



BSS208-4-35-ND-R-2-SM-SN-AW

Luminaire Description: White rectangular metal housing with diffuse plastic lens
Lamp: 112 White LEDs
Mounting: Surface – Ceiling
Ballast/Driver: One (1) ADVANCE XI040C110V054BST2

Luminaire



Luminaire Characteristics

Luminous Length: 2.00 in.
 Luminous Width: 44.00 in.
 Luminous Height: 0.50 in.

Summary of Results

Integrating Sphere

Luminous Flux: 3074 Lumens
 Efficacy: 108.42 lm/w
 CCT: 3444 K
 CRI (Ra): 93.4

Distribution

Total Luminaire Output: 2933 Lumens
 Luminaire Efficacy: 103.4 lm/w
 Maximum Candela: 1126 Candela

Electrical Data at 120 VAC

Test Temperature: 25.5 °C
 Voltage: 120.1 VAC
 Current: 0.2377 A
 Power: 28.35 W
 Power Factor: 0.993
 Frequency: 60 Hz
 Current THD: 8.12 %



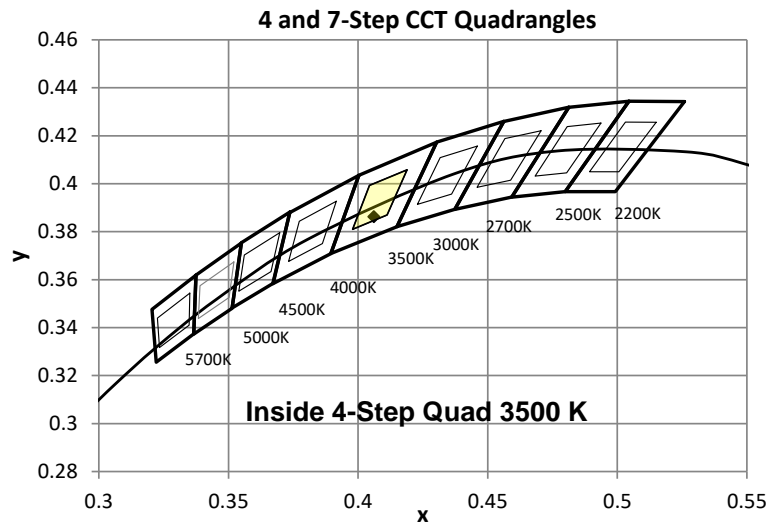
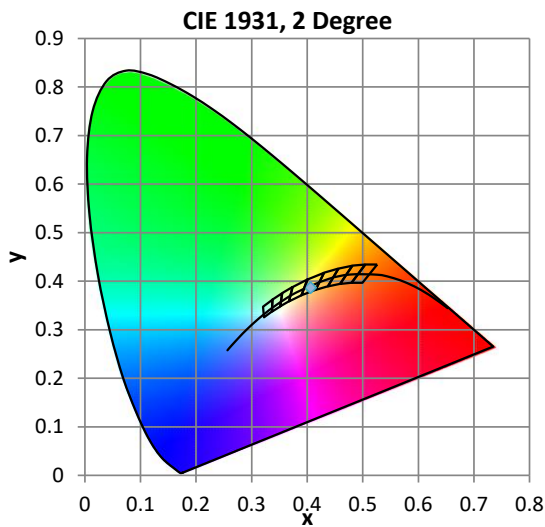
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.5 °C	120.1 VAC	0.2377 A	28.35 W	0.993	60 Hz	8.12 %

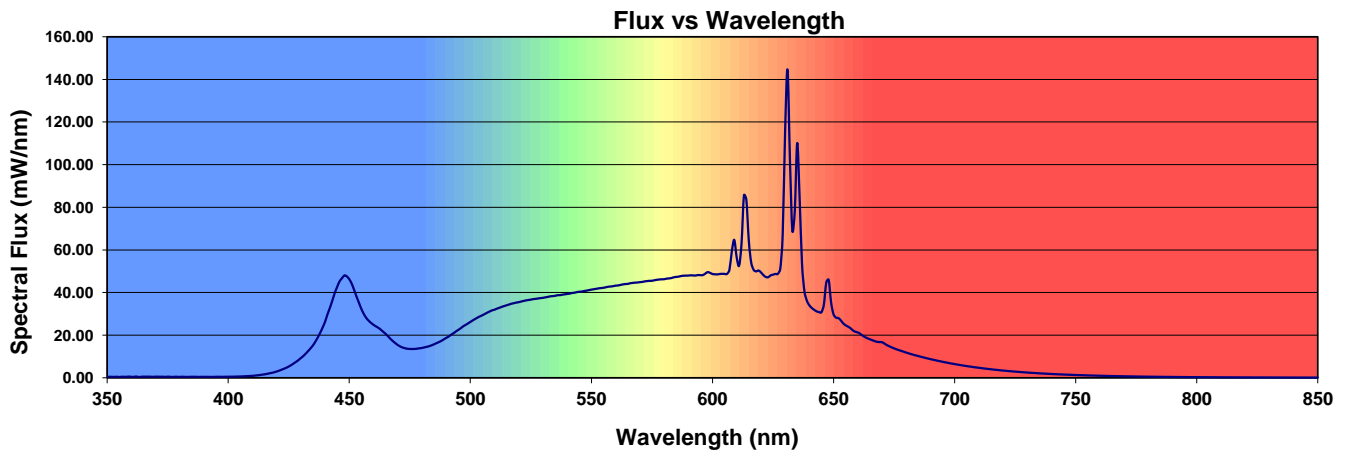
Summary of Results

Total Output:	3074 Lumens	Chromaticity (x):	0.4061
Efficacy:	108.4 lm/w	Chromaticity (y):	0.3863
CCT:	3444 K	Chromaticity (u'):	0.2381
CRI (Ra):	93.4	Chromaticity (v'):	0.5095
CRI (R9):	65.1	TM-30 Rf:	91
Peak Wavelength:	631 nm	TM-30 Rg:	102
Dominant Wavelength:	582 nm	TM-30 Rcs,h1:	-5%
S/P Ratio:	1.58	Duv:	-0.0021



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.4	95.3	95.5	93.9	94.1	94.6	94.2	93.0	86.2	65.1	87.8	94.4	81.3	95.2	95.7	92.1





Distribution - Goniophotometer

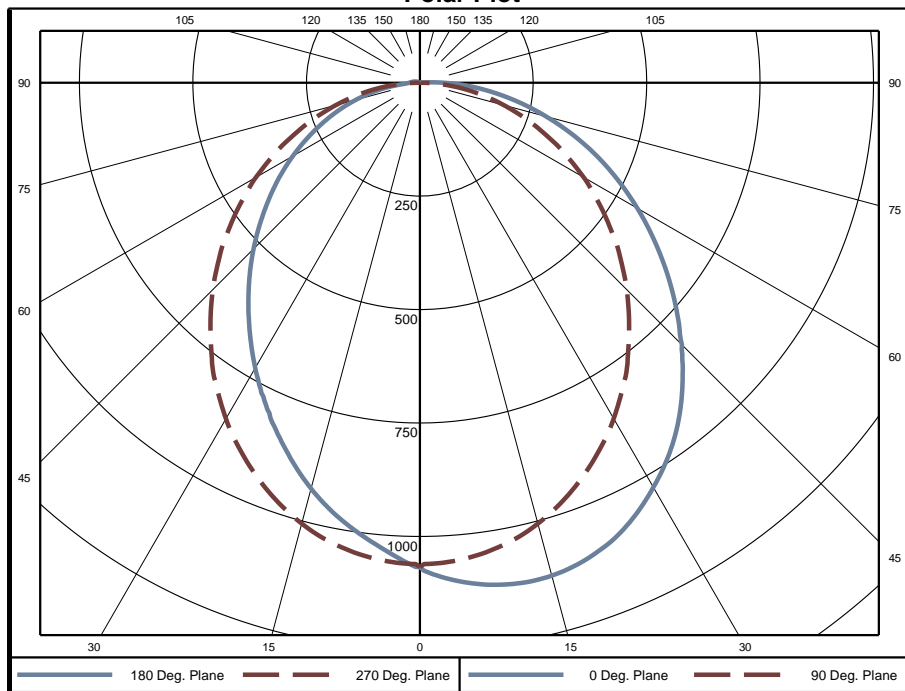
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.8 °C	120.1 VAC	0.2375 A	28.35 W	0.994	60 Hz	6.82 %

Summary of Results

Spacing Criteria	Total Lumen Output:	2933 Lumens
0-180: 1.40	Luminaire Efficacy:	103.4 lm/w
90-270: 1.19	Maximum Candela:	1126 Candela
Corrected UGR (Room Dimension: X=4H, Y=8H, Reflectances: 70/50/20%, S/H: 1)		
Crosswise: 27.6	Endwise: 26.3	

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	25.4	0.9%	60-65	189.2	6.5%	120-125	0.0	0.0%
5-10	75.3	2.6%	65-70	159.0	5.4%	125-130	0	0.0%
10-15	122.2	4.2%	70-75	125.9	4.3%	130-135	0	0.0%
15-20	164.1	5.6%	75-80	91.5	3.1%	135-140	0	0.0%
20-25	199.3	6.8%	80-85	57.1	1.9%	140-145	0	0.0%
25-30	226.7	7.7%	85-90	25.0	0.9%	145-150	0	0.0%
30-35	245.6	8.4%	90-95	6.1	0.2%	150-155	0	0.0%
35-40	255.8	8.7%	95-100	2.4	0.1%	155-160	0	0.0%
40-45	257.0	8.8%	100-105	1.6	0.1%	160-165	0	0.0%
45-50	250.2	8.5%	105-110	1.1	0.0%	165-170	0	0.0%
50-55	236.0	8.0%	110-115	0.6	0.0%	170-175	0	0.0%
55-60	215.3	7.3%	115-120	0.2	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1314	44.8%
0-60	2273	77.5%
0-90	2921	99.6%
90-180	12	0.4%



Candela Tabulation
Horizontal Angle (Degrees)

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	1067	1067	1067	1067	1067	1067	1067	1067	1067	1067	1067	1067	1067	1067	1067	1067
5	1105	1096	1088	1074	1055	1045	1035	1028	1026	1028	1035	1045	1055	1074	1088	1096
10	1122	1108	1093	1069	1037	1013	996	984	981	984	996	1013	1037	1069	1093	1108
15	1124	1105	1083	1050	1006	972	951	935	926	935	951	972	1006	1050	1083	1105
20	1109	1085	1057	1016	964	924	897	875	862	875	897	924	964	1016	1057	1085
25	1078	1049	1017	971	913	869	835	809	795	809	835	869	913	971	1017	1049
30	1029	1001	966	916	855	809	769	741	726	741	769	809	855	916	966	1001
35	972	939	904	853	791	742	701	673	655	673	701	742	791	853	904	939
40	899	867	833	782	718	673	632	604	586	604	632	673	718	782	833	867
45	817	789	756	704	645	602	562	536	518	536	562	602	645	704	756	789
50	729	706	671	625	571	530	492	469	451	469	492	530	571	625	671	706
55	642	619	585	543	492	456	423	403	386	403	423	456	492	543	585	619
60	554	531	500	459	417	384	355	338	323	338	355	384	417	459	500	531
65	466	443	414	376	340	312	289	276	262	276	289	312	340	376	414	443
70	378	356	330	295	264	241	225	215	203	215	225	241	264	295	330	356
75	289	272	249	218	192	175	164	157	147	157	164	175	192	218	249	272
80	204	191	171	146	125	112	105	102	93	102	105	112	125	146	171	191
85	125	114	99	79	61	53	49	49	42	49	49	53	61	79	99	114
90	52	44	31	15	3	9	17	23	24	23	17	9	3	15	31	44
95	1	0	0	0	0	4	12	17	18	17	12	4	0	0	0	0
100	0	0	0	0	0	1	8	13	14	13	8	1	0	0	0	0
105	0	0	0	0	0	0	5	10	11	10	5	0	0	0	0	0
110	0	0	0	0	0	0	2	7	8	7	2	0	0	0	0	0
115	0	0	0	0	0	0	0	4	5	4	0	0	0	0	0	0
120	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

	0	45	90
0	18800	18800	18800
45	16280	15890	15880
55	14520	14210	14880
65	12640	12350	13840
75	10160	10010	12560
85	6523	6414	10820

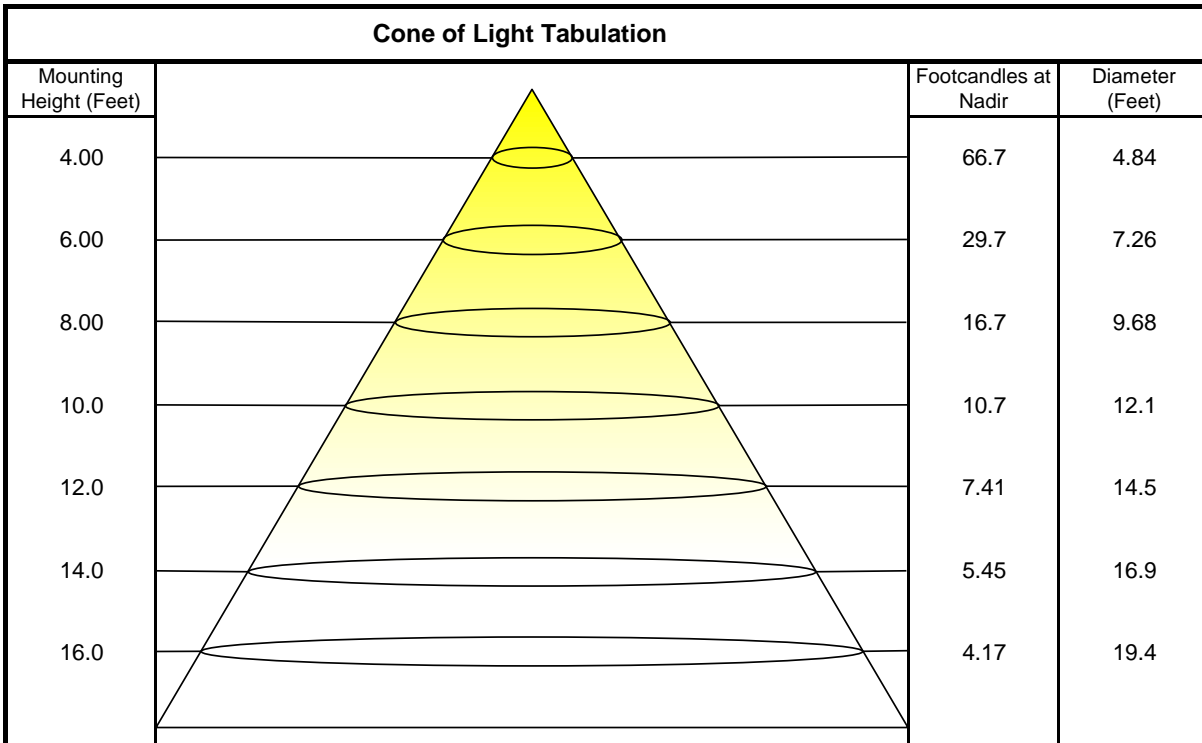


Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as percent of total lumen output delivered to the task surface **																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	76	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	76	63	54	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	1067 Candela
Central Cone Intensity:	1065 Candela
Beam Flux:	1974.2 Lumens
Beam Angle (0-180):	105.0 Degrees
Beam Angle (90-270):	104.6 Degrees
Field Angle (0-180):	164.9 Degrees
Field Angle (90-270):	162.8 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



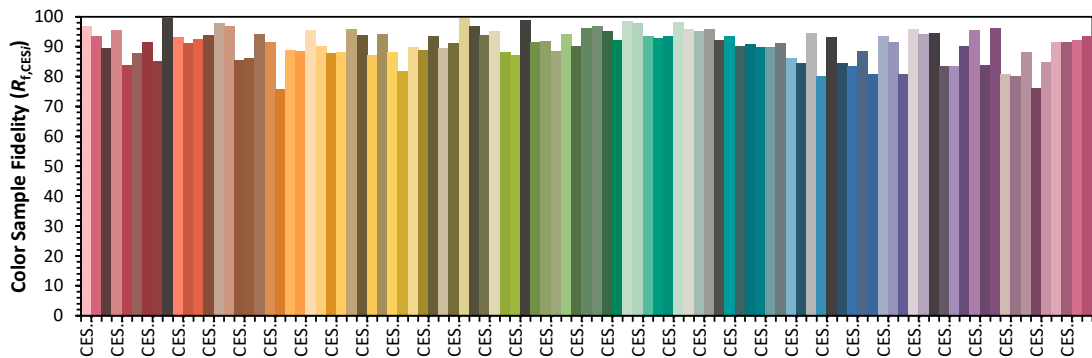
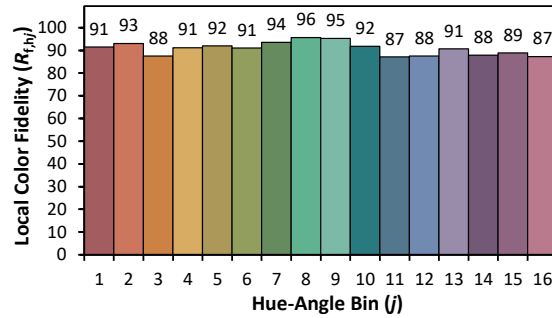
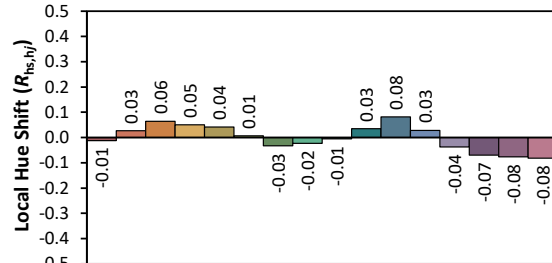
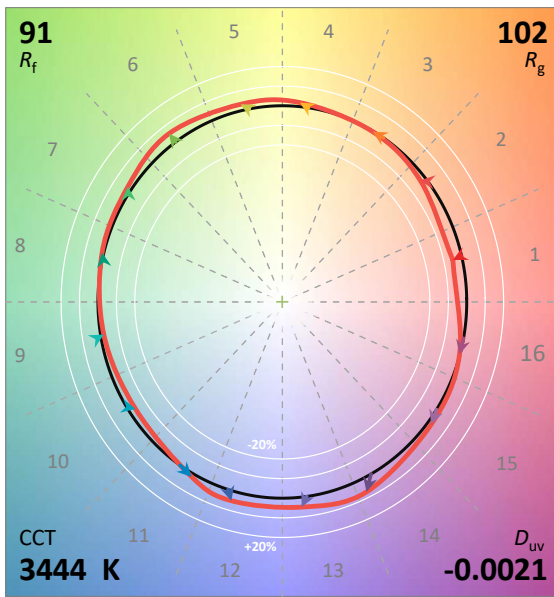
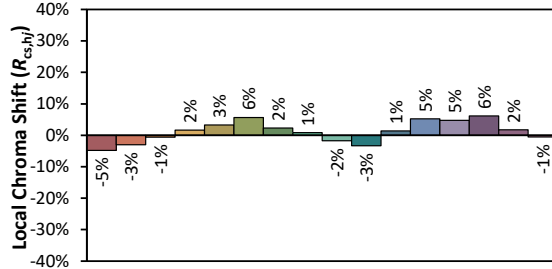
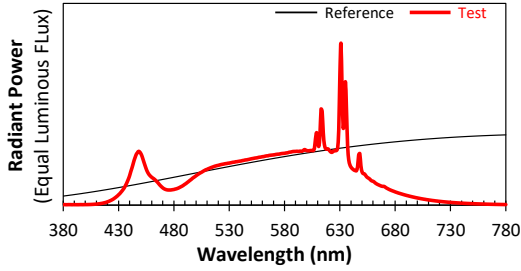
ANSI/IES TM-30-18 Color Rendition Report

Source: Test Number: 13497846.01A

Manufacturer: BARTCO LIGHTING INC

Date: 2020-09-09

Model: BSS208-4-35-ND-R-2-SM-SN-AW



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

x 0.4061
y 0.3863
u' 0.2381
v' 0.5095

CIE 13.3-1995 (CRI)	
R_a	93
R_g	65

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

