

NOTE:

1. THE C OPTION SPECIFIES A PIN LENGTH = .20" FOR PANEL LIGHTS MOUNTED IN THE PS40 OR PS44 SOCKET. MOUNTING HARDWARE IS INCLUDED WITH THE SOCKET. DO NOT SELECT THE W OPTION.
2. MODEL 405 HAS NO LENS. OMIT THE LENS DIFFUSION AND COLOR (e.g 405-BG5H-O).
3. I<sub>v</sub> = TYPICAL LUMINOUS INTENSITY @ I<sub>f</sub> = 20mA (T<sub>a</sub> = 25 °C). I<sub>v</sub> IS MEASURED WITHOUT LENS LOW POWER LEDs @ I<sub>f</sub> = 2mA.
4. USE WITH MODEL 405 ONLY.
5. SEE VOLTAGE / CURRENT TABLE FOR DESIGN SPECIFICATIONS. DESIGN CURRENT FOR LOW POWER LEDs = 2mA.
6. T<sub>a</sub> = 25°C. VOLTAGE "2" INDICATES EXTERNAL RESISTOR REQUIRED. VOLTAGES 5H THROUGH 60H ARE VDC. FOR AC OPERATION, INSERT D AFTER VOLTAGE (e.g. 24HD). D INDICATES BUILT-IN RECTIFIER, NOT REQUIRED FOR 5H OR 120VAC. DC OPERATION NOT AVAILABLE FOR 120V. BI-COLOR AND TRI-COLOR NOT AVAILABLE IN AC VOLTAGES.
7. OMIT H WHEN SELECTING A VOLTAGE (e.g 461-RLP-CWO).
8. SELECT -CW OR -NW LENS ONLY. -RAG WIRE LEADS: GREEN ANODE/BLACK CATHODE/RED ANODE. -GAR WIRE LEADS: GREEN CATHODE/BLACK ANODE/RED CATHODE. COMMON LEAD IS THE FIRST LEAD CLOCKWISE FROM REFERENCE MARK ON HEADER. TRI-COLOR 5 OR 12 VOLT, OMIT H IN PART NUMBER.
9. SELECT HIGH INTENSITY LEDS ONLY.
10. OMIT LENS DIFFUSION WHEN SELECTING SMOKED LENS (e.g. 461-NWR-SO).
11. USE APPROPRIATE ESD PRECAUTIONS DURING HANDLING AND OPERATION.
12. MOUNTING HARDWARE PROVIDED
13. THIS DEVICES ARE RoHS COMPLIANT.

REVISIONS					
ECN	REV.	DESCRIPTION	DATE	BY	APPROVED
1122	A	INITIAL RELEASE	1/5/18	AS	OL

VOLTAGE/CURRENT	
DESIGN Vf/If	MAX Vf/If
<b>V/C Table I</b>	
5V/22mA	5.5v/28mA
12V/20mA	14V/25mA
15V/24mA	16.5V/28mA
24V/17mA	26V/20mA
28V/16.5mA	30V/18mA
48V/15mA	50V/16mA
60V/9mA	65V/10mA
120VAC/3.5mA	130VAC/4mA

VOLTAGE / CURRENT	
DESIGN Vf/If	MAX Vf/If
<b>V/C Table II</b>	
5V/15mA	5.5v/23mA
12V/15mA	14V/20mA
15V/15mA	16.5V/18mA
24V/15mA	26V/18mA
28V/15mA	30V/17mA
48V/9.5mA	50V/10mA
60V/7mA	65V/8mA
120VAC/3.5mA	130VAC/4mA

**CONFIGURATION FOR MODELS**

MODEL	WIRES
△ C (OPTIONAL)	△ W (OPTIONAL)

**461 W**

STANDARD INTENSITY - DIFFUSED ENCAPSULATION		
LED	COLOR	V/C (TABLE)
-BR	RED	I
-BA	AMB	I
-BG	GRN	I
MEDIUM INTENSITY - TINTED ENCAPSULATION		
LED	COLOR	V/C (TABLE)
-BCR	RED	I
-BCA	AMB	I
-BCG	GRN	I
HIGH INTENSITY - WATERCLEAR ENCAPSULATION		
LED	COLOR	V/C (TABLE)
-NWR	RED	I
-NWO	ORG	I
-NWA	AMB	I
-NWG	GRN	II
-NWB	BLU	II
-NWW	CWHT	II
-NWL	WWHT	II
-NKR	RED	I
-NKO	ORG	I
-NKA	AMB	I
-NKG	GRN	II
-NKB	BLU	II
-NKW	CWHT	II
-NKL	WWHT	II

WIRE LENGTH (OPTIONAL)*	
NUMBER	LENGTH (in)
8	8"
12	12"
16	16"
18	18"
24	24"
36	36"
40	40"
60	60"

VOLTAGE
2
5H
12H
15H
24H
28H
48H
60H
120

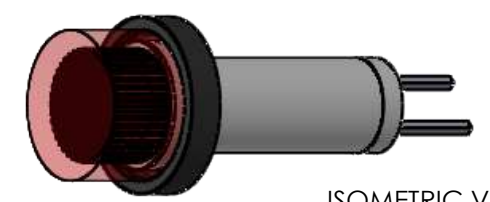
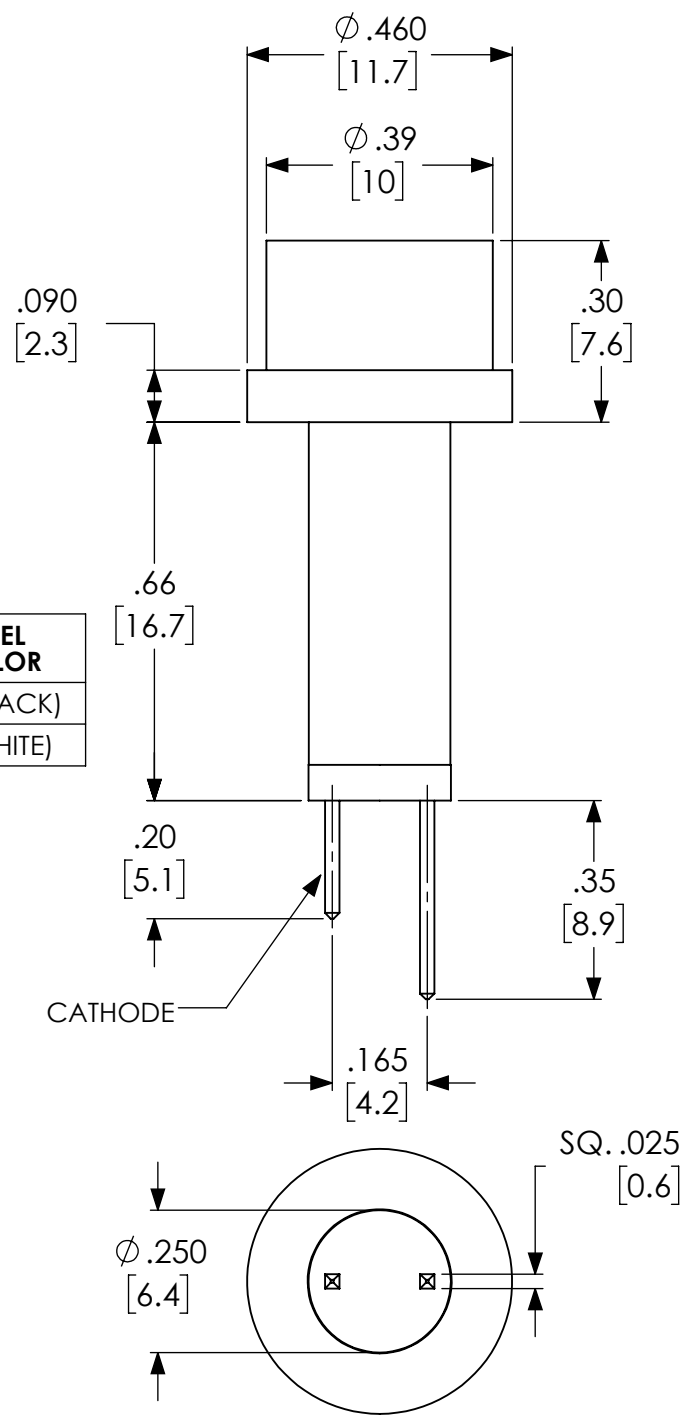
LENS DIFFUSION
-C (CLEAR)
-N (DIFFUSED)

LENS COLOR
R (RED)
A (AMBER)
Y (YELLOW)
G (GREEN)
B (BLUE)
W (WATER CLEAR)
-S (SMOKE)

BEZEL COLOR
O (BLACK)
9 (WHITE)

**\*STANDARD WIRE LENGTH:**  
 IF THE CONFIGURATION DOES NOT INCLUDE A NUMBER AFTER THE "W" USE THIS STANDARD:  
 6.0" +1.0" -0" TOTAL LENGTH (NOMINAL)/.50" STRIPPED +1/8" -0", RED ANODE/ BLACK CATHODE, 24 AWG TPB UL1061 INSULATION.

SPECIALITY LEDs - DIFFUSED ENCAPSULATION			
LED	COLOR	DESCRIPTION	V/C (TABLE)
△ -RLP	RED	LOW POWER	NOTE 5
△ -ALP	AMB	LOW POWER	NOTE 5
△ -GLP	GRN	LOW POWER	NOTE 5
△ -LRG	RED/GRN	BI-COLOR, RED CATHODE	I
△ -RAG	RED/AMB/GRN	TRI-COLOR, COMMON CATHODE	I
△ -GAR	GRN/AMB/RED	TRI-COLOR, COMMON ANODE	I



ISOMETRIC VIEW ONLY FOR REF.

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UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE INCHES (MM) SHOWN FOR REFERENCE ALL ANGLES ARE IN DEGREES		MATERIAL N/A	
GENERAL TOLERANCES		FINISH N/A	
INCH .XX ± 0.025 .XXX ± 0.010	MM .X ± 0.63 .XX ± 0.25	DRW A.SANCHEZ	12/19/17
BREAK ALL CORNERS AND SHARP EDGES .030 MAX		D-ENG A.SANCHEZ	12/19/17
DIMENSIONS INSPECTION CRITICAL ANGLE ± 1°		P-ENG O.LARA / G.RUIZ	12/20/17
THIRD ANGLE PROJECTION		QC E.LARA	12/21/17
DO NOT SCALE DRAWING PRINTED COPIES ARE UNCONTROLLED			

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DESC  
**.250" PANEL MOUNT REFLECTOR**

PART NO  
**SEE TABLES**

SIZE  
**B**

DRW NO  
**461 SERIES**

REV  
**A**

SCALE: 1:1 SHEET: 1 OF 1

FILE NAME: 461-BCR24H-CRO