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142170-001
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 58211 SCHWERTE FED REP GERMANY

PRODUCT: FIXTURES FOR USE IN HAZARDOUS LOCATIONS
 LOCATIONS

The following material resulting from the investigation under the above numbers is enclosed (see below for specifics):

<u>Volume</u>	<u>Section</u>	<u>Revised Date</u>	<u>Report Date</u>	<u>New Date</u>	<u>Material</u>
1	IND	09/09/96			Index PG.1
1	1	09/09/96	04/26/95		PGS.1 THRU 10, ILLS.3,4,6,10
1	1		04/26/95	09/09/96	ILLS.1A,1B,7A
-			04/26/95	09/09/96	T2

Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

Please review this material and report any typing errors or inaccurate mailing instructions to Nancy Blume, extension 43001, referring to the above project number.

UNDERWRITERS LABORATORIES INC.

JOEL SCHLECHT
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 Extension 43992

Enclosure

cc: UL INSPECTION CENTER ARNHEM

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I N D E X

<u>Product Designation</u>	<u>Section</u>
USL, CNL Cat. No. USL08-EX Fixture For Use In Class I, Groups C and D, Divisions 1 and 2 Hazardous Locations	1

D E S C R I P T I O NPRODUCT COVERED:

USL, CNL Fixtures for use in hazardous locations, Class I,
*Groups C and D, Divisions 1 and 2, Series
*USL08-EX. Cat. No. USL08-EX.

Note: USL - United States Standards - Listed.
CNL - Canadian Standards - Listed.

GENERAL:

These devices are incandescent lighting fixtures for permanent installation in the hazardous locations indicated under "Product Covered." The complete fixtures are also suitable for wet locations.

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

CNL investigation to Canadian Standards C22.2 No. 137-M1981.

NOMENCLATURE:

The complete fixture catalog number is as follows:

* Cat. No. USL08-EX.

MARKINGS:

	<u>Nameplate No.</u>
	(1, 2, 3) ILL. 1
<u>Location</u> -	1 - On side of enclosure 2 - On access covers 3 - Inside wiring enclosure
<u>Plate Material</u> -	1, 2 - Steel or aluminum 3 - Paper
<u>Attachment Means</u> -	1, 2 - With pins or screws into bottomed holes 3 - Adhesive
* <u>Lettering Method</u> -	1 - Die stamped or etched 2, 3 - Ink

MARKING CONTENT

Nameplate
No.

- | | |
|---|---|
| 1 | Listee's name. |
| 1 | Catalog number. |
| 1 | Electrical ratings: Voltage, frequency, wattage,
*and lamp type. |
| 1 | "Suitable For Wet Locations." |
| 1 | Designation of hazardous locations given under
*"Product Covered." Div. 2 marking is optional. |
| 1 | "CAUTION: To Reduce The Risk Of Ignition Of
Hazardous Atmospheres, Disconnect The Fixture From
The Supply Circuit Before Opening. Keep Tightly
Closed When In Operation. Do Not Install Where
The Marked Operating Temperature Exceeds Ignition
Temperature Of Hazardous Atmospheres." |
| 1 | Operating temperature or operating temperature
code given in Table I. |
| 1 | Maximum ambient temperature 40°C. |
| 3 | "For Supply Connection, Use Wires Rated For At
*Least <u> </u> + <u> </u> °C." |

* + - Note: See Table I.

Supply wire temperature marking for 90°C is in 1/8 in. high lettering, and the packing carton is also marked with the supply wire temperature marking in 1/4 in. high lettering.

OTHER MARKINGS

Nameplate
No.

- | | |
|---|--|
| 2 | "CAUTION: To Reduce the Risk of Ignition of Hazardous
Atmospheres, Disconnect the Fixture from the Supply
Circuit Before Opening, Keep Tightly Closed When in
Operation." |
|---|--|

*The following instructions are provided for each fixture for proper closing of unused conduit openings: "Conduit plugs suitable for at least Class I, Groups C and D hazardous locations must be installed in any unused opening after installation with a minimum of five full threads engagement."

CNL MARKINGS

- | | |
|---|--|
| 1 | "Ouvrir Le Circuit Avant De Changer Les Lampes." |
| 1 | Date code designating month and year of manufacture. |

ELECTRICAL RATINGS:

The fixtures are rated 120 V maximum, 60 Hz.

JOINTS:

* The Cat. No. USL08-EX is provided with the following joints:

<u>Joints Between</u>	<u>Dimensions and Remarks</u>
Wiring Box Cover and Enclosure	Metal-to-Metal, M72 X 2 Threads With at least five Full Thread Engagement
Access Cover and Enclosure	Metal-to-Metal, M72 X 2 Threads With at least five Full Thread Engagement
Lens Bezel to Enclosure	Metal-to-Metal, M110 X 2 Threads With at least five Full Thread Engagement
Lens Bezel to Glass Lens	Glass-to-Metal Flat Joint (9.5 mm) 3/8 in. wide minimum with a diametrical clearance of not more than 0.03810 mm (0.0015 in.)
Wiring Contact Collar to Enclosure	Metal-to-Metal M14 X 1.5 Threads With at least five Full Thread Engagement
*Wiring Contact Collar to Ceramic Insulator	Continuous Silver or Tin Solder Fused Joint

TABLE I

<u>Cat. No.</u>	<u>Lamp</u>		<u>Rated Ambient °C</u>	<u>Operating Temperature °C</u>		<u>Supply Wire Suitable for °C</u>
	<u>Wattage</u>	<u>Type</u>		<u>(Operating Temperature Code)</u>		
*USL08-EX	35	INC PAR20	40	120	(T4A)	90
	50	INC PAR20	40	165	(T3B)	90
	*100	INC UL 9463	40	165	(T3B)	110

ASSEMBLY AND CONSTRUCTION:

The fixtures are described in connection with the following figures and illustrations.

INDEX OF FIGURES AND ILLUSTRATIONS:

<u>Fig.</u>	<u>ILL.</u>	<u>Drawing No.</u>	<u>Description</u>
1	-	N950290	Cat. No. USL08-EX Fixture
2	-	N950291	Internal Components
-	1	2.6725.287.34 Ma	35 W Nameplate Marking
-	1a	2.6725.288.34 Ma	50 W Nameplate Marking
-	1b	2.6725.297.34 Ma	100 W Nameplate Marking
-	2	2.6713.026.34	Cover Warning Marking
-	3	2.2981.050.31 e	Enclosure
-	4	2.1350.044.33 Md	Lens Bezel
-	5	2.5692.008.34 M	Retaining Ring
-	6	2.0823.092.34 Mb	Access/Wiring Enclosure Cover
-	7	2.0527.005.34	Mounting Bracket
-	7a	2.0527.006.34	Alternate Mounting Bracket
-	8	2.9370.216.34	Lampholder Support Bracket
-	9	2.5699.005.34 a	Mounting Ring
-	10	1.1051.008.33 Ma	Wiring Contact Pin