ICD-0231729 NOTES: (UNLESS OTHERWISE SPECIFIED) REV EC0 DESCRIPTION REL DATE | DWN | CHK | APP 07-24-20 DF JW JB A 6212 INITIAL RELEASE 6355 CHANGED NOTE 3 & 10. FIX VIEWS 09-16-20 DF JW JB 1. THIS ASSEMBLY IS A DUAL MODE (WHITE/VISIBLE AND IR) SEARCHLIGHT. EXCLUDING THE EXTERNAL HARNESS. CHANGED DIMENSION ON SHEET 2. DELETE NOTE 13 DF THE SEARCHLIGHT ENVELOPE MEETS THE REQUIREMENTS OF MIL-L-81174/2B. 2. ILLUMINATION CHARACTERISTICS: 12. SEARCHLIGHT ILLUMINATE MAY BE ENABLED, EITHER VISIBLE/WHITE OR IR, WHEN EXTEND AND ROTATE ANGLES INTERSECT WITHIN "ILLUMINATION ENABLED" AREAS PER THE FIGURE 9° - 10° A. BEAM SPREAD (WHITE): BELOW. THE SEARCHLIGHT WILL NOT ILLUMINATE WHEN THE SEARCHLIGHT'S EXTEND AND B. CANDLEPOWER: 480,000 CD TYP. ROTATE ANGLES INTERSECTION WITHIN EITHER OF THE "ILLUMINATION DISABLED" AREAS. C. BEAM SPREAD (IR): 18° - 19° THE SEARCHLIGHT MAY OR MAY NOT ILLUMINATE WITHIN THE TRANSITION ZONES. D. IR INTENSITY: 21 W/SR MAX. (NVIS-A) 3. ELECTRICAL CHARACTERISTICS: ROTATE ANGLE (DEGREES) 180 170 160 150 140 130 120 110 100 90 80 70 60 **0** 60 70 80 90 100 110 120 130 140 150 160 170 180 A. INPUT VOLTAGE: 28 VDC NOMINAL, 22 VDC MIN, 32 VDC MAX B. MAX. POWER OF VISIBLE/WHITE ILLUMINATION: 170 WATTS 10 C. MAX. POWER OF IR ILLUMINATION: 10 WATTS D. MAX. POWER @ MAX DEPLOYMENT SPEED WHILE 234 WATTS (DEGREES) 20 ILLUMINATION ILLUMINATION EXTENDING & ROTATING & WHITE LIGHT AT 32VDC MAX: DISABLED DISABLED 40 E. MAX. POWER @ MAX DEPLOYMENT SPEED WHILE 64 WATTS (32 WATTS PER MOTOR) EXTENDING & ROTATING AT 32VDC MAX: 60 TRANSITION ZONE TRANSITION ZONE MATING SURFACES CORRESPONDING TO THE INDICATED FAYING SURFACES ON THE SEARCHLIGHT BASE 70 ILLUMINATION SHALL BE ELECTRICALLY CONDUCTIVE TO FACILITATE BONDING/GROUNDING OF THE SEARCHLIGHT CHASSIS. 80 **ENABLED** 5. SEARCHLIGHT CONTROL SWITCHES AND INTERCONNECT WIRING ARE CUSTOMER SUPPLIED AND ARE NOT INCLUDED AS PART OF THE SEARCHLIGHT. 6. MAXIMUM WEIGHT: 7.80 LBS

MARKING:

POSITION UP TO 180 KNOTS.

PART NUMBER: 0231729-101

8. FINISH:

10. IR SAFETY:

ASSEMBLY SHALL BE IDENTIFIED IN ACCORDANCE WITH LPS-258.

AND EXTERNAL SURFACES FURTHER ANODIZED PER MIL-A-8625 (BLACK).

11. REQUIRED MOUNTING HARDWARE: QUANTITY 4 OF #8-32UNC FASTENERS.

THE EXTERNAL COVERS, BASE, AND ROTATION HOUSING ARE CHEMICAL CONVERSION COATED PER MIL-DTL-5541,

WHEN "IR" IS ILLUMINATED, APPROPRIATE IR SAFETY GLASSES ARE REQUIRED BY ANY PERSONNEL UP TO 3 METERS

FOLLOWED BY ONE COAT OF PRIMER HMS 15-1100 TYPE 1, CLASS 2, GRADE N, AND TWO COATS OF

ALL SURFACES OF THE SEARCHLIGHT HEAD ARE CHEMICAL CONVERSION COATED PER MIL-DTL-5541,

9. THE SEARCHLIGHT IS CAPABLE OF EXTENDING AT A MAXIMUM AIRSPEED OF 120 KNOTS AND WILL HOLD ANY

FROM THE SEARCHLIGHT. THE IR CAN BE ILLUMINATED WITH OR WITHOUT THE WHITE LIGHT ENABLED.

CALCULATION OF MAXIMUM FASTENER LENGTH = 0.315" + AIRFRAME / MOUNTING SURFACE THICKNESS.

THE SEARCHLIGHT, AS MEASURED FROM THE OUTER SURFACE OF THE SEARCHLIGHT BASE.

WHITE/VISIBLE OR IR ILLUMINATION CAN BE ENABLED WHENEVER POWER IS SUPPLIED TO THE SEARCHLIGHT.

MOUNTING FASTENER LENGTHS SHALL NOT EXCEED THE MAXIMUM AS SPECIFIED HEREIN. SEARCHLIGHT MOVEMENT WILL BE IMPAIRED. BIND AND MAY BE DAMAGED IF MOUNTING SCREW LENGTH PROTRUDE FURTHER THAN 0.315" INTO

FLAT BLACK POLYURETHANE PAINT PER MIL-C-46168, TYPE IV, COLOR NO. 37038 PER FED-STD-595.

13. DELETED

14. CONNECTOR PART NUMBER: D38999-20FD97PN

CONNECTOR PINS

UNLESS OTHERWISE SPECIFIED DESIGN ENG

DECIMAL

±.010

+.010

-.001

DIMENSIONS ARE IN INCHES

TOLERANCES ON 2 PLACE | 3 PLACE

HOLE DIAMETER TOLERANCES

.000-.500 | .501-UP

ANGLES ±1°

DECIMAL

±.02

+.005

-.001

JDB

DF

MFG ENG

CHECKER

APPROVAL

REFER TO TOP LEVEL ASSEMBLY DRAWING

INTERFACE CONTROL DRAWING

07-24-20 **B** 0VDA9

Luminator

CAGE CODE DWG NO

07-23-20 SCALE: 1/1 WT. SEE NOTE 6 SH NO.

LED, LS400M

ICD, SEARCHLIGHT,

ICD-0231729

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16. LAND COMMAND IS CONTROLLED THROUGH A WIRE THAT EXTENDS OUT OF THE MAIN CONNECTOR.

17. WHEN LAMP COMMAND IS ACTIVATED, BOTH THE WHITE AND IR LIGHTS ARE ILLUMINATED.

NEXT ASSY USED ON

APPLICATION

15. CONNECTOR PIN ASSIGNMENT:

B LAMP CMD

A STOW INDICATOR

C SYSTEM GROUND

D ROTATE RIGHT E ROTATE LEFT

F EXTEND CMD G LAMP GROUND

H RETRACT CMD

J NOT USED

K STOW CMD

L +28 VDC

M NOT USED

THIRD ANGLE

HE INFORMATION CONTAINED

PROPRIETARY TO LUMINATOR

HOLDING, L.P., AND SHALL NOT BE USED OR REPRODUCE

WITHOUT PRIOR WRITTEN





