

## Technical Specification

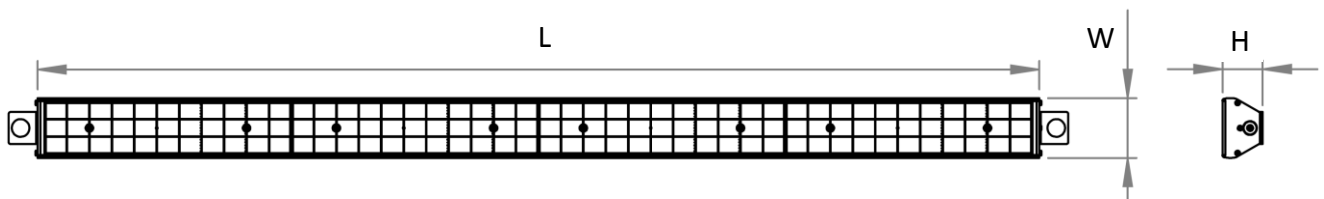
## CH-900

<b>Product Name:</b>	CH-900
<b>Category:</b>	LED Channel Light
<b>Description:</b>	High efficiency surface mount LED channel light with Osram LEDs and advanced optics



<b>Features:</b>	Available in Natural and Warm White	<b>Applications:</b>	Retail lighting
	Tridonic Driver , Dimmable on request		Parking garages
	High Efficiency Osram LEDs		Replaces 1500mm 1x80W linear fluorescent (Indoor use only)
	Power factor > 0.95		
	Max Power Consumption = 50.6W		
	6315 lumen (Aisle), 6378 lumen (60°,90°)		
	Power saving aisle distribution		
	60° & 90° symmetric distributions for general lighting		
	L70 > 50,000 hrs at Ta = 25° Celsius		
	5 year guarantee on full luminaire		
	System efficacy: 124 lm/W (Aisle), 126lm/W (60°,90°)		
	Fitting available in White, Grey, Black		
	Designed and manufactured in South Africa		
IES Files available on request			
20mm nylon mount or 6mm spring nut for P2000			

### Dimensions



Product Code	Length (mm)	Width (mm)	Height (mm)
CH-900	874	69	50

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### Electrical Characteristics

Parameter	Value	Unit
LED Drive Current	116	mA
Operating Voltage/Frequency	220-240/50-60	V AC/Hz
Dimming	Dimmable on request	-
Power	50.6	W
Power Factor	>0.95	-
Driver Efficiency	>90	%

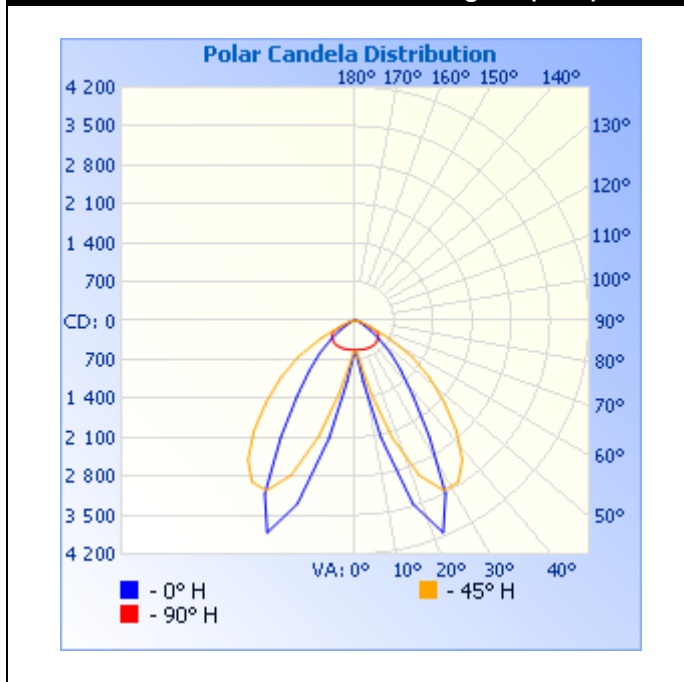
### Optical Characteristics

Product Code	LED Colour	Colour Temp (K)	Luminaire Intensity (lm) *	Angle (°)	Min CRI	Fitting Colour
CH-900	□ NW	4000	6315, 6378	Aisle, 60° & 90°	80	Wt,Gr,Bk
	□ WW	3000	6315, 6378			

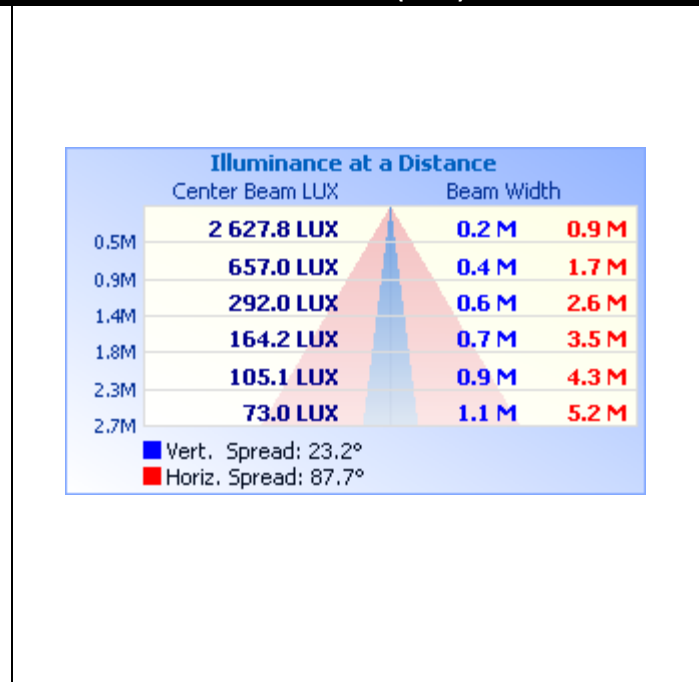
W = Warm White LED Colour  
 NW = Natural White LED Colour  
 \* Values accurate to within 10%

Wt = White  
 Gr = Grey  
 Bk = Black

### Polar Candela Distribution Diagram (Aisle)



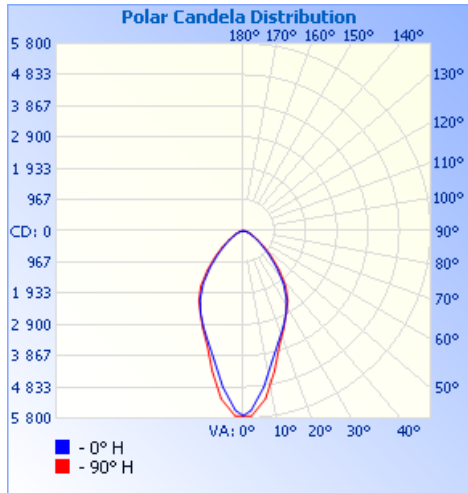
### Isolux Plot (Aisle)



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**Polar Candela Distribution Diagram (60°)**

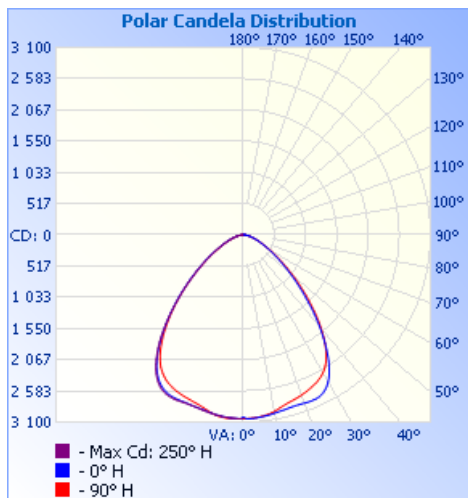


**Illumination at a distance (60°)**

	Illuminance at a Distance	
	Center Beam LUX	Beam Width
0.5M	<b>28 269.6 LUX</b>	<b>0.5 M 0.5 M</b>
0.9M	<b>7 067.4 LUX</b>	<b>0.9 M 0.9 M</b>
1.4M	<b>3 141.1 LUX</b>	<b>1.4 M 1.4 M</b>
1.8M	<b>1 766.9 LUX</b>	<b>1.9 M 1.9 M</b>
2.3M	<b>1 130.8 LUX</b>	<b>2.3 M 2.4 M</b>
2.7M	<b>785.3 LUX</b>	<b>2.8 M 2.8 M</b>

■ Vert. Spread: 54.8°  
■ Horiz. Spread: 55.3°

**Polar Candela Distribution Diagram (90°)**



**Illumination at a distance (90°)**

	Illuminance at a Distance	
	Center Beam LUX	Beam Width
0.5M	<b>14 883.9 LUX</b>	<b>0.9 M 0.9 M</b>
0.9M	<b>3 721.0 LUX</b>	<b>1.8 M 1.8 M</b>
1.4M	<b>1 653.8 LUX</b>	<b>2.7 M 2.7 M</b>
1.8M	<b>930.2 LUX</b>	<b>3.6 M 3.6 M</b>
2.3M	<b>595.4 LUX</b>	<b>4.5 M 4.5 M</b>
2.7M	<b>413.4 LUX</b>	<b>5.4 M 5.5 M</b>

■ Vert. Spread: 90.1°  
■ Horiz. Spread: 90.5°

### Product Ordering Code

Example: CH-900-NW-Aisle-WT-N

CH-900	NW	Aisle	WT	N
Product Code	Natural White LED Colour	Distribution	Fitting Colour	Non-Dimmable

### Document Info

CH-900 Rev 1