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DWG NO. ICD-0231754SH 11

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. THIS ASSEMBLY IS A DUAL MODE (WHITE/VISIBLE AND IR) SEARCHLIGHT. THE SEARCHLIGHT ENVELOPE MEETS THE REQUIREMENTS OF MIL-L-81174/2B.

2. ILLUMINATION CHARACTERISTICS:

A. BEAM SPREAD (WHITE):9° - 10°

B. CANDLEPOWER:480,000 CD TYP.

C. BEAM SPREAD (IR):20° X 20° TYP (10% OF PEAK)

D. VISIBLE RADIANT INTENSITY:180 W/SR MIN. (CLASS A)

E. IR RADIANT INTENSITY:80 W/SR MIN. (CLASS A)

3. ELECTRICAL CHARACTERISTICS:

A. INPUT VOLTAGE:28 VDC NOMINAL, 22 VDC MIN, 32 VDC MAX

B. MAX. POWER OF VISIBLE/WHITE ILLUMINATION:170 WATTS

C. MAX. POWER OF IR ILLUMINATION:30 WATTS

D. MAX. POWER @ MAX DEPLOYMENT SPEED WHILE EXTENDING & ROTATING & WHITE LIGHT AT 32VDC MAX:234 WATTS

E. MAX. POWER @ MAX DEPLOYMENT SPEED WHILE EXTENDING & ROTATING AT 32VDC MAX:64 WATTS (32 WATTS PER MOTOR)

4

MATING SURFACES CORRESPONDING TO THE INDICATED FAYING SURFACES ON THE SEARCHLIGHT BASE SHALL BE ELECTRICALLY CONDUCTIVE TO FACILITATE BONDING/GROUNDING OF THE SEARCHLIGHT CHASSIS.

5. SEARCHLIGHT CONTROL SWITCHES AND INTERCONNECT WIRING ARE CUSTOMER SUPPLIED AND ARE NOT INCLUDED AS PART OF THE SEARCHLIGHT.

6. MAXIMUM WEIGHT: 7.70 LBS

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MARKING: ASSEMBLY SHALL BE IDENTIFIED IN ACCORDANCE WITH LPS-258.

8. FINISH:

THE EXTERNAL COVERS, BASE, AND ROTATION HOUSING ARE CHEMICAL CONVERSION COATED PER MIL-DTL-5541, FOLLOWED BY ONE COAT OF PRIMER HMS 15-1100, TYPE 1, CLASS 2, GRADE N, AND TWO COATS OF FLAT BLACK POLYURETHANE PAINT PER MIL-C-46168, TYPE IV, COLOR NO. 37038 PER FED-STD-595.

ALL SURFACES OF THE SEARCHLIGHT HEAD ARE CHEMICAL CONVERSION COATED PER MIL-DTL-5541 AND EXTERNAL SURFACES FURTHER ANODIZED PER MIL-A-8625 (BLACK).

9. THE SEARCHLIGHT IS CAPABLE OF EXTENDING AT A MAXIMUM AIRSPEED OR 120 KNOTS AND WILL HOLD ANY POSITION UP TO 180 KNOTS.

10. IR SAFETY:

WHEN "IR" IS ILLUMINATED, APPROPRIATE IR SAFETY GLASSES ARE REQUIRED BY ANY PERSONNEL UP TO 3 METERS FROM THE SEARCHLIGHT. THE IR CAN BE ILLUMINATED WITH OR WITHOUT THE WHITE LIGHT ENABLED.

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

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

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

MOUNTING FASTENER LENGTHS SHALL NOT EXCEED THE MAXIMUM AS SPECIFIED HEREIN. SEARCHLIGHT MOVEMENT WILL BE IMPAIRED, BIND, AND MAY BE DAMAGED IF MOUNTING SCREW LENGTHS PROTRUDE FURTHER THAN 0.315" INTO THE SEARCHLIGHT, AS MEASURED FROM THE OUTER SURFACE OF THE SEARCHLIGHT BASE.

12. SEARCHLIGHT ILLUMINATE MAY BE ENABLED, EITHER VISIBLE/WHITE OR IR, WHEN EXTEND AND ROTATE ANGLES INTERSECT WITHIN "ILLUMINATION ENABLED" AREAS PER THE FIGURE BELOW. THE SEARCHLIGHT WILL NOT ILLUMINATE WHEN THE SEARCHLIGHT'S EXTEND AND ROTATE ANGLES INTERSECTION WITHIN EITHER OF THE "ILLUMINATION DISABLED" AREAS. THE SEARCHLIGHT MAY OR MAY NOT ILLUMINATE WITHIN THE TRANSITION ZONES.

13. QTP NUMBER: 909775  
QTR NUMBER: 909775

14. CONNECTOR: TERMINAL BLOCK WITH #6-32UNC-2A BINDING HEAD SCREWS

18017016015014013012011010090807060060708090100110120130140150160170180

STOW

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20

30

40

50

60

70

80

90

100

110

120

130

140

150

160

170

180

ILLUMINATION DISABLED

ILLUMINATION DISABLED

TRANSITION ZONE

TRANSITION ZONE

ILLUMINATION ENABLED

EXTEND ANGLE (DEGREES)

REFER TO TOP LEVEL ASSEMBLY DRAWING

INTERFACE CONTROL DRAWING

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES

TOLERANCES ON  
2 PLACE DECIMAL  
±.02

3 PLACE DECIMAL  
±.010

HOLE DIAMETER TOLERANCES  
.000-.500  
+.005  
-.001

.501-UP  
+.010  
-.001

FINAL  
NEXT ASSY

FINAL  
USED ON

APPLICATION

ANGLES ±1°

DESIGN ENG  
J.BELL

DATE  
06-02-21

DRAWN  
J.BELL

DATE  
06-02-21

MFG ENG  
NA

DATE  
NA

CHECKER  
W.BILYEU

DATE  
06-03-21

APPROVAL  
L.GREGORY

DATE  
06-04-21

Plano, Texas

Luminator

SEARCHLIGHT,  
LED, LS400NR-T

CAGE CODE  
B OVDA9

DWG NO.  
ICD-0231754

REV  
A

SCALE: N/A WT. SEE NOTE 6 SH NO. 1 OF 3

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THIRD ANGLE  
PROJECTION

PART NUMBER: 0231754-101

TMP015 REV B

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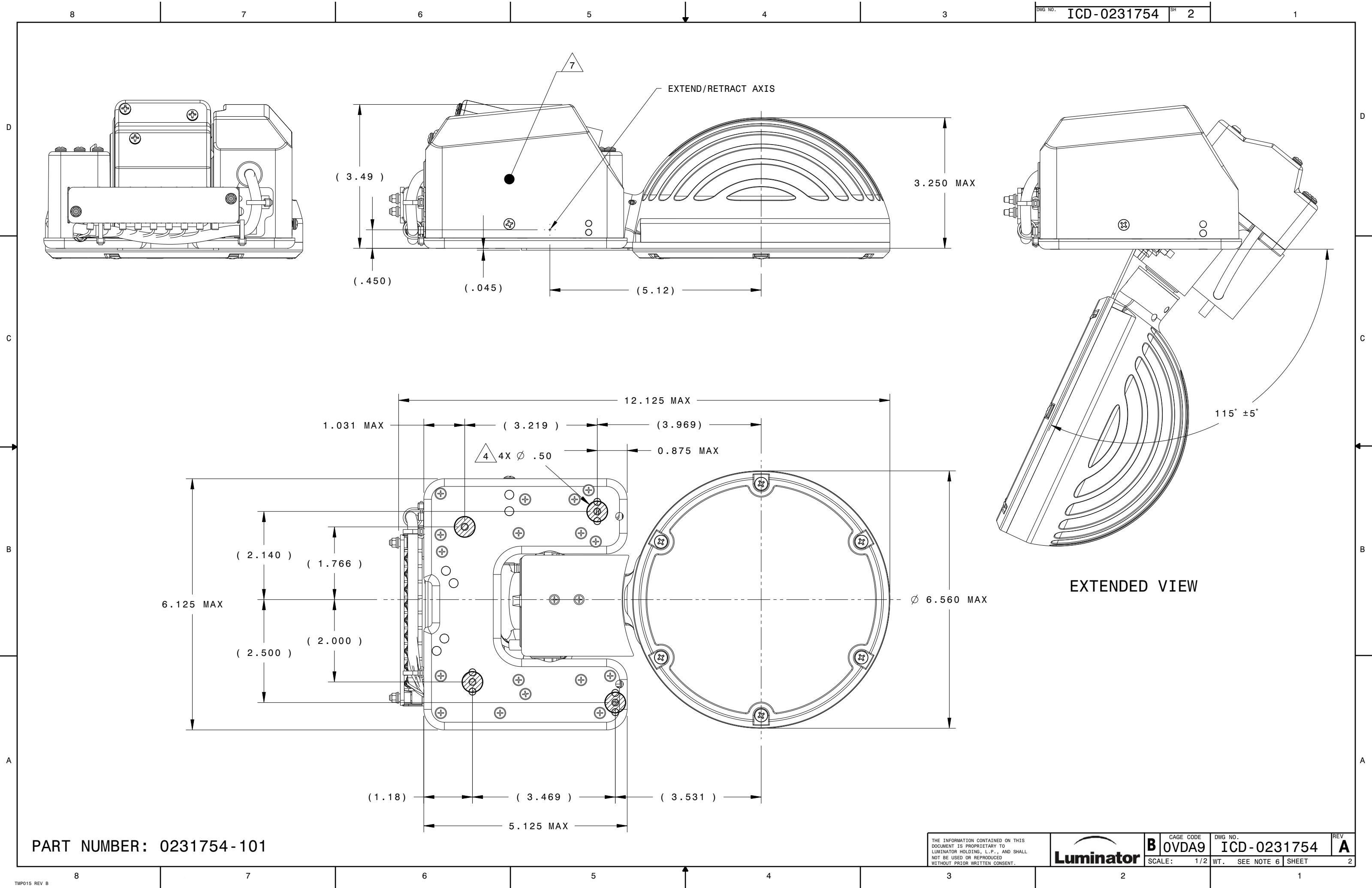
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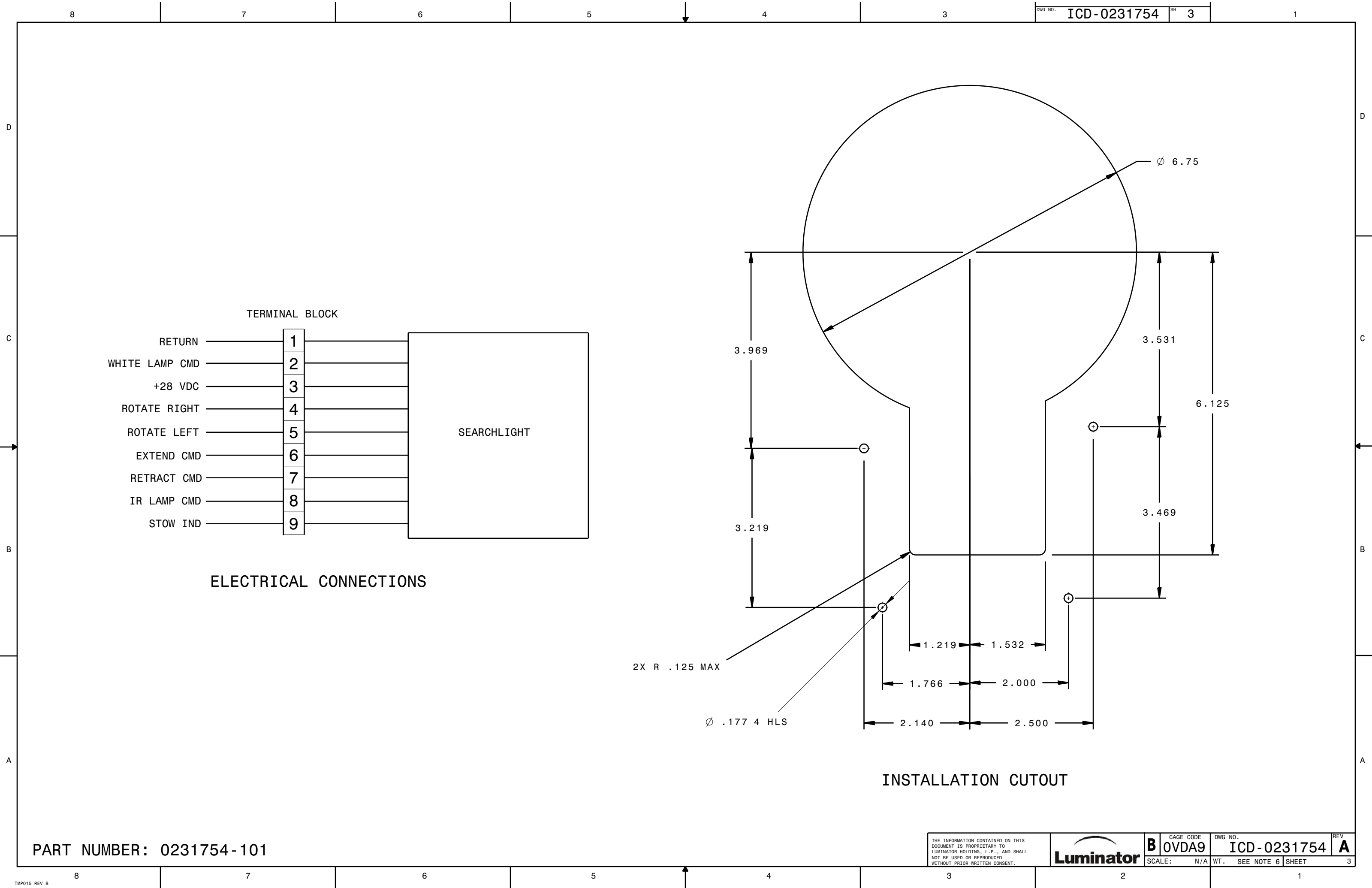
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PART NUMBER: 0231754-101

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SCALE: 1/2		WT. SEE NOTE 6		SHEET 2	



PART NUMBER: 0231754-101

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**Luminator**

CAGE CODE  
**B** 0VDA9

DWG NO.  
**ICD-0231754**

REV  
**A**

SCALE: N/A WT. SEE NOTE 6 SHEET 3