



# BDA30-48-35-ND-L-1-A-AW-SM1-SN-ESS

**Luminaire Description:** Silver rectangular metal housing, reflectors, and patterned plastic lens  
**Lamp:** 112 White LEDs  
**Mounting:** Surface – Wall  
**Ballast/Driver:** AC Electronics AC10CD250AT2K

Luminaire



### Luminaire Characteristics

Luminous Length: 48.00 in.  
Luminous Width: 2.000 in.  
Luminous Height: 1.00 in.

### Summary of Results

#### Integrating Sphere

Luminous Flux: 713.1 Lumens  
Efficacy: 92.14 lm/w  
CCT: 3506 K  
CRI (Ra): 92.8

#### Distribution

Roadway Classification: Type IV, Very Short  
Cutoff Classification: Noncutoff  
BUG Rating: B0 U1 G1

#### Electrical Data at 120 VAC

Test Temperature: 24.5 °C  
Voltage: 120.1 VAC  
Current: 0.06470 A  
Power: 7.739 W  
Power Factor: 0.996  
Frequency: 60 Hz  
Current THD: 7.02 %



## Color Quality - Integrating Sphere

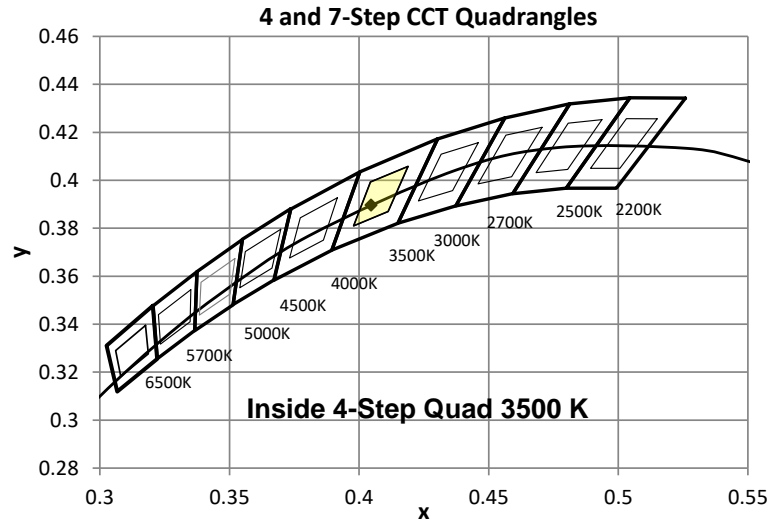
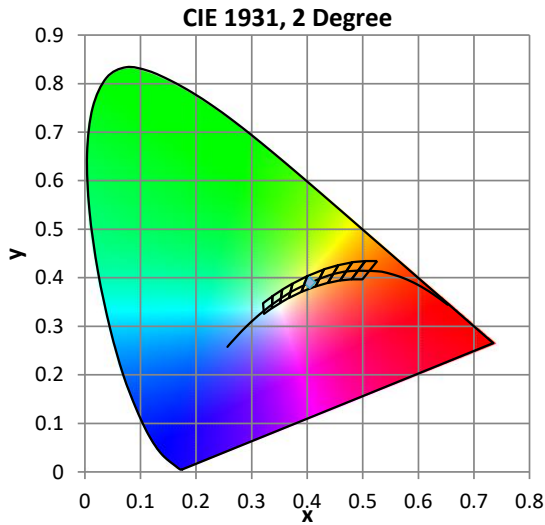
### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.5 °C	120.1 VAC	0.06470 A	7.739 W	0.996	60 Hz	7.02 %

### Summary of Results

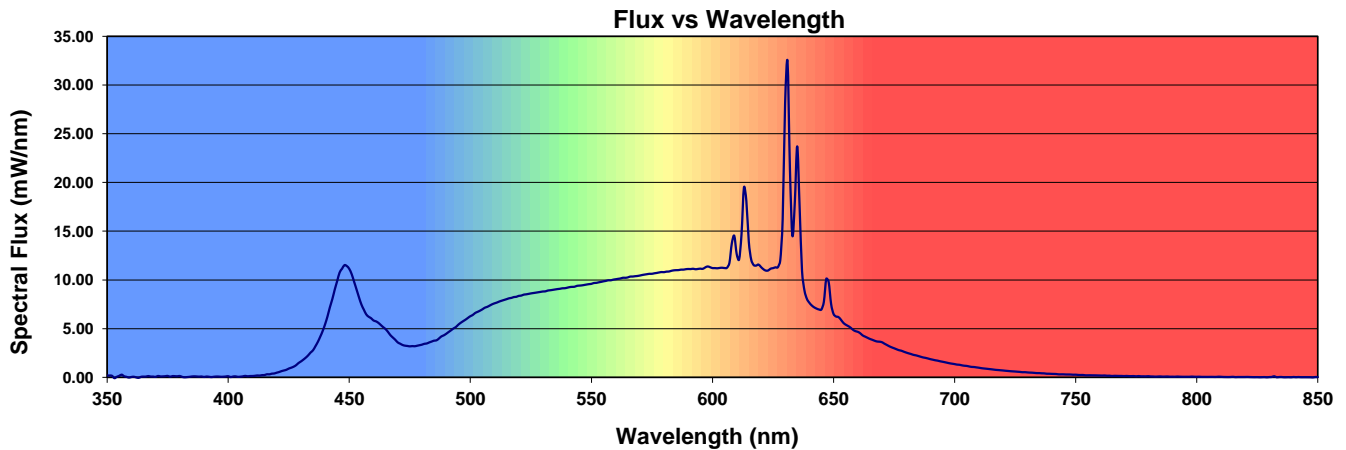
<b>Total Output:</b>	713 Lumens	<b>Chromaticity (x):</b>	0.4046
<b>Efficacy:</b>	92.1 lm/w	<b>Chromaticity (y):</b>	0.3897
<b>CCT:</b>	3506 K	<b>Chromaticity (u'):</b>	0.2356
<b>CRI (Ra):</b>	92.8	<b>Chromaticity (v'):</b>	0.5107
<b>CRI (R9):</b>	60.4	<b>TM-30 Rf:</b>	91
<b>Peak Wavelength:</b>	631 nm	<b>TM-30 Rg:</b>	101
<b>Dominant Wavelength:</b>	581 nm	<b>TM-30 Rcs,h1:</b>	-5%
<b>S/P Ratio:</b>	1.6	<b>Duv:</b>	-0.0003
<b>M/P Ratio:</b>	0.63		

WELL Building Standard v2



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92.8	94.1	94.9	94.5	94.2	93.4	93.7	93.1	84.5	60.4	86.7	94.7	78.0	94.1	96.1	90.5





### Distribution - Goniophotometer

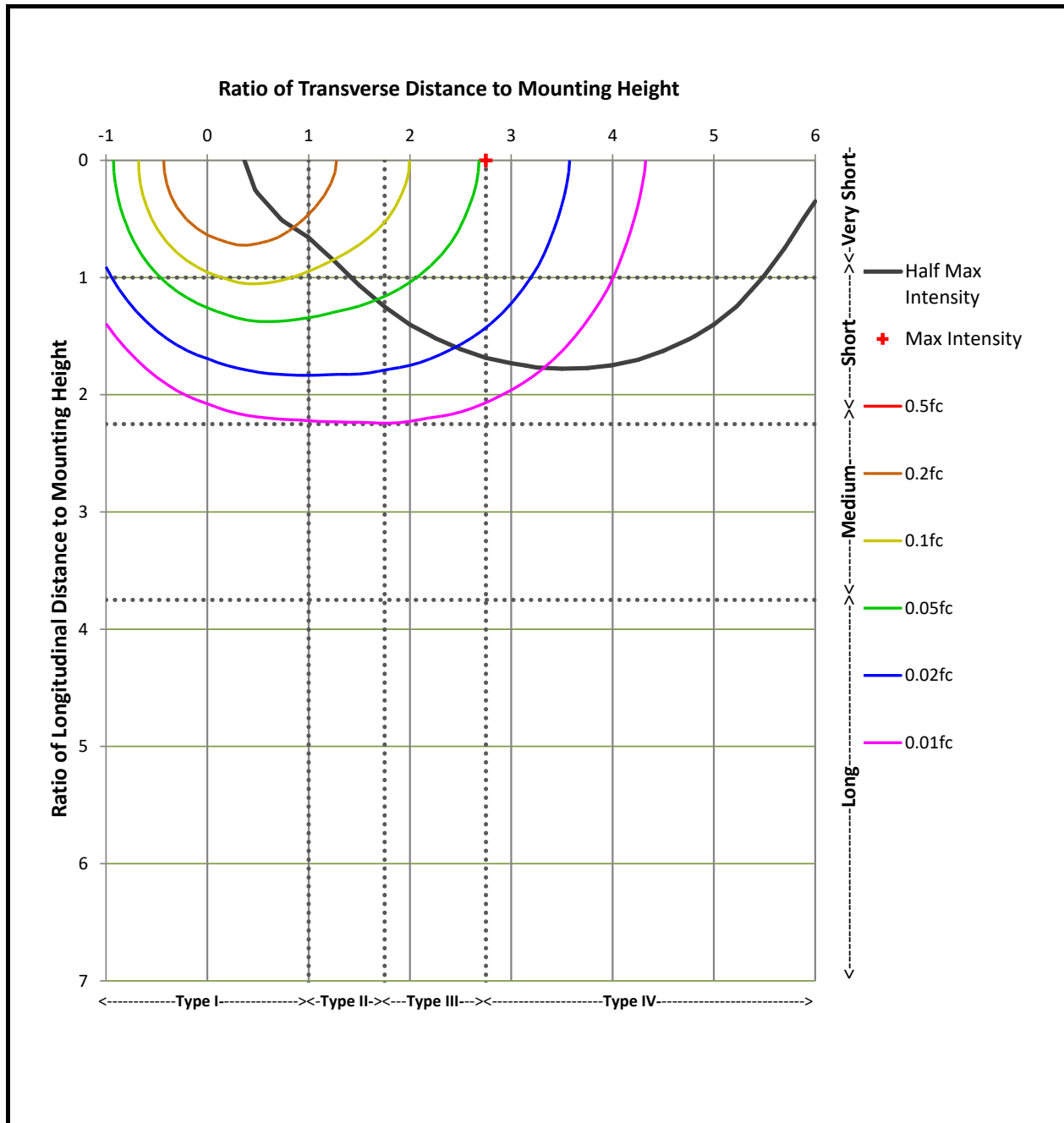
#### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.1 VAC	0.06469 A	7.736 W	0.996	60 Hz	7.01 %

#### Summary of Results

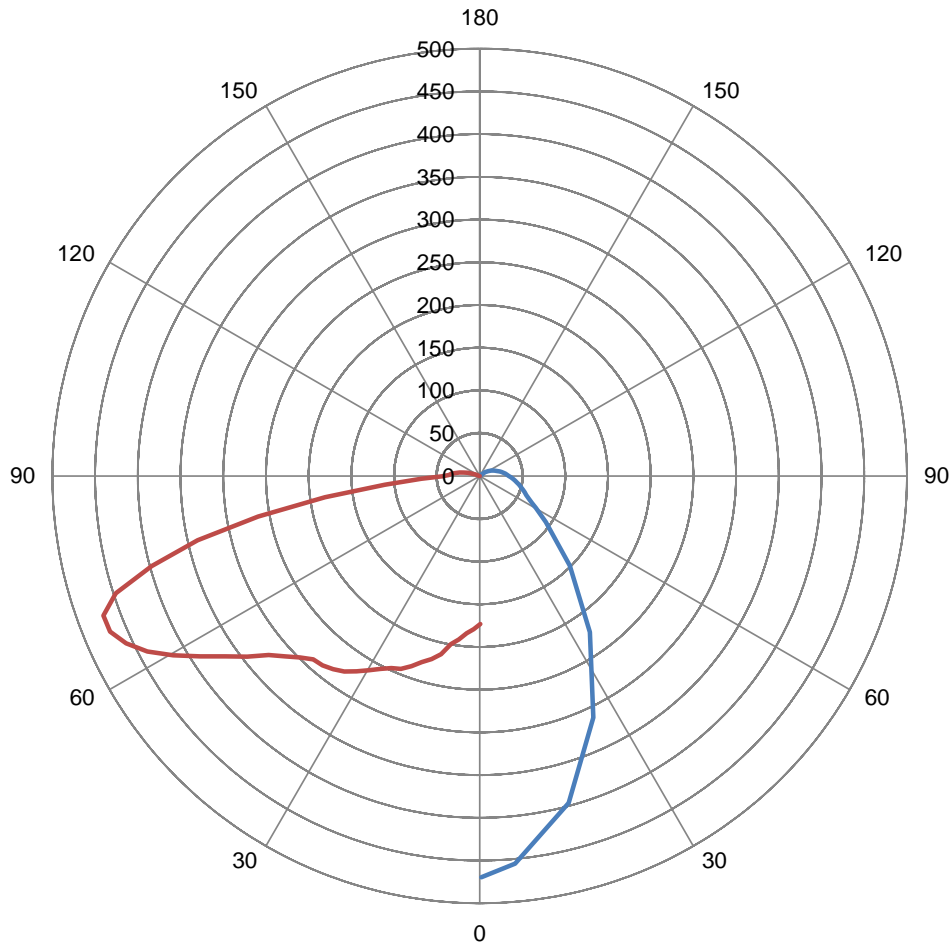
<b>IES Roadway Classification:</b>	Type IV, Very Short	<b>Total Lumen Output:</b>	681 Lumens
<b>Cutoff Classification</b>	Noncutoff	<b>Luminaire Efficacy:</b>	88.0 lm/w
<b>BUG Rating:</b>	B0 U1 G1	<b>Maximum Candela:</b>	470 Candela

#### ISO FootCandle Plot at 20 Feet





**Maximum Plane and Cone Plots of Candela**



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

70 ° Vertical

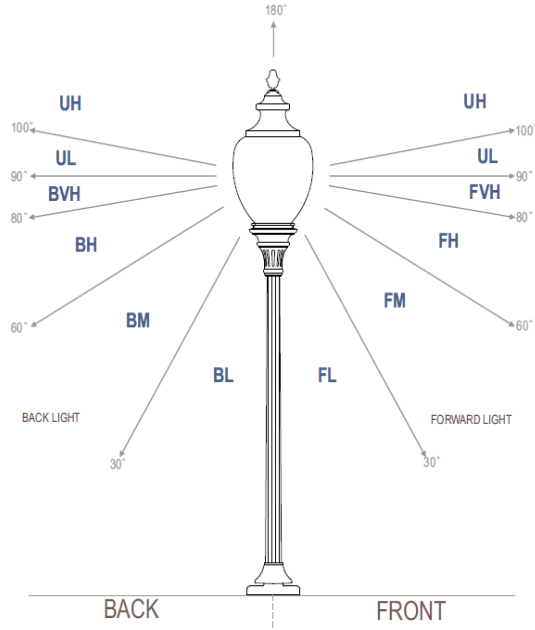
**Maximum Intensity (Candlepower):** 470 Candela

**Zonal Lumen Summary**

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	4.4	0.6%	60-65	55.5	8.1%	120-125	0.0	0.0%
5-10	12.2	1.8%	65-70	54.8	8.0%	125-130	0.0	0.0%
10-15	20.0	2.9%	70-75	49.0	7.2%	130-135	0.0	0.0%
15-20	27.4	4.0%	75-80	36.9	5.4%	135-140	0.0	0.0%
20-25	33.9	5.0%	80-85	21.7	3.2%	140-145	0.0	0.0%
25-30	39.5	5.8%	85-90	10.5	1.5%	145-150	0.0	0.0%
30-35	44.1	6.5%	90-95	6.0	0.9%	150-155	0.0	0.0%
35-40	47.8	7.0%	95-100	3.8	0.6%	155-160	0.0	0.0%
40-45	50.2	7.4%	100-105	2.0	0.3%	160-165	0.0	0.0%
45-50	52.1	7.6%	105-110	0.7	0.1%	165-170	0.0	0.0%
50-55	53.5	7.9%	110-115	0.1	0.0%	170-175	0.0	0.0%
55-60	54.8	8.0%	115-120	0.0	0.0%	175-180	0.0	0.0%



**IES "BUG" Rating**  
 (Back Light, Uplight, Glare)  
 Per IES TM-15-11



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	84.2	12.4%
FM	(30-60)	235.4	34.6%
FH	(60-80)	186.0	27.3%
FVH	(80-90)	32.1	4.7%
BL	(0-30)	53.3	7.8%
BM	(30-60)	67.0	9.8%
BH	(60-80)	10.1	1.5%
BVH	(80-90)	0.2	0.0%
UL	(90-100)	9.9	1.4%
UH	(100-180)	2.8	0.4%
Total		680.9	100.0%
<b>BUG Rating</b>	<b>B0 U1 G1</b>		

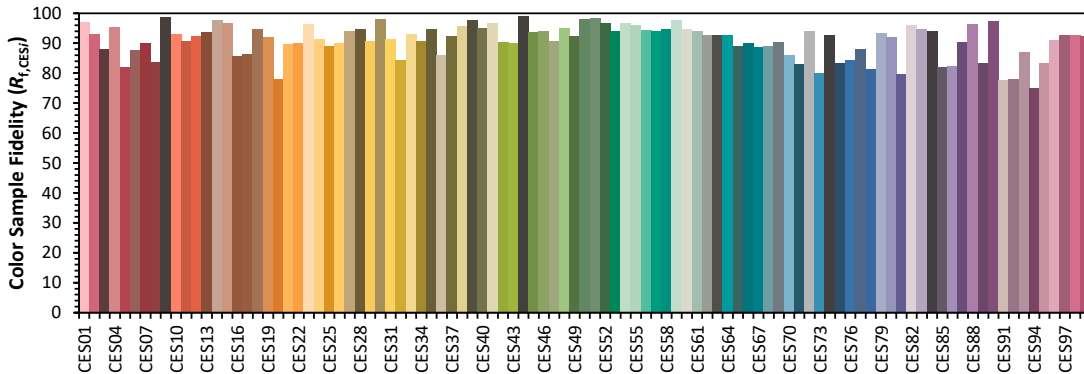
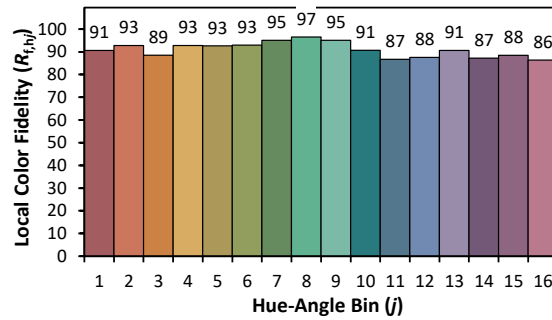
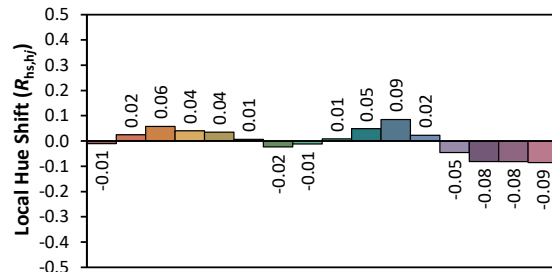
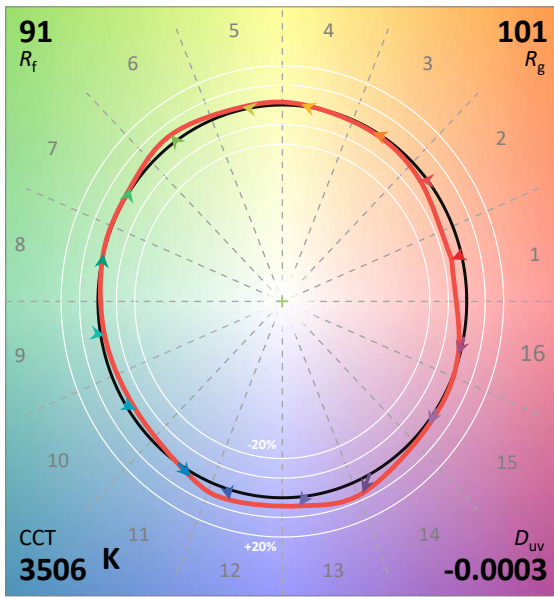
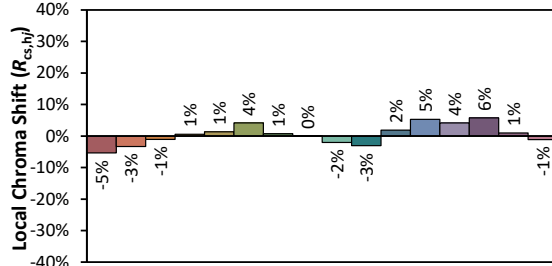
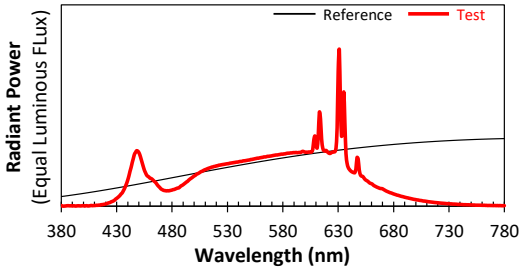
# ANSI/IES TM-30-18 Color Rendition Report

Date: 2021-08-05

Manufacturer: BARTCO LIGHTING INC

Model:

BDA30-48-35-ND-L-1-A-AW-SM1-SN-ESS



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x **0.4046**  
 y **0.3897**  
 u' **0.2356**  
 v' **0.5107**

CIE 13.3-1995	
(CRI)	
R <sub>a</sub>	93
R <sub>9</sub>	60

Colors are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.00.