FH (60°-80°)	18.13%	15.82%	15.70%	
FVH (80°-90°)	0.96%	5.10%	3.41%	
Back Light				
Luminaire Lumens	5140.8	4492.8	4493.7	
% Lamp Lumens	34.27%	29.95%	29.96%	
BL (0°-30°)	1.07%	0.73%	0.95%	
BM (30°-60°)	14.12%	8.30%	9.91%	
BH (60°-80°)	18.13%	15.82%	15.70%	
BVH (80°-90°)	0.96%	5.10%	3.41%	
Uplight				
Luminaire Lumens	199.8	709.0	966.6	
% Lamp Lumens	1.34%	4.73%	6.44%	
UL (90°-100°)	.70%	2.78%	2.28%	
UH (100°-180°)	.64%	1.94%	4.16%	
Trapped Light				
Luminaire Lumens	4518.6	5305.5	5046.0	
% Lamp Lumens	30.12%	35.37%	33.64%	

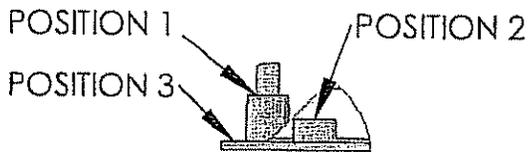
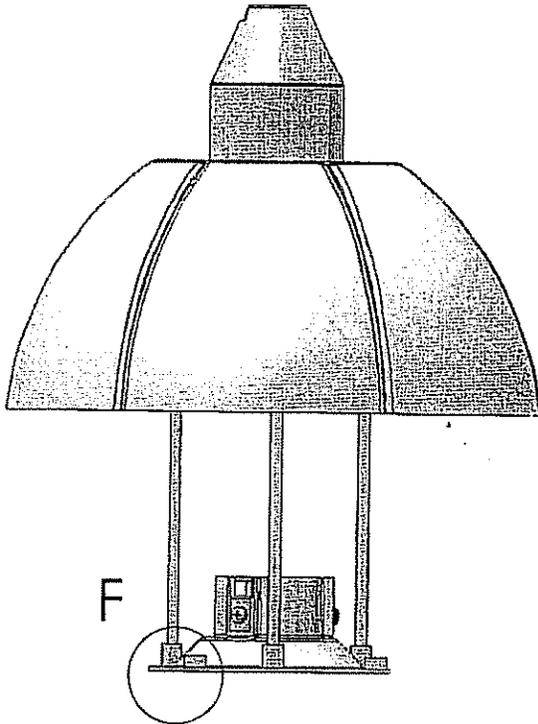
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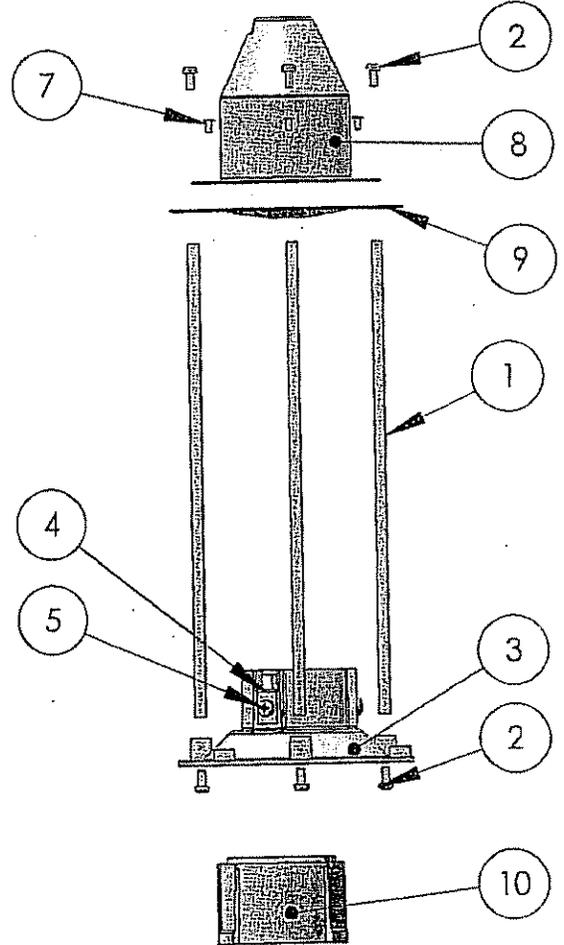
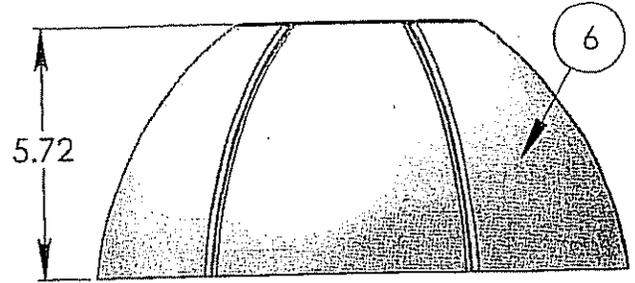
2 Central St., Framingham, MA 01701

F -DSR-12-BMOG-ASS
F -DSR-12-BMED-ASS

SHOWN: REFLECTOR AT
POSITION 1



DETAIL F

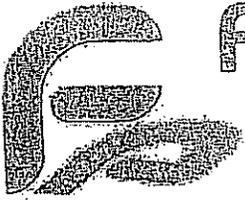


NOTE:

- 1. #10 IS INSERTED INTO MOGUL BASE (#3) FOR MEDIUM SOCKETS ONLY.
- 2. MEDIUM RODS (LEGS) ARE INCLUDED TO REPLACE #1.

POSITION 1: REFLECTOR IS .35 BELOW CENTER OF LAMP - BEST LIGHT OUTPUT
POSITION 2: REFLECTOR IS .55 BELOW CENTER OF LAMP
POSITION 3: REFLECTOR IS .85 BELOW CENTER OF LAMP - BEST DARK SKY

Item #	Description
1	10.685" Mogul Rods
2	8-32 Machine Screw
3	Mogul Base W/ Boss'
4	Stainless Steel U-Nut
5	10-32 U-Nut Screw
6	12" Metalized Reflector
7	Rivet
8	Nosecone
9	BottomPlate
10	Medium Insert

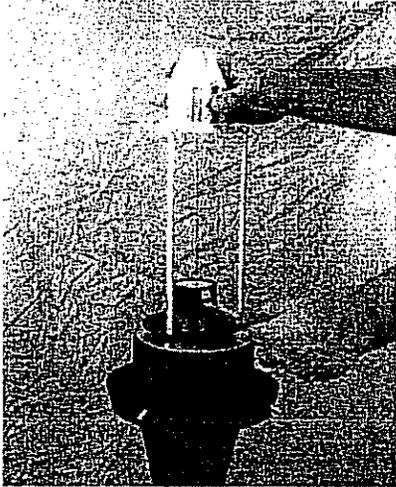


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INSTALLATION INSTRUCTIONS

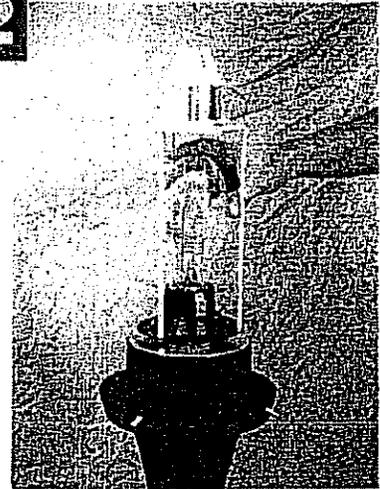
1



With the enclosure removed, place the assembly over the socket on the fitter. The assembly should rest on top of the socket edge.

Tighten the screws onto the socket. Do not over tighten the screws, but make sure they are snug enough to hold the assembly in place.

2



Insert the lamp (maximum 175W Metal Halide) into the socket between the assembly posts.

Make sure the lamp is inserted into the socket properly.

3



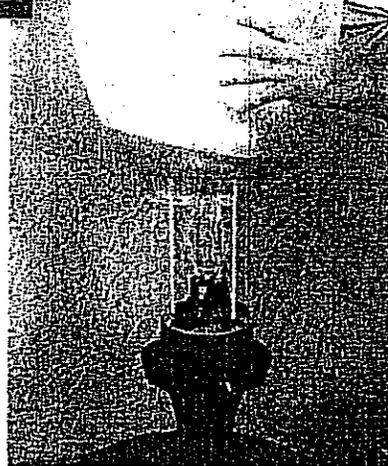
Position the enclosure upside down on a surface that allows you to have open access to the opening of the enclosure.

Pick up the Dark Sky Reflector. While holding like an upside down bowl, squeeze and overlap the front two petals furthest from you together.

Tilt toward you into the opening and feed

the remaining petals into the opening 2 at a time while pivoting into the enclosure. You may either hold the Dark Sky Reflector so it does not fall into the enclosure, or allow it to fall - either way is OK.

4



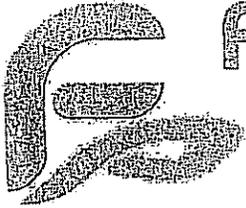
Reach into the enclosure and turn the Dark Sky Reflector so the bottom (widest part) is down toward the opening of the enclosure.

Place the enclosure over the top of the assembly approximately centered to allow the Dark Sky Reflector to fall over the assembly. The Dark Sky Reflector will self-mount.

If the reflector does not level, lift the enclosure again and the reflector should center.

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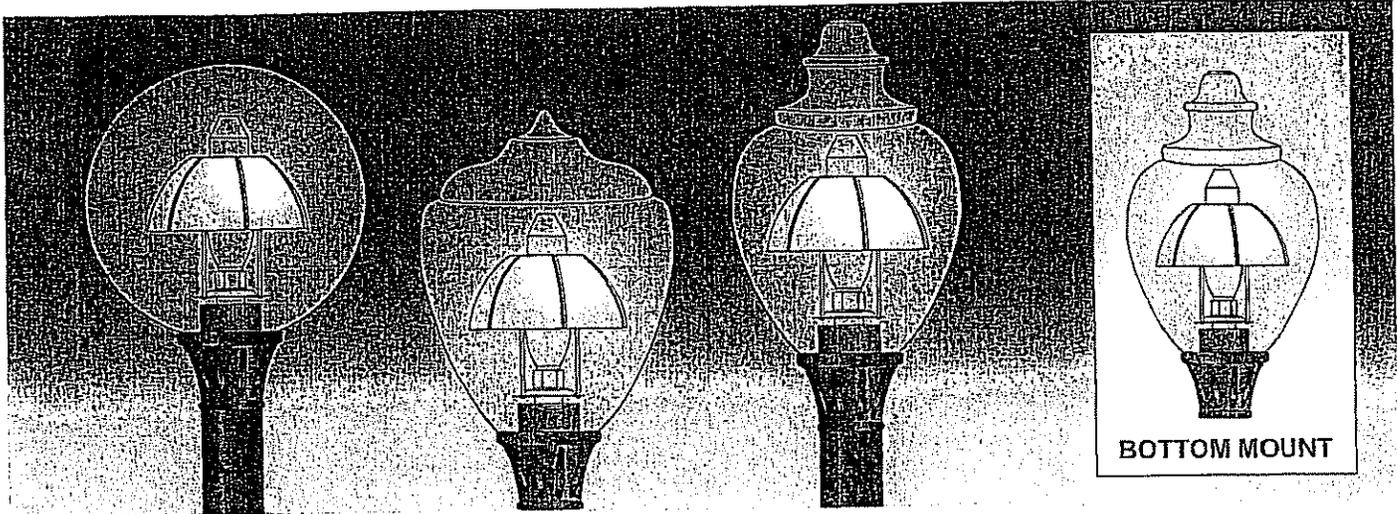
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DARK SKY REFLECTOR



Keep The Traditional Look

F-DSR12-BMOG-ASS - for mogul base sockets

F-DSR12-BMED-ASS - for medium base sockets

Use With Most Traditional Streetlamps, Globes, & Acorns (for neck size 8" or larger, 7" min opening)

- High Downlight Efficiency
- Low Uplight Levels
- Ideal For Retrofits
- Easy To Install, Self Collapsing Design
- Coming Soon:

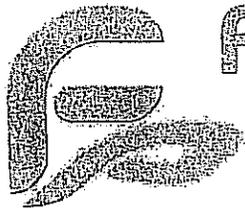
- Easy Access for Lamp Replacement
- Made of High Heat Resin
- Self Positioning & Leveling
- Adjustable Light Output Levels
- Type V data shown below
- Use With 175W MH Max (237°F / 114°C)

- Top Mount Version
- Type III Adaptor for Bottom Mount
- Bottom Mount Bracket for Use With Glass Refractors
- Smaller Unit for Use With Smaller Enclosures (i.e. 5.25" Opening & Larger)

	F-DSR12-BMOG-ASS WITH 20018-CL-8F	F-DSR12-BMOG-ASS WITH 88064-CL-8F	F-DSR12-BMOG-ASS WITH 88066-CL-8F
TOTAL LIGHT EFFICIENCY	69.9%	64.7%	66.3%
DOWNWARD LIGHT EFFICIENCY	68.6%	60.0%	60.0%
UPWARD LIGHT LOW (UL)	0.70%	2.78%	2.28%
UPWARD LIGHT HIGH (UH)	0.64%	1.94%	4.16%
MAX CANDLEPOWER ZONE	65	67.5	62.5

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OPTICAL EVALUATION EXAMPLES

175 W MH RATED 15,000 LUMENS				
	F-DSR12-BMOG-ASS WITH 20018-CL-8F	F-DSR12-BMOG-ASS WITH 88064-CL-8F	F-DSR12-BMOG-ASS WITH 88066-CL-8F	
	Forward Light			
	Luminaire Lumens	5140.8	4492.8	4493.7
% Lamp Lumens	34.27%	29.95%	29.96%	
FL (0°-30°)	1.07%	0.73%	0.95%	
FM (30°-60°)	14.12%	8.30%	9.91%	
FH (60°-80°)	18.13%	15.82%	15.70%	
FVH (80°-90°)	0.96%	5.10%	3.41%	
Back Light				
Luminaire Lumens	5140.8	4492.8	4493.7	
% Lamp Lumens	34.27%	29.95%	29.96%	
BL (0°-30°)	1.07%	0.73%	0.95%	
BM (30°-60°)	14.12%	8.30%	9.91%	
BH (60°-80°)	18.13%	15.82%	15.70%	
BVH (80°-90°)	0.96%	5.10%	3.41%	
Uplight				
Luminaire Lumens	199.8	709.0	966.6	
% Lamp Lumens	1.34%	4.73%	6.44%	
UL (90°-100°)	.70%	2.78%	2.28%	
UH (100°-180°)	.64%	1.94%	4.16%	
Trapped Light				
Luminaire Lumens	4518.6	5305.5	5046.0	
% Lamp Lumens	30.12%	35.37%	33.64%	

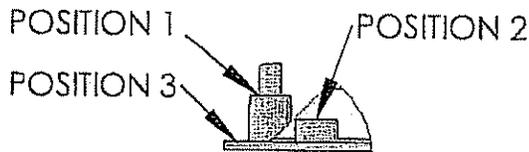
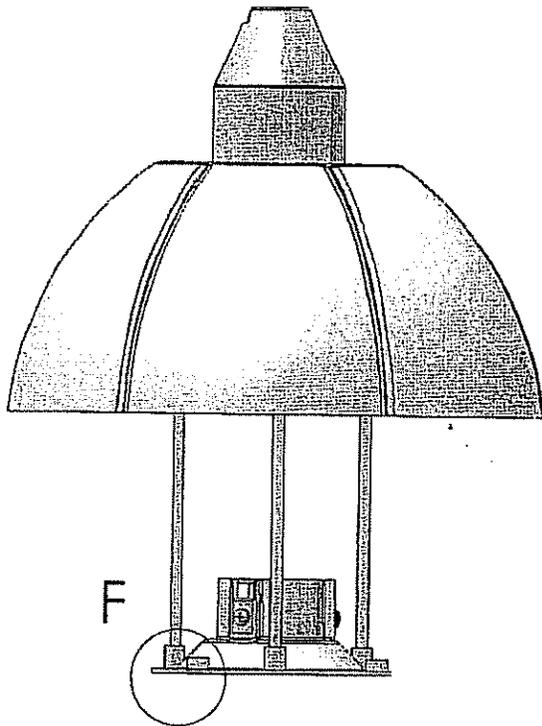
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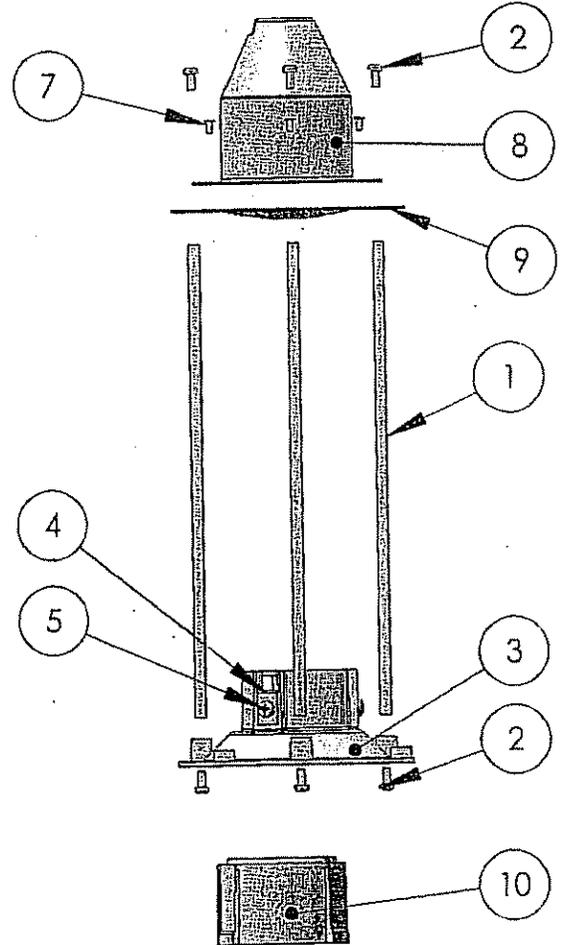
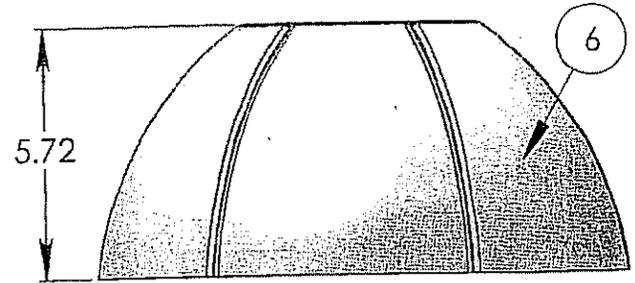
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F -DSR-12-BMOG-ASS
F -DSR-12-BMED-ASS

SHOWN: REFLECTOR AT
POSITION 1



DETAIL F

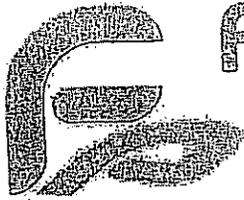


NOTE:

1. #10 IS INSERTED INTO MOGUL BASE (#3) FOR MEDIUM SOCKETS ONLY.
2. MEDIUM RODS (LEGS) ARE INCLUDED TO REPLACE #1.

POSITION 1: REFLECTOR IS .35 BELOW CENTER OF LAMP - BEST LIGHT OUTPUT
POSITION 2: REFLECTOR IS .55 BELOW CENTER OF LAMP
POSITION 3: REFLECTOR IS .85 BELOW CENTER OF LAMP - BEST DARK SKY

Item #	Description
1	10.685" Mogul Rods
2	8-32 Machine Screw
3	Mogul Base W/ Boss'
4	Stainless Steel U-Nut
5	10-32 U-Nut Screw
6	12" Metalized Reflector
7	Rivet
8	Nosecone
9	BottomPlate
10	Medium Insert

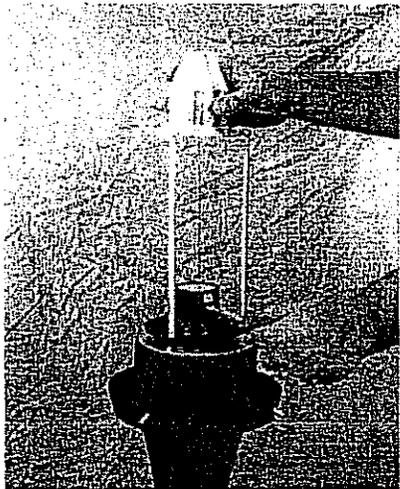


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INSTALLATION INSTRUCTIONS

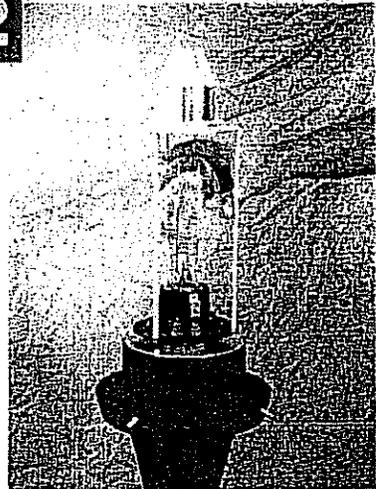
1



With the enclosure removed, place the assembly over the socket on the fitter. The assembly should rest on top of the socket edge.

Tighten the screws onto the socket. Do not over tighten the screws, but make sure they are snug enough to hold the assembly in place.

2



Insert the lamp (maximum 175W Metal Halide) into the socket between the assembly posts.

Make sure the lamp is inserted into the socket properly.

3



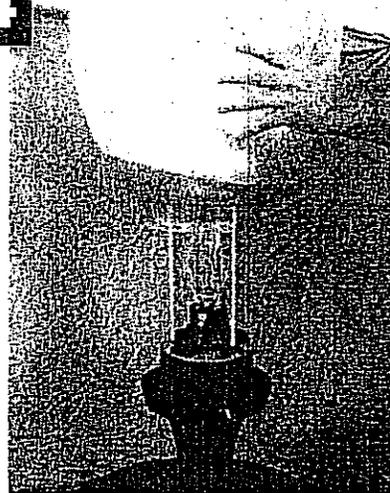
Position the enclosure upside down on a surface that allows you to have open access to the opening of the enclosure.

Pick up the Dark Sky Reflector. While holding like an upside down bowl, squeeze and overlap the front two petals furthest from you together.

Tilt toward you into the opening and feed

the remaining petals into the opening 2 at a time while pivoting into the enclosure. You may either hold the Dark Sky Reflector so it does not fall into the enclosure, or allow it to fall - either way is OK.

4



Reach into the enclosure and turn the Dark Sky Reflector so the bottom (widest part) is down toward the opening of the enclosure.

Place the enclosure over the top of the assembly approximately centered to allow the Dark Sky Reflector to fall over the assembly. The Dark Sky Reflector will self-mount.

If the reflector does not level, lift the enclosure again and the reflector should center.

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