

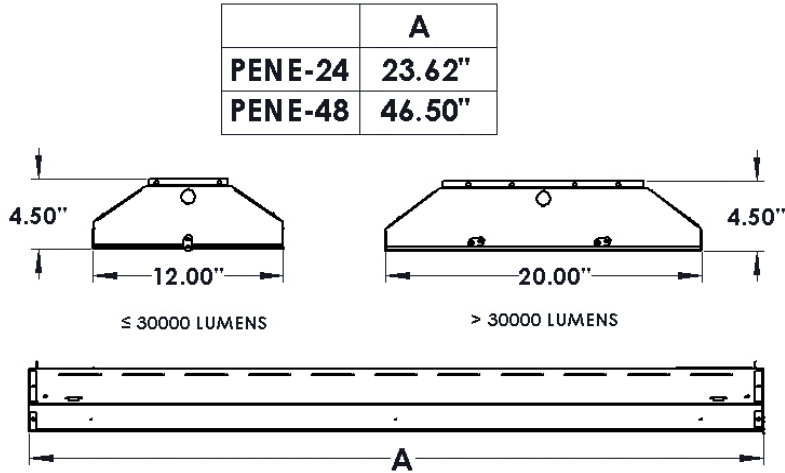
PROJECT:

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



ORDERING INFORMATION

SERIES
PENE

NOMINAL LENGTH
24 24"
48 48"

SOURCE
LED

LUMENS

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

*Other lumen packages available.

CRI
BLANK 80 CRI
9 90 CRI

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

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")

VOLTAGE
MV 120-277V
347 347V

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
UP Uplight (1,500 lumens)

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

DRIVER
BLANK Non-dimming applications
DM 0-10V dimming
DA DALI Driver
Click on the following link for special driver options:
<https://bit.ly/2FqZ6qU>

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
- > 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 –

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

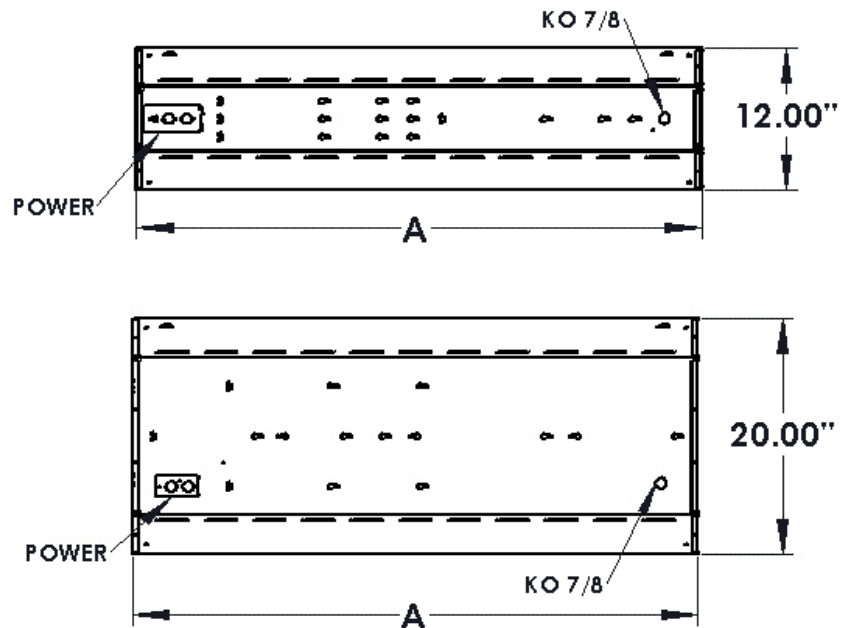
Warranty – 5-year limited warranty

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

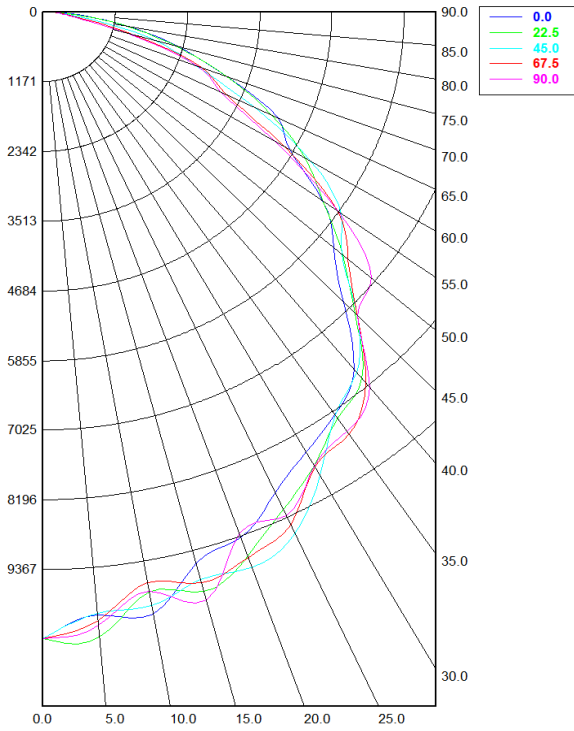
MULTIPLIER TABLE	
COLOR TEMPERATURE	
CCT/CRI	CONVERSION FACTOR
3000K / 80 CRI	0.95
3500K / 80 CRI	0.97
4000K / 80 CRI	1
5000K / 80 CRI	1.03

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%