



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

Luminaire Description: Silver rectangular metal housing, reflectors, and patterned plastic
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: 429 Lumens
Efficacy: 54.63 lm/w
CCT: 3448 K
CRI (Ra): 92.7

Distribution

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

Electrical Data at 120 VAC

Test Temperature: 25.1 °C
Voltage: 120.1 VAC
Current: 0.06564 A
Power: 7.852 W
Power Factor: 0.996
Frequency: 60 Hz
Current THD: 7.31 %



Color Quality - Integrating Sphere

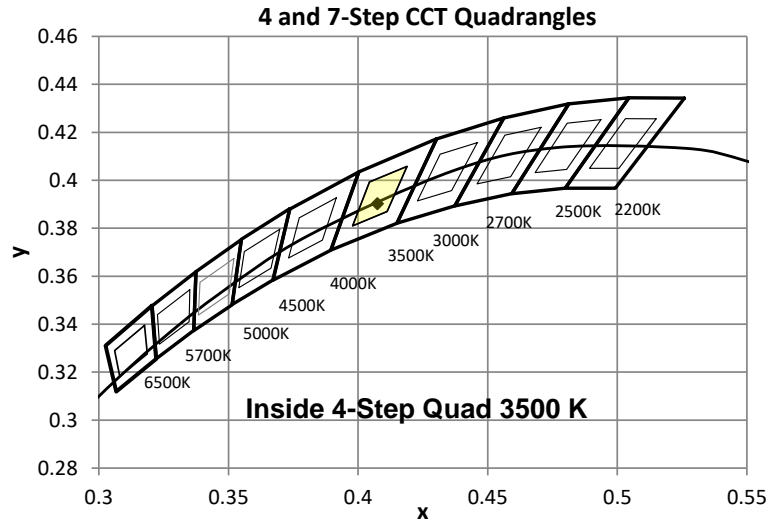
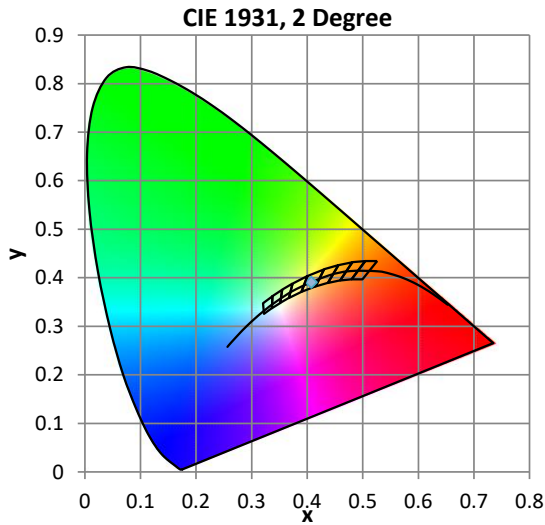
Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.1 VAC	0.06564 A	7.852 W	0.996	60 Hz	7.31 %

Summary of Results

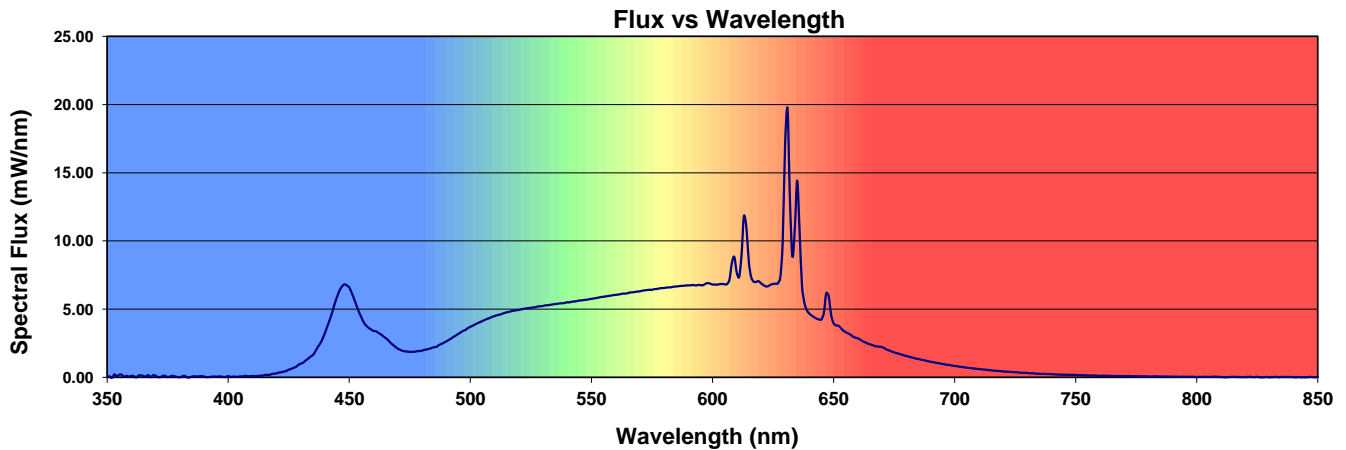
Total Output:	429 Lumens	Chromaticity (x):	0.4074
Efficacy:	54.6 lm/w	Chromaticity (y):	0.3902
CCT:	3448 K	Chromaticity (u'):	0.2373
CRI (Ra):	92.7	Chromaticity (v'):	0.5113
CRI (R9):	59.7	TM-30 Rf:	91
Peak Wavelength:	631 nm	TM-30 Rg:	101
Dominant Wavelength:	581 nm	TM-30 Rcs,h1:	-5%
S/P Ratio:	1.58	Duv:	-0.0007
M/P Ratio:	0.62		

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
92.7	93.9	95.0	94.6	93.9	93.3	93.7	92.8	84.1	59.7	86.8	94.5	78.7	94.0	96.1	90.2





Distribution - Goniophotometer

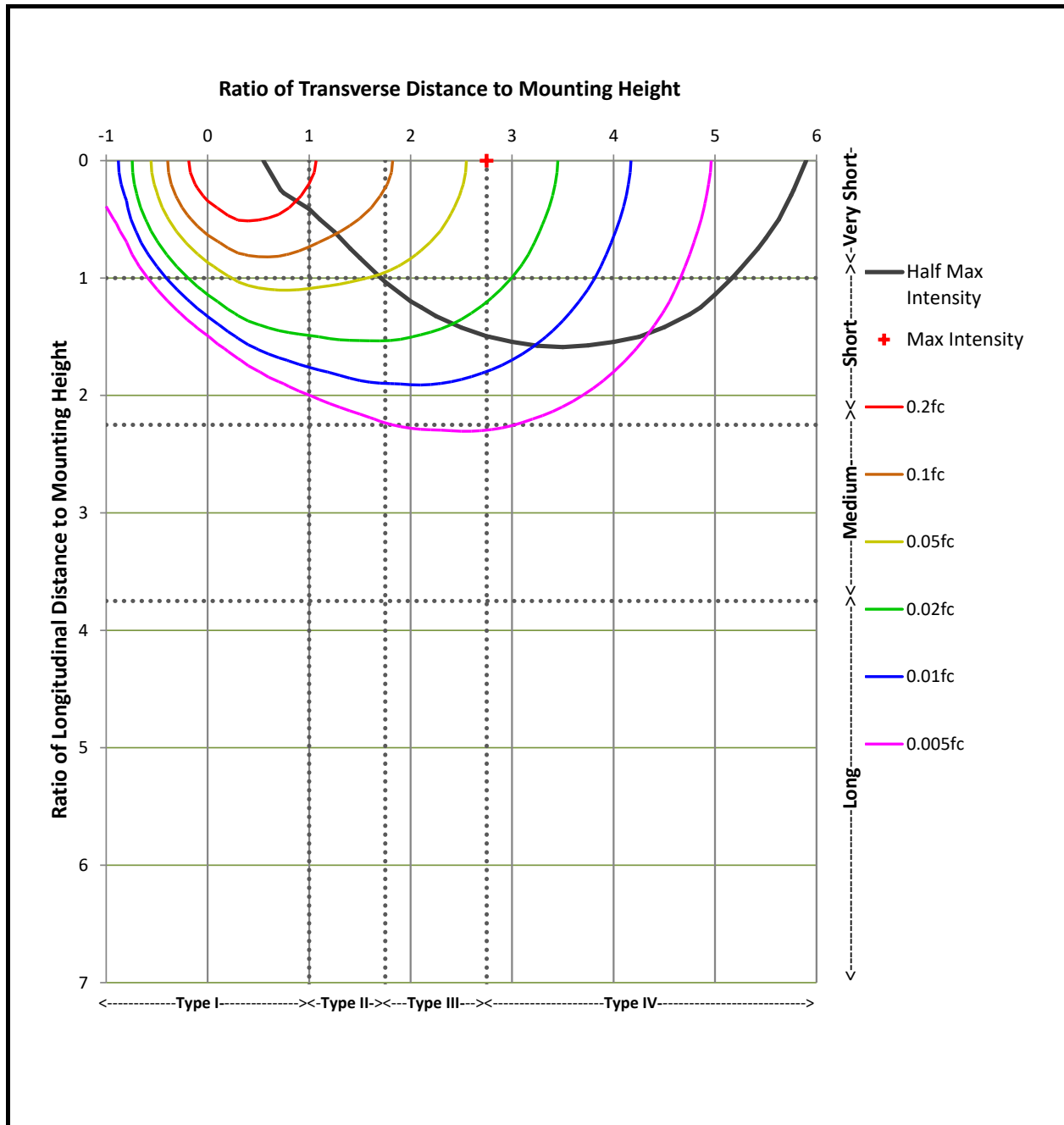
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.1 VAC	0.06570 A	7.855 W	0.996	60 Hz	7.33 %

Summary of Results

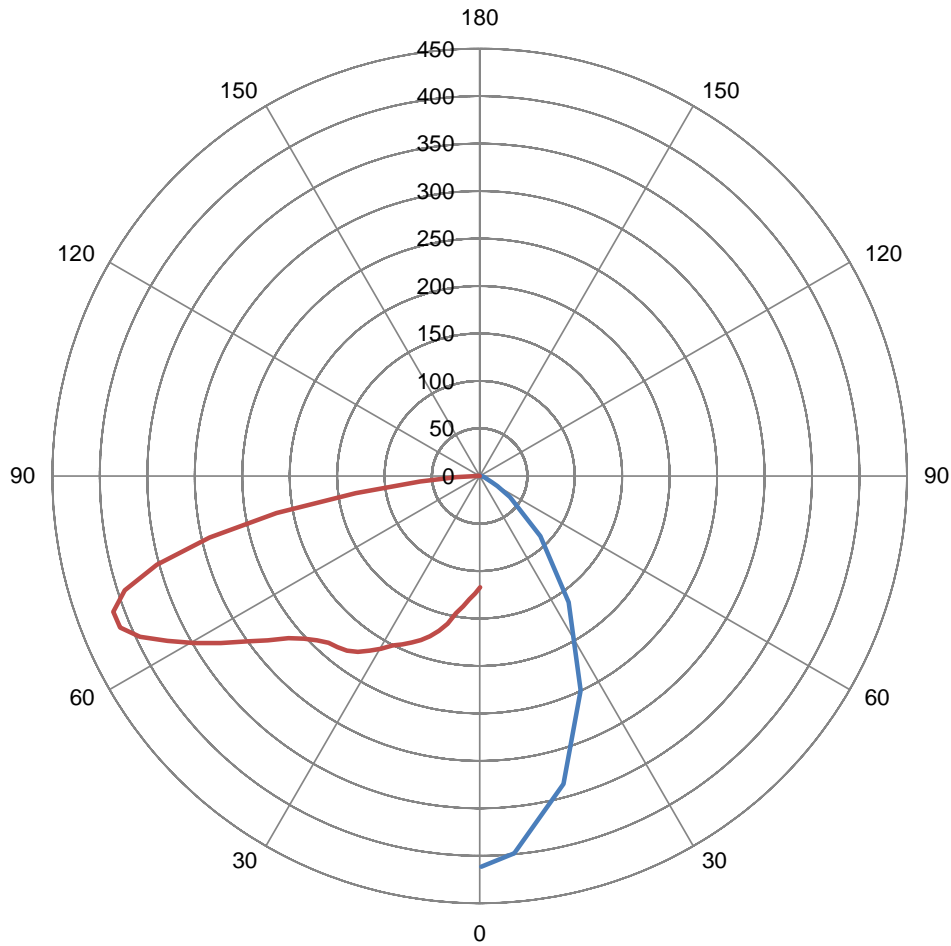
IES Roadway Classification:	Type IV, Very Short	Total Lumen Output:	409 Lumens
Cutoff Classification	Noncutoff	Luminaire Efficacy:	52.1 lm/w
BUG Rating:	B0 U1 G1	Maximum Candela:	412 Candela

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):

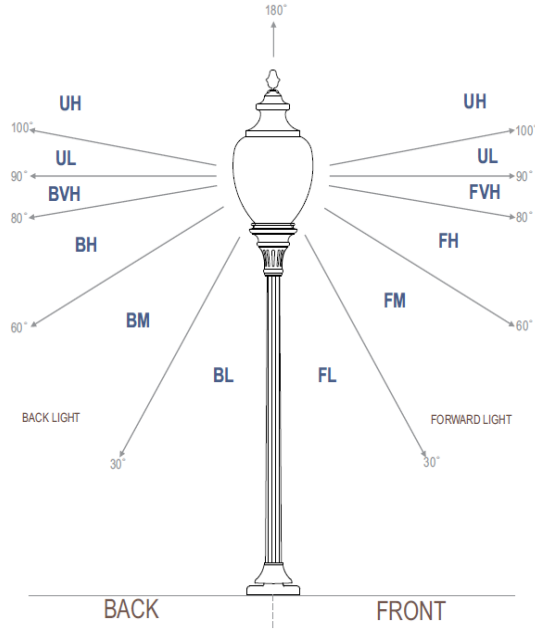
412 Candela

Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	2.9	0.7%	60-65	35.6	8.7%	120-125	0.0	0.0%
5-10	8.1	2.0%	65-70	37.4	9.1%	125-130	0.0	0.0%
10-15	13.0	3.2%	70-75	34.3	8.4%	130-135	0.0	0.0%
15-20	17.4	4.3%	75-80	25.0	6.1%	135-140	0.0	0.0%
20-25	21.0	5.1%	80-85	11.6	2.8%	140-145	0.0	0.0%
25-30	23.8	5.8%	85-90	2.4	0.6%	145-150	0.0	0.0%
30-35	26.1	6.4%	90-95	0.2	0.1%	150-155	0.0	0.0%
35-40	27.8	6.8%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	28.9	7.1%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	29.7	7.3%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	30.8	7.5%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	32.8	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)	59.1	14.5%
FM	(30-60)	162.6	39.8%
FH	(60-80)	132.1	32.3%
FVH	(80-90)	14.1	3.4%
BL	(0-30)	27.2	6.7%
BM	(30-60)	13.5	3.3%
BH	(60-80)	0.2	0.0%
BVH	(80-90)	0.0	0.0%
UL	(90-100)	0.2	0.1%
UH	(100-180)	0.0	0.0%
Total		409.1	100.0%
BUG Rating	B0 U1 G1		

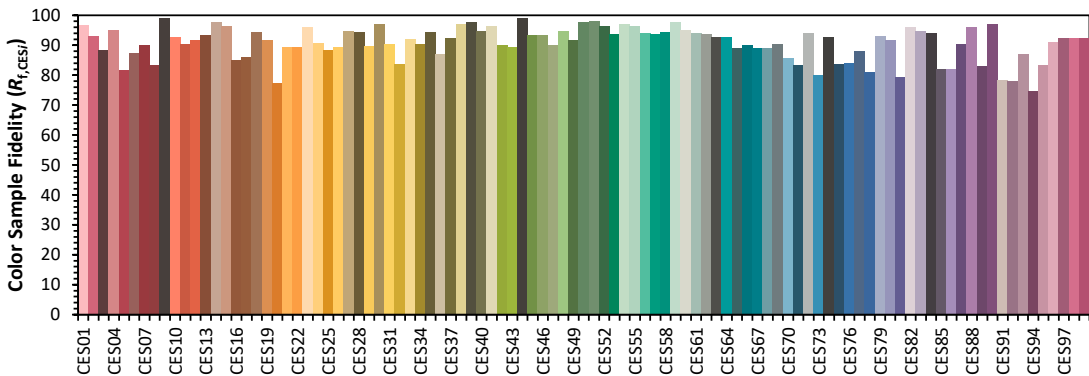
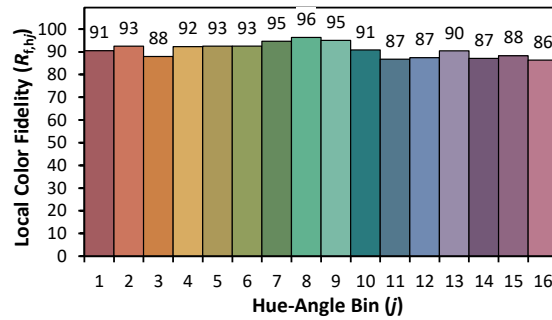
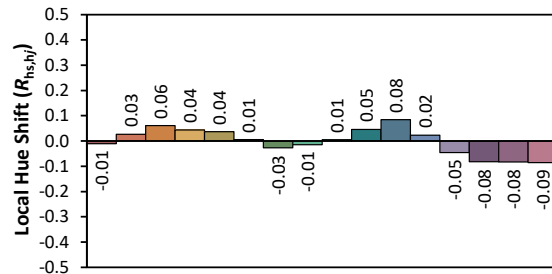
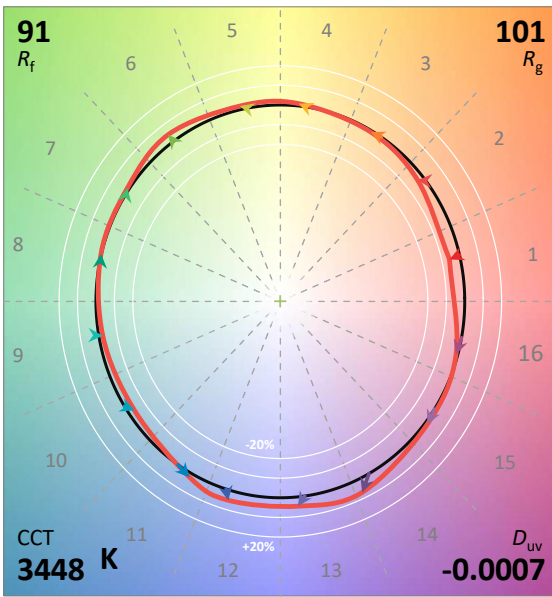
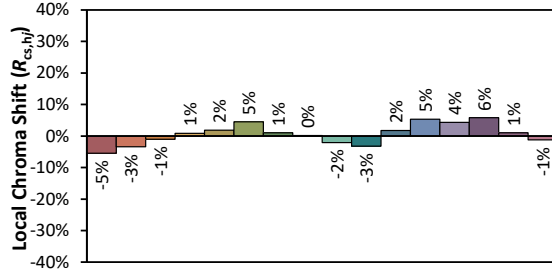
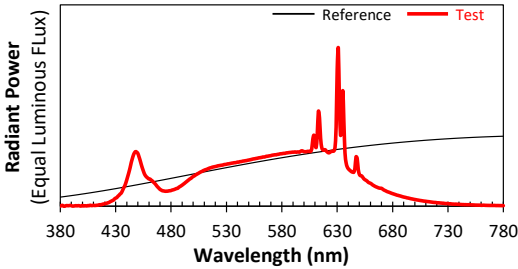
ANSI/IES TM-30-18 Color Rendition Report

Date: 2021-08-05

Manufacturer: BARTCO LIGHTING INC

Model:

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



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

x 0.4074
 y 0.3902
 u' 0.2373
 v' 0.5113

CIE 13.3-1995 (CRI)	
R_a	93
R_9	60

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