

Ford Plants Improve Paint Booths Operational Efficiency Utilizing eLumigen High CRI Class 1, Div 2 LED Industrial Fixture

Ford Motor Company paint booth facilities in multiple locations

- Dearborn Truck
- Michigan Assembly
- Chicago Assembly
- Oakville Assembly
- Louisville Assembly



The eLumigen award-winning High CRI C1D2 LED Fixture

- Reduced Operational Shutdowns
- Improved Employee Safety
- Reduced Energy Consumption
- Maximized Cost Savings
- Improved Defect Detection.



DEARBORN ASSEMBLY PLANT PAINT BOOTH RETROFIT



Before
Old fluorescent lights
388 Lux / 36 Foot-Candles
Low illuminance and 62 CRI
Hazardous glass and mercury FL lamps

After
eLumigen High CRI, C1D2 Fixture
670 Lux / 62 Foot-Candles
High illuminance and 95+ CRI
LED fixtures eliminated glass & mercury

Once installed and measured, the superiority of the High CRI C1D2 LED Fixture was apparent:

- **More light** (lux at the work surface) was achieved with fewer fixtures due to the high color rendering (→95 CRI) achieved by the eLumigen product. The existing fluorescent lamps had a CRI of only 62.
- **Improved energy efficiency** with estimated energy savings for Ford of \$690,000/year across the upgraded plants, a 60% savings.
- **Reduction in down-time** through fewer lamp replacements and maintenance.
- **Improved Worker safety** avoiding broken glass and mercury.
- **Quality improvement** through enhanced defect detection during inspection.
- **Less than a one-year simple payback period** for the project.

eLumigen High CRI C1D2 LED Fixture

The eLumigen High CRI C1D2 LED Fixture is an ideal light source replacement for Paint Booth, Inspection & Stamping Applications. It is designed to replace traditional 4 and 8 foot linear fluorescent light sources, with a 95+ CRI rating for absolute color critical requirements.

The integrated connector cable makes installation simple and quick, reducing manufacturing down time. These versatile and rugged fixtures are certified Class 1, Div 2 making them impervious to gas and liquids in harsh environments, have a long, 50,000 hour life rating and are optimal for multiple applications.



TECHNICAL SPECIFICATION

Wattage	50W
Voltage	110 - 277V, 50/60 Hz
Power Factor	0.90
Light Output	6,200 lumens
Total Harmonic Distortion	<18%.

CCT	5000K (daylight white)
CRI	95
Lifetime	50,000 hours (L70)
Dimensions	1071 mm/42.2 in
Length	42.2" (1071mm) allows for easy install in 48" fixture, if required.

