

#### HB-2X2-WW

 $\sim\!65^\circ$  wide beam optimized for CREE XP-L and XM-L

#### **TECHNICAL SPECIFICATIONS:**

Dimensions 50.0 mm

Height 8.5 mm

Fastening pin, screw

Colour clear

Box size 480 x 280 x 300 mm

Box weight 9.2 kg

Quantity in Box 800 pcs

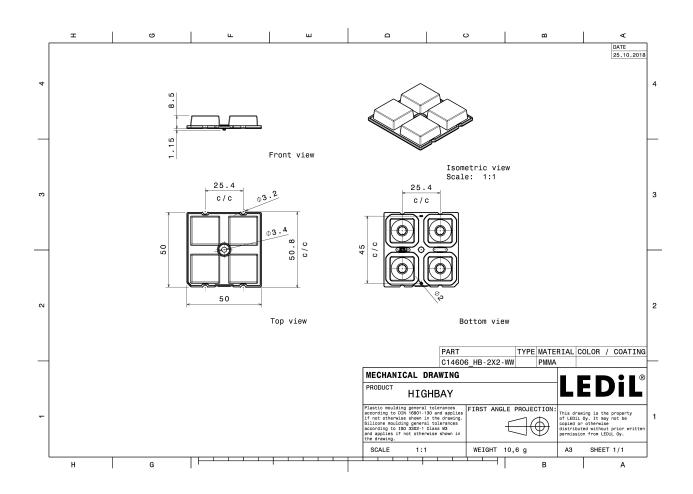
ROHS compliant yes 1

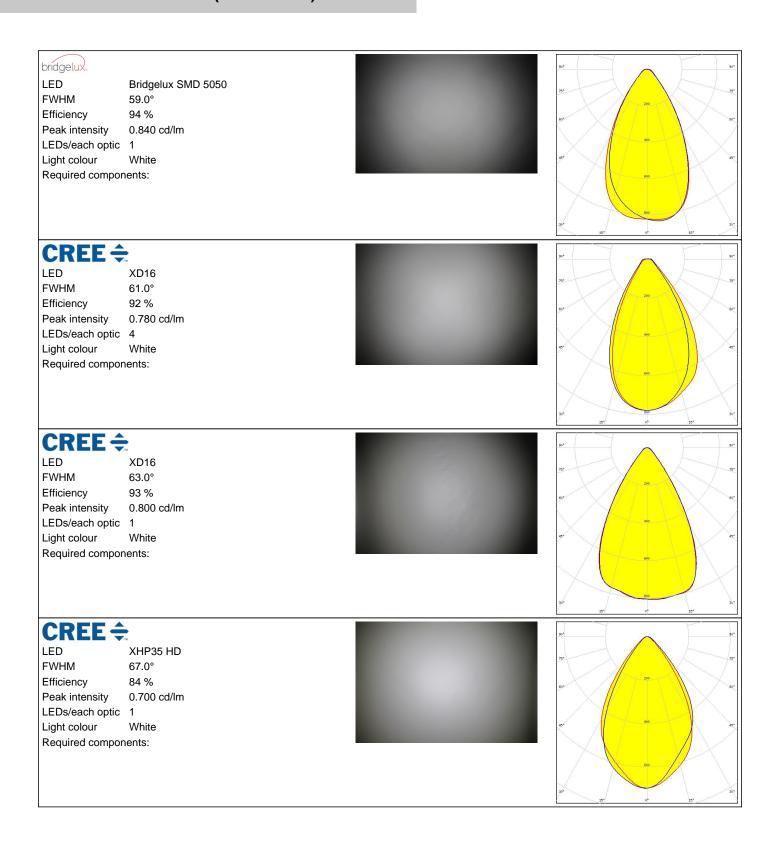


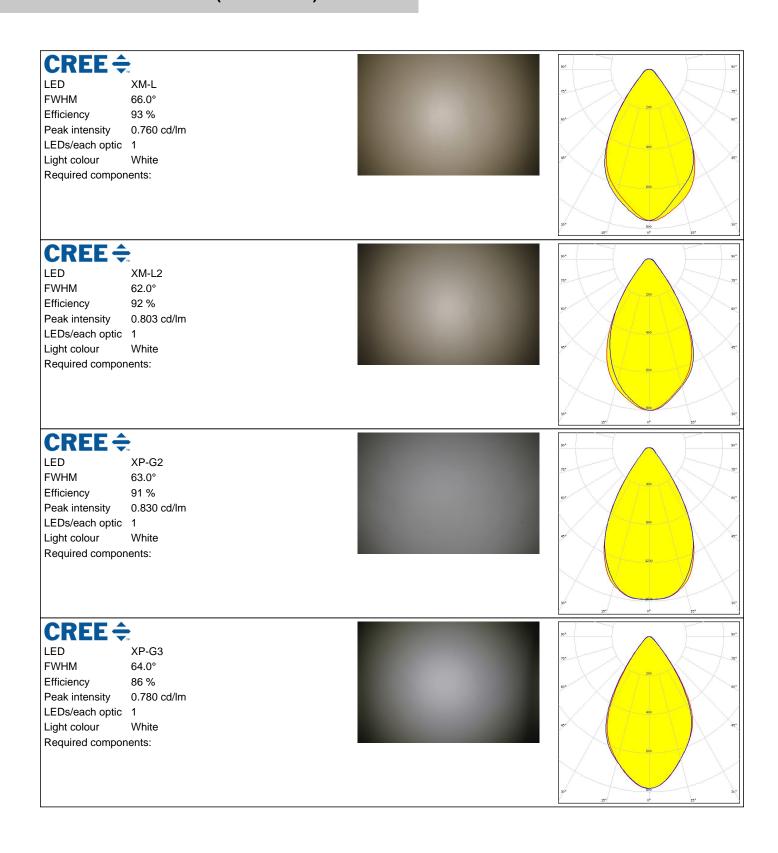
#### **MATERIAL SPECIFICATIONS:**

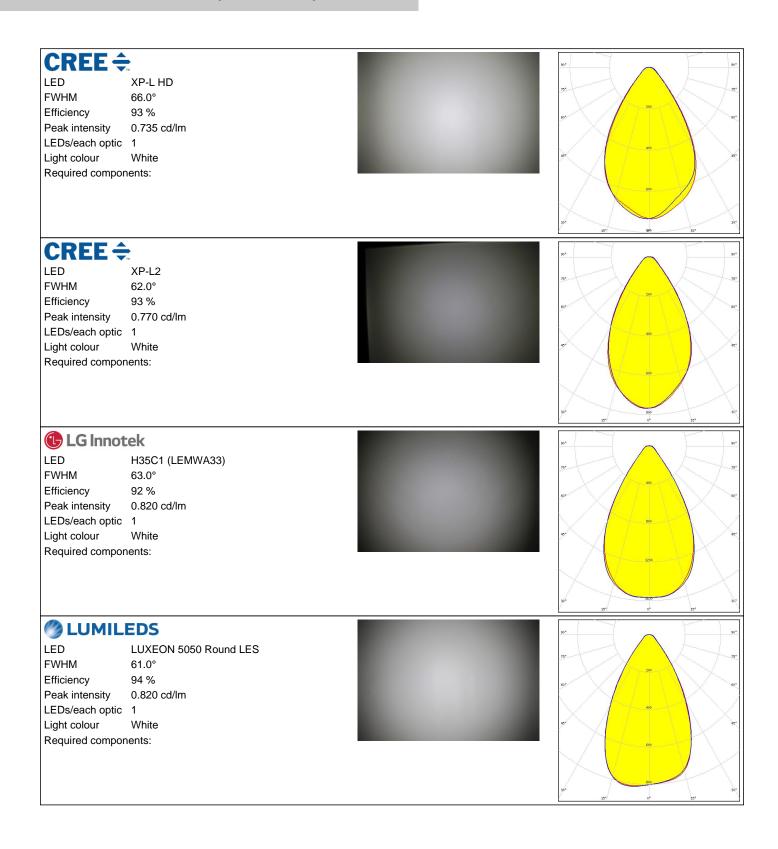
ComponentTypeMaterialColourHB-2X2-WWMulti-lensPMMAclear

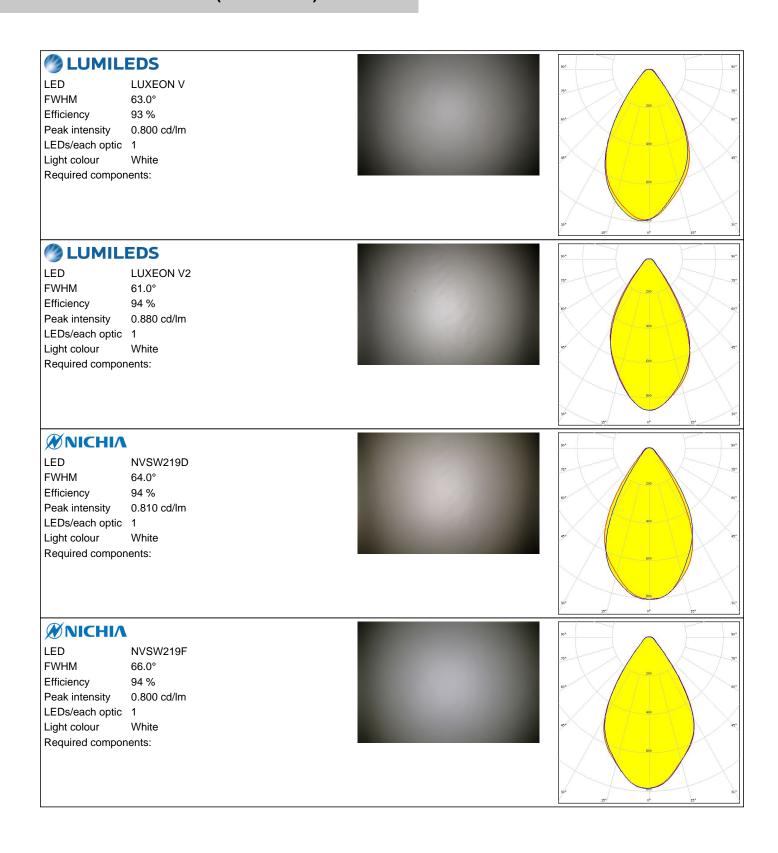


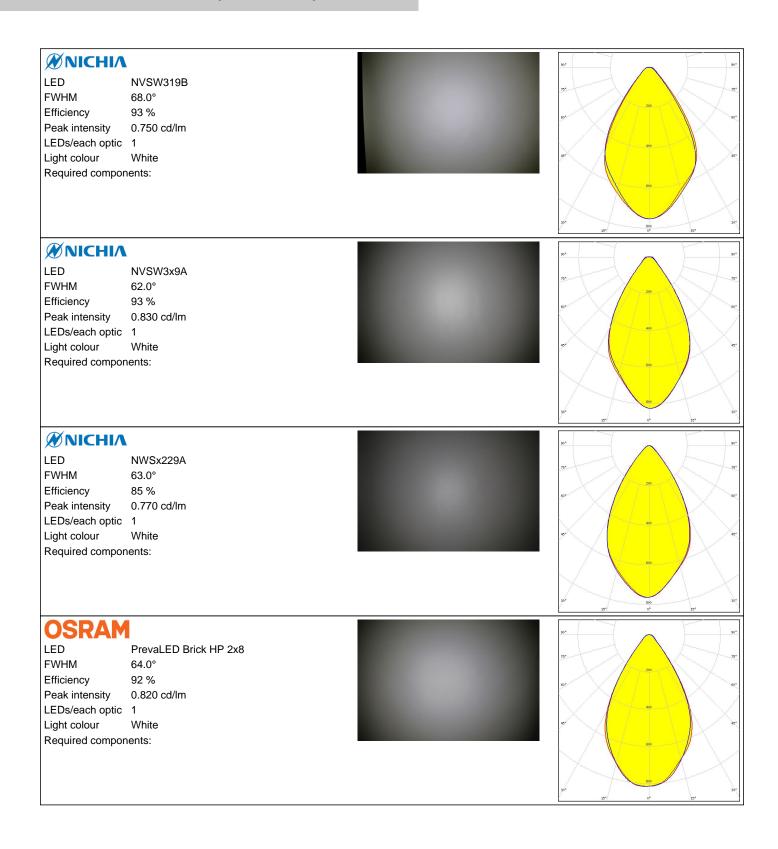












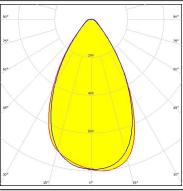
### PHOTOMETRIC DATA (MEASURED):

### **OSRAM**

LED Duris S8 **FWHM** 61.0° 93 % Efficiency Peak intensity 0.800 cd/lm

LEDs/each optic 1 Light colour White Required components:





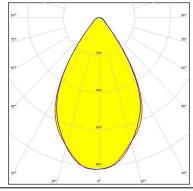
# OSRAM Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3

**FWHM** 64.0° 92 % Efficiency Peak intensity 0.820 cd/lm

LEDs/each optic 1 Light colour White Required components:





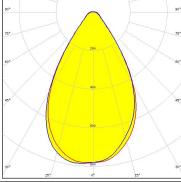
### **PHILIPS**

LED Fortimo FastFlex LED 2x8 DA G4

**FWHM** 64.0° Efficiency 93 % Peak intensity 0.790 cd/lm

LEDs/each optic 1 Light colour White Required components:





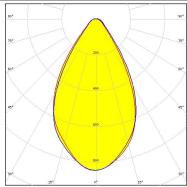
# SAMSUNG

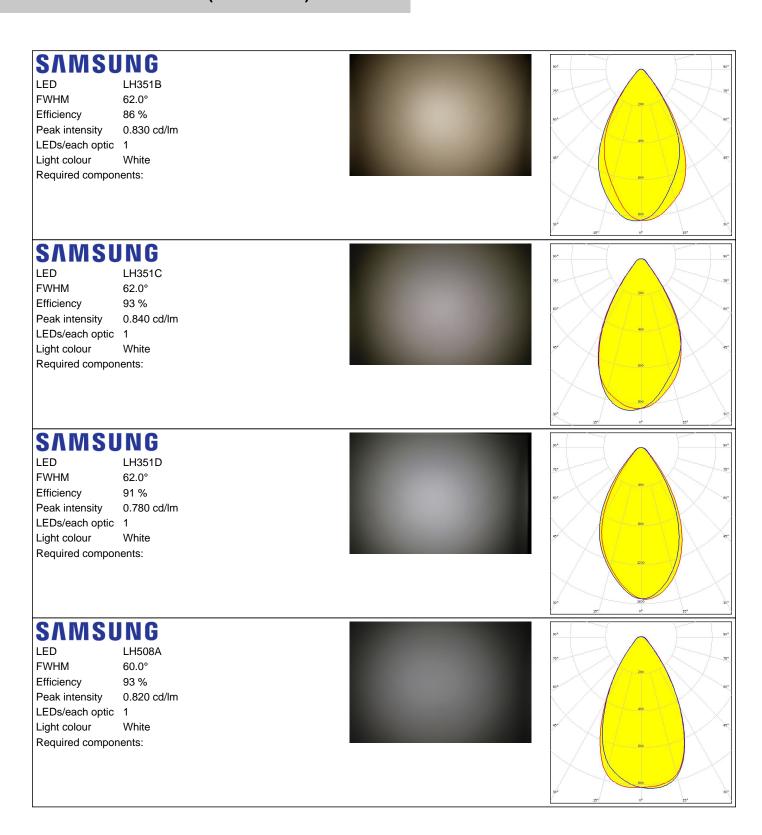
LED HiLOM RH16 (LH351C)

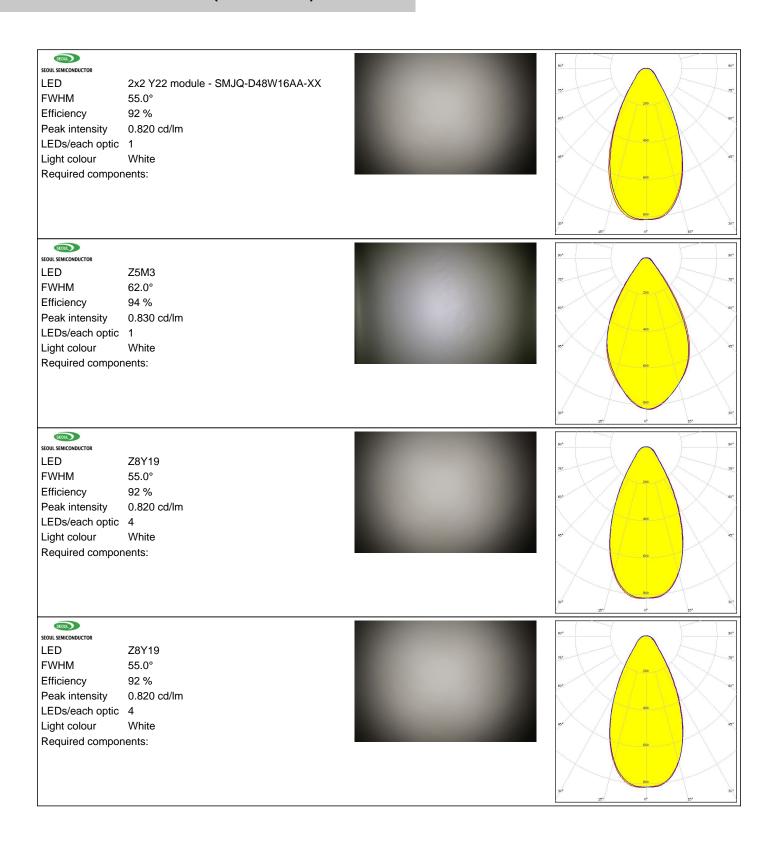
**FWHM** 61.0° Efficiency 94 % Peak intensity 0.850 cd/lm

LEDs/each optic 1 White Light colour Required components:











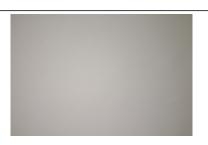
### PHOTOMETRIC DATA (MEASURED):

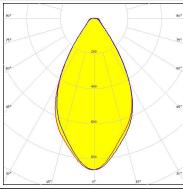


LED

Z8Y22P **FWHM** 59.0° Efficiency 92 % Peak intensity 0.860 cd/lm

LEDs/each optic 1 Light colour White Required components:





## **TRIDONIC**

LED RLE 2x4 2000lm HP EXC2 OTD

**FWHM** 61.0° 94 % Efficiency Peak intensity 0.850 cd/lm

LEDs/each optic 1 Light colour White Required components:

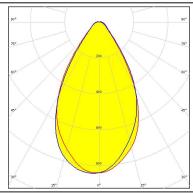
# **TRIDONIC**

LED RLE 2x8 4000lm HP EXC2 OTD

**FWHM** 61.0° Efficiency 94 % Peak intensity 0.850 cd/lm

LEDs/each optic 1 Light colour White Required components:



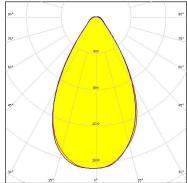


# **TRIDONIC**

LED RLE G1 49x121mm 2000lm xxx EXC OTD

**FWHM** 61.0° Efficiency 94 % Peak intensity 0.830 cd/lm

LEDs/each optic 1 White Light colour Required components:



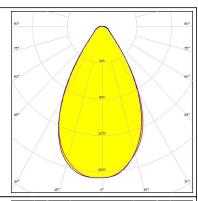
### PHOTOMETRIC DATA (MEASURED):

# **TRIDONIC**

LED RLE G1 49x133mm 2000lm xxx EXC OTD

FWHM 61.0° Efficiency 94 % Peak intensity 0.830 cd/lm

LEDs/each optic 1
Light colour White
Required components:



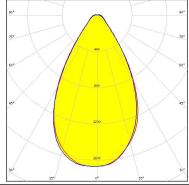
## **TRIDONIC**

LED RLE G1 49x223mm 4000lm xxx EXC OTD

FWHM 61.0° Efficiency 94 % Peak intensity 0.830 cd/lm

LEDs/each optic 1
Light colour White
Required components:





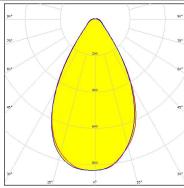
## **TRIDONIC**

LED RLE G1 49x245mm 4000lm xxx EXC OTD

FWHM 61.0° Efficiency 94 % Peak intensity 0.830 cd/lm

LEDs/each optic 1 Light colour White Required components:





### PHOTOMETRIC DATA (SIMULATED):

# CREE 💠

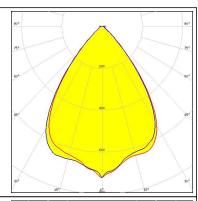
 LED
 XP-G2 HE

 FWHM
 73.0°

 Efficiency
 95 %

 Peak intensity
 0.723 cd/lm

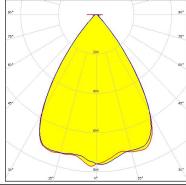
LEDs/each optic 1
Light colour White
Required components:



#### CREE 🕏

LED XT-E
FWHM 69.0°
Efficiency 94 %
Peak intensity 0.780 cd/lm

LEDs/each optic 1 Light colour White Required components:

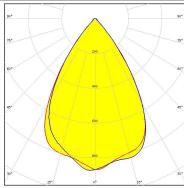


### **MUMILEDS**

LED LUXEON 3535L

FWHM 66.0° Efficiency 94 % Peak intensity 0.870 cd/lm

LEDs/each optic 1
Light colour White
Required components:

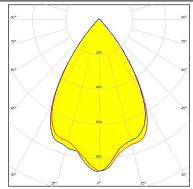


# **DESCRIPTION** LUMILEDS

LED LUXEON MZ FWHM 66.0°
Efficiency 94 % Peak intensity 0.880 cd/lm

LEDs/each optic 1
Light colour White
Required components:







### PHOTOMETRIC DATA (SIMULATED):

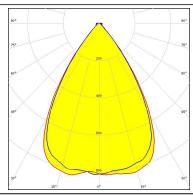
**OSRAM** 

LED

OSCONIQ P 3030

**FWHM** 66.0° 96 % Efficiency Peak intensity 0.831 cd/lm

LEDs/each optic 1 Light colour White Required components:

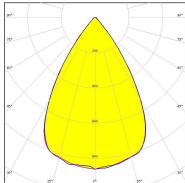


OSRAM Opto Semiconductors

LED OSCONIQ P 3737 (2W version)

**FWHM** 66.0° 96 % Efficiency Peak intensity 0.872 cd/lm

LEDs/each optic 1 White Light colour Required components:

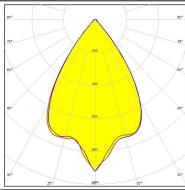


OSRAM Opto Semiconductors

LED OSCONIQ P 3737 (3W version)

**FWHM** 66.0° Efficiency 94 % Peak intensity 0.920 cd/lm

LEDs/each optic 1 Light colour White Required components:

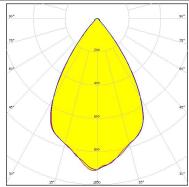


OSRAM Opto Semiconductors

LED OSCONIQ P 3737 Flat

**FWHM** 64.0° Efficiency 95 % 0.915 cd/lm Peak intensity

LEDs/each optic 1 White Light colour Required components:





### PHOTOMETRIC DATA (SIMULATED):

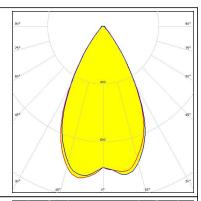
#### **OSRAM**

Opto Semiconductors
LED

OSLON SSL 80

FWHM 55.6° Efficiency 94 % Peak intensity 1.100 cd/lm

LEDs/each optic 1 Light colour White Required components:

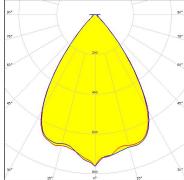


#### PHILIPS

LED Fortimo FastFlex LED 2x8 DAX G4

FWHM 71.0° Efficiency 94 % Peak intensity 0.760 cd/lm

LEDs/each optic 1 Light colour White Required components:



# SAMSUNG

LED LH231B
FWHM 60.0°
Efficiency 94 %
Peak intensity 1.000 cd/lm

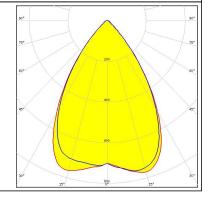
LEDs/each optic 4
Light colour White
Required components:



LED SEOUL DC 5050 6V

FWHM 64.0° Efficiency 94 % Peak intensity 0.790 cd/lm

LEDs/each optic 1
Light colour White
Required components:





## PHOTOMETRIC DATA (SIMULATED):





#### **GENERAL INFORMATION:**

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

#### **MATERIALS:**

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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