

67L-S-D

NOTE LED SURFACE DIRECT

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

FEATURES

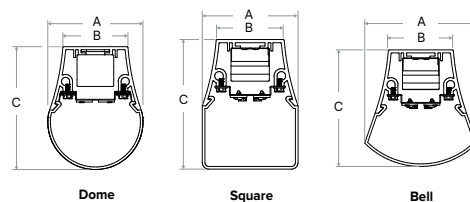
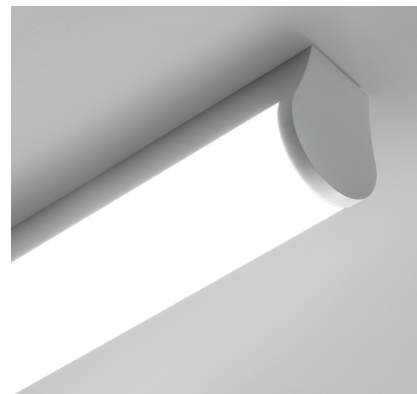
- Variable Intensity technology provides a range of specifiable outputs and resulting fixture wattages
- 2 SDCM color consistency
- Up to 127 LPW efficacy
- Output range from 550 to 2000 lumens/ft
- Removable Lens for ease of accessibility and installation



CONTROLS TECHNOLOGY



SERVICE PROGRAM



	Dome	Square	Bell
A	3" / 76.2 mm	3" / 76.2 mm	3.5" / 88.9 mm
B	2" / 50.8 mm	2" / 50.8 mm	2" / 50.8 mm
C	3.88" / 98.4 mm	3.94" / 100.1 mm	3.69" / 93.7 mm

SPECIFICATIONS

CONSTRUCTION

- Fixture housing: extruded aluminum
- End caps: die cast aluminum
- Lens: acrylic

OPTICAL PERFORMANCE

- 2 SDCM color consistency, 80 or 90 CRI

INSTALLATION

- Installs with anchor screws (by others) for mounting directly to surface with 2x4 junction box
- A 2x4 junction box cover ships separately
- Each row joining uses #8-32 machine screws/nuts for pulling the fixture flush at the end header location
- Lenses ship installed
- End caps must be installed on site

ELECTRICAL

- 1C (1 Circuit) fixture wired for a single circuit
- Lens, LED Boards and drivers can be accessed and removed from installed fixture
- LED Boards can be replaced as part of a module
- Variable Intensity (VI) technology allows precise specification of fixture output/wattage. Fixture will be programmed and labeled to specification.

ELECTRICAL (CONTINUED)

- NX Lighting Controls provides options for standalone and networked integrated sensor with wired or wireless connectivity for NX system deployments

CERTIFICATIONS

- CSA listed for damp location
- DLC V5.1 listed luminaire. Not all product variations listed in this document are DLC qualified. Refer to designlights.org for most up-to-date list.
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See [Buy America\(n\) Solutions](#).
- Emergency Battery Backup options are California Energy Commission (CEC) Title 20 Compliant.

WARRANTY

- LED boards - 5 years
- LED drivers (standard) - 5 years
- LED drivers (Lutron) - 3 years

	Weight
67L-S-D	2 lbs/ft

KEY DATA	
Lumen Range Per Foot	550–2000
Wattage Range Per Foot	4.2–15.7
Efficacy Range (LPW)	118–134
Rated Life (Hours)	L70: >61,000 L90: >61,000

ORDERING GUIDE

Example: 67L-S-D-8-8-DM-C1-35K-D150-D01-1C-UNV-FA1

CATALOG #

67L							
Series		Mounting	Fixture Distribution	Row Length (In Feet) ¹	Max Length In Row	Lens Type	Finish/Color ²
67L	Note	S Surface	D Direct	—' Enter in foot increments ¹	2 2', 610mm 3 3', 914mm 4 4', 1219mm 6 6', 1829mm 8 8', 2438mm	DM Dome BL Bell SQ Square	C1 Matte White (Default) C2 Textured, Matte White C3 Light Silver C4 Machined Aluminum C5 Carbon Black C6 Textured, Camera Black CC Custom Color

Color Temperature		Output/ft ⁴	Driver	Circuiting	Voltage
27K	2700K	D055 550 (min)	D01 1% Dimming, 0–10V	1C 1 Circuit	UNV Universal Voltage (120V–277V)
30K	3000K	to	D00 1% Dim-to-Off, 0–10V		347 347 Volt ⁸
35K	3500K	D200 2000 (max)	D05 SpectraSync 5% Dimming, 0–10V ⁷		
40K	4000K		DS1 1% Dimming w/ Soft Start, 0–10V		
50K	5000K ³		DS0 1% Dim-to-Off w/ Soft Start, 0–10V		
27K9	2700K, 90 CRI		LEC Hi-Lume 1% Ecosystem LED Driver		
30K9	3000K, 90 CRI		DALI DALI ³		
35K9	3500K, 90 CRI		DALIP Powered by DALI (2.0) ³		
40K9	4000K, 90 CRI		NDM Non-Dimming		
50K9	5000K, 90 CRI ³				
2230TD	2200K–3000K SpectraSync™ Dim-to-Warm ⁶				
2750T	2700K–5000K SpectraSync™ Tunable White ⁶				
2765T	2700K–6500K SpectraSync™ Tunable White ⁶				

OPTIONAL

Nightlight	Emergency	Thru-wiring
NL Nightlight Circuit Required. Enter quantity. 2NL = 2 nightlight circuits/row	EF 10W Emergency Battery Pack (CEC Title 20 Compliant) ^{5,9}	W1 No Thru Wire W2 Provide Normal and Emergency/Nightlight Thru Wiring ¹⁰ W3 Provide Normal Thru Wiring Only

Control Options ³	
<u>NX Networked – Wireless</u>	
NXWRM	NX Networked Wireless Enabled Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming ^{11, 12}
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth® Programming, without Sensor ^{11, 12}
<u>NX Networked – Wired</u>	
NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor ^{11, 12}
NXERM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming ^{11, 12}

Sensors

SD1	Daylight Sensor Required
SO4	Occupancy Sensor Required

Notes:

- 1 200' max for 10 Day Quick Ship orders.
- 2 Visit currentlighting.com/litecontrol for details.
- 3 Additional lead time may be applicable. Contact factory.
- 4 Specifiable in 50 lumen increments. Reference the Performance Data Table for full performance offering and exceptions.
- 5 Some configurations may require drawings for approval.
- 6 *Must be ordered with D05 Driver option; excludes 2' and 3' lengths; excludes D160-D200 output options
- 7 Must be ordered with 2230TD, 2750T or 2765T option
- 8 Excludes Emergency Battery Pack Option and D05, DALI, DALIP and Lutron (LEC) Dimming Drivers.
- 9 Excludes 2' and 3' lengths and D160-D200 Driver options. To determine the lumen output in emergency mode, multiply the battery pack wattage by the fixture lumens per watt (LPW).
For example: 10W x XXX LPW = XXX lumens in emergency mode.
- 10 Only applicable when specified with Emergency/Nightlight.

NX In-Fixture Control Options:

- 11 Not available for row mounting. Only available with 0–10V Driver options. Contact factory for Length restrictions.
- 12 Refer to NX Integrated Controls Reference Table for Functionality of Options.

CONTROLS OPTIONS AND FUNCTIONALITY



Control Option Ordering Logic & Description		Control Option Functionality										Control Option Components	
		Sensor	Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0–10V Dimming	On/Off Control	Bluetooth® App Programming	Sensor Height		
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor	N/A	✓	✓	✓	–	–	✓	✓	Requires NXBTC dongle ¹	–	NXDSP
	NXERM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	NXSMP2-LMI	✓	✓	✓	✓	✓	✓	✓	Max: 12'	 	NXSMP2-LMI NXDSP
NX Wireless	NXWRM	NX Networked Wireless Enabled Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	NXSMP2-LMI	✓	✓	✓	✓	✓	✓	✓	Max: 12'		NXSMP2-LMI
	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth® Programming, without Sensor	N/A	✓	✓	✓	–	–	✓	✓	–		NXRM2-H

1 NXBTC needs to be plugged into an available NX SmartPort™ on the fixture network

SpectraSync™ Color Tuning Technology:

Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



SPECTRASYNCTM COLOR TUNING TECHNOLOGY		
Mode	Kelvin Range	Description
Dim to Warm	2200K–3000K	Mimics the familiar warming effect that occurs with traditional incandescent sources as they are dimmed
Tunable White	2700K–5000K 2700K–6500K	Offers users the ability to tailor CCT to their personal preference, enhancing task visibility, material and colors or the aesthetics of the space
Scheduled White	2700K–5000K 2700K–6500K	Mimics the rhythm of natural light or follows an alternative user-defined schedule throughout the day, enhancing an occupant's mood and well-being

CONTROLS TECHNICAL SUPPORT

1-800-888-8006 (7:00 am–7:00 pm est)

APP INFORMATION

NX Lighting Controls App



The NX Lighting Controls App is a free to use mobile application for programming both an NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enabled luminaires and program your NX system settings.



Android



Apple iOS

NX Connect App



The NX Connect mobile App is a free to use mobile application for programming a NX Connect System. The mobile App allows you to discover, configure and share your NX Connect system.

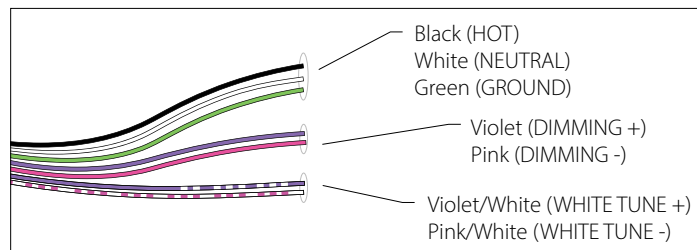


Apple iOS

CONTROLS OPTIONS AND FUNCTIONALITY (CONTINUED)

SpectraSync Tunable White

Available in two options: 2750T (2700K–5000K) or 2765T (2700K–6500K).
Requires two 0–10V controllers, one for intensity and one for CCT.
Minimum 5% dimming.

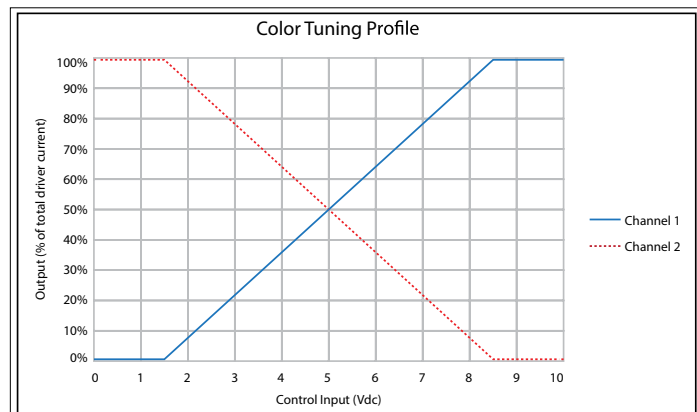


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and pink/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

Controller Manufacturer Data

SpectraSync Tunable White was designed to be used with sinking style dimmers (provided by others) and is compatible with:

- Current: NX Lighting Controls Room Controllers (NXRCFX2) and In-fixture Controllers (NXFM2)
- Lutron: DDTV, DVSTV, and NFTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers



PERFORMANCE DATA TABLE

The table below shows the delivered lumens for the various lumen outputs. Use this chart in connection with the output multiplier capability to deliver any output required.

Nomenclature	Lumens/Ft	W/Ft	Efficacy
D055	550	4.2	130
D060	600	4.7	128
D065	650	4.9	132
D070	700	5.4	131
D075	750	5.8	129
D080	800	6.0	133
D085	850	6.5	131
D090	900	6.7	134
D095	950	8.0	118
D100	1000	8.5	118
D105	1050	8.7	121
D110	1100	8.9	123
D115	1150	9.2	126
D120	1200	9.4	128
D125	1250	9.6	130
D130	1300	9.8	132
D135	1350	10.1	134
D140	1400	10.6	132
D145	1450	11.2	129
D150	1500	11.6	129
D155	1550	11.8	131
D160	1600	12.5	128
D165	1650	12.7	130
D170	1700	13.6	125
D175	1750	14.1	124
D180	1800	14.3	126
D185	1850	14.7	126
D190	1900	15.0	127
D195	1950	15.3	127
D200	2000	15.7	128

(Data shown is for a Dome Lens fixture. Wattage may vary up to 5% from published)

Output Multiplier Table

Photometrics for the 67L are published here at a nominal 3500K temperature. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

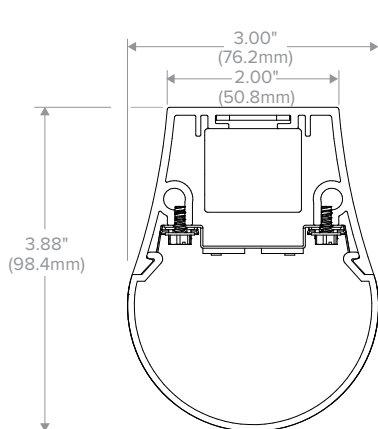
Option	2700K	3000K	3500K	4000K	5000K	2700K 90 CRI	3000K 90 CRI	3500K 90 CRI	4000K 90 CRI	5000K 90 CRI
Multiplier	0.95	0.98	1.00	1.03	1.05	0.83	0.85	0.88	0.90	0.93

67L-S-D

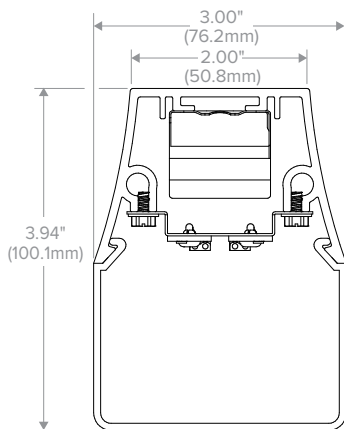
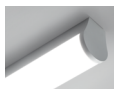
NOTE LED SURFACE DIRECT

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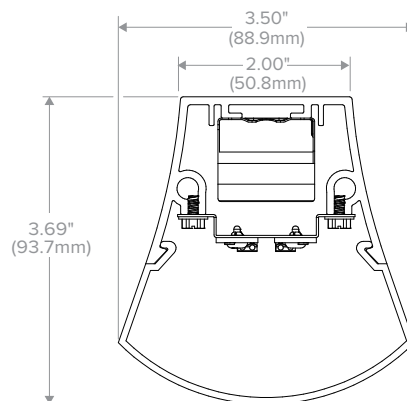
DIMENSIONS



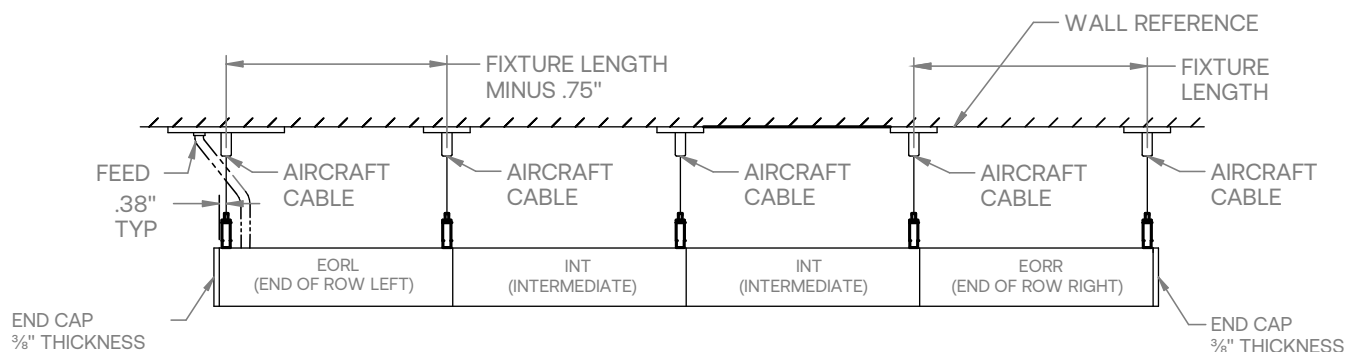
Dome



Square



Bell



Side View - Row Mounted

67L-S-D

NOTE LED SURFACE DIRECT

PHOTOMETRY

67L-S-D-4-DM-X-CX-35K-D145

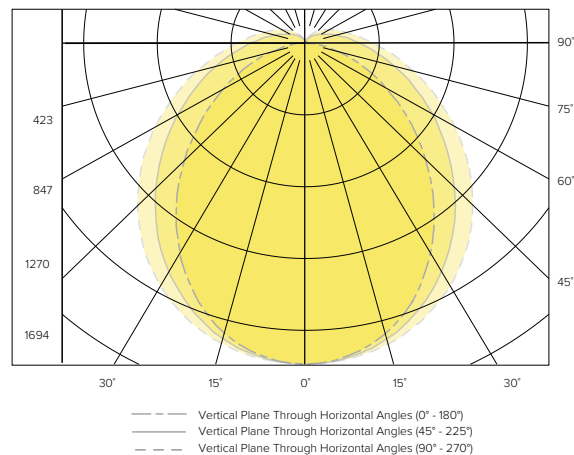
LUMINAIRE DATA

Test No.	RITL90383-01
Description	67L Note Dome Pendant Direct
Delivered Lumens	5800
Watts	41.1W
Efficacy	141
Mounting	Pendant

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2129	36.7
0-60	3754	64.7
0-90	5197	89.6
0-180	5800	100.0

POLAR GRAPH



67L-S-D-4-BL-X-CX-35K-D125

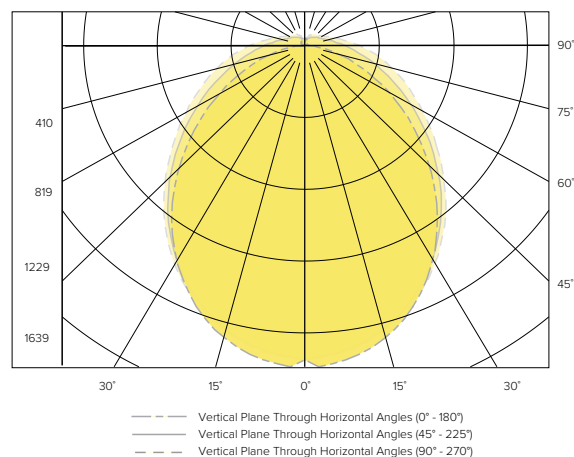
LUMINAIRE DATA

Test No.	R16.01192-01
Description	67L Note Bell Pendant Direct
Delivered Lumens	5000
Watts	38.4W
Efficacy	130
Mounting	Pendant

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1962	39.2
0-60	3364	67.3
0-90	4503	90.1
0-180	5000	100.0

POLAR GRAPH



67L-S-D-4-SQ-X-CX-35K-D055

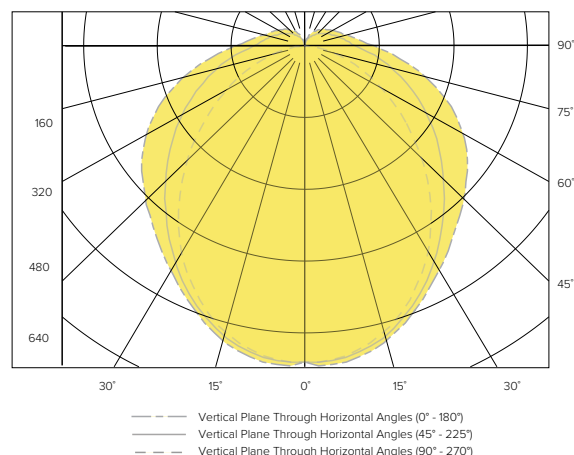
LUMINAIRE DATA

Test No.	R17.02611-01
Description	67L Note Square Pendant Direct
Delivered Lumens	2200
Watts	17.0W
Efficacy	130
Mounting	Pendant

ZONAL LUMEN SUMMARY

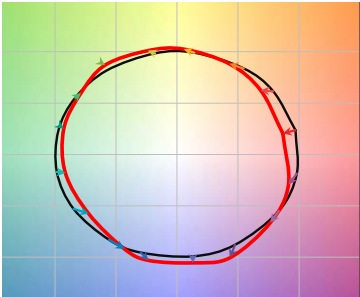
Zone	Lumens	% Luminaire
0-40	776	35.3
0-60	1368	62.2
0-90	1926	87.5
0-180	2200	100.0

POLAR GRAPH



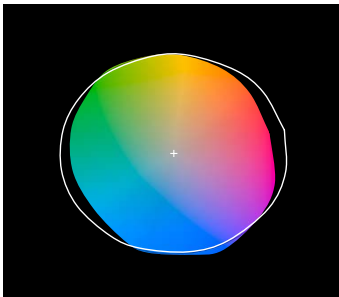
TM-30 DATA

COLOR VECTOR GRAPHIC



*Graphics shown are at 35K
— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC



TEST RESULTS - 3500K	
Value	80+ CRI
CCT (K)	3479
CIE R _a	83
D _{uv}	-0.0009
R _f	82
R _g	98
x	0.4055
y	0.3888

ADDITIONAL INFORMATION

Output (VI Technology)

Variable Intensity (VI) technology allows precise specification of fixture output/wattage. Fixture will be programmed and labeled to specification. See output section for available increments.

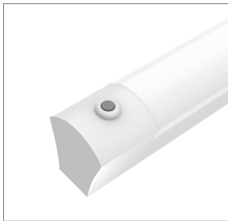
Driver

D01	100%–1% dimming range. Fixture will be wired for low voltage 0–10V dimming control.
D00	Dim-to-Off 100%–1% dimming range. Fixture will be wired for low voltage 0–10V dimming control.
D05	100%–5% dimming range. Fixture will be wired for low voltage 0–10V dimming control. Only applicable if either 2230TD, 2750T or 2765T is selected.
DS1	Soft-Start 100%–1% dimming range. Fixture will be wired for low voltage 0–10V dimming control.
DS0	Soft-Start Dim-to-Off 100%–1% dimming range. Fixture will be wired for low voltage 0–10V dimming control.
LEC	Hi-Lume 1% EcoSystem LED Driver with Soft-On, Fade-to-Black dimming technology.
DALI	DALI compatible.
DALIP	Self-Powered DALI bus (e.g. DEXAL)
NDM	Non-dimming. Fixture will be wired for fixed light output.

Sensor

SD1	Daylight sensor (Wattstopper part #FD301). Installs on integrated sleeve.
SO4	Occupancy sensor (Wattstopper part #FS205). Installs on integrated sleeve.

See separate LC-Controls spec sheet for additional details.



Rated Life

Test in accordance to the LM79-2008 and derived from EPA TM-21 calculator
L70: 257,000 (calculated per TM-21 extrapolated curve)
L70: >61,000 (reported per TM-21/LM80 6x's limitation)
L90: 66,000 (calculated per TM-21 extrapolated curve)
L90: >61,000 (reported per TM-21/LM80 6x's limitation)

Fixture Weight

2 lbs/ft.