

# NITRO® LED

## 2% NITROGEN INFUSED ACRYLIC PENDANT

### APPLICATION:

Retail and supermarket ambient and display lighting

### CONSTRUCTION:

Extruded aluminum heat sink & driver enclosure  
Formed sheet metal  
Acrylic 2% nitrogen infused refractor

### FINISH:

Powder coat paint: white, black or silver standard  
Consult factory for custom RAL finishes

### MOUNTING:

Busway, canopy and c-clamp  
Stem is field cuttable - 60" or 120" standard stems

### LABELING:



For indoor use only

### OPTICS:

LED cluster  
Color Temp: 2700K, 3000K, 3500K, 4000K, Class A  
CRI: 83 typ. (2700K, 3000K, 3500K, 4000K)  
90+ typ. (2700K, 3000K, 3500K)  
R9 Value: 11 (83CRI), 55 (90+CRI)  
Life: 50,000 hrs  
Lumen Maintenance: >70% of initial lumens @ 50,000 hrs  
Lumen Output (3000K): 2100 - 6361  
Beam Options: Flood 35°, Wide Flood 45°,  
Very Wide Flood 65°

### ELECTRICAL:

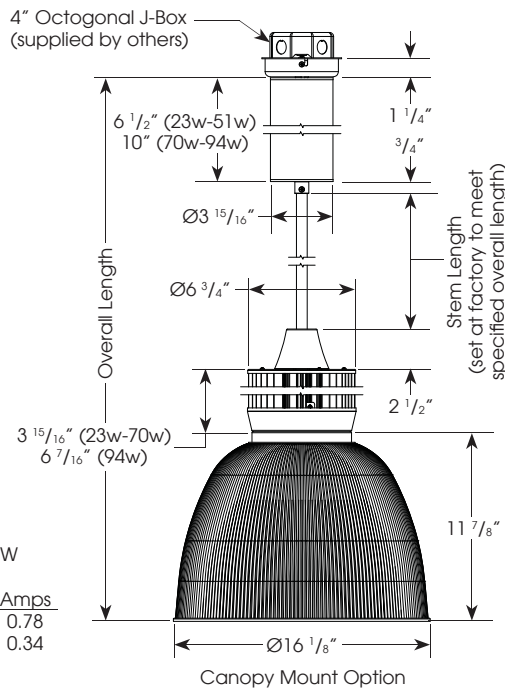
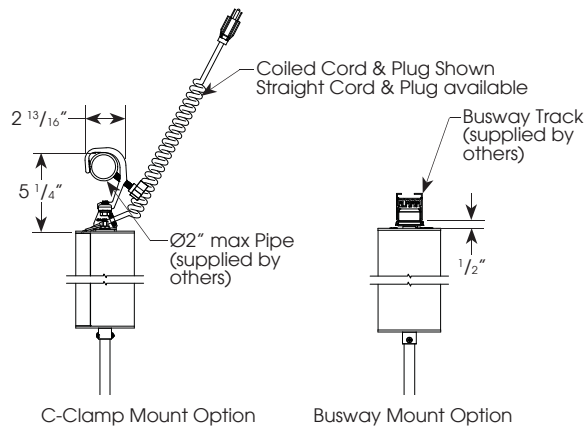
Electronic constant current LED driver  
120v or 277v input  
**This product complies with IEEE C62.41 for surge endurance up to 2.5KV. Amerlux recommends using additional surge protection with this unit (supplied by others), surge damage is not covered by warranty.**

## NIT-A16 LED



### PROJECT:

### TYPE:



### ELECTRICAL

Electronic driver

	23W		36W		51W		70W		94W	
	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps
120v	23	0.19	36	0.30	51	0.43	70	0.58	94	0.78
277v	23	0.08	36	0.13	51	0.18	70	0.25	94	0.34



**5** year limited  
warranty  
AMERLUX LED

(see website for details)

### ORDERING INFORMATION:

Model	Wattage	Lamp Type	Finish	Mounting	Overall Length (in inches)	Voltage	Beam Spread	Color Temp (CCT-CRI)	Dimming*
NIT-A16	23	LED	WT - white	C - canopy	60	120	FL - flood, 35°	27 - 2700K-83	LE/TE - Triac/ELV dimming, (23w-51w only)
	36		texture	B - busway (B40, B50, B60c)	120	277	WF - wide flood 45°	30 - 3000K-83	0-10V - 0-10v dimming (canopy mount only)
	51		BT - black	CCL-SCP - c-clamp w/ straight cord, 6' length	Consult factory for other lengths		VWF - very wide flood 65°	35 - 3500K-83	ND - non-dimming (all wattages)
	70		texture	CCL-CCP - c-clamp w/coil cord, 12" rest/5' extended				40 - 4000K-83	
	94		ST - silver					279 - 2700K-90+	
			texture					309 - 3000K-90+	
			— (other RAL)					359 - 3500K-90+	
								3CLA - 3K CLASS A	

Example: NIT-A16-51-LED-WT-C-60-120-WF-30-0-10V

Cat #:

\*Mounting & wattage affects dimming options available. See chart on dimming page.

Amerlux reserves the right to change details that do not affect overall function and performance.

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NIT-A16  
LED



TYPE:



## DIMMING OPTIONS DEPENDING ON SELECTED MOUNTING AND WATTAGE:

Wattage	Canopy Mount	Busway Mount	C-Clamp Mount
23	ND 0-10V LE/TE	ND LE/TE	ND LE/TE
36	ND 0-10V LE/TE	ND LE/TE	ND LE/TE
51	ND 0-10V LE/TE	ND LE/TE	ND LE/TE
70	ND 0-10V	ND	ND
94	ND 0-10V	ND	ND

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NIT-A16  
LED



TYPE:



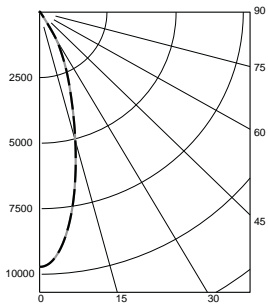
**FIXTURE DATA:** For 23W data, multiply 51W data by 0.55; For 36W data, multiply 51W data by 0.75

Complete photometric data (ies format) available upon request.

CCT Conversion Factor: 2700K-83 = 0.96; 3500K-83 = 1.02; 4000K-83 = 1.04; 2200K-90+ = 0.71; 2700-90+ = 0.80; 3000K-90+ = 0.83

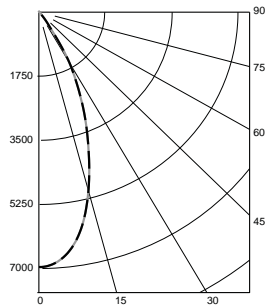
## 51W LED 3000K-83

FLOOD DISTRIBUTION  
LTL # 1234418



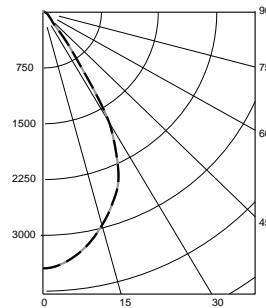
Candelas at Nadir	
Deg	Candela
0	9717
5	9033
15	5120
25	2230
35	349
45	93

WIDE FLOOD DISTRIBUTION  
LTL # 1234419



Candelas at Nadir	
Deg	Candela
0	6958
5	6762
15	5014
25	2605
35	519
45	100

VERY WIDE FLOOD DISTRIBUTION  
LTL # 1234420

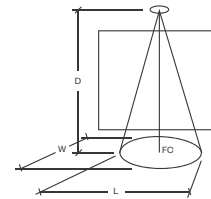


Candelas at Nadir	
Deg	Candela
0	3444
5	3373
15	2966
25	2316
35	752
45	168

## APPLICATION DATA:

### Notes and Definitions:

Beam spread is to 50% center beam candlepower (CBCP).  
 D=Distance to floor or wall.  
 FC=Footcandles on floor or wall at center beam aiming location.  
 L=Effective Visual Beam length in feet (50% of maximum footcandle level).  
 W=Effective Visual Beam width in feet (50% of maximum footcandle level).  
 CB=Distance across or down to center beam location.



0° Aiming Angle  
Horizontal  
Footcandles

	D	FC	L	W
FLOOD	7.5'	167	3.9	3.9
	10.0'	95	5.3	5.3
	12.5'	61	6.6	6.6
	15.0'	43	7.9	7.9
WIDE FLOOD	7.5'	120	5.2	5.2
	10.0'	68	7.0	7.0
	12.5'	44	8.7	8.7
	15.0'	31	10.4	10.4
VERY WIDE FLOOD	7.5'	59	7.1	7.1
	10.0'	34	9.5	9.5
	12.5'	22	12.0	12.0
	15.0'	16	14.6	14.6

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NIT-A16  
LED



TYPE:

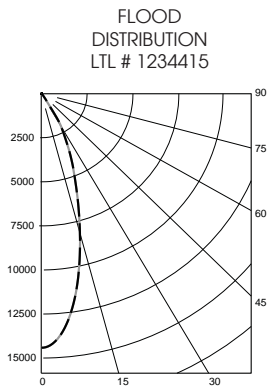


**FIXTURE DATA:** For 70W data, multiply 94W data by 0.92

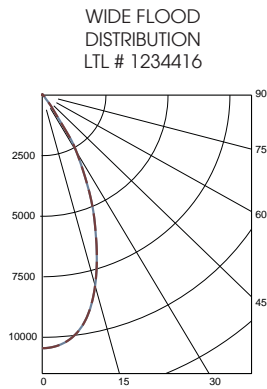
Complete photometric data (ies format) available upon request.

CCT Conversion Factor: 2700K-83 = 0.96; 3500K-83 = 1.02; 4000K-83 = 1.04; 2200K-90+ = 0.71; 2700-90+ = 0.80; 3000K-90+ = 0.83

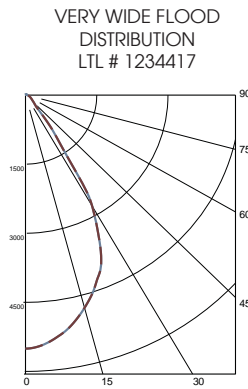
## 94W LED 3000K-83



Candelas at Nadir	
Deg	Candela
0	14410
5	13550
15	8207
25	3711
35	559
45	154



Candelas at Nadir	
Deg	Candela
0	10450
5	10250
15	8089
25	4376
35	838
45	167

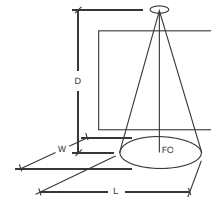


Candelas at Nadir	
Deg	Candela
0	5505
5	5395
15	4787
25	3749
35	1211
45	274

## APPLICATION DATA:

### Notes and Definitions:

Beam spread is to 50% center beam candlepower (CBCP).  
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 L=Effective Visual Beam length in feet (50% of maximum footcandle level).  
 W=Effective Visual Beam width in feet (50% of maximum footcandle level).  
 CB=Distance across or down to center beam location.



0° Aiming Angle  
Horizontal  
Footcandles

	D	FC	L	W
FLOOD	7.5'	247	4.2	4.2
	10.0'	141	5.6	5.6
	12.5'	91	7.0	7.0
	15.0'	64	8.5	8.5
WIDE FLOOD	7.5'	179	5.6	5.6
	10.0'	102	7.4	7.4
	12.5'	66	9.2	9.2
	15.0'	47	11.1	11.1
VERY WIDE FLOOD	7.5'	95	7.1	7.1
	10.0'	54	9.6	9.6
	12.5'	35	12.1	12.1
	15.0'	25	14.7	14.7