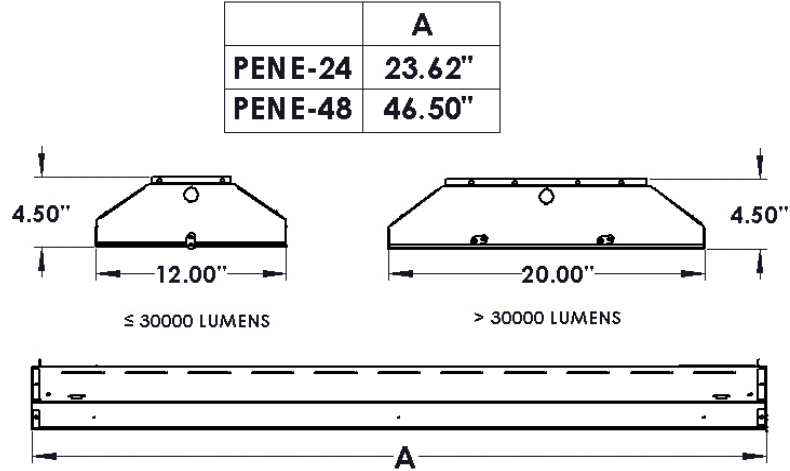


PROJECT: _____ NOTES: _____

ORDERING INFORMATION: _____

EXAMPLE PENE - 48 - L - 300 - 9 - 50 - L1 - MV - WG - D
SERIES NOM. LENGTH SOURCE LUMENS CRI KELVINS LENS VOLTAGE OPTIONS DRIVER

SHOP DRAWINGS



ORDERING INFORMATION

SERIES	
PENE	
NOMINAL LENGTH	
24	24"
48	48"
SOURCE	
L	LED
LUMENS	

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

Lumen Package*	Nominal Lumens
24"	
100	10,000
150	15,000
48"	
200	20,000
240	24,000
300	30,000
400	40,000
500	50,000
630	63,000

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
OF	External Mount Occupancy Sensor

CRI	
BLANK	80 CRI
9	90 CRI
KELVIN	
30	3000K
35	3500K
40	4000K
50	5000K
TW	Tunable White

DRIVERS	
ND	Non-dimming applications
D	0-10V dimming
DA	DALI driver

FEATURES

- > 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

APPLICATIONS

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

*Other lumen packages available.

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. L70 >72,000 hours reported / 129,200 hours calculated at maximum allowable output current. 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)

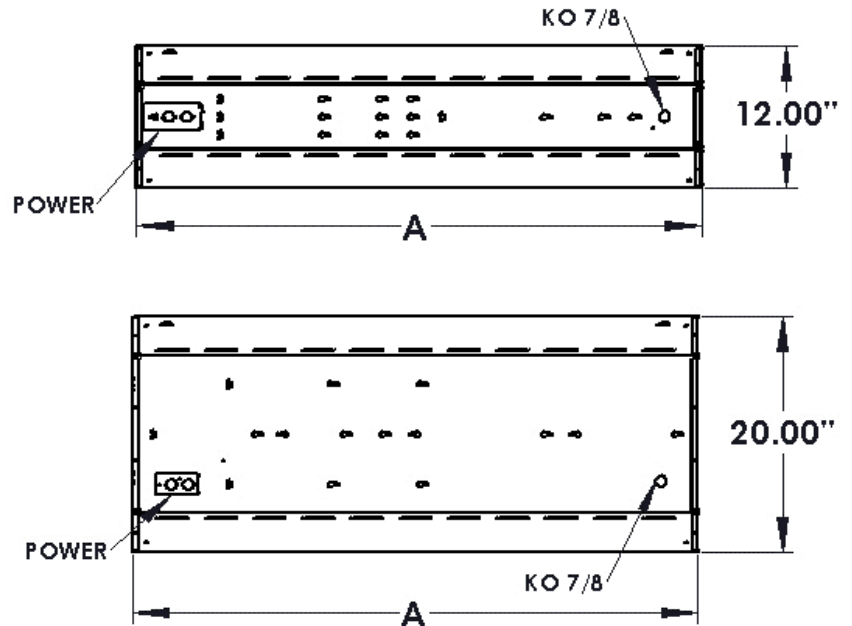
Warranty – 5-year limited warranty

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

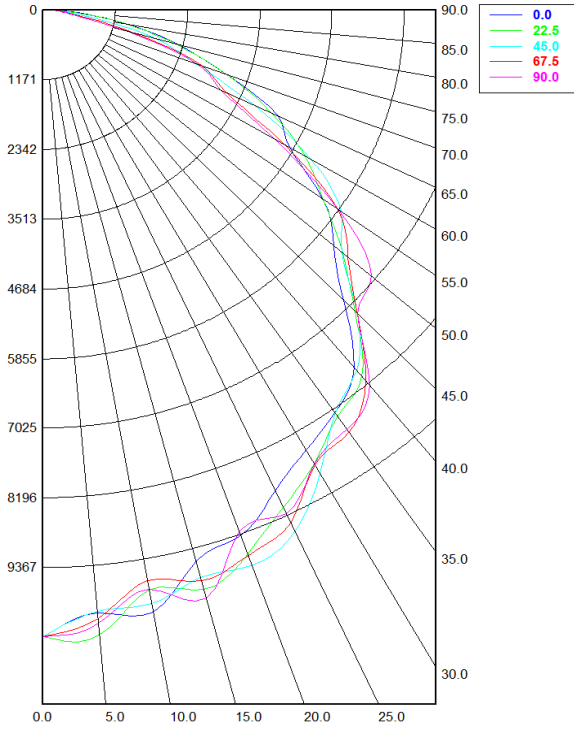
MULTIPLIER TABLE	
COLOR TEMPERATURE	
CCT/CRI	CONVERSION FACTOR
3000K / 80 CRI	0.95
3500K / 80 CRI	0.97
4000K / 80 CRI	1
5000K / 80 CRI	1.03

FIXTURE DETAILS



PHOTOMETRY

PENE-48-L-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%