

PROJECT:

NOTES:

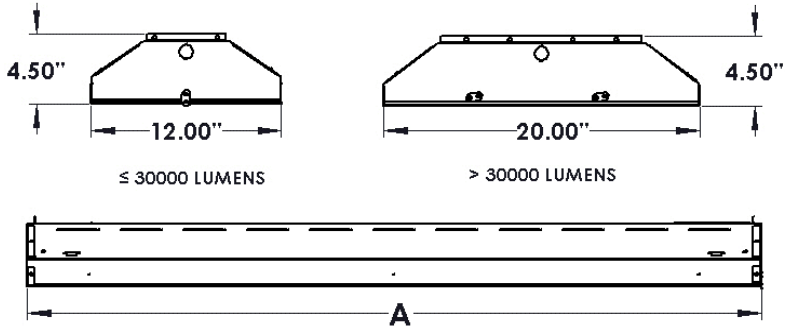
ORDERING INFORMATION:

**EXAMPLE** PENE - 48 - LED - 300 - 9 - 50 - L1 - MV - WG - CL3 - DIM  
 SERIES      NOM. LENGTH      SOURCE      LUMENS      CRI      KELVINS      LENS      VOLTAGE      OPTIONS      CONTROLS      DRIVER

SHOP DRAWINGS



	<b>A</b>
<b>PENE-24</b>	<b>23.62"</b>
<b>PENE-48</b>	<b>46.50"</b>



ORDERING INFORMATION

**SERIES**  
PENE

**LENS**  
 00 No Lens  
 A0 Acrylic K12 - 0.095" (standard)  
 A1 Acrylic K12 - 0.125"  
 H1 White Opal  
 L1 Frosted  
 M1 Clear Polycarbonate (0.125")  
 G1 Polycarbonate K12 (0.125")

**NOMINAL LENGTH**  
 24 24"  
 48 48"

**SOURCE**  
LED

**VOLTAGE**  
 MV 120-277V  
 347 347V

**LUMENS**

Lumen Package*	Nom. Lumens	Wattage
<b>24"</b>		
100	10,000	60
150	15,000	90
<b>48"</b>		
200	20,000	119
240	24,000	154
300	30,000	185
400	40,000	260
500	50,000	325
630	63,000	433

**OPTIONS**  
 BC# Black Cab Tire Wire #ft  
 WC# White Cab Tire Wire #ft  
 AC# Suspension Aircraft Cable #ft  
 CS# Chain Suspension Kit #ft  
 WG Wire Guard  
 EM Emergency Powerpack  
 WD Wide Distribution  
 ND Narrow Distribution

**CONTROLS**  
 Click on the following link for controls options:  
<https://bit.ly/2CSIXqa>

**CRI**  
 BLANK 80 CRI  
 9 90 CRI

**DRIVER**  
 BLANK Non-dimming applications  
 DM 0-10V dimming  
 DA DALI Driver  
 Click on the following link for special driver options:  
<https://bit.ly/2Fa26qU>

**KELVIN**  
 30 3000K  
 35 3500K  
 40 4000K  
 50 5000K  
 TW Tunable White

FEATURES

- > Efficacies up to 168 lm/W
- > High performance LED luminaire replacing conventional HID and fluorescent high bay
- > Wide selection of LED packages available for a broad range of output levels and ceiling heights
- > Minimum 80 CRI; color range 3000K - 5000K available
- > Tunable White option available
- > Multiple dimming protocols available
- > Energy-saving occupancy sensor option available
- > Wire guard option available
- > Variety of lenses available for smooth, uniform illumination
- > Medium lighting distribution as standard
- > 100% made in Canada

APPLICATIONS

- > Warehouse
- > Manufacturing Plants
- > Retail
- > Commercial
- > Industrial
- > Sport Facilities

LED

FIXTURE PERFORMANCE DATA

SPECIFICATIONS

**Housing/Reflector** – Precision die-formed aluminum housing

**Shielding** – Variety of lenses available based on customer preference

**Finish** – Baked white enamel powder finish applied post production on all surfaces for smooth edges and safe handling

**Electrical** – High quality mid-power LED boards. L85 >50,000 hours.

**Mounting** – Suspended or surface

**Listings** –

- cUL certified as luminaire suitable for dry or damp locations.
- DLC Premium certified (consult factory for listing)

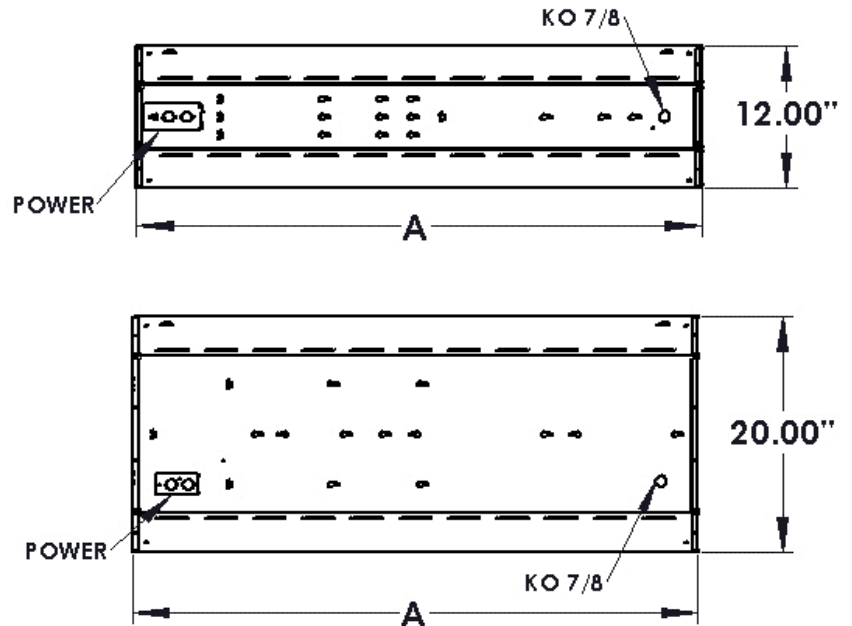
**Warranty** – 5-year limited warranty

LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
24"			
100	10,110	63	160
150	15,136	92	165
48"			
200	20,119	126	160
240	24,128	154	157
300	30,142	185	163
400	40,551	255	158
500	50,552	317	159
630	63,493	433	146

\*Results based on 4000K, 80 CRI, No Lens

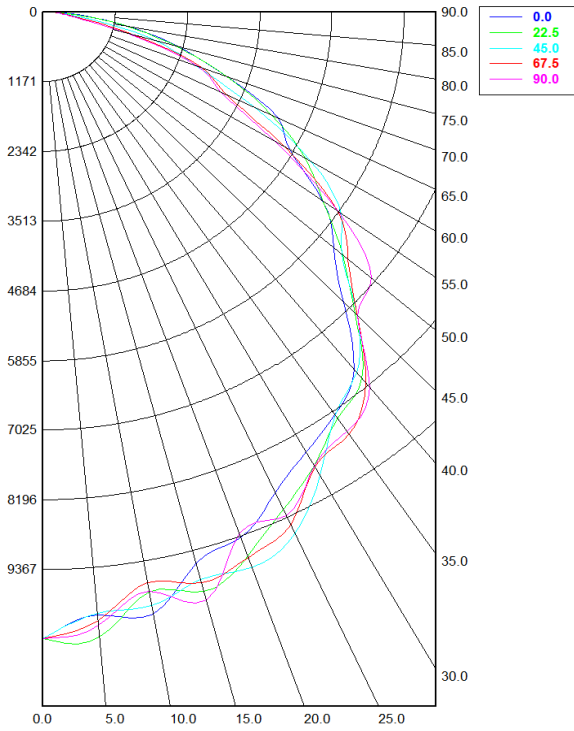
MULTIPLIER TABLE	
COLOR TEMPERATURE	
CCT/CRI	CONVERSION FACTOR
3000K / 80 CRI	0.95
3500K / 80 CRI	0.97
4000K / 80 CRI	1
5000K / 80 CRI	1.03

FIXTURE DETAILS



PHOTOMETRY

PENE-48-LED-300-40-MV Total Luminaire Output: 30,142 lumens; 185 Watts



Candela Table

	0°	22.5°	45°	67.5°	90°
0°	10,522.4	10,522.4	10,522.4	10,522.4	10,522.4
5°	10,168.2	10,538.2	10,135.9	10,255.4	10,346.3
10°	10,269.7	9,895.64	10,124.3	9,737.62	9,878.69
15°	9,582.69	10,073.6	9,872.5	9,928.74	10,228.7
20°	9,386.76	9,717.01	9,921.61	9,745.96	9,309.16
25°	8,903.02	9,214.45	9,668.96	9,494.8	9,333.94
30°	8,543.17	8,807.47	8,991.62	8,824.41	8,812.46
35°	8,260.22	8,333.79	8,265.94	8,660.36	8,598.67
40°	7,846.02	8,045.9	7,913.4	8,137.63	8,238.42
45°	6,894.12	7,155.94	7,207.27	7,220.12	7,223.6
50°	6,154.18	6,348.96	6,327.53	6,460.54	6,946.85
55°	5,555.33	5,552.32	5,907.07	5,843.82	5,877.47
60°	4,603.93	4,907.64	5,027.53	4,490.67	4,305.29
65°	4,179.41	4,074.73	3,746.82	3,261.61	3,168.81
70°	3,149.7	3,168.77	2,635.04	2,726.32	2,673.15
75°	2,270.45	2,229.8	1,915.18	1,583.55	1,419.92
80°	1,380.41	1,355.46	886.43	636.37	511.56
85°	570.46	515.56	296.65	272.79	269.48
90°	58.05	69.07	65.01	62.56	53.59

Luminaire Spacing Criterion (spacing to mounting height ratio)

- Two luminaires, plane 0° 1.21
- Two luminaires, plane 90° 1.26
- Four luminaires 1.39

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	8,109.83	8,673.47%	26.91%
0° - 40°	13,382.7	14,312.8%	44.4%
0° - 60°	23,974.4	25,640.6%	79.54%
0° - 90°	30,142.1	32,237%	100%
90° - 120°	17.3	18.5%	0.06%
90° - 150°	17.3	18.5%	0.06%
90° - 180°	17.3	18.5%	0.06%
0° - 180°	30,142.1	32,237%	100%